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124	X.158	Khlong Tha Taphao at Ban Wang Khrok, Chumphon	846
125	X.270	Lower Khlong Tako at Ban Nong Chik, Chumphon	847

TAPI RIVER BASIN

126	X.37A	Tapi River at Ban Yan Din Daeng, Surat Thani	848
127	X.195	Tapi River at Ban Tha Pho, Nakhon Si Thammarat	849
128	X.198	Khlong Sin Pun at Ban Bang Rup, Surat Thani	850
129	X.257	Khlong Chandee at Ban Pak Min, Nakhon Si Thammarat	851
130	X.260	Lower Khlong I - Pan at Ban Arpart, Surat Thani	852

THALE SAP SONGKHLA BASIN

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Appendix A	Flow Duration Curve for Daily Discharge
Appendix B	Mean Annual Runoff vs. Drainage Area
Appendix C	Maximum Momentary Discharge vs. Drainage Area

HYDROLOGICAL YEAR BOOK PUBLICATION

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

Introduction

Great Attempt has been made all along to expedite the engineering processing of the stream flow data to be ready for publication, and to translate the publication plan into implementation. Efforts from various working units as well as personnel concerned pulled together to drive this work into reality. Publication of stream flow 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 gauging stations in 59 streams.

Definition of terms and abbreviations

Table for converting Metric Units to English Units is on page XXX. Terms related to stream flow 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, with in 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.

Gauging 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 gauging station" is applied only those gauging stations where only a gage height record is observed at an installed staff gage. If a water stage recorder is also installed, such a gauging station is referred as recording gauging station. In case of discharge measurements being practiced, it is referred as stream flow 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 3 of 12 months. Thus, the year began April 1, 1969 is called the "1969 water year".

Order of listing of gauging data

In this format, gauging 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 stream flow rating station ever built in this river.

Series of yearbook publications

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

<u>Volume</u>	<u>Water Years</u>	<u>No. of station – years</u>	<u>Date of Issuance</u>
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
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

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<u>Volume</u>	<u>Water Years</u>	<u>No. of station – years</u>	<u>Date of Issuance</u>
34	1991	227	July 1993
35	1992	220	May 1994
36	1993	228	April 1995
37	1994	224	August 1996
38	1995	232	July 1997
39	1996	244	August 1998
40	1997	269	August 1999
41	1998	258	August 2000
42	1999	291	August 2001
43	2000	316	September 2002
44	2001	330	September 2003
45	2002	316	October 2004
46	2003	334	October 2005
47	2004	338	November 2006
48	2005	340	December 2007
49	2006	362	February 2009
50	2007	361	May 2010
51	2008	372	February 2011
52	2009	368	December 2012
53	2010	347	February 2013
54	2011	360	April 2013

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

STANDARD OF STREAMFLOW DATA PROCUREMENT

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

Network design

The location of stream gauging stations is primarily based upon the urgent need at various dam sites 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 stream flow 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 enameled staff gage section 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 begin used. Few wire - weight gages are also adopted on highway bridges.

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

At the stream flow gauging 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 stream flow gauging 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 cable way across the river is one of typical means of flow measurement by current meter for medium river, 100 m wide. Flow 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 over bank flow stage. The over bank 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 gauging 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 tail waters of existing reservoirs.

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

Review of procedure for stream flow 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) Datum's 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 stream flow 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

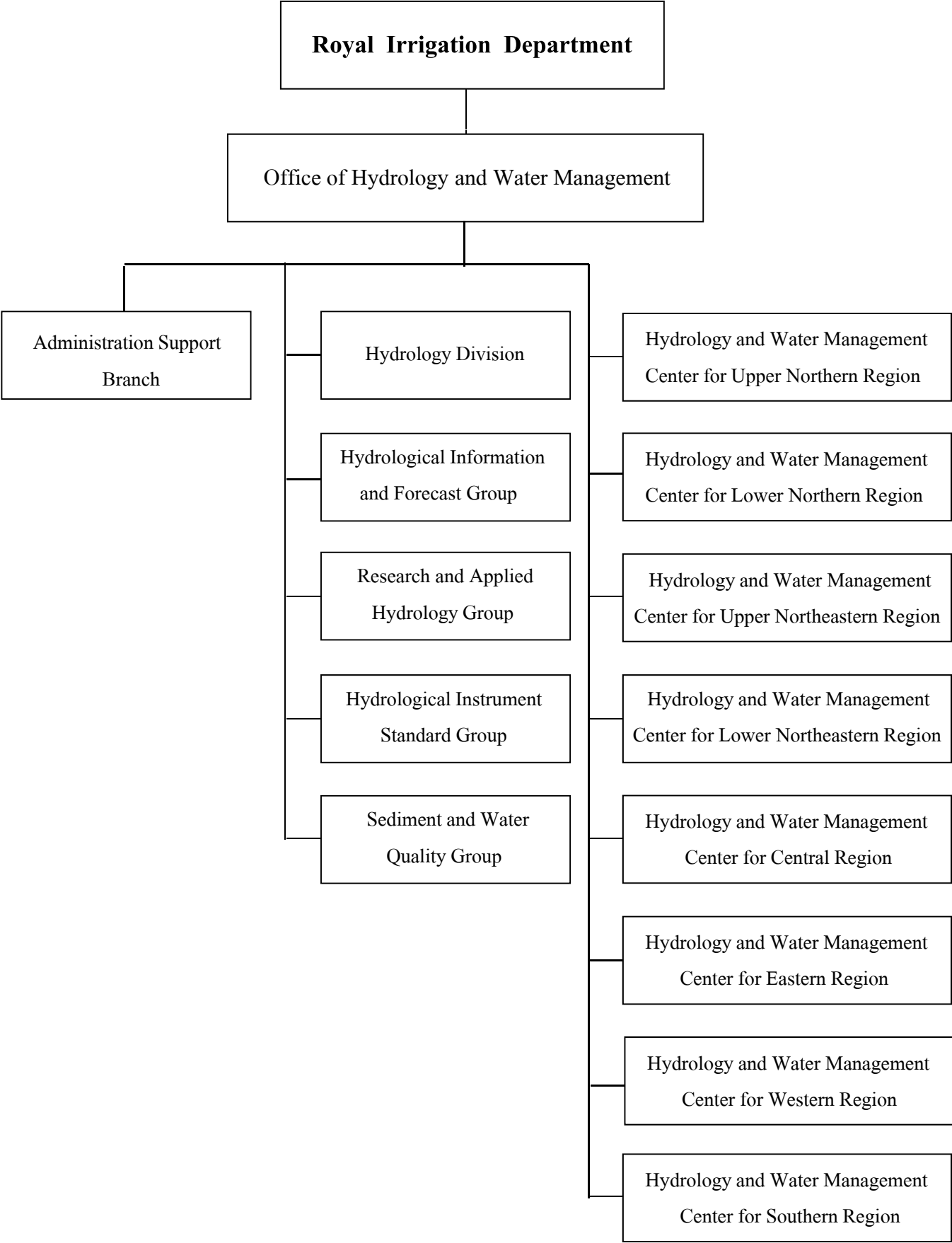
The Royal Irrigation Department (RID) has developed data system which include computerization of storage, Processing and retrieval of rainfall data since 1969. During the stream flow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement 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, analyze 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 Sequential 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 agency wise. 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 agency wise; raw data and analysis data either in the form of computer printouts or in the direct accessible forms like cards or 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

Stream flow 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 :-



PARTICIPATION IN STREAM GAUGING WORKS

* * * * *

Among 22 water related government agencies, several of them operate stream flow gauging 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, stream flow, 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 gauging 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 station are currently operated while 232 were abandoned.

After the onset of the Lower Mekong River Basin Development Scheme, the Hydrology Section was also established in the Investigation and Planning Division of the National Energy Administration which is a representative agency of Thai Government in the Lower Mekong Committee. During the period of November 1958 – May 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 gauging works is the Hydrometeorology Division of the Meteorological Department. With the technical and financial support from the World Meteorological Organization, this agency began the stream gauging works in 1967. Up till now, about 11 discharge stations and 32 stage stations are under operation. The stream gauging data are also included in their yearbook.

The last agency which operates the stream gauging 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 gauging 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 here in to the English units.

<u>Multiply metric or Thai units</u>	<u>By</u>	<u>To obtain English Unit</u>
<u>Length</u>		
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)
<u>Area</u>		
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)
<u>Volume</u>		
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)

XXXII

<u>Multiply metric or Thai units</u>	By	<u>To obtain English Unit</u>
	<u>Flow</u>	
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 x 10 ⁻³	million gallons per day (mgd)
cubic meters per second (m ³ / s)	35.31	cubic feet per second (ft ³ / s)
	15,850	gallons per minute (gpm)
	22.82	million gallons per day (mgd)

* * * * *

Stream Gauging Data

Water Year 2011

WATER YEAR : 2011
SALAWIN RIVER BASIN

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

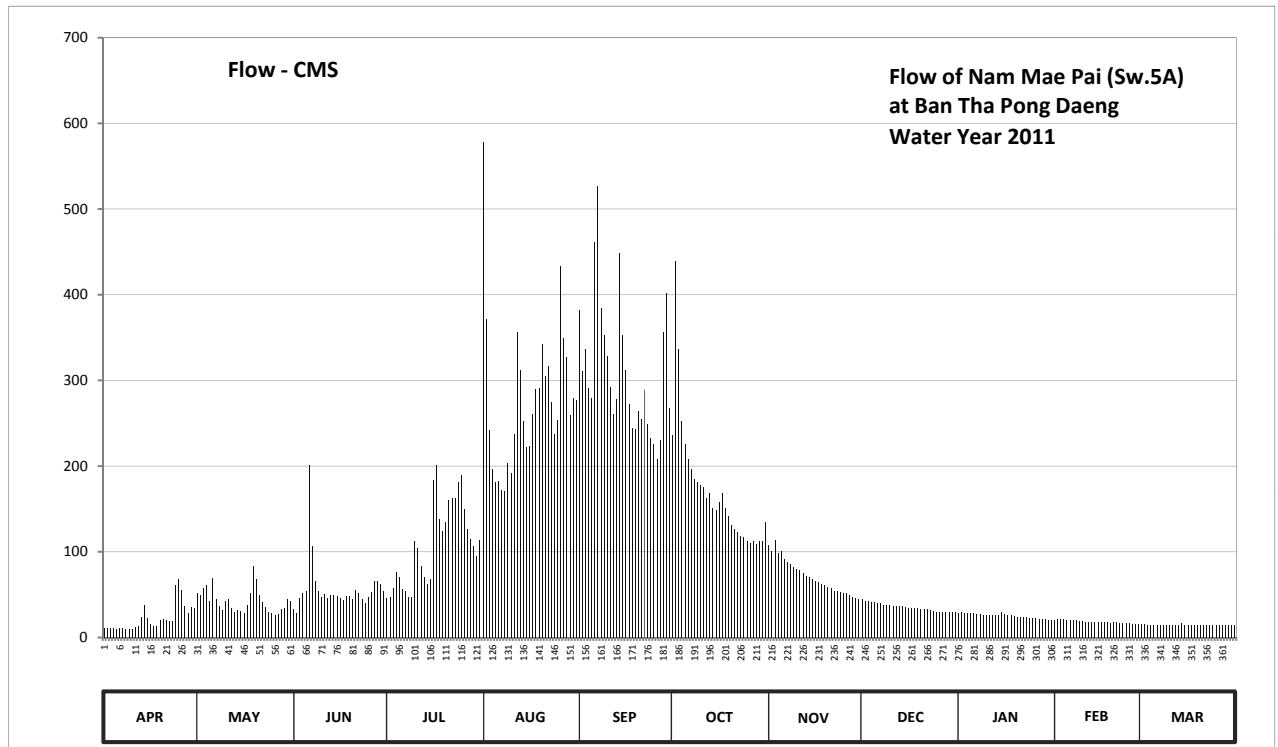
Lat 19 - 16 - 06 N Long 97 - 56 - 55 E

Location : on left bank at Ban Tha Pong Daeng.

	Ban	Tha Pong Daeng	Amphoe	Mueang	Changwat	Mae Hong Son
Drainage Area	4,470	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+175.757	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the station office.				Elevation	+187.423 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1980 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
Rated by Current Meter	1984 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 203 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	175.44	176.00	175.75	175.92	179.45	178.47	177.57	176.56	175.90	175.69	175.58	175.51	
2	175.43	175.96	175.68	175.93	178.41	178.05	178.78	176.50	175.88	175.70	175.60	175.51	
3	175.43	176.07	175.92	176.07	177.61	178.21	178.21	176.62	175.88	175.69	175.60	175.50	
4	175.43	176.10	176.00	176.26	177.28	177.93	177.68	176.48	175.86	175.69	175.59	175.49	
5	175.42	175.87	176.03	176.20	177.17	177.86	177.50	176.50	175.86	175.68	175.58	175.49	
6	175.44	176.19	177.32	176.05	177.18	178.89	177.37	176.41	175.85	175.68	175.58	175.50	
7	175.44	175.91	176.55	176.02	177.10	179.21	177.28	176.38	175.84	175.67	175.57	175.49	
8	175.42	175.80	176.15	175.93	177.09	178.48	177.20	176.36	175.82	175.67	175.57	175.49	
9	175.41	175.73	176.02	175.93	177.34	178.30	177.17	176.32	175.82	175.66	175.56	175.50	
10	175.41	175.87	175.94	176.60	177.25	178.16	177.14	176.30	175.81	175.66	175.56	175.50	
11	175.45	175.91	175.98	176.53	177.58	177.94	177.12	176.29	175.80	175.66	175.55	175.49	
12	175.48	175.77	175.92	176.33	178.32	177.74	177.02	176.25	175.80	175.65	175.55	175.49	
13	175.62	175.70	175.96	176.20	178.06	177.85	177.07	176.22	175.80	175.65	175.55	175.50	
14	175.81	175.73	175.96	176.12	177.68	178.83	176.93	176.20	175.79	175.65	175.55	175.52	
15	175.61	175.72	175.95	176.18	177.47	178.30	176.91	176.18	175.78	175.71	175.55	175.50	
16	175.51	175.69	175.92	177.19	177.48	178.06	176.98	176.16	175.77	175.67	175.54	175.50	
17	175.47	175.81	175.89	177.32	177.74	177.81	177.07	176.14	175.77	175.65	175.54	175.50	
18	175.47	175.99	175.95	176.83	177.92	177.63	176.93	176.12	175.77	175.65	175.54	175.49	
19	175.58	176.33	175.95	176.71	177.93	177.62	176.85	176.10	175.76	175.64	175.53	175.49	
20	175.60	176.18	175.91	176.80	178.24	177.76	176.77	176.08	175.75	175.62	175.54	175.50	
21	175.57	175.97	176.04	177.00	178.02	177.70	176.73	176.06	175.75	175.62	175.54	175.50	
22	175.56	175.86	176.00	177.02	178.09	177.92	176.70	176.03	175.75	175.62	175.53	175.50	
23	175.56	175.78	175.90	177.02	177.83	177.66	176.66	176.02	175.73	175.62	175.53	175.50	
24	176.10	175.71	175.84	177.17	177.58	177.55	176.64	176.01	175.72	175.61	175.52	175.49	
25	176.18	175.68	175.94	177.23	177.69	177.50	176.61	175.99	175.71	175.61	175.52	175.50	
26	176.04	175.66	176.01	176.92	178.75	177.37	176.58	175.99	175.71	175.61	175.51	175.50	
27	175.80	175.67	176.16	176.73	178.28	177.53	176.60	175.96	175.71	175.60	175.51	175.50	
28	175.68	175.75	176.16	176.63	178.15	178.32	176.57	175.94	175.70	175.60	175.51	175.49	
29	175.78	175.77	176.11	176.55	177.73	178.58	176.61	175.92	175.70	175.59	175.51	175.50	
30	175.76	175.90	176.02	176.45	177.86	177.78	176.61	175.91	175.70	175.58		175.49	
31		175.87		176.62	177.84		176.80		175.70	175.58		175.49	
Mean	175.60	175.87	176.03	176.53	177.81	178.03	177.05	176.20	175.78	175.64	175.55	175.50	
Max	176.18	176.33	177.32	177.32	179.45	179.21	178.78	176.62	175.90	175.71	175.60	175.52	179.45
Min	175.41	175.66	175.68	175.92	177.09	177.37	176.57	175.91	175.70	175.58	175.51	175.49	175.41
Annual Max Momentary Gage Height	180.86		m. (MSL.) ,		at 19.00 Hours , on Aug 1 , 2011								
Zero Gage at Bottom Elevation	175.76		m. (MSL.) ,		River Bed	174.53	m. (MSL)						
Left Bank Elevation	183.87		m. (MSL.) ,										
Right Bank Elevation	181.48		m. (MSL.) ,		Drainage Area	4470	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.52	52.00	33.25	46.00	577.75	382.25	235.80	107.60	44.50	28.75	20.60	15.70		
2	10.94	49.00	28.00	46.75	371.75	310.25	439.20	101.00	43.00	29.50	22.00	15.70		
3	10.94	58.30	46.00	58.30	241.50	336.75	336.75	114.30	43.00	28.75	22.00	15.00		
4	10.94	61.00	52.00	76.00	195.80	290.80	252.00	98.80	41.50	28.75	21.30	14.42		
5	10.36	42.25	54.70	70.00	181.25	279.60	226.00	101.00	41.50	28.00	20.60	14.42		
6	11.52	69.10	201.20	56.50	182.50	461.00	207.95	91.10	40.75	28.00	20.60	15.00		
7	11.52	45.25	106.50	53.80	172.50	527.10	195.80	88.00	40.00	27.25	19.90	14.42		
8	10.36	37.00	65.50	46.75	171.25	384.00	185.00	86.00	38.50	27.25	19.90	14.42		
9	9.78	31.75	53.80	46.75	203.90	352.50	181.25	82.00	38.50	26.50	19.20	15.00		
10	9.78	42.25	47.50	112.00	191.75	328.40	177.50	80.00	37.75	26.50	19.20	15.00		
11	12.10	45.25	50.50	104.30	237.20	292.40	175.00	79.00	37.00	26.50	18.50	14.42		
12	13.84	34.75	46.00	83.00	356.00	261.00	162.50	75.00	37.00	25.75	18.50	14.42		
13	23.50	29.50	49.00	70.00	311.90	278.00	168.75	72.00	37.00	25.75	18.50	15.00		
14	37.75	31.75	49.00	62.80	252.00	449.00	151.25	70.00	36.25	25.75	18.50	16.40		
15	22.75	31.00	48.25	68.20	221.80	352.50	148.75	68.20	35.50	30.25	18.50	15.00		
16	15.70	28.75	46.00	183.75	223.20	311.90	157.50	66.40	34.75	27.25	17.80	15.00		
17	13.26	37.75	43.75	201.20	261.00	271.60	168.75	64.60	34.75	25.75	17.80	15.00		
18	13.26	51.25	48.25	138.75	289.20	244.50	151.25	62.80	34.75	25.75	17.80	14.42		
19	20.60	83.00	48.25	124.65	290.80	243.00	141.25	61.00	34.00	25.00	17.10	14.42		
20	22.00	68.20	45.25	135.00	342.00	264.00	131.55	59.20	33.25	23.50	17.80	15.00		
21	19.90	49.75	55.60	160.00	305.30	255.00	126.95	57.40	33.25	23.50	17.80	15.00		
22	19.20	41.50	52.00	162.50	316.85	289.20	123.50	54.70	33.25	23.50	17.10	15.00		
23	19.20	35.50	44.50	162.50	274.80	249.00	118.90	53.80	31.75	23.50	17.10	15.00		
24	61.00	30.25	40.00	181.25	237.20	233.00	116.60	52.90	31.00	22.75	16.40	14.42		
25	68.20	28.00	47.50	189.05	253.50	226.00	113.15	51.25	30.25	22.75	16.40	15.00		
26	55.60	26.50	52.90	150.00	433.50	207.95	109.80	51.25	30.25	22.75	15.70	15.00		
27	37.00	27.25	66.40	126.95	349.00	230.20	112.00	49.00	30.25	22.00	15.70	15.00		
28	28.00	33.25	66.40	115.45	326.75	356.00	108.70	47.50	29.50	22.00	15.70	14.42		
29	35.50	34.75	61.90	106.50	259.50	401.50	113.15	46.00	29.50	21.30	15.70	15.00		
30	34.00	44.50	53.80	95.50	279.60	267.00	113.15	45.25	29.50	20.60		14.42		
31		42.25		114.30	276.40		135.00		29.50	20.60		14.42		
Total	680.02	1322.60	1703.70	3348.50	8587.45	9335.40	5284.70	2137.05	1101.25	785.75	533.70	460.84	35280.96	CMSDAY
Mean	22.67	42.66	56.79	108.02	277.01	311.18	170.47	71.24	35.52	25.35	18.40	14.87	96.40	CMS
Max	68.20	83.00	201.20	201.20	577.75	527.10	439.20	114.30	44.50	30.25	22.00	16.40	577.75	CMS
Min	9.78	26.50	28.00	46.00	171.25	207.95	108.70	45.25	29.50	20.60	15.70	14.42	9.78	CMS
Runoff	58.75	114.27	147.20	289.31	741.96	806.58	456.60	184.64	95.15	67.89	46.11	39.82	3048.28	MCM
Momentary Peak	891.40	CMS. at 180.86 m. (MSL.) at 19.00 Hours , on Aug 1 , 2011												
Runoff Yield	21.57	Liters/Second/Square KM.			Momentary Peak Yield			199.418	Liters/Second/Square KM.					

WATER YEAR : 2011
SALAWIN RIVER BASIN

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

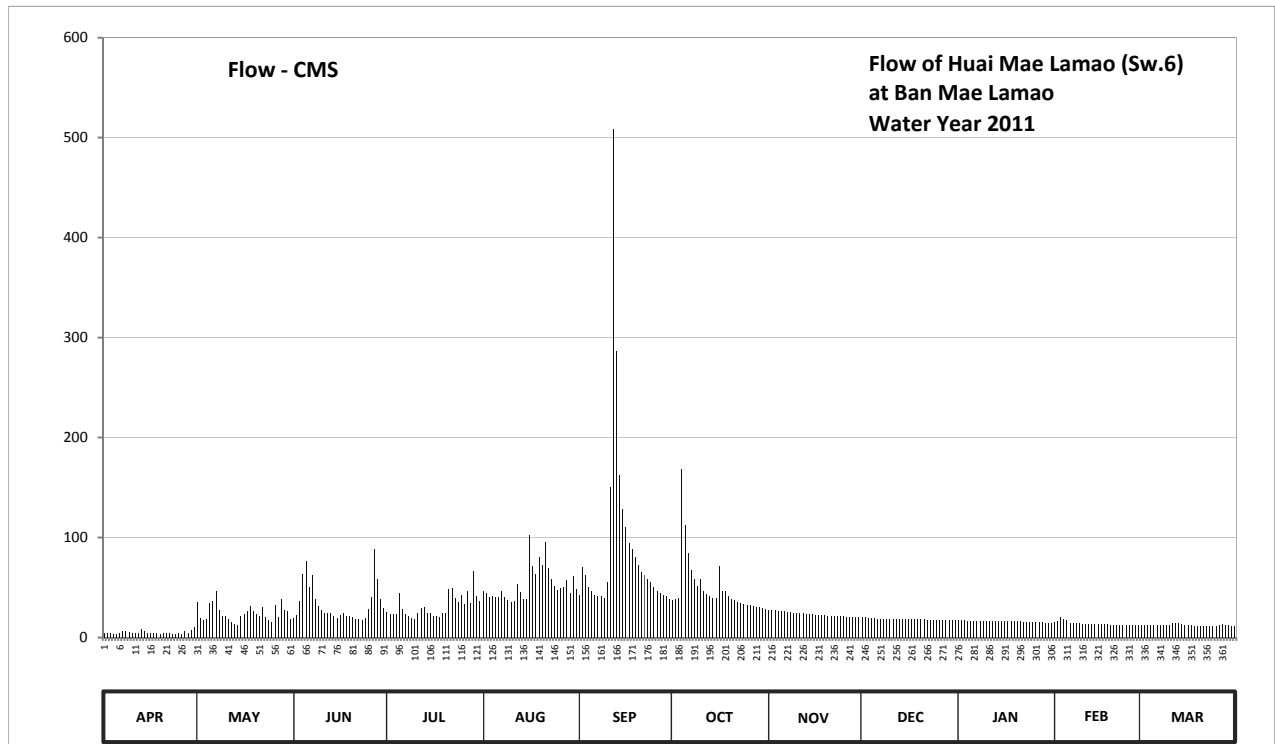
Lat 16 - 45 - 36 N Long 98 - 45 - 16 E

Location : on left bank downstream from the bridge on highway.

	Ban	Mae Lamao	Amphoe	Mae Sot	Changwat	Tak
Drainage Area	1,009	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+268.470	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	About 6.25 meters from the automatic gage building.				Elevation	+278.846 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1971 to date					
Rating Operation						
Period of Rating	1971 to date					
Rated by Flot	-					
Rated by Current Meter	1971 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +275.360 m. (MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.79	269.83	269.36	269.54	270.12	270.02	269.88	269.62	269.38	269.28	269.22	269.10	
2	268.77	269.34	269.45	269.49	270.06	270.68	269.91	269.61	269.37	269.27	269.23	269.10	
3	268.76	269.28	269.85	269.47	269.96	270.49	269.94	269.60	269.36	269.27	269.40	269.10	
4	268.75	269.33	270.53	269.47	269.98	270.20	272.32	269.59	269.35	269.26	269.32	269.10	
5	268.74	269.82	270.80	270.06	269.97	270.10	271.58	269.58	269.34	269.26	269.27	269.10	
6	268.79	269.85	270.22	269.63	269.95	270.02	271.00	269.57	269.33	269.26	269.19	269.10	
7	268.85	270.10	270.49	269.47	270.10	269.98	270.62	269.56	269.32	269.25	269.18	269.09	
8	268.84	269.60	269.92	269.41	269.97	269.98	270.40	269.54	269.31	269.25	269.17	269.09	
9	268.83	269.41	269.72	269.36	269.88	269.93	270.24	269.53	269.31	269.24	269.16	269.09	
10	268.78	269.41	269.60	269.33	269.83	270.33	270.40	269.52	269.31	269.24	269.15	269.09	
11	268.76	269.31	269.53	269.52	269.85	272.12	270.12	269.51	269.31	269.24	269.15	269.18	
12	268.76	269.21	269.50	269.68	270.29	274.83	270.04	269.50	269.31	269.24	269.15	269.16	
13	268.95	269.15	269.53	269.71	270.09	273.28	269.99	269.49	269.31	269.24	269.14	269.16	
14	268.84	269.11	269.43	269.50	269.91	272.26	269.94	269.48	269.31	269.24	269.14	269.14	
15	268.78	269.43	269.36	269.50	269.91	271.82	269.93	269.47	269.30	269.24	269.14	269.11	
16	268.80	269.47	269.44	269.43	271.38	271.54	270.69	269.45	269.30	269.24	269.14	269.11	
17	268.80	269.59	269.51	269.42	270.71	271.22	270.11	269.45	269.30	269.23	269.13	269.08	
18	268.77	269.73	269.42	269.38	270.52	271.07	270.11	269.45	269.30	269.23	269.13	269.07	
19	268.75	269.58	269.43	269.51	270.90	270.91	269.99	269.44	269.30	269.23	269.12	269.06	
20	268.78	269.49	269.38	269.52	270.73	270.72	269.92	269.43	269.30	269.23	269.12	269.05	
21	268.80	269.43	269.33	270.16	271.24	270.56	269.88	269.43	269.30	269.23	269.12	269.05	
22	268.76	269.71	269.33	270.18	270.66	270.50	269.84	269.42	269.29	269.22	269.12	269.04	
23	268.74	269.40	269.29	269.94	270.40	270.40	269.81	269.42	269.29	269.22	269.12	269.04	
24	268.74	269.28	269.34	269.83	270.24	270.33	269.78	269.41	269.29	269.21	269.12	269.04	
25	268.77	269.22	269.65	270.00	270.13	270.20	269.76	269.41	269.29	269.21	269.11	269.05	
26	268.75	269.77	269.97	269.78	270.18	270.11	269.74	269.40	269.29	269.21	269.11	269.08	
27	268.85	269.40	271.08	270.10	270.20	270.06	269.72	269.40	269.29	269.20	269.11	269.13	
28	268.80	269.92	270.42	269.81	270.38	270.02	269.69	269.40	269.29	269.20	269.11	269.12	
29	268.89	269.60	269.92	270.58	270.05	269.98	269.70	269.39	269.29	269.19	269.11	269.09	
30	269.00	269.58	269.67	269.99	270.48	269.92	269.67	269.39	269.28	269.19		269.07	
31		269.33		269.87	270.15		269.64		269.28	269.19		269.04	
Mean	268.80	269.51	269.75	269.70	270.27	270.79	270.14	269.48	269.31	269.23	269.16	269.09	
Max	269.00	270.10	271.08	270.58	271.38	274.83	272.32	269.62	269.38	269.28	269.40	269.18	274.83
Min	268.74	269.11	269.29	269.33	269.83	269.92	269.64	269.39	269.28	269.19	269.11	269.04	268.74
Annual Max Momentary Gage Height			275.47	m. (MSL.) ,		at 18.00 Hours , on Sep 12 , 2011							
Zero Gage at Bottom Elevation			268.47	m. (MSL.) ,		River Bed	267.76	m. (MSL)					
Left Bank Elevation			277.33	m. (MSL.) ,									
Right Bank Elevation			275.35	m. (MSL.) ,		Drainage Area	1009	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.80	35.20	19.80	25.20	46.80	42.80	37.20	27.70	20.40	17.40	15.60	12.50		
2	4.20	19.20	22.50	23.70	44.40	70.60	38.40	27.30	20.10	17.10	15.90	12.50		
3	4.00	17.40	36.00	23.10	40.40	62.00	39.60	27.00	19.80	17.10	21.00	12.50		
4	3.70	18.90	63.90	23.10	41.20	50.00	168.40	26.70	19.50	16.80	18.60	12.50		
5	3.50	34.80	76.00	44.40	40.80	46.00	112.90	26.40	19.20	16.80	17.10	12.50		
6	4.80	36.00	50.80	28.10	40.00	42.80	85.00	26.10	18.90	16.80	14.70	12.50		
7	6.20	46.00	62.00	23.10	46.00	41.20	67.90	25.80	18.60	16.50	14.50	12.20		
8	6.00	27.00	38.80	21.30	40.80	41.20	58.00	25.20	18.30	16.50	14.30	12.20		
9	5.70	21.30	31.20	19.80	37.20	39.20	51.60	24.90	18.30	16.20	14.00	12.20		
10	4.50	21.30	27.00	18.90	35.20	55.20	58.00	24.60	18.30	16.20	13.70	12.20		
11	4.00	18.30	24.90	24.60	36.00	150.60	46.80	24.30	18.30	16.20	13.70	14.50		
12	4.00	15.30	24.00	29.80	53.60	508.50	43.60	24.00	18.30	16.20	13.70	14.00		
13	8.80	13.70	24.90	30.80	45.60	286.40	41.60	23.70	18.30	16.20	13.50	14.00		
14	6.00	12.70	21.90	24.00	38.40	162.70	39.60	23.40	18.30	16.20	13.50	13.50		
15	4.50	21.90	19.80	24.00	38.40	128.40	39.20	23.10	18.00	16.20	13.50	12.70		
16	5.00	23.10	22.20	21.90	102.10	110.70	71.10	22.50	18.00	16.20	13.50	12.70		
17	5.00	26.70	24.30	21.60	71.90	94.90	46.40	22.50	18.00	15.90	13.20	12.00		
18	4.20	31.60	21.60	20.40	63.40	88.20	46.40	22.50	18.00	15.90	13.20	11.70		
19	3.70	26.40	21.90	24.30	80.50	81.00	41.60	22.20	18.00	15.90	13.00	11.50		
20	4.50	23.70	20.40	24.60	72.90	72.40	38.80	21.90	18.00	15.90	13.00	11.20		
21	5.00	21.90	18.90	48.40	95.80	65.20	37.20	21.90	18.00	15.90	13.00	11.20		
22	4.00	30.80	18.90	49.20	69.70	62.50	35.60	21.60	17.70	15.60	13.00	11.00		
23	3.50	21.00	17.70	39.60	58.00	58.00	34.40	21.60	17.70	15.60	13.00	11.00		
24	3.50	17.40	19.20	35.20	51.60	55.20	33.30	21.30	17.70	15.30	13.00	11.00		
25	4.20	15.60	28.70	42.00	47.20	50.00	32.60	21.30	17.70	15.30	12.70	11.20		
26	3.70	32.90	40.80	33.30	49.20	46.40	31.90	21.00	17.70	15.30	12.70	12.00		
27	6.20	21.00	88.60	46.00	50.00	44.40	31.20	21.00	17.70	15.00	12.70	13.20		
28	5.00	38.80	58.90	34.40	57.20	42.80	30.20	21.00	17.70	15.00	12.70	13.00		
29	7.30	27.00	38.80	66.10	44.00	41.20	30.50	20.70	17.70	14.70	12.70	12.20		
30	10.00	26.40	29.50	41.60	61.60	38.80	29.50	20.70	17.40	14.70		11.70		
31		18.90		36.80	48.00		28.40		17.40	14.70		11.00		
Total	149.50	762.20	1013.90	969.30	1647.90	2679.30	1526.90	703.90	567.00	495.30	408.70	380.10	11304.00	CMSDAY
Mean	5.00	24.60	33.80	31.30	53.20	89.30	49.30	23.50	18.30	16.00	14.10	12.30	30.90	CMS
Max	10.00	46.00	88.60	66.10	102.10	508.50	168.40	27.70	20.40	17.40	21.00	14.50	508.50	CMS
Min	3.50	12.70	17.70	18.90	35.20	38.80	28.40	20.70	17.40	14.70	12.70	11.00	3.50	CMS
Runoff	12.92	65.85	87.60	83.75	142.38	231.49	131.92	60.82	48.99	42.79	35.31	32.84	976.67	MCM
Momentary Peak	604.50		CMS. at 275.47 m. (MSL.) at 18.00 Hours , on Sep 12 , 2011											
Runoff Yield	30.61	Liters/Second/Square KM.			Momentary Peak Yield		599.108	Liters/Second/Square KM.						

WATER YEAR : 2011

KHONG RIVER BASIN

Huai Mong at Ban Na Ang , Udon Thani (Kh.18)

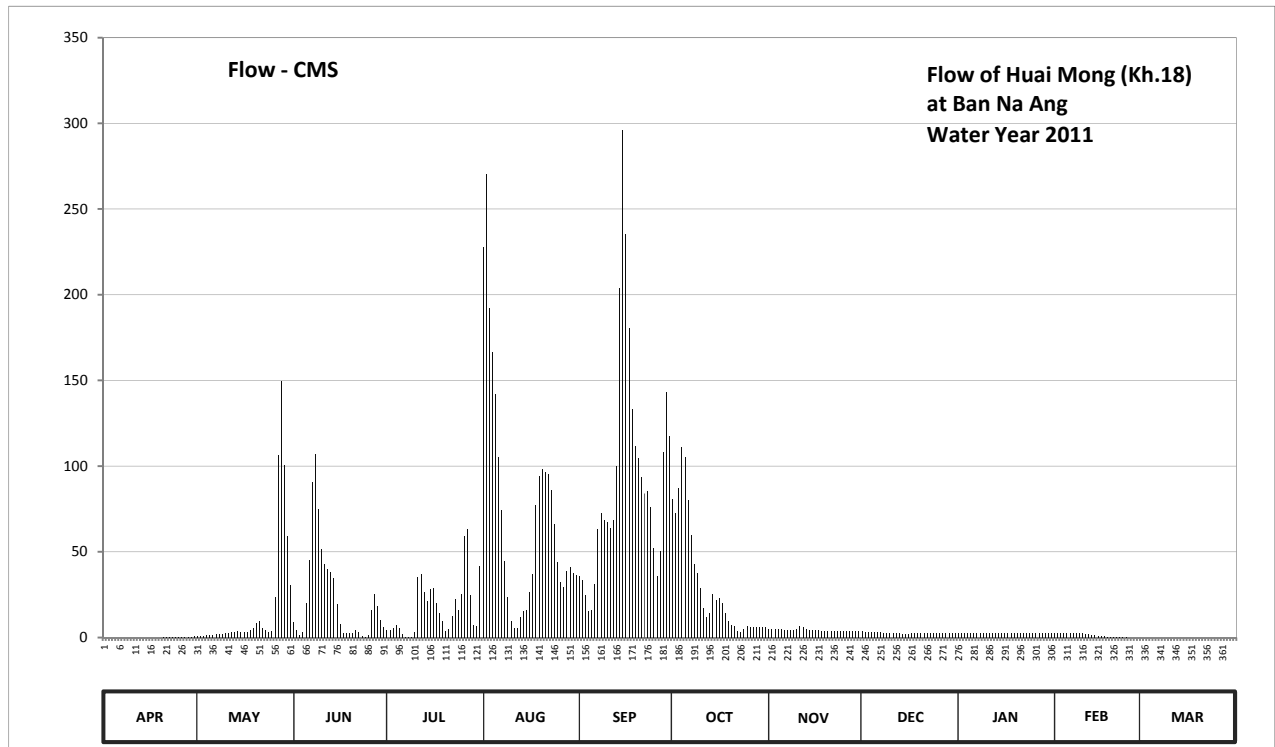
Lat 17 - 34 - 41 N Long 102 - 20 - 22 E

Location : on right bank between Phu Pha Dang and Phu Phan about 2 kilometers from Ban Na Ang.

	Ban	Na Ang	Amphoe	Ban Phu	Changwat	Udon Thani
Drainage Area	1,309	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+183.430	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the automatic gage building.				Elevation	+191.432 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1957 to date					
Rating Operation						
Period of Rating	1957 - 1959 , 1965 - 1966 , 1974 - 1980 , 1997 to date					
Rated by Flot	-					
Rated by Current Meter	1957 - 1959 , 1965 - 1966 , 1974 - 1980 , 1997 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +190.110 m.(MSL.) , records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	184.61	185.85	187.10	186.54	191.79	188.87	190.37	186.66	186.45	186.33	186.32	184.88	
2	184.61	185.91	186.54	186.55	191.93	188.74	190.17	186.66	186.44	186.33	186.32	184.82	
3	184.63	185.98	186.04	186.71	191.63	188.22	190.52	186.66	186.41	186.31	186.31	184.78	
4	184.61	186.04	186.38	186.89	191.49	187.62	190.95	186.64	186.40	186.30	186.31	184.74	
5	184.60	186.09	187.94	186.73	191.31	187.65	190.84	186.62	186.39	186.28	186.32	184.70	
6	184.61	186.12	189.29	186.15	190.84	188.61	190.35	186.59	186.38	186.28	186.32	184.70	
7	184.63	186.14	190.58	185.68	190.21	189.91	189.80	186.58	186.37	186.28	186.31	184.70	
8	184.66	186.17	190.87	185.41	189.27	190.17	189.21	186.56	186.34	186.27	186.29	184.61	
9	184.68	186.21	190.22	185.25	188.18	190.07	188.97	186.57	186.31	186.27	186.27	184.51	
10	184.71	186.25	189.56	186.43	187.16	190.03	188.49	186.66	186.29	186.28	186.24	184.38	
11	184.75	186.30	189.20	188.85	186.70	189.93	187.72	186.84	186.28	186.29	186.20	184.18	
12	184.80	186.36	189.08	188.93	186.70	190.06	187.31	186.78	186.26	186.28	186.16	184.00	
13	184.86	186.43	189.02	188.34	187.33	190.75	187.54	186.63	186.23	186.29	186.11	183.85	
14	184.91	186.49	188.82	188.01	187.60	191.69	188.28	186.57	186.21	186.30	186.06	183.81	
15	184.97	186.38	187.90	188.46	187.64	191.99	188.04	186.57	186.20	186.29	185.93	183.88	
16	185.02	186.37	186.98	188.49	188.35	191.82	188.11	186.54	186.22	186.28	185.92	183.95	
17	185.07	186.44	186.30	187.92	188.94	191.57	187.93	186.53	186.25	186.28	185.91	184.00	
18	185.12	186.55	186.30	187.53	190.28	191.22	187.52	186.51	186.28	186.28	185.76	184.06	
19	185.18	186.72	186.31	187.12	190.64	190.96	187.11	186.49	186.29	186.28	185.68	184.13	
20	185.25	187.04	186.32	186.52	190.72	190.83	186.91	186.48	186.30	186.28	185.61	184.23	
21	185.31	187.14	186.53	186.62	190.69	190.63	186.84	186.48	186.30	186.29	185.51	184.48	
22	185.35	186.72	186.36	187.36	190.67	190.45	186.52	186.48	186.30	186.31	185.41	184.87	
23	185.39	186.56	186.00	188.08	190.50	190.48	186.40	186.48	186.30	186.30	185.30	184.92	
24	185.46	186.39	185.71	187.64	190.01	190.26	186.63	186.47	186.30	186.29	185.24	184.89	
25	185.52	186.49	186.11	188.28	189.25	189.57	186.82	186.48	186.30	186.28	185.20	184.83	
26	185.57	188.16	187.66	189.79	188.67	188.88	186.75	186.47	186.30	186.28	185.15	184.76	
27	185.62	190.86	188.28	189.92	188.53	189.52	186.75	186.47	186.30	186.30	185.07	184.73	
28	185.67	191.37	187.81	188									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.70	9.20	4.14	227.60	35.66	80.80	5.14	3.52	2.85	2.79	0.00	
2	0.00	0.82	4.14	4.22	270.60	33.32	72.80	5.14	3.46	2.85	2.79	0.00	
3	0.00	0.96	1.22	5.56	192.00	24.52	87.12	5.14	3.30	2.74	2.74	0.00	
4	0.00	1.22	3.13	7.08	166.50	15.68	111.20	4.98	3.24	2.68	2.74	0.00	
5	0.00	1.50	20.16	5.73	142.20	16.10	105.04	4.81	3.18	2.57	2.79	0.00	
6	0.00	1.67	44.96	1.84	105.04	30.98	80.00	4.56	3.13	2.57	2.79	0.00	
7	0.00	1.78	90.48	0.48	74.40	63.12	59.60	4.47	3.07	2.57	2.74	0.00	
8	0.00	1.95	106.72	0.21	44.48	72.80	43.04	4.30	2.90	2.51	2.62	0.00	
9	0.00	2.18	74.80	0.05	23.88	68.80	37.46	4.39	2.74	2.51	2.51	0.00	
10	0.00	2.40	51.92	3.41	9.92	67.20	28.84	5.14	2.62	2.57	2.34	0.00	
11	0.00	2.68	42.80	35.30	5.48	63.76	17.08	6.66	2.57	2.62	2.12	0.00	
12	0.00	3.02	39.92	36.74	5.48	68.40	11.72	6.15	2.46	2.57	1.90	0.00	
13	0.00	3.41	38.48	26.44	11.96	100.00	14.56	4.89	2.29	2.62	1.62	0.00	
14	0.00	3.74	34.76	21.16	15.40	204.00	25.48	4.39	2.18	2.68	1.34	0.00	
15	0.00	3.13	19.60	28.36	15.96	295.80	21.64	4.39	2.12	2.62	0.86	0.00	
16	0.00	3.07	7.83	28.84	26.60	235.60	22.76	4.14	2.23	2.57	0.84	0.00	
17	0.00	3.46	2.68	19.88	36.92	180.60	20.02	4.05	2.40	2.57	0.82	0.00	
18	0.00	4.22	2.68	14.42	77.20	133.00	14.28	3.88	2.57	2.57	0.56	0.00	
19	0.00	5.65	2.74	9.44	93.84	111.76	9.32	3.74	2.62	2.57	0.48	0.00	
20	0.05	8.48	2.79	3.97	98.32	104.48	7.24	3.69	2.68	2.57	0.41	0.00	
21	0.11	9.68	4.05	4.81	96.64	93.28	6.66	3.69	2.68	2.62	0.31	0.00	
22	0.15	5.65	3.02	12.32	95.52	84.00	3.97	3.69	2.68	2.74	0.21	0.00	
23	0.19	4.30	1.00	22.28	86.00	85.20	3.24	3.69	2.68	2.68	0.10	0.00	
24	0.26	3.18	0.51	15.96	66.40	76.40	4.89	3.63	2.68	2.62	0.04	0.00	
25	0.32	3.74	1.62	25.48	44.00	52.24	6.49	3.69	2.68	2.57	0.00	0.00	
26	0.37	23.56	16.24	59.28	32.06	35.84	5.90	3.63	2.68	2.57	0.00	0.00	
27	0.42	106.16	25.48	63.44	29.54	50.64	5.90	3.63	2.68	2.68	0.00	0.00	
28	0.47	149.40	18.34	24.68	38.96	108.40	5.90	3.58	2.62	2.74	0.00	0.00	
29	0.53	100.56	10.28	7.08	40.88	143.40	6.07	3.58	2.68	2.79	0.00	0.00	
30	0.59	59.28	6.07	6.49	37.46	117.20	5.98	3.58	2.74	2.85		0.00	
31		30.44		41.84	36.56		5.82		2.79	2.79		0.00	
Total	3.46	551.99	687.62	540.93	2247.80	2772.18	930.82	130.44	84.87	82.03	38.46	0.00	8070.60 CMSDAY
Mean	0.12	17.81	22.92	17.45	72.51	92.41	30.03	4.35	2.74	2.65	1.33	0.00	22.05 CMS
Max	0.59	149.40	106.72	63.44	270.60	295.80	111.20	6.66	3.52	2.85	2.79	0.00	295.80 CMS
Min	0.00	0.70	0.51	0.05	5.48	15.68	3.24	3.58	2.12	2.51	0.00	0.00	0.00 CMS
Runoff	0.30	47.69	59.41	46.74	194.21	239.52	80.42	11.27	7.33	7.09	3.32	0.00	697.30 MCM
Momentary Peak 312.90 CMS. at 192.03 m. (MSL.) at 18.00 Hours , on Aug 1 , 2011													
Runoff Yield		16.85	Liters/Second/Square KM.		Momentary Peak Yield		239.037	Liters/Second/Square KM.					

WATER YEAR : 2011**KHONG RIVER BASIN**

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

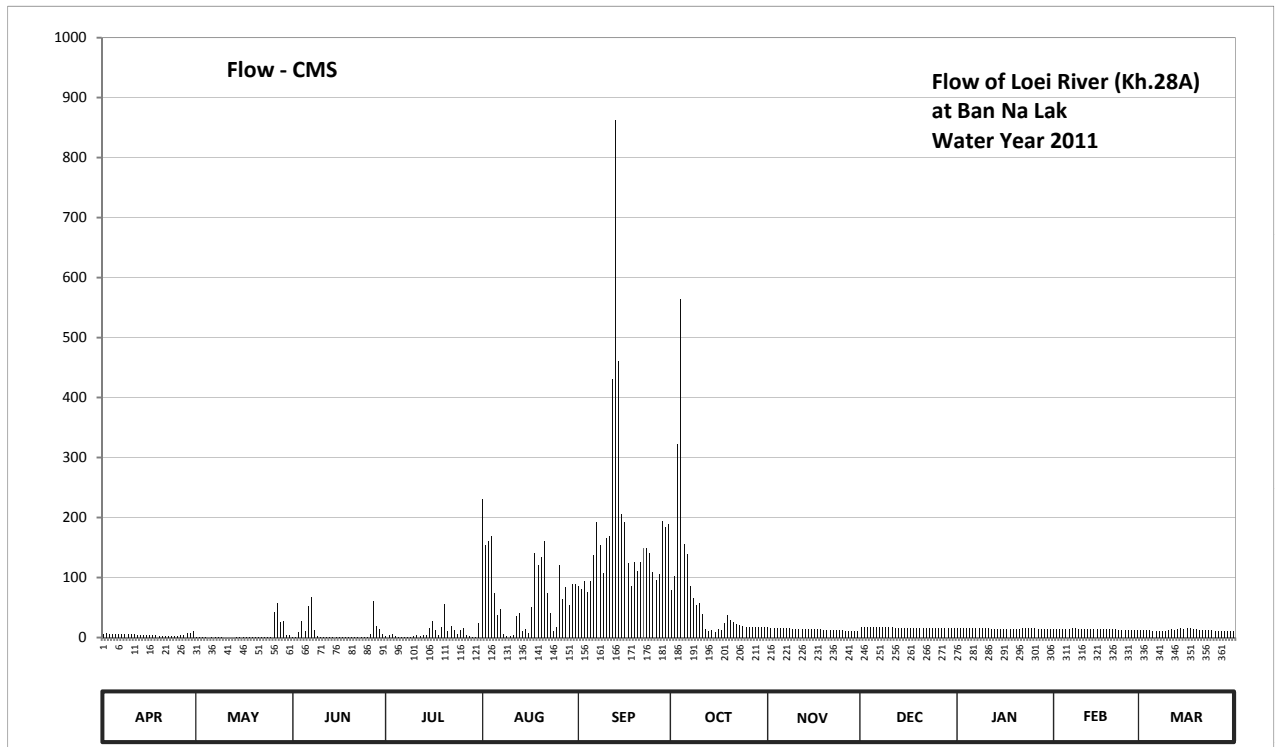
Lat 17 - 18 - 32 N Long 101 - 46 - 25 E

Location : on right bank at the bridge of Wang Saphung - Loei Highway.

	Ban	Na Lak	Amphoe	Wang Saphung	Changwat	Loei
Drainage Area	1,271	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+239.620	m. (MSL.)				
Bench Mark	B.M.- Highways Dept.					
Location BM	On right bank upstream at the footpath of the bridge.				Elevation	+252.730 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1994 to date					
Rating Operation						
Period of Rating	1994 to date					
Rated by Flot	-					
Rated by Current Meter	1994 to date					
Stability of Channel Regimes	Rather unstable because of backwater effect.					
Overbank Flow Conditions	Overbank flow starts at elevation +245.500 m.(MSL.), records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.82	239.96	240.31	240.44	244.57	242.16	242.02	240.28	240.28	240.24	240.16	240.09	
2	239.83	240.02	240.29	240.52	243.54	242.06	242.54	240.27	240.28	240.24	240.16	240.09	
3	239.80	239.97	240.80	240.66	243.62	242.36	245.46	240.26	240.28	240.24	240.17	240.08	
4	239.80	239.79	241.10	240.43	243.75	241.93	247.11	240.25	240.28	240.23	240.18	240.07	
5	239.78	239.73	240.85	240.33	241.91	242.38	243.56	240.24	240.28	240.23	240.19	240.06	
6	239.78	239.82	241.33	240.25	241.15	243.24	243.28	240.23	240.28	240.22	240.20	240.05	
7	239.78	239.92	241.74	240.14	241.21	244.09	242.19	240.22	240.28	240.22	240.21	240.04	
8	239.81	239.85	240.87	240.09	240.64	243.53	241.69	240.21	240.28	240.22	240.21	240.04	
9	239.79	239.85	240.48	240.18	240.51	242.65	241.38	240.20	240.28	240.21	240.20	240.05	
10	239.79	239.74	240.32	240.50	240.45	243.71	241.47	240.19	240.28	240.21	240.20	240.09	
11	239.77	239.69	240.25	240.58	240.52	243.75	241.16	240.18	240.28	240.21	240.18	240.14	
12	239.74	239.65	240.11	240.46	241.14	246.28	240.93	240.17	240.27	240.20	240.18	240.13	
13	239.73	239.72	240.04	240.53	241.17	248.61	240.84	240.16	240.27	240.20	240.18	240.17	
14	239.72	239.93	240.02	240.62	240.86	246.49	240.88	240.16	240.27	240.19	240.17	240.22	
15	239.72	239.87	240.00	240.94	240.92	244.26	240.78	240.15	240.27	240.18	240.17	240.20	
16	239.71	239.83	240.10	241.10	240.74	244.10	240.91	240.15	240.27	240.17	240.17	240.22	
17	239.70	239.82	240.32	240.88	241.30	242.99	240.90	240.14	240.27	240.16	240.16	240.24	
18	239.69	239.81	240.20	240.59	243.31	242.16	241.07	240.14	240.27	240.16	240.16	240.19	
19	239.65	239.92	240.17	240.98	242.94	243.03	240.92	240.12	240.27	240.16	240.15	240.15	
20	239.64	240.18	240.13	241.46	243.19	242.74	240.70	240.11	240.27	240.15	240.15	240.13	
21	239.64	240.27	240.13	240.84	243.63	243.03	240.59	240.10	240.27	240.18	240.14	240.11	
22	239.64	240.06	240.15	241.00	241.91	243.45	240.50	240.09	240.26	240.22	240.13	240.09	
23	239.64	239.91	240.02	240.90	241.17	243.45	240.44	240.08	240.26	240.22	240.13	240.09	
24	239.63	239.90	239.98	240.70	240.84	243.30	240.37	240.07	240.26	240.22	240.12	240.08	
25	239.64	240.28	240.05	240.89	240.98	242.70	240.34	240.07	240.26	240.23	240.12	240.06	
26	239.73	241.18	240.71	240.94	242.94	242.42	240.31	240.06	240.26	240.21	240.11	240.05	
27	239.73	241.48	241.56	240.62	241.67	242.63	240.30	240.06	240.26	240.17	240.11	240.05	
28	239.85	241.08	241.00	240									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.40	0.16	0.60	2.10	230.72	85.04	78.88	16.72	16.72	15.76	13.84	12.16		
2	6.60	0.22	0.49	3.30	154.64	80.64	101.92	16.48	16.72	15.76	13.84	12.16		
3	6.00	0.17	9.00	5.40	159.92	93.84	321.68	16.24	16.72	15.76	14.08	11.92		
4	6.00	0.07	27.00	1.95	168.50	75.20	563.80	16.00	16.72	15.52	14.32	11.68		
5	5.60	0.05	11.00	0.80	74.40	94.72	155.96	15.76	16.72	15.52	14.56	11.44		
6	5.60	0.08	51.88	0.45	37.10	137.44	139.68	15.52	16.72	15.28	14.80	11.20		
7	5.60	0.12	67.60	0.34	47.56	192.02	86.36	15.28	16.72	15.28	15.04	10.96		
8	6.20	0.09	11.80	0.29	5.10	153.98	65.60	15.04	16.72	15.28	15.04	10.96		
9	5.80	0.09	2.70	0.38	3.15	107.20	53.68	14.80	16.72	15.04	14.80	11.20		
10	5.80	0.05	0.70	3.00	2.25	165.86	56.92	14.56	16.72	15.04	14.80	12.16		
11	5.40	0.04	0.45	4.20	3.30	168.50	39.12	14.32	16.72	15.04	14.32	13.36		
12	4.80	0.03	0.31	2.40	35.08	430.32	14.80	14.08	16.48	14.80	14.32	13.12		
13	4.60	0.05	0.24	3.45	41.14	862.88	10.60	13.84	16.48	14.80	14.32	14.08		
14	4.40	0.13	0.22	4.80	11.40	460.56	12.20	13.84	16.48	14.56	14.08	15.28		
15	4.40	0.09	0.20	15.40	14.20	205.28	8.40	13.60	16.48	14.32	14.08	14.80		
16	4.20	0.08	0.30	27.00	7.20	192.80	13.60	13.60	16.48	14.08	14.08	15.28		
17	4.00	0.08	0.70	12.20	50.80	123.52	13.00	13.36	16.48	13.84	13.84	15.76		
18	3.80	0.07	0.40	4.35	141.36	85.04	24.60	13.36	16.48	13.84	13.84	14.56		
19	3.00	0.12	0.37	17.80	121.12	125.68	37.12	12.88	16.48	13.84	13.60	13.60		
20	2.80	0.38	0.33	56.56	134.64	111.52	29.20	12.64	16.48	13.60	13.60	13.12		
21	2.80	0.47	0.33	10.60	160.58	125.68	25.24	12.40	16.48	14.32	13.36	12.64		
22	2.80	0.26	0.35	19.00	74.40	149.20	22.00	12.16	16.24	15.28	13.12	12.16		
23	2.80	0.11	0.22	13.00	41.14	149.20	20.56	11.92	16.24	15.28	13.12	12.16		
24	2.60	0.10	0.18	6.00	10.60	140.80	18.88	11.68	16.24	15.28	12.88	11.92		
25	2.80	0.48	0.25	12.60	17.80	109.60	18.16	11.68	16.24	15.52	12.88	11.44		
26	4.60	43.16	6.30	15.40	121.12	96.48	17.44	11.44	16.24	15.04	12.64	11.20		
27	4.60	57.28	60.40	4.80	64.80	106.24	17.20	11.44	16.24	14.08	12.64	11.20		
28	7.00	25.40	19.00	2.25	84.60	193.58	16.96	11.20	16.24	14.08	12.40	10.96		
29	6.80	27.00	14.20	0.90	53.68	184.34	16.96	11.20	16.00	13.84	12.40	10.72		
30	10.96	3.90	6.00	0.46	88.56	188.90	16.72	10.96	16.00	13.84		10.48		
31		4.05		24.60	89.88		16.72		16.00	13.60		10.48		
Total	148.76	164.38	293.52	275.78	2250.74	5396.06	2033.96	408.00	510.40	457.12	400.64	384.16	12723.52	CMSDAY
Mean	4.96	5.30	9.78	8.90	72.60	179.87	65.61	13.60	16.46	14.75	13.82	12.39	34.76	CMS
Max	10.96	57.28	67.60	56.56	230.72	862.88	563.80	16.72	16.72	15.76	15.04	15.76	862.88	CMS
Min	2.60	0.03	0.18	0.29	2.25	75.20	8.40	10.96	16.00	13.60	12.40	10.48	0.03	CMS
Runoff	12.85	14.20	25.36	23.83	194.46	466.22	175.73	35.25	44.10	39.50	34.62	33.19	1099.31	MCM
Momentary Peak	CMS. at 248.86 m. (MSL.) at 11.00 Hours , on Sep 13 , 2011													
Runoff Yield	27.35	Liters/Second/Square KM.			Momentary Peak Yield		719.811	Liters/Second/Square KM.						

WATER YEAR : 2011

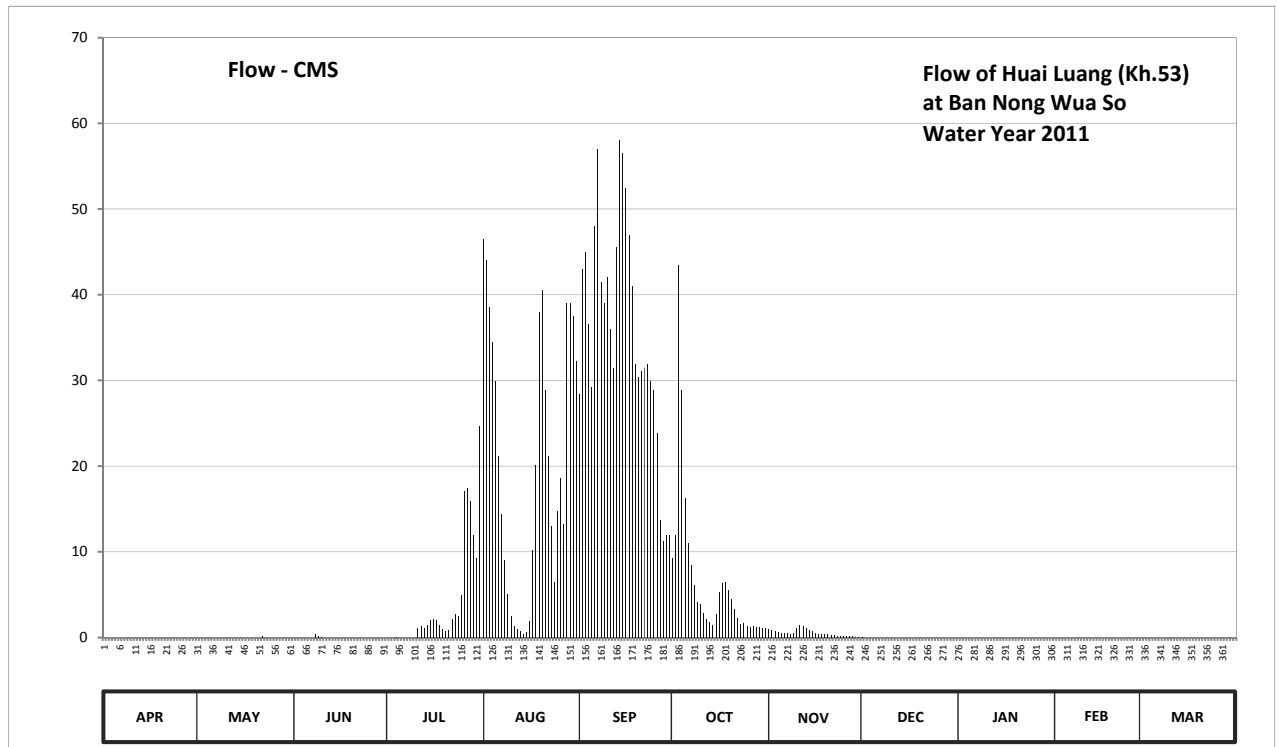
KHONG RIVER BASIN

Huai Luang at Ban Nong Wua So , Udon Thani (Kh.53)

Lat 17 - 15 - 51 N Long 102 - 35 - 47 E

Location : on right bank at the bridge of Udon Thani - Nong Bua Lamphu Highway at guidepost 26.5

	Ban	Nong Wuao So	Amphoe	Nong Wuao So	Changwat	Udon Thani							
Drainge Area	421	sq.km.											
Type of Gage	Water - stage recorder.												
Zero Gage at Bottom	+201.314	m. (MSL.)											
Bench Mark	B.M.- H.D.												
Location BM	On right bank downstream side at the footpath of the bridge.				Elevation	+206.018 m. (MSL.)							
Gage Reading Frequency	Recording												
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings												
Period of Available Gage Records	1970 to date												
Rating Operation													
Period of Rating	1975 - 1986 , 1997 to date												
Rated by Flot	-												
Rated by Current Meter	1975 - 1986 , 1997 to date												
Stability of Channel Regimes	Stable												
Overbank Flow Conditions	Overbank flow starts at elevation +206.010 m.(MSL.), records are channel flow only.												
General Description	Records good. Flow regulated by Huai Luang barrage.												
	Stage-discharge relation defined by 18 discharge measurements made in 2011.												
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	203.60	203.55	204.08	204.08	205.77	205.38	204.81	204.30	204.11	204.05	203.87	203.68	
2	203.60	203.58	204.08	204.09	205.72	205.70	204.92	204.28	204.10	204.05	203.87	203.68	
3	203.60	203.58	204.07	204.10	205.61	205.74	205.71	204.26	204.10	204.05	203.87	203.68	
4	203.60	203.58	204.07	204.11	205.53	205.57	205.39	204.23	204.10	204.05	203.87	203.67	
5	203.60	203.58	204.07	204.09	205.42	205.40	205.06	204.21	204.10	204.06	203.87	203.67	
6	203.60	203.58	204.07	204.09	205.19	205.80	204.88	204.20	204.10	204.06	203.86	203.66	
7	203.60	203.58	204.09	204.07	205.01	205.98	204.78	204.20	204.10	204.05	203.86	203.64	
8	203.60	203.58	204.17	204.06	204.80	205.67	204.68	204.19	204.10	204.05	203.85	203.61	
9	203.60	203.58	204.14	204.06	204.63	205.62	204.58	204.20	204.09	204.03	203.83	203.61	
10	203.60	203.58	204.12	204.08	204.50	205.68	204.57	204.32	204.09	204.03	203.83	203.61	
11	203.59	203.57	204.10	204.33	204.37	205.56	204.52	204.39	204.09	204.02	203.83	203.62	
12	203.59	203.57	204.09	204.36	204.30	205.46	204.47	204.36	204.09	204.00	203.83	203.62	
13	203.57	203.56	204.09	204.33	204.24	205.75	204.43	204.32	204.08	203.99	203.83	203.63	
14	203.56	203.57	204.10	204.40	204.19	206.00	204.40	204.28	204.07	203.98	203.82	203.64	
15	203.56	203.58	204.09	204.45	204.23	205.97	204.51	204.24	204.07	203.98	203.82	203.64	
16	203.55	203.58	204.08	204.47	204.44	205.89	204.64	204.21	204.07	203.98	203.80	203.64	
17	203.55	203.58	204.08	204.45	204.85	205.78	204.69	204.18	204.07	203.97	203.78	203.62	
18	203.53	203.61	204.07	204.39	205.16	205.66	204.70	204.18	204.07	203.97	203.76	203.62	
19	203.52	203.76	204.07	204.31	205.60	205.47	204.65	204.18	204.07	203.97	203.76	203.62	
20	203.51	203.98	204.07	204.26	205.65	205.43	204.60	204.17	204.07	203.95	203.75	203.62	
21	203.51	204.09	204.08	204.27	205.39	205.45	204.54	204.16	204.06	203.95	203.75	203.61	
22	203.50	204.13	204.07	204.46	205.19	205.46	204.48	204.15	204.06	203.94	203.75	203.60	
23	203.50	204.10	204.07	204.51	204.96	205.47	204.41	204.14	204.06	203.93	203.74	203.59	
24	203.49	204.10	204.07	204.50	204.70	205.42	204.42	204.13	204.06	203.93	203.73	203.58	
25	203.48	204.10	204.07	204.62	205.02	205.39	204.37	204.13	204.06	203.93	203.71	203.57	
26	203.48	204.10	204.09	205.08	205.12	205.26	204.34	204.13	204.06	203.92	203.70	203.56	
27	203.47	204.09	204.10	205.09	204.97	204.99	204.36	204.13	204.06	203.91	203.68	203.54	
28	203.46	204.09	204.09	205.05	205.62	204.89	204.35	204.13	204.05	203.90	203.68	203.54	
29	203.48	204.09	204.09	204.92	205.62	204.92	204.34	204.12	204.05	203.89	203.68	203.53	
30	203.50	204.08	204.09	204.81	205.59	204.92	204.33	204.11	204.05	203.89		203.52	
31		204.08		205.28	205.48		204.32		204.05	203.88		203.51	
Mean	203.55	203.78	204.09	204.42	205.06	205.52	204.62	204.21	204.08	203.98	203.79	203.61	
Max	203.60	204.13	204.17	205.28	205.77	206.00	205.71	204.39	204.11	204.06	203.87	203.68	206.00
Min	203.46	203.55	204.07	204.06	204.19	204.89	204.32	204.11	204.05	203.88	203.68	203.51	203.46
Annual Max Momentary Gage Height	206.09		m. (MSL.) ,		at 03.00 Hours , on Sep 7 , 2011								
Zero Gage at Bottom Elevation	201.31		m. (MSL.) ,		River Bed	203.35	m. (MSL)						
Left Bank Elevation	206.00		m. (MSL.) ,										
Right Bank Elevation	206.45		m. (MSL.) ,		Drainage Area	421	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	46.50	28.44	9.25	1.00	0.05	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	44.00	43.00	12.00	0.90	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	38.50	45.00	43.50	0.80	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.05	34.50	36.50	28.82	0.65	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	29.96	29.20	16.28	0.55	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	21.22	48.00	11.00	0.50	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	14.38	57.00	8.50	0.50	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.35	0.00	9.00	41.50	6.10	0.45	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.20	0.00	5.10	39.00	4.10	0.50	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.10	0.00	2.50	42.00	3.90	1.10	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	1.15	1.35	36.00	2.90	1.45	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	1.30	1.00	31.48	2.20	1.30	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	1.15	0.70	45.50	1.80	1.10	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	1.50	0.45	58.00	1.50	0.90	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	2.00	0.65	56.50	2.70	0.70	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	2.20	1.90	52.50	5.30	0.55	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	2.00	10.25	47.00	6.30	0.40	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	1.45	20.08	41.00	6.50	0.40	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	1.05	38.00	31.86	5.50	0.40	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.80	40.50	30.34	4.50	0.35	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.85	28.82	31.10	3.30	0.30	0.00	0.00	0.00	0.00	
22	0.00	0.15	0.00	2.10	21.22	31.48	2.30	0.25	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	2.70	13.00	31.86	1.60	0.20	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	2.50	6.50	29.96	1.70	0.15	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	4.90	14.76	28.82	1.35	0.15	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	17.04	18.56	23.88	1.20	0.15	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	17.42	13.25	13.75	1.30	0.15	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	15.90	39.00	11.25	1.25	0.15	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	12.00	39.00	12.00	1.20	0.10	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	9.25	37.50	12.00	1.15	0.05	0.00	0.00		0.00	
31		0.00		24.64	32.24		1.10		0.00	0.00		0.00	
Total	0.00	0.15	0.65	123.95	624.39	1065.92	200.10	16.15	0.05	0.00	0.00	0.00	2031.36
Mean	0.00	0.00	0.02	4.00	20.14	35.53	6.45	0.54	0.00	0.00	0.00	0.00	5.55
Max	0.00	0.15	0.35	24.64	46.50	58.00	43.50	1.45	0.05	0.00	0.00	0.00	58.00
Min	0.00	0.00	0.00	0.00	0.45	11.25	1.10	0.05	0.00	0.00	0.00	0.00	0.00
Runoff	0.00	0.01	0.06	10.71	53.95	92.10	17.29	1.40	0.00	0.00	0.00	0.00	175.51
Momentary Peak	63.76	CMS. at 206.09 m. (MSL.) at 03.00 Hours , on Sep 7 , 2011											
Runoff Yield	13.18	Liters/Second/Square KM.			Momentary Peak Yield		151.449	Liters/Second/Square KM.					

WATER YEAR : 2011

KHONG RIVER BASIN

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

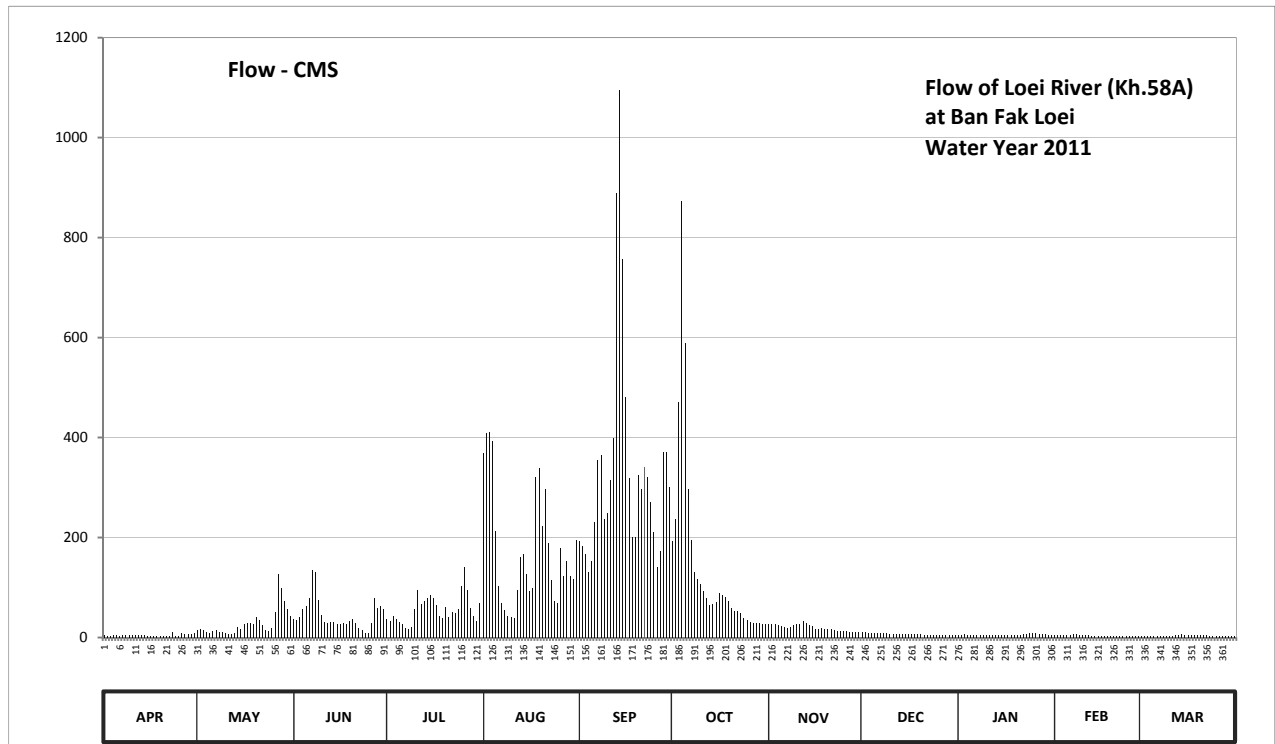
Lat 17 - 29 - 36 N Long 101 - 44 - 17 E

Location : on left bank at the bridge on road.

	Ban	Fak Loei	Amphoe	Mueang	Changwat	Loei
Drainage Area	3,093	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+229.000	m. (MSL.)				
Bench Mark	B.M.- H.D.					
Location BM	On left bank upstream side at the abutment of the bridge.				Elevation	+240.440 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1979 to date					
Rating Operation						
Period of Rating	1990 to date					
Rated by Flot	-					
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 42 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.20	230.65	231.19	231.22	235.93	233.84	233.81	230.93	230.53	230.26	230.25	230.15	
2	230.19	230.71	231.16	231.08	236.33	233.69	234.40	230.94	230.52	230.29	230.24	230.16	
3	230.19	230.63	231.28	231.33	236.35	233.45	236.91	230.93	230.49	230.30	230.24	230.16	
4	230.22	230.51	231.64	231.18	236.17	232.91	239.08	230.92	230.47	230.29	230.25	230.14	
5	230.23	230.46	231.76	231.06	234.11	233.23	237.74	230.85	230.45	230.29	230.26	230.15	
6	230.19	230.57	232.06	230.94	232.47	234.33	235.13	230.82	230.44	230.28	230.29	230.16	
7	230.20	230.65	232.99	230.77	231.89	235.79	233.85	230.77	230.41	230.28	230.31	230.16	
8	230.22	230.52	232.92	230.71	231.60	235.89	232.91	230.80	230.39	230.28	230.30	230.15	
9	230.27	230.52	231.99	230.81	231.33	234.40	232.68	230.91	230.39	230.27	230.29	230.15	
10	230.25	230.40	231.40	231.63	231.27	234.56	232.53	230.95	230.37	230.27	230.28	230.15	
11	230.23	230.33	231.04	232.33	231.24	235.34	232.30	230.97	230.34	230.27	230.25	230.18	
12	230.21	230.33	231.01	231.83	232.34	236.24	232.05	231.07	230.32	230.26	230.22	230.24	
13	230.21	230.42	231.03	231.94	233.35	239.13	231.80	231.01	230.32	230.26	230.19	230.29	
14	230.20	230.78	231.03	232.05	233.46	239.81	231.83	230.90	230.32	230.25	230.16	230.30	
15	230.18	230.70	230.95	232.17	232.86	238.60	231.91	230.83	230.31	230.25	230.17	230.28	
16	230.16	230.96	230.93	232.05	232.28	237.01	232.22	230.70	230.31	230.24	230.18	230.26	
17	230.16	230.99	230.98	231.80	232.39	235.38	232.17	230.72	230.31	230.23	230.18	230.24	
18	230.16	230.98	230.94	231.34	235.41	233.95	232.09	230.74	230.30	230.23	230.17	230.24	
19	230.17	230.94	231.10	231.26	235.61	233.95	231.97	230.69	230.30	230.22	230.17	230.25	
20	230.14	231.28	231.21	231.72	234.23	235.45	231.67	230.68	230.30	230.23	230.16	230.26	
21	230.11	231.15	231.00	231.30	235.14	235.13	231.56	230.67	230.29	230.28	230.16	230.24	
22	230.17	230.91	230.77	231.52	233.76	235.63	231.55	230.63	230.29	230.32	230.16	230.21	
23	230.52	230.66	230.63	231.50	232.66	235.40	231.48	230.61	230.28	230.36	230.15	230.19	
24	230.12	230.62	230.49	231.66	231.98	234.83	231.25	230.59	230.28	230.41	230.15	230.18	
25	230.16	230.74	230.42	232.47	231.88	234.07	231.14	230.58	230.27	230.41	230.15	230.16	
26	230.48	231.52	231.02	233.06	233.61	233.08	231.06	230.57	230.27	230.39	230.14	230.16	
27	230.32	232.86	232.05	232.33	232.78	233.53	231.02	230.55	230.26	230.36	230.14	230.15	
28	230.30	232.39	231.68	231									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.00	15.00	36.60	37.80	367.80	194.00	191.90	26.20	10.90	5.20	5.00	3.00	
2	3.80	17.40	35.40	32.20	409.00	183.60	237.00	26.60	10.60	5.80	4.80	3.20	
3	3.80	14.20	40.20	42.20	411.10	167.00	470.50	26.20	9.80	6.00	4.80	3.20	
4	4.40	10.30	57.00	36.20	392.00	130.50	874.00	25.80	9.40	5.80	5.00	2.80	
5	4.60	9.20	63.00	31.40	213.80	151.90	589.80	23.00	9.00	5.80	5.20	3.00	
6	3.80	12.10	78.70	26.60	103.70	231.40	296.60	21.80	8.80	5.60	5.80	3.20	
7	4.00	15.00	135.40	19.80	69.50	355.30	194.70	19.80	8.20	5.60	6.20	3.20	
8	4.40	10.60	131.10	17.40	55.00	364.20	130.50	21.00	7.80	5.60	6.00	3.00	
9	5.40	10.60	74.50	21.40	42.20	237.00	116.50	25.40	7.80	5.40	5.80	3.00	
10	5.00	8.00	45.00	56.50	39.80	249.80	107.30	27.00	7.40	5.40	5.60	3.00	
11	4.60	6.60	30.60	95.10	38.60	315.30	93.30	27.80	6.80	5.40	5.00	3.60	
12	4.20	6.60	29.40	66.50	95.70	399.40	78.10	31.80	6.40	5.20	4.40	4.80	
13	4.20	8.40	30.20	72.00	160.20	889.00	65.00	29.40	6.40	5.20	3.80	5.80	
14	4.00	20.20	30.20	78.10	167.70	1095.30	66.50	25.00	6.40	5.00	3.20	6.00	
15	3.60	17.00	27.00	85.40	127.50	756.00	70.50	22.20	6.20	5.00	3.40	5.60	
16	3.20	27.40	26.20	78.10	92.10	481.30	88.40	17.00	6.20	4.80	3.60	5.20	
17	3.20	28.60	28.20	65.00	98.80	318.80	85.40	17.80	6.20	4.60	3.60	4.80	
18	3.20	28.20	26.60	42.60	321.50	201.50	80.50	18.60	6.00	4.60	3.40	4.80	
19	3.40	26.60	33.00	39.40	339.30	201.50	73.50	16.60	6.00	4.40	3.40	5.00	
20	2.80	40.20	37.40	61.00	223.40	325.00	58.50	16.20	6.00	4.60	3.20	5.20	
21	2.20	35.00	29.00	41.00	297.50	296.60	53.00	15.80	5.80	5.60	3.20	4.80	
22	3.40	25.40	19.80	51.00	188.40	341.10	52.50	14.20	5.80	6.40	3.20	4.20	
23	10.60	15.40	14.20	50.00	115.30	320.60	49.00	13.40	5.60	7.20	3.00	3.80	
24	2.40	13.80	9.80	58.00	74.00	271.40	39.00	12.70	5.60	8.20	3.00	3.60	
25	3.20	18.60	8.40	103.70	69.00	210.60	34.60	12.40	5.40	8.20	3.00	3.20	
26	9.60	51.00	29.80	140.10	178.10	141.50	31.40	12.10	5.40	7.80	2.80	3.20	
27	6.40	127.50	78.10	95.10	122.60	172.60	29.80	11.50	5.20	7.20	2.80	3.00	
28	6.00	98.80	59.00	59.00	153.90	370.40	29.40	11.20	5.20	7.20	3.00	2.80	
29	6.00	73.50	62.00	43.40	122.60	371.30	28.60	11.20	5.00	6.60	3.20	2.20	
30	7.80	58.00	57.50	32.20	116.50	301.00	27.80	10.90	5.00	5.20		2.40	
31		43.40		68.00	194.70		27.00		4.80	4.80		2.40	
Total	137.20	892.60	1363.30	1746.20	5401.30	10044.90	4370.60	590.60	211.10	179.40	118.40	117.00	25172.60 CMSDAY
Mean	4.60	28.80	45.40	56.30	174.20	334.80	141.00	19.70	6.80	5.80	4.10	3.80	68.80 CMS
Max	10.60	127.50	135.40	140.10	411.10	1095.30	874.00	31.80	10.90	8.20	6.20	6.00	1095.30 CMS
Min	2.20	6.60	8.40	17.40	38.60	130.50	27.00	10.90	4.80	4.40	2.80	2.20	2.20 CMS
Runoff	11.85	77.12	117.79	150.87	466.67	867.88	377.62	51.03	18.24	15.50	10.23	10.11	2174.91 MCM
Momentary Peak	1148.10 CMS. at 239.97 m. (MSL.) at 06.00 Hours , on Sep 14 , 2011												
Runoff Yield	22.24	Liters/Second/Square KM.			Momentary Peak Yield			371.193	Liters/Second/Square KM.				

WATER YEAR : 2011

KHONG RIVER BASIN

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

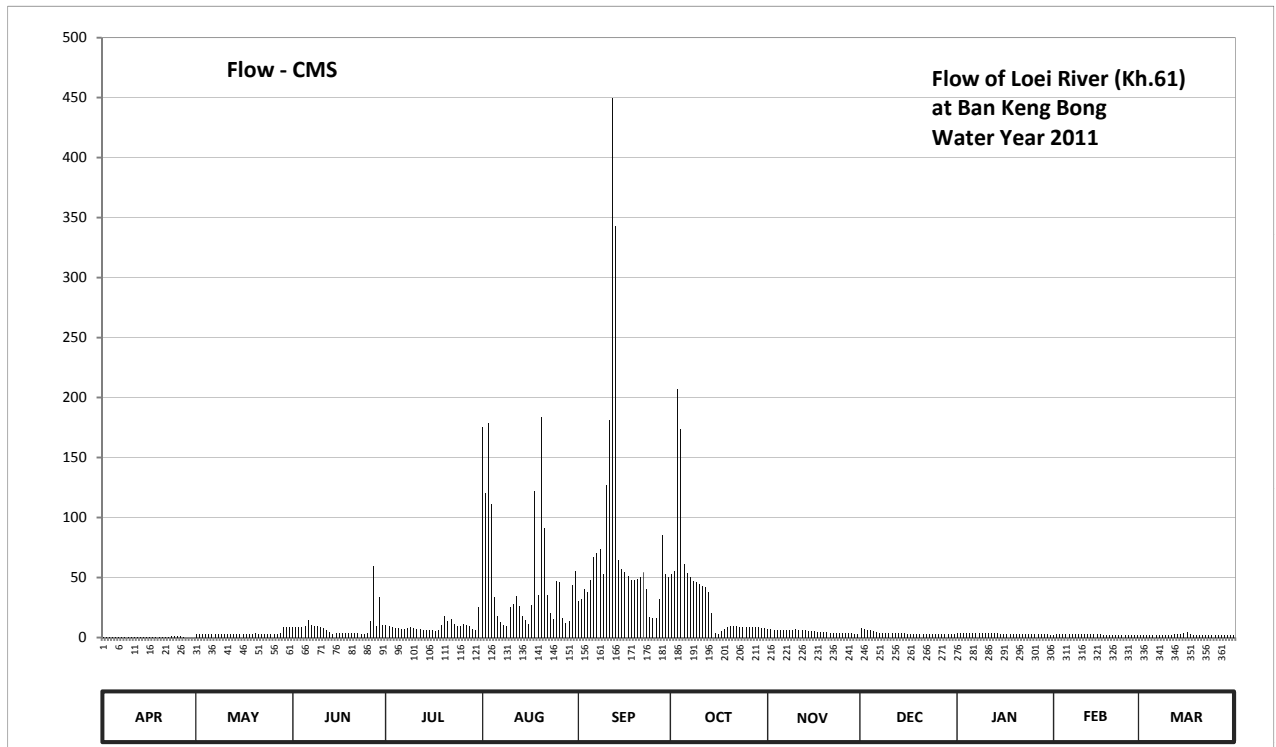
Lat 17 - 07 - 44 N Long 101 - 40 - 56 E

Location : on right bank at the bridge of Amphoe Wang Saphung - Ban Nong Khan Road.

	Ban	Keng Bong	Amphoe	Phu Luang	Changwat	Loei
Drainage Area	549	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+258.361	m. (MSL.)				
Bench Mark	B.M.- Highways Dept.					
Location BM	On right bank downstream side at the footpath of the bridge.				Elevation	+272.020 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1982 to date					
Rating Operation						
Period of Rating	1993 to date					
Rated by Flot	-					
Rated by Current Meter	1993 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2011.					

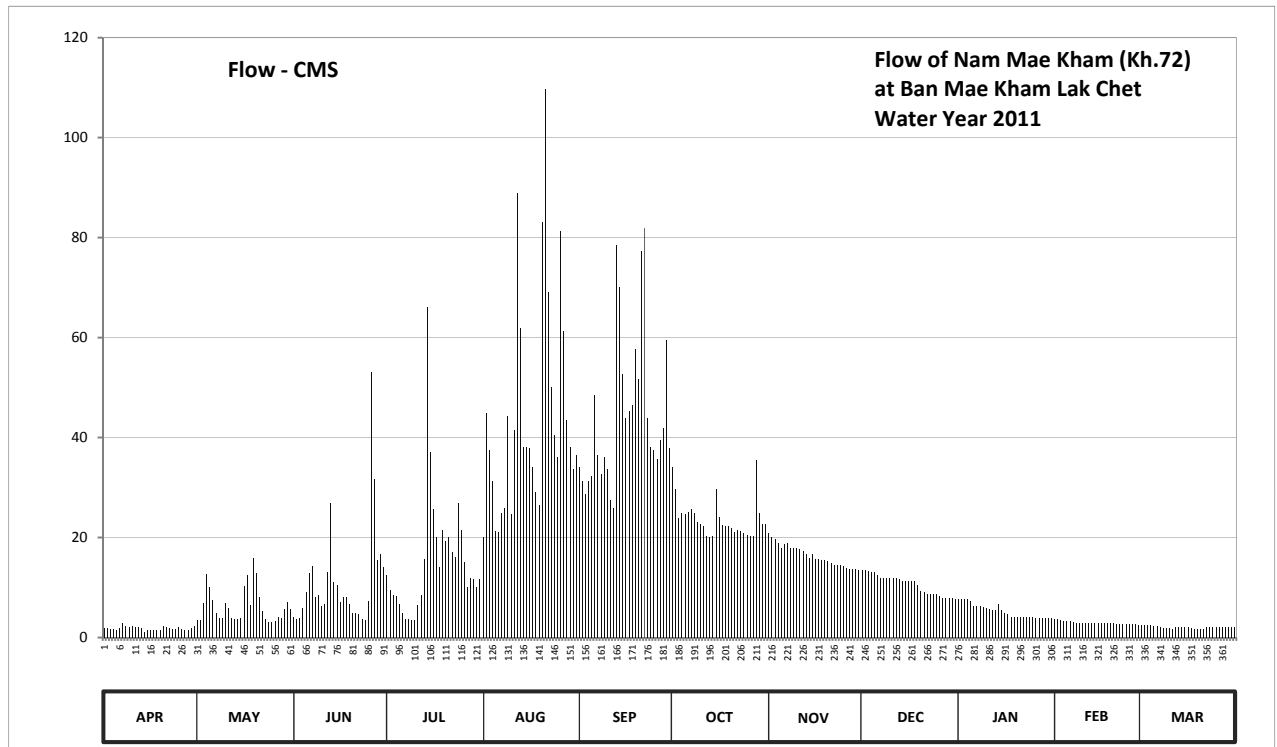
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.02	259.28	259.91	260.02	262.76	260.81	261.31	259.74	259.82	259.40	259.27	259.20	
2	259.00	259.28	259.89	259.95	262.21	260.87	261.36	259.72	259.77	259.44	259.28	259.21	
3	259.00	259.29	259.91	259.87	262.79	261.09	263.04	259.71	259.71	259.45	259.29	259.22	
4	259.00	259.29	259.92	259.84	262.11	261.03	262.74	259.71	259.65	259.45	259.30	259.22	
5	258.99	259.29	259.99	259.81	260.91	261.23	261.46	259.69	259.59	259.44	259.31	259.23	
6	258.99	259.29	260.24	259.77	260.42	261.54	261.33	259.68	259.54	259.44	259.32	259.23	
7	258.99	259.29	260.02	259.77	260.17	261.59	261.27	259.67	259.49	259.45	259.33	259.22	
8	259.03	259.29	259.96	259.82	260.01	261.64	261.22	259.68	259.46	259.45	259.33	259.21	
9	259.02	259.29	259.93	259.90	259.93	261.31	261.20	259.71	259.43	259.44	259.32	259.21	
10	259.01	259.29	259.89	259.81	260.68	262.28	261.18	259.74	259.42	259.44	259.32	259.22	
11	259.01	259.29	259.80	259.77	260.74	262.81	261.14	259.70	259.41	259.43	259.31	259.26	
12	259.01	259.29	259.70	259.74	260.93	264.58	261.12	259.68	259.41	259.42	259.31	259.33	
13	258.98	259.29	259.57	259.67	260.70	263.98	261.02	259.66	259.40	259.41	259.30	259.33	
14	258.95	259.29	259.38	259.65	260.45	261.51	260.54	259.64	259.40	259.40	259.30	259.33	
15	258.95	259.29	259.46	259.65	260.26	261.38	259.51	259.62	259.40	259.39	259.29	259.44	
16	258.95	259.29	259.46	259.65	260.05	261.34	259.37	259.60	259.39	259.39	259.28	259.53	
17	258.95	259.29	259.46	259.64	260.73	261.29	259.62	259.58	259.39	259.39	259.27	259.34	
18	258.95	259.29	259.46	259.68	262.23	261.23	259.78	259.56	259.39	259.39	259.26	259.26	
19	258.95	259.34	259.46	260.03	260.95	261.23	259.89	259.54	259.39	259.39	259.25	259.24	
20	258.95	259.42	259.45	260.42	262.83	261.24	259.94	259.52	259.39	259.38	259.24	259.23	
21	258.95	259.37	259.44	260.20	261.88	261.28	259.94	259.50	259.38	259.38	259.23	259.22	
22	258.96	259.35	259.42	260.29	260.95	261.34	259.93	259.49	259.38	259.38	259.22	259.21	
23	259.11	259.33	259.39	260.09	260.55	261.09	259.91	259.46	259.38	259.38	259.22	259.21	
24	259.13	259.36	259.35	259.93	260.31	260.41	259.90	259.44	259.38	259.37	259.22	259.21	
25	259.15	259.39	259.47	259.96	261.21	260.34	259.89	259.43	259.38	259.36	259.21	259.20	
26	259.15	259.39	260.19	260.07	261.20	260.34	259.89	259.42	259.38	259.34	259.21	259.20	
27	258.99	259.39	261.42	260.04	260.35	260.87	259.88	259.41	259.37	259.32	259.21	259.19	
28	258.60	259.43	259.96	259.98	260.10	261.81	259.87	259.40	259.37	259.30	259.21	259.18	
29	258.58	259.86	260.92	259.75	260.18	261.31	259.86	259.39	259.37	259.29	259.20	259.18	
30	258.80	259.89	260.01	259.66	261.16	261.27	259.85	259.38	259.37	259.28		259.17	
31		259.87		260.67	261.36		259.85		259.37	259.27		259.17	
Mean	258.97	259.37	259.81	259.91	261.00	261.47	260.54	259.58	259.45	259.39	259.27	259.25	
Max	259.15	259.89	261.42	260.67	262.83	264.58	263.04	259.74	259.82	259.45	259.33	259.53	264.58
Min	258.58	259.28	259.35	259.64	259.93	260.34	259.37	259.38	259.37	259.27	259.20	259.17	258.58
Annual Max Momentary Gage Height	265.76		m. (MSL.) , at 24.00 Hours , on Sep 12 , 2011										
Zero Gage at Bottom Elevation	258.36		m. (MSL.) , River Bed 258.91 m. (MSL)										
Left Bank Elevation	271.86		m. (MSL.) ,										
Right Bank Elevation	271.78		m. (MSL.) , Drainage Area 549 Square Kilometers										



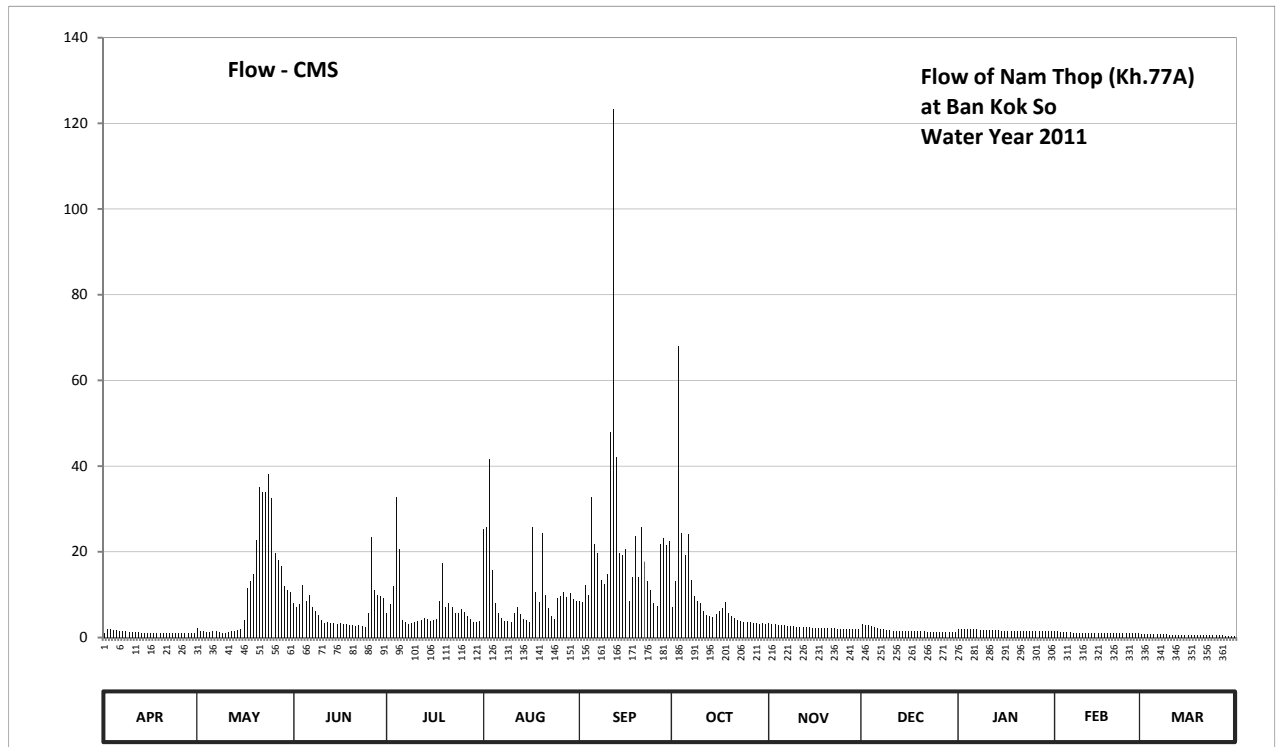
Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.64	2.46	8.92	10.36	175.60	30.16	52.60	6.88	7.84	3.30	2.39	1.90		
2	0.50	2.46	8.68	9.40	120.32	32.32	55.60	6.64	7.24	3.58	2.46	1.97		
3	0.50	2.53	8.92	8.44	178.90	40.24	207.20	6.52	6.52	3.65	2.53	2.04		
4	0.50	2.53	9.04	8.08	111.12	38.08	173.40	6.52	5.80	3.65	2.60	2.04		
5	0.47	2.53	9.88	7.72	33.76	47.80	61.60	6.28	5.08	3.58	2.67	2.11		
6	0.47	2.53	14.32	7.24	17.56	66.80	53.80	6.16	4.48	3.58	2.74	2.11		
7	0.47	2.53	10.36	7.24	13.06	70.30	50.20	6.04	3.93	3.65	2.81	2.04		
8	0.71	2.53	9.52	7.84	10.18	73.80	47.20	6.16	3.72	3.65	2.81	1.97		
9	0.64	2.53	9.16	8.80	9.16	52.60	46.00	6.52	3.51	3.58	2.74	1.97		
10	0.57	2.53	8.68	7.72	25.48	126.76	44.92	6.88	3.44	3.58	2.74	2.04		
11	0.57	2.53	7.60	7.24	27.64	181.10	42.76	6.40	3.37	3.51	2.67	2.32		
12	0.57	2.53	6.40	6.88	34.48	449.20	41.68	6.16	3.37	3.44	2.67	2.81		
13	0.44	2.53	4.84	6.04	26.20	342.80	37.72	5.92	3.30	3.37	2.60	2.81		
14	0.35	2.53	3.16	5.80	18.10	64.70	20.44	5.68	3.30	3.30	2.60	2.81		
15	0.35	2.53	3.72	5.80	14.68	56.80	4.12	5.44	3.30	3.23	2.53	3.58		
16	0.35	2.53	3.72	5.80	10.90	54.40	3.09	5.20	3.23	3.23	2.46	4.36		
17	0.35	2.53	3.72	5.68	27.28	51.40	5.44	4.96	3.23	3.23	2.39	2.88		
18	0.35	2.53	3.72	6.16	122.16	47.80	7.36	4.72	3.23	3.23	2.32	2.32		
19	0.35	2.88	3.72	10.54	35.20	47.80	8.68	4.48	3.23	3.23	2.25	2.18		
20	0.35	3.44	3.65	17.56	183.30	48.40	9.28	4.24	3.23	3.16	2.18	2.11		
21	0.35	3.09	3.58	13.60	91.40	50.80	9.28	4.00	3.16	3.16	2.11	2.04		
22	0.38	2.95	3.44	15.22	35.20	54.40	9.16	3.93	3.16	3.16	2.04	1.97		
23	1.27	2.81	3.23	11.62	20.80	40.24	8.92	3.72	3.16	3.16	2.04	1.97		
24	1.41	3.02	2.95	9.16	15.58	17.38	8.80	3.58	3.16	3.09	2.04	1.97		
25	1.55	3.23	3.79	9.52	46.60	16.12	8.68	3.51	3.16	3.02	1.97	1.90		
26	1.55	3.23	13.42	11.26	46.00	16.12	8.68	3.44	3.16	2.88	1.97	1.90		
27	0.47	3.23	59.20	10.72	16.30	32.32	8.56	3.37	3.09	2.74	1.97	1.83		
28	0.00	3.51	9.52	9.76	11.80	85.80	8.44	3.30	3.09	2.60	1.97	1.76		
29	0.00	8.32	34.12	7.00	13.24	52.60	8.32	3.23	3.09	2.53	1.90	1.76		
30	0.00	8.68	10.18	5.92	43.84	50.20	8.20	3.16	3.09	2.46		1.69		
31		8.44		25.12	55.60		8.20		3.09	2.39		1.69		
Total	16.48	102.23	285.16	289.24	1591.44	2339.24	1068.33	153.04	118.76	99.92	69.17	68.85	6201.86	CMSDAY
Mean	0.55	3.30	9.51	9.33	51.34	77.97	34.46	5.10	3.83	3.22	2.39	2.22	16.94	CMS
Max	1.55	8.68	59.20	25.12	183.30	449.20	207.20	6.88	7.84	3.65	2.81	4.36	449.20	CMS
Min	0.00	2.46	2.95	5.68	9.16	16.12	3.09	3.16	3.09	2.39	1.90	1.69	0.00	CMS
Runoff	1.42	8.83	24.64	24.99	137.50	202.11	92.30	13.22	10.26	8.63	5.98	5.95	535.84	MCM
Momentary Peak	CMS. at 265.76 m. (MSL.) at 24.00 Hours , on Sep 12 , 2011													
Runoff Yield	30.87	Liters/Second/Square KM.			Momentary Peak Yield			1260.838 Liters/Second/Square KM.						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.91	3.48	4.02	12.52	20.11	34.03	34.03	20.84	13.42	7.67	3.75	2.58		
2	1.84	3.57	3.66	9.53	44.78	31.35	29.67	20.11	13.42	7.67	3.66	2.58		
3	1.70	6.90	3.84	8.45	37.42	28.67	23.84	19.61	13.24	7.67	3.57	2.49		
4	1.70	12.70	5.82	8.30	31.35	31.35	24.88	18.88	13.06	7.67	3.39	2.49		
5	1.56	10.18	9.07	6.76	21.33	32.36	24.62	17.90	13.06	7.21	3.30	2.33		
6	1.98	7.52	12.88	4.88	21.08	48.47	25.14	18.64	12.52	6.36	3.21	2.19		
7	2.85	4.88	14.24	3.75	24.88	36.40	25.66	18.88	11.98	6.36	3.03	2.05		
8	2.33	3.84	8.14	3.75	25.92	32.69	24.88	17.90	11.80	6.22	2.94	1.98		
9	2.05	3.93	8.45	3.48	44.37	36.06	23.06	17.90	11.80	6.09	2.85	1.91		
10	2.19	6.90	6.22	3.48	24.62	33.69	22.80	17.90	11.80	5.95	2.85	1.84		
11	2.05	5.95	6.63	6.50	41.50	27.48	22.31	17.68	11.80	5.69	2.85	1.77		
12	2.05	3.93	13.06	8.45	88.91	25.92	20.35	17.26	11.80	5.41	2.85	2.05		
13	1.98	3.75	26.96	15.75	61.80	78.39	20.11	16.61	11.62	5.41	2.85	2.05		
14	1.07	3.75	11.08	66.08	38.10	70.07	20.35	15.96	11.26	6.63	2.85	2.05		
15	1.56	3.93	10.54	37.08	38.10	52.60	29.67	16.61	11.26	5.55	2.85	2.05		
16	1.56	10.36	7.05	25.66	37.76	43.96	24.10	15.75	11.26	4.88	2.85	2.05		
17	1.56	12.52	7.99	20.11	34.03	45.19	22.56	15.75	11.26	4.60	2.85	1.91		
18	1.56	6.50	7.99	14.03	29.01	46.42	22.31	15.53	11.26	4.20	2.85	1.70		
19	1.42	15.96	6.63	21.58	26.44	57.59	22.31	15.53	10.54	4.20	2.85	1.70		
20	2.26	12.88	4.88	19.37	83.07	51.77	21.82	15.32	9.23	4.20	2.85	1.70		
21	2.05	7.99	4.88	20.11	109.70	77.29	21.08	14.89	9.07	4.20	2.76	1.70		
22	1.98	5.28	4.74	17.04	69.05	81.90	21.58	14.46	8.76	4.20	2.76	2.05		
23	1.77	3.66	3.66	16.18	50.11	43.96	21.33	14.46	8.76	4.11	2.76	2.05		
24	1.63	3.12	3.57	26.96	40.48	38.10	20.84	14.46	8.60	4.11	2.76	2.05		
25	2.05	3.03	7.37	21.58	36.06	37.42	20.59	14.24	8.60	4.02	2.67	2.05		
26	1.70	3.39	53.02	15.11	81.31	35.72	20.35	13.82	8.30	3.84	2.67	2.05		
27	1.49	4.11	31.68	10.18	61.33	39.46	20.35	13.60	7.83	3.93	2.67	2.05		
28	1.49	3.93	15.53	11.80	43.55	41.91	35.38	13.60	7.83	3.93	2.58	2.05		
29	1.91	5.69	16.61	11.62	38.10	59.42	24.88	13.60	7.83	3.93	2.58	2.05		
30	2.19	7.05	14.03	10.18	33.69	37.76	22.80	13.42	7.83	3.93		2.05		
31		5.69		11.62	36.40		22.80		7.67	3.93		2.05		
Total	55.44	196.37	334.24	471.89	1374.36	1337.40	736.45	491.11	328.47	163.77	85.26	63.67	5638.43	CMSDAY
Mean	1.85	6.33	11.14	15.22	44.33	44.58	23.76	16.37	10.60	5.28	2.94	2.05	15.41	CMS
Max	2.85	15.96	53.02	66.08	109.70	81.90	35.38	20.84	13.42	7.67	3.75	2.58	109.70	CMS
Min	1.07	3.03	3.57	3.48	20.11	25.92	20.11	13.42	7.67	3.84	2.58	1.70	1.07	CMS
Runoff	4.79	16.97	28.88	40.77	118.75	115.55	63.63	42.43	28.38	14.15	7.37	5.50	487.16	MCM
Momentary Peak	170.50 CMS. at 398.10 m. (MSL.) at 18.00 Hours , on Aug 20 , 2011													
Runoff Yield	23.10	Liters/Second/Square KM.			Momentary Peak Yield			255.622	Liters/Second/Square KM.					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.96	2.30	8.00	5.80	25.36	8.40	7.20	3.30	3.20	2.10	1.40	0.88		
2	2.00	1.60	7.00	7.80	25.68	8.20	13.20	3.20	3.00	2.10	1.40	0.84		
3	1.90	1.60	7.80	11.92	41.58	12.24	67.90	3.10	2.80	2.10	1.30	0.84		
4	1.80	1.30	12.24	32.84	15.76	9.80	24.40	3.00	2.60	2.10	1.30	0.80		
5	1.80	1.20	8.60	20.56	8.00	32.84	19.28	2.90	2.40	2.10	1.20	0.80		
6	1.60	1.40	10.00	4.00	5.80	21.84	24.08	2.80	2.20	1.90	1.20	0.76		
7	1.40	1.40	7.20	3.50	4.60	19.60	13.52	2.70	2.00	1.90	1.10	0.76		
8	1.40	1.30	6.20	3.20	3.90	13.52	9.60	2.60	1.90	1.80	1.10	0.72		
9	1.30	1.10	5.20	3.30	3.80	12.56	8.40	2.60	1.80	1.80	1.10	0.72		
10	1.30	1.10	4.00	3.60	3.70	14.80	8.00	2.50	1.70	1.80	1.10	0.68		
11	1.30	1.20	3.40	3.80	5.80	48.00	6.20	2.50	1.60	1.80	1.10	0.68		
12	1.20	1.40	3.60	4.00	7.20	123.40	5.20	2.40	1.60	1.70	1.00	0.68		
13	1.10	1.60	3.40	4.60	5.40	41.96	5.00	2.40	1.50	1.70	1.00	0.64		
14	1.10	1.70	3.30	4.20	4.40	19.60	4.80	2.40	1.50	1.70	1.00	0.64		
15	1.10	2.10	3.20	3.90	4.00	19.28	5.40	2.30	1.50	1.60	1.00	0.64		
16	1.00	4.00	3.30	4.00	3.50	20.56	6.20	2.30	1.40	1.60	1.00	0.60		
17	1.00	11.60	3.20	4.40	25.68	8.60	6.80	2.30	1.40	1.60	1.00	0.60		
18	1.00	13.20	3.20	8.60	10.64	14.16	8.20	2.30	1.40	1.60	0.96	0.57		
19	0.96	14.80	3.00	17.36	8.20	23.76	5.80	2.20	1.40	1.60	0.96	0.57		
20	0.96	22.80	2.80	7.20	24.40	14.16	5.00	2.20	1.40	1.60	0.96	0.54		
21	0.96	35.12	2.70	8.00	10.00	25.68	4.60	2.20	1.40	1.50	0.96	0.54		
22	0.92	33.98	2.80	7.20	6.80	17.68	4.00	2.20	1.30	1.50	0.96	0.51		
23	0.92	33.98	2.60	5.80	5.00	13.20	3.80	2.10	1.30	1.50	0.96	0.51		
24	0.92	38.16	2.50	5.80	4.40	10.96	3.70	2.10	1.30	1.50	0.96	0.51		
25	0.92	32.46	5.80	6.60	9.20	8.00	3.60	2.10	1.30	1.50	0.92	0.48		
26	0.92	19.60	23.44	6.00	9.60	7.40	3.50	2.00	1.30	1.50	0.92	0.48		
27	0.92	18.00	10.96	5.00	10.64	21.84	3.40	2.00	1.20	1.50	0.92	0.48		
28	0.92	16.72	10.00	4.20	9.40	23.12	3.30	2.00	1.20	1.50	0.92	0.45		
29	0.92	11.92	9.60	3.60	10.32	21.52	3.20	1.90	1.20	1.40	0.92	0.45		
30	0.92	10.96	9.20	3.50	9.00	22.48	3.30	1.90	1.20	1.40		0.45		
31		10.64		3.80	8.60		3.20		1.20	1.40		0.45		
Total	35.42	350.24	188.24	218.08	330.36	659.16	293.78	72.50	52.20	52.40	30.62	19.27	2302.27	CMSDAY
Mean	1.18	11.30	6.27	7.03	10.66	21.97	9.48	2.42	1.68	1.69	1.06	0.62	6.29	CMS
Max	2.00	38.16	23.44	32.84	41.58	123.40	67.90	3.30	3.20	2.10	1.40	0.88	123.40	CMS
Min	0.92	1.10	2.50	3.20	3.50	7.40	3.20	1.90	1.20	1.40	0.92	0.45	0.45	CMS
Runoff	3.06	30.26	16.26	18.84	28.54	56.95	25.38	6.26	4.51	4.53	2.65	1.67	198.92	MCM
Momentary Peak	160.50 CMS. at 264.19 m. (MSL.) at 06.00 Hours , on Sep 12 , 2011													
Runoff Yield	40.32	Liters/Second/Square KM.			Momentary Peak Yield			1028.846	Liters/Second/Square KM.					

WATER YEAR : 2011

KHONG RIVER BASIN

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

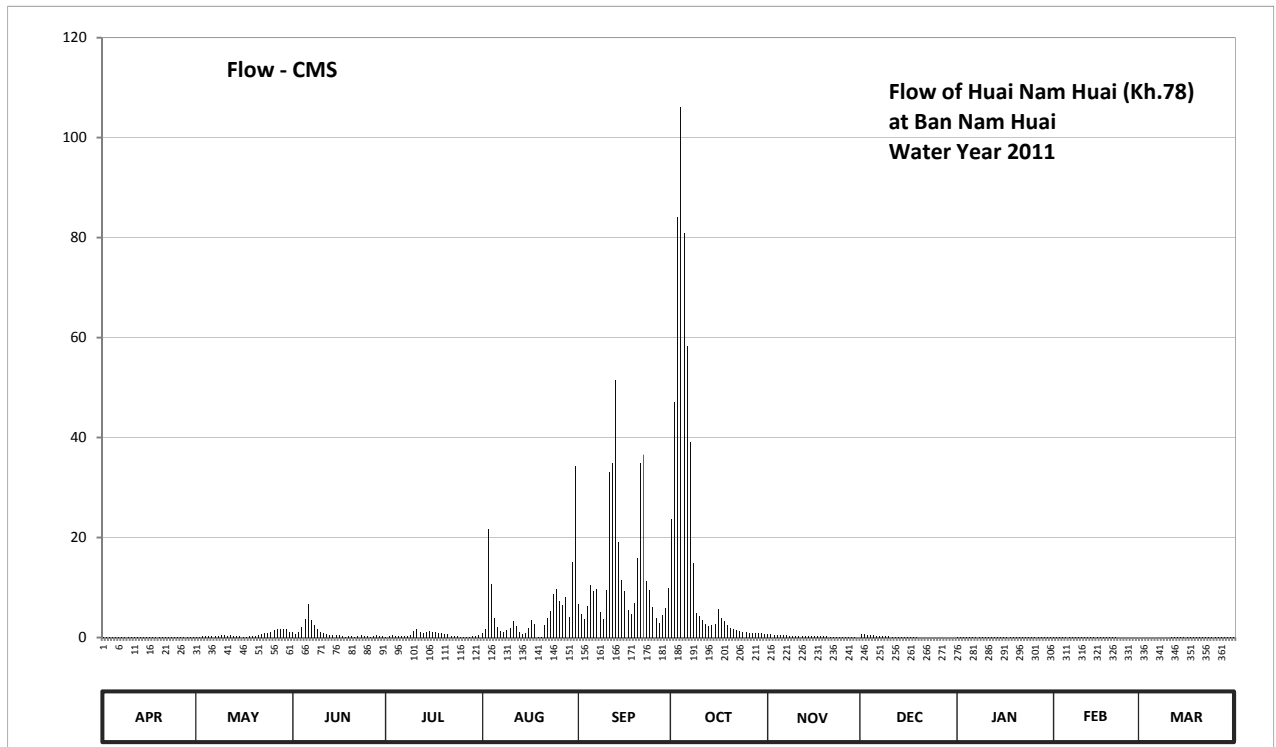
Lat 17 - 23 - 00 N Long 101 - 42 - 40 E

Location : on left bank at the bridge of Amphoe Wang Saphung - Amphoe Mueang Highway.

	Ban	Nam Huai	Amphoe	Mueang	Changwat	Loei
Drainage Area	219	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+246.224	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On left bank downstream side at the footpath of the bridge.				Elevation	+256.495 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1993 to date					
Rated by Flot	-					
Rated by Current Meter	1993 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. The concrete weir situated about 700 meters downstream from the gage site.					
	Stage-discharge relation defined by 11 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	248.42	248.42	248.56	248.43	248.53	249.12	250.32	248.52	248.52	248.42	248.42	248.39	
2	248.42	248.43	248.52	248.47	248.63	248.92	251.50	248.51	248.51	248.42	248.42	248.39	
3	248.42	248.45	248.56	248.48	250.20	248.82	253.04	248.50	248.50	248.42	248.42	248.40	
4	248.42	248.45	248.67	248.47	249.47	249.08	253.84	248.49	248.49	248.42	248.42	248.40	
5	248.42	248.46	248.83	248.47	248.84	249.44	252.92	248.48	248.48	248.42	248.42	248.40	
6	248.42	248.47	249.11	248.47	248.67	249.34	252.01	248.48	248.47	248.42	248.42	248.40	
7	248.42	248.47	248.81	248.47	248.59	249.37	251.10	248.48	248.47	248.42	248.43	248.40	
8	248.42	248.47	248.71	248.47	248.57	248.96	249.78	248.47	248.46	248.42	248.43	248.40	
9	248.42	248.48	248.62	248.50	248.60	248.82	248.94	248.47	248.45	248.42	248.43	248.40	
10	248.42	248.49	248.57	248.58	248.65	249.35	248.89	248.47	248.44	248.42	248.43	248.40	
11	248.42	248.47	248.55	248.61	248.78	250.80	248.80	248.46	248.43	248.42	248.43	248.41	
12	248.42	248.48	248.51	248.57	248.69	250.89	248.72	248.46	248.42	248.42	248.42	248.42	
13	248.42	248.47	248.49	248.55	248.57	251.70	248.68	248.46	248.42	248.42	248.42	248.42	
14	248.42	248.45	248.49	248.57	248.52	250.06	248.70	248.45	248.42	248.42	248.42	248.42	
15	248.42	248.44	248.48	248.58	248.55	249.53	248.72	248.45	248.42	248.42	248.42	248.42	
16	248.42	248.42	248.48	248.57	248.64	249.34	249.03	248.45	248.41	248.42	248.42	248.42	
17	248.42	248.43	248.46	248.57	248.81	249.00	248.85	248.45	248.41	248.42	248.42	248.42	
18	248.42	248.45	248.43	248.55	248.72	248.93	248.78	248.44	248.41	248.42	248.41	248.42	
19	248.42	248.46	248.46	248.54	248.42	249.13	248.70	248.44	248.41	248.42	248.41	248.42	
20	248.42	248.47	248.44	248.52	248.42	249.85	248.65	248.44	248.40	248.42	248.41	248.42	
21	248.42	248.49	248.43	248.51	248.70	250.89	248.62	248.43	248.40	248.42	248.41	248.42	
22	248.42	248.51	248.46	248.47	248.84	250.98	248.60	248.43	248.40	248.42	248.40	248.42	
23	248.41	248.53	248.48	248.46	248.99	249.52	248.58	248.43	248.39	248.42	248.40	248.42	
24	248.41	248.54	248.47	248.44	249.28	249.36	248.57	248.42	248.39	248.42	248.40	248.42	
25	248.41	248.56	248.44	248.42	249.38	249.06	248.56	248.42	248.39	248.42	248.40	248.42	
26	248.41	248.60	248.43	248.42	249.16	248.85	248.55	248.42	248.39	248.42	248.40	248.42	
27	248.41	248.62	248.47	248.42	249.10	248.75	248.55	248.41	248.39	248.42	248.39	248.42	
28	248.41	248.62	248.49	248.43	249.23	248.90	248.54	248.41	248.38	248.42	248.39	248.42	
29	248.41	248.62	248.47	248.44	248.86	249.05	248.53	248.41	248.38	248.42	248.39	248.42	
30	248.41	248.61	248.47	248.44	249.79	249.39	248.53	248.40	248.38	248.42		248.42	
31		248.57		248.48	250.86		248.52		248.38	248.42		248.42	
Mean	248.42	248.50	248.55	248.50	248.94	249.51	249.49	248.45	248.43	248.42	248.41	248.41	
Max	248.42	248.62	249.11	248.61	250.86	251.70	253.84	248.52	248.52	248.42	248.43	248.42	253.84
Min	248.41	248.42	248.43	248.42	248.42	248.75	248.52	248.40	248.38	248.42	248.39	248.39	248.38
Annual Max Momentary Gage Height	254.32		m. (MSL.) ,		at 06.00 Hours , on Oct 4 , 2011								
Zero Gage at Bottom Elevation	246.22		m. (MSL.) ,		River Bed	247.62		m. (MSL)					
Left Bank Elevation	254.36		m. (MSL.) ,										
Right Bank Elevation	254.57		m. (MSL.) ,		Drainage Area	219		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.10	1.09	0.15	0.79	6.77	23.76	0.70	0.70	0.10	0.10	0.00		
2	0.10	0.15	0.70	0.35	1.77	4.62	47.00	0.60	0.60	0.10	0.10	0.00		
3	0.10	0.25	1.09	0.40	21.60	3.64	84.04	0.50	0.50	0.10	0.10	0.00		
4	0.10	0.25	2.17	0.35	10.76	6.31	106.20	0.45	0.45	0.10	0.10	0.00		
5	0.10	0.30	3.73	0.35	3.83	10.42	80.92	0.40	0.40	0.10	0.10	0.00		
6	0.10	0.35	6.65	0.35	2.17	9.28	58.24	0.40	0.35	0.10	0.10	0.00		
7	0.10	0.35	3.54	0.35	1.38	9.62	39.00	0.40	0.35	0.10	0.15	0.00		
8	0.10	0.35	2.56	0.35	1.19	5.01	14.96	0.35	0.30	0.10	0.15	0.00		
9	0.10	0.40	1.68	0.50	1.48	3.64	4.81	0.35	0.25	0.10	0.15	0.00		
10	0.10	0.45	1.19	1.28	1.97	9.39	4.32	0.35	0.20	0.10	0.15	0.00		
11	0.10	0.35	0.99	1.58	3.24	33.00	3.44	0.30	0.15	0.10	0.15	0.05		
12	0.10	0.40	0.60	1.19	2.36	34.80	2.66	0.30	0.10	0.10	0.10	0.10		
13	0.10	0.35	0.45	0.99	1.19	51.40	2.26	0.30	0.10	0.10	0.10	0.10		
14	0.10	0.25	0.45	1.19	0.70	19.08	2.46	0.25	0.10	0.10	0.10	0.10		
15	0.10	0.20	0.40	1.28	0.99	11.51	2.66	0.25	0.10	0.10	0.10	0.10		
16	0.10	0.10	0.40	1.19	1.87	9.28	5.74	0.25	0.05	0.10	0.10	0.10		
17	0.10	0.15	0.30	1.19	3.54	5.40	3.93	0.25	0.05	0.10	0.10	0.10		
18	0.10	0.25	0.15	0.99	2.66	4.71	3.24	0.20	0.05	0.10	0.05	0.10		
19	0.10	0.30	0.30	0.89	0.10	6.88	2.46	0.20	0.05	0.10	0.05	0.10		
20	0.10	0.35	0.20	0.70	0.10	15.93	1.97	0.20	0.00	0.10	0.05	0.10		
21	0.10	0.45	0.15	0.60	2.46	34.80	1.68	0.15	0.00	0.10	0.05	0.10		
22	0.10	0.60	0.30	0.35	3.83	36.60	1.48	0.15	0.00	0.10	0.00	0.10		
23	0.05	0.79	0.40	0.30	5.30	11.38	1.28	0.15	0.00	0.10	0.00	0.10		
24	0.05	0.89	0.35	0.20	8.59	9.50	1.19	0.10	0.00	0.10	0.00	0.10		
25	0.05	1.09	0.20	0.10	9.73	6.08	1.09	0.10	0.00	0.10	0.00	0.10		
26	0.05	1.48	0.15	0.10	7.22	3.93	0.99	0.10	0.00	0.10	0.00	0.10		
27	0.05	1.68	0.35	0.10	6.54	2.95	0.99	0.05	0.00	0.10	0.00	0.10		
28	0.05	1.68	0.45	0.15	8.02	4.42	0.89	0.05	0.00	0.10	0.00	0.10		
29	0.05	1.68	0.35	0.20	4.03	5.97	0.79	0.05	0.00	0.10	0.00	0.10		
30	0.05	1.58	0.35	0.20	15.10	9.85	0.79	0.00	0.00	0.10		0.10		
31		1.19		0.40	34.20		0.70		0.00	0.10		0.10		
Total	2.60	18.76	31.69	18.32	168.71	386.17	505.94	7.90	4.85	3.10	2.15	2.05	1152.24	CMSDAY
Mean	0.09	0.61	1.06	0.59	5.44	12.87	16.32	0.26	0.16	0.10	0.07	0.07	3.15	CMS
Max	0.10	1.68	6.65	1.58	34.20	51.40	106.20	0.70	0.70	0.10	0.15	0.10	106.20	CMS
Min	0.05	0.10	0.15	0.10	0.10	2.95	0.70	0.00	0.00	0.10	0.00	0.00	0.00	CMS
Runoff	0.23	1.62	2.74	1.58	14.58	33.37	43.71	0.68	0.42	0.27	0.19	0.18	99.55	MCM
Momentary Peak	120.60	CMS. at 254.32 m. (MSL.) at 06.00 Hours , on Oct 4 , 2011												
Runoff Yield	14.38	Liters/Second/Square KM.			Momentary Peak Yield		550.685	Liters/Second/Square KM.						

WATER YEAR : 2011

KHONG RIVER BASIN

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

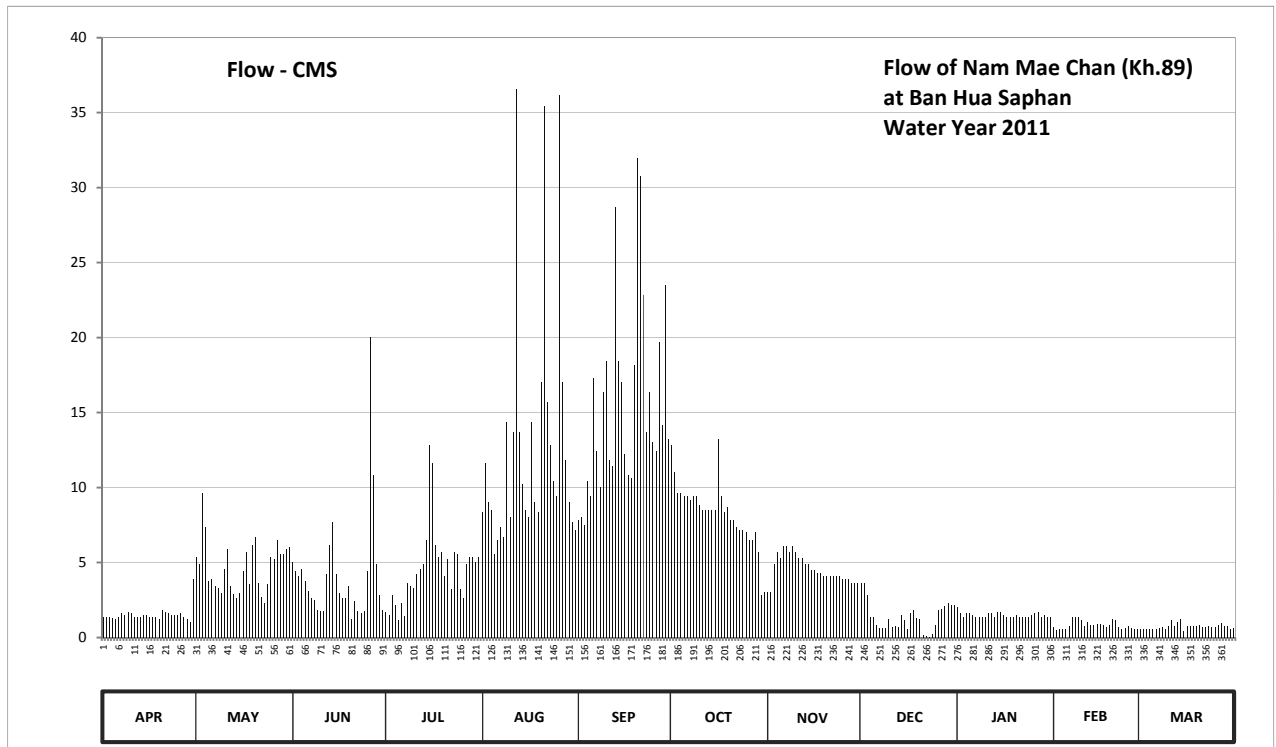
Lat 20 - 09 - 25 N Long 99 - 51 - 45 E

Location : on right bank at the bridge of Mae Chan - Mae Sai Highway from Tambon Pa Sang.

	Ban	Hua Saphan	Amphoe	Mae Chan	Changwat	Chiang Rai
Drainage Area	248	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+406.385	m. (MSL.)				
Bench Mark	B.M.- Temporary.					
Location BM	On right bank at the footpath of the bridge.				Elevation	+408.840 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1993 to date					
Rating Operation						
Period of Rating	1993 to date					
Rated by Flot	-					
Rated by Current Meter	1993 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. The local weir situated about 300 meters downstream from the gage site.					
	Stage-discharge relation defined by 43 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	406.89	406.98	406.96	406.66	407.16	407.13	407.39	407.03	407.06	406.96	406.76	406.67	
2	406.89	406.95	406.92	406.64	407.33	407.14	407.30	407.03	407.06	406.92	406.65	406.69	
3	406.89	407.23	406.90	406.78	407.20	407.11	407.23	407.11	407.02	406.90	406.69	406.69	
4	406.88	407.10	406.93	406.72	407.17	407.27	407.23	407.13	406.89	406.92	406.69	406.69	
5	406.87	406.87	406.87	406.59	406.99	407.22	407.22	407.12	406.89	406.92	406.69	406.69	
6	406.89	406.88	406.81	406.73	407.05	407.59	407.22	407.14	406.81	406.91	406.77	406.69	
7	406.92	406.84	406.76	406.63	407.10	407.37	407.21	407.14	406.72	406.89	406.89	406.73	
8	406.91	406.83	406.75	406.86	407.06	407.25	407.22	407.13	406.72	406.89	406.90	406.75	
9	406.93	406.80	406.68	406.84	407.46	407.55	407.22	407.14	406.73	406.89	406.89	406.69	
10	406.92	406.93	406.67	406.83	407.14	407.63	407.19	407.13	406.87	406.90	406.86	406.78	
11	406.90	407.01	406.67	406.91	407.43	407.34	407.17	407.12	406.74	406.92	406.79	406.86	
12	406.90	406.84	406.91	406.93	408.15	407.32	407.17	407.12	406.77	406.92	406.84	406.77	
13	406.90	406.79	407.03	406.95	407.43	407.94	407.17	407.11	406.75	406.90	406.81	406.84	
14	406.91	406.76	407.12	407.05	407.26	407.63	407.17	407.11	406.91	406.93	406.80	406.87	
15	406.91	406.80	406.91	407.39	407.17	407.58	407.17	407.10	406.86	406.93	406.82	406.62	
16	406.90	406.92	406.80	407.33	407.14	407.36	407.41	407.10	406.68	406.91	406.82	406.78	
17	406.90	407.00	406.76	407.03	407.46	407.29	407.22	407.09	406.92	406.89	406.80	406.79	
18	406.89	406.85	406.76	406.98	407.20	407.28	407.16	407.09	406.94	406.89	406.75	406.79	
19	406.87	407.03	406.84	407.00	407.16	407.62	407.18	407.08	406.88	406.90	406.81	406.79	
20	406.94	407.06	406.60	406.90	407.58	408.03	407.13	407.08	406.87	406.91	406.87	406.81	
21	406.93	406.86	406.74	406.97	408.12	408.00	407.13	407.08	406.39	406.89	406.86	406.76	
22	406.92	406.77	406.67	406.82	407.52	407.77	407.10	407.08	406.29	406.89	406.76	406.74	
23	406.91	406.73	406.65	407.00	407.39	407.43	407.09	407.08	406.24	406.89	406.69	406.78	
24	406.91	406.85	406.67	406.99	407.27	407.55	407.09	407.08	406.43	406.90	406.71	406.76	
25	406.91	406.98	406.92	406.82	407.22	407.40	407.08	407.07	406.80	406.91	406.78	406.76	
26	406.92	406.97	407.68	406.76	408.14	407.37	407.05	407.07	406.94	406.92	406.72	406.80	
27	406.89	407.05	407.29	406.95	407.58	407.67	407.05	407.07	406.95	406.93	406.69	406.83	
28	406.87	406.99	406.95	406									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.34	5.38	5.06	1.68	8.34	7.84	12.80	3.03	3.66	2.00	0.72	0.54		
2	1.34	4.90	4.42	1.52	11.60	8.01	11.00	3.03	3.66	1.60	0.50	0.58		
3	1.34	9.60	4.10	2.80	9.00	7.51	9.60	4.90	2.82	1.40	0.58	0.58		
4	1.28	7.35	4.58	2.20	8.51	10.40	9.60	5.70	1.34	1.60	0.58	0.58		
5	1.22	3.77	3.77	1.16	5.54	9.40	9.40	5.30	1.34	1.60	0.58	0.58		
6	1.34	3.88	3.11	2.30	6.52	17.27	9.40	6.10	0.86	1.50	0.74	0.58		
7	1.60	3.44	2.60	1.44	7.35	12.40	9.20	6.10	0.64	1.34	1.34	0.66		
8	1.50	3.33	2.50	3.66	6.69	10.00	9.40	5.70	0.64	1.34	1.40	0.70		
9	1.70	3.00	1.84	3.44	14.35	16.37	9.40	6.10	0.66	1.34	1.34	0.58		
10	1.60	4.58	1.76	3.33	8.01	18.45	8.83	5.70	1.22	1.40	1.16	0.76		
11	1.40	5.87	1.76	4.26	13.67	11.80	8.51	5.30	0.68	1.60	0.78	1.16		
12	1.40	3.44	4.26	4.58	36.57	11.40	8.51	5.30	0.74	1.60	1.04	0.74		
13	1.40	2.90	6.19	4.90	13.67	28.70	8.51	4.90	0.70	1.40	0.86	1.04		
14	1.50	2.60	7.68	6.52	10.20	18.45	8.51	4.90	1.50	1.70	0.80	1.22		
15	1.50	3.00	4.26	12.80	8.51	17.05	8.51	4.50	1.16	1.70	0.92	0.44		
16	1.40	4.42	3.00	11.60	8.01	12.20	13.23	4.50	0.56	1.50	0.92	0.76		
17	1.40	5.70	2.60	6.19	14.35	10.80	9.40	4.29	1.60	1.34	0.80	0.78		
18	1.34	3.55	2.60	5.38	9.00	10.60	8.34	4.29	1.80	1.34	0.70	0.78		
19	1.22	6.19	3.44	5.70	8.34	18.13	8.67	4.08	1.28	1.40	0.86	0.78		
20	1.80	6.69	1.20	4.10	17.05	31.95	7.84	4.08	1.22	1.50	1.22	0.86		
21	1.70	3.66	2.40	5.22	35.42	30.80	7.84	4.08	0.19	1.34	1.16	0.72		
22	1.60	2.70	1.76	3.22	15.70	22.85	7.35	4.08	0.09	1.34	0.72	0.68		
23	1.50	2.30	1.60	5.70	12.80	13.67	7.18	4.08	0.04	1.34	0.58	0.76		
24	1.50	3.55	1.76	5.54	10.40	16.37	7.18	4.08	0.23	1.40	0.62	0.72		
25	1.50	5.38	4.42	3.22	9.40	13.00	7.02	3.87	0.80	1.50	0.76	0.72		
26	1.60	5.22	20.02	2.60	36.19	12.40	6.52	3.87	1.80	1.60	0.64	0.80		
27	1.34	6.52	10.80	4.90	17.05	19.71	6.52	3.87	1.90	1.70	0.58	0.98		
28	1.22	5.54	4.90	5.38	11.80	14.13	7.02	3.66	2.10	1.40	0.54	0.78		
29	1.04	5.54	2.80	5.38	9.00	23.49	5.70	3.66	2.30	1.50	0.48	0.76		
30	3.88	5.87	1.84	5.06	7.68	13.23	2.82	3.66	2.20	1.40		0.60		
31		6.03		5.38	7.18		3.03		2.20	1.40		0.64		
Total	45.50	145.90	123.03	141.16	397.90	468.38	256.84	136.71	41.93	46.12	23.92	22.86	1850.25	CMSDAY
Mean	1.52	4.71	4.10	4.55	12.84	15.61	8.29	4.56	1.35	1.49	0.82	0.74	5.06	CMS
Max	3.88	9.60	20.02	12.80	36.57	31.95	13.23	6.10	3.66	2.00	1.40	1.22	36.57	CMS
Min	1.04	2.30	1.20	1.16	5.54	7.51	2.82	3.03	0.04	1.34	0.48	0.44	0.04	CMS
Runoff	3.93	12.61	10.63	12.20	34.38	40.47	22.19	11.81	3.62	3.99	2.07	1.98	159.86	MCM
Momentary Peak	56.02	CMS. at 408.59 m. (MSL.) at 18.00 Hours , on Sep 20 , 2011												
Runoff Yield	20.38	Liters/Second/Square KM.			Momentary Peak Yield			225.887	Liters/Second/Square KM.					

WATER YEAR : 2011

KHONG RIVER BASIN

Lam Nam Phung at Ban Tong Khop , Sakon Nakhon (Kh.90)

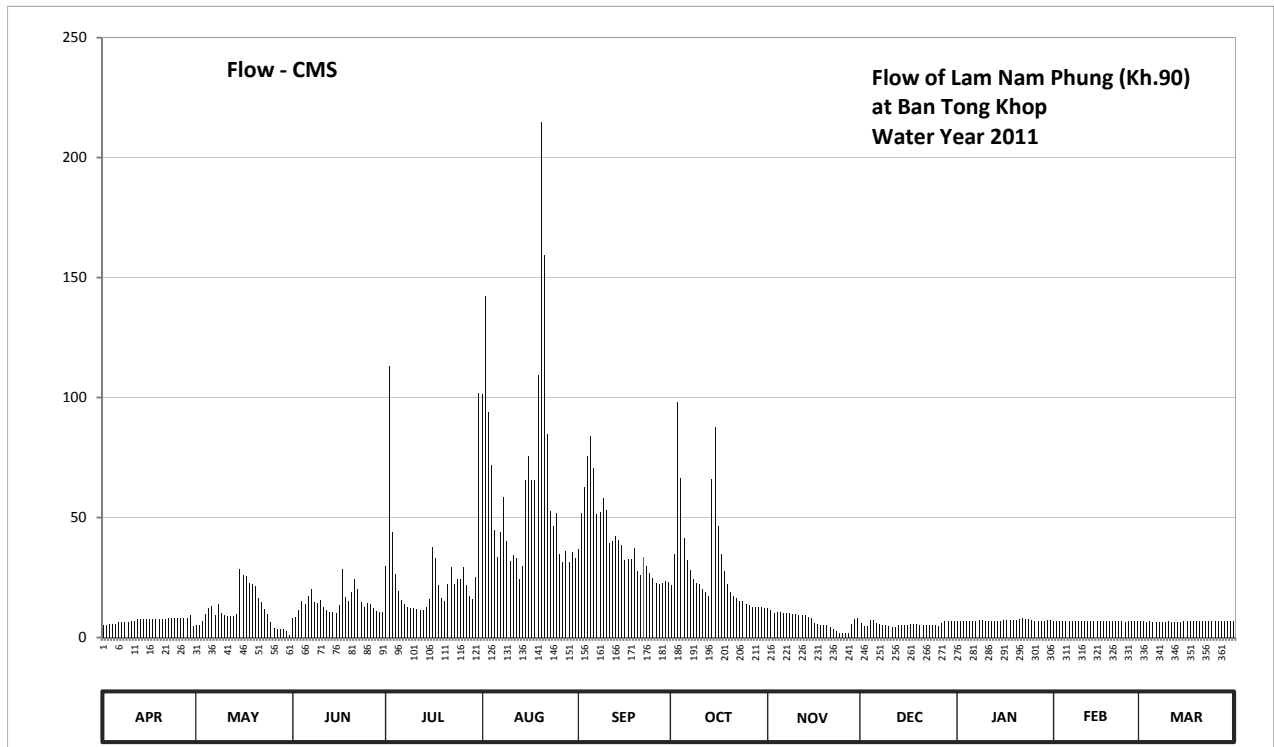
Lat 17 - 04 - 05 N Long 104 - 15 - 32 E

Location : on right bank at the bridge on highway.

	Ban	Tong Khop	Amphoe	Khok Si Suphan	Changwat	Sakon Nakhon
Drainage Area	861	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+158.500	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On right bank at the footpath of the bridge.				Elevation	+167.456 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +164.020 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	158.76	158.75	158.95	160.20	162.92	160.57	159.78	159.21	158.80	158.86	158.87	158.85	
2	158.76	158.76	158.96	163.22	163.74	161.18	160.48	159.15	158.73	158.86	158.86	158.86	
3	158.77	158.86	159.16	160.87	162.68	161.60	162.82	159.08	158.72	158.86	158.86	158.84	
4	158.77	159.04	159.39	160.03	161.92	162.06	161.73	159.09	158.89	158.86	158.87	158.85	
5	158.77	159.20	159.30	159.62	160.90	162.36	160.76	159.09	158.89	158.86	158.86	158.84	
6	158.82	159.25	159.51	159.41	160.42	161.87	160.36	159.08	158.81	158.85	158.86	158.84	
7	158.82	159.03	159.68	159.30	160.87	161.17	160.11	159.08	158.77	158.87	158.85	158.84	
8	158.82	159.31	159.35	159.22	161.44	161.20	159.92	159.07	158.75	158.89	158.86	158.84	
9	158.83	159.06	159.33	159.20	160.71	161.42	159.81	159.05	158.75	158.88	158.87	158.84	
10	158.85	159.01	159.41	159.20	160.33	161.24	159.79	159.04	158.73	158.86	158.87	158.85	
11	158.87	159.00	159.24	159.19	160.47	160.69	159.67	159.02	158.70	158.86	158.86	158.84	
12	158.92	159.00	159.14	159.14	160.40	160.71	159.60	159.01	158.70	158.85	158.87	158.83	
13	158.92	159.00	159.09	159.16	159.92	160.81	159.51	159.01	158.76	158.86	158.87	158.83	
14	158.92	159.05	159.10	159.22	160.21	160.74	161.71	158.98	158.74	158.86	158.86	158.84	
15	158.92	160.15	159.08	159.44	161.69	160.64	162.49	158.93	158.75	158.87	158.86	158.85	
16	158.92	160.01	159.28	160.61	162.06	160.35	160.97	158.79	158.75	158.88	158.87	158.85	
17	158.92	159.99	160.14	160.40	161.70	160.37	160.48	158.77	158.78	158.88	158.87	158.85	
18	158.92	159.81	159.49	159.78	161.70	160.38	160.10	158.76	158.77	158.88	158.86	158.85	
19	158.92	159.80	159.40	159.46	163.13	160.60	159.80	158.75	158.77	158.88	158.86	158.86	
20	158.92	159.74	159.60	159.39	164.68	160.10	159.61	158.75	158.76	158.89	158.87	158.86	
21	158.92	159.46	159.92	159.79	164.02	160.01	159.52	158.70	158.75	158.90	158.86	158.85	
22	158.93	159.37	159.67	160.18	162.38	160.42	159.47	158.65	158.75	158.94	158.85	158.86	
23	158.95	159.17	159.36	159.79	161.22	160.21	159.40	158.57	158.75	158.91	158.85	158.87	
24	158.95	159.04	159.22	159.92	160.97	160.04	159.38	158.53	158.76	158.90	158.84	158.87	
25	158.95	158.82	159.33	159.92	161.18	159.94	159.30	158.53	158.74	158.89	158.85	158.86	
26	158.95	158.67	159.31	160.18	160.48	159.82	159.28	158.52	158.73	158.86	158.85	158.86	
27	158.95	158.65	159.21	159.76	160.31	159.79	159.23	158.53	158.79	158.86	158.86	158.86	
28	158.95	158.65	159.13	159									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.40	5.25	8.25	29.60	101.44	36.68	22.04	12.36	6.00	6.90	7.05	6.75		
2	5.40	5.40	8.40	113.00	142.40	51.68	34.64	11.40	4.95	6.90	6.90	6.90		
3	5.55	6.90	11.56	43.88	93.76	62.80	98.24	10.28	4.80	6.90	6.90	6.60		
4	5.55	9.64	15.24	26.54	71.76	75.68	66.44	10.44	7.35	6.90	7.05	6.75		
5	5.55	12.20	13.80	19.16	44.60	84.08	41.24	10.44	7.35	6.90	6.90	6.60		
6	6.30	13.00	17.18	15.56	33.56	70.36	32.48	10.28	6.15	6.75	6.90	6.60		
7	6.30	9.48	20.24	13.80	43.88	51.42	27.98	10.28	5.55	7.05	6.75	6.60		
8	6.30	13.96	14.60	12.52	58.44	52.20	24.56	10.12	5.25	7.35	6.90	6.60		
9	6.45	9.96	14.28	12.20	40.04	57.92	22.58	9.80	5.25	7.20	7.05	6.60		
10	6.75	9.16	15.56	12.20	31.94	53.24	22.22	9.64	4.95	6.90	7.05	6.75		
11	7.05	9.00	12.84	12.04	34.46	39.56	20.06	9.32	4.50	6.90	6.90	6.60		
12	7.80	9.00	11.24	11.24	33.20	40.04	18.80	9.16	4.50	6.75	7.05	6.45		
13	7.80	9.00	10.44	11.56	24.56	42.44	17.18	9.16	5.40	6.90	7.05	6.45		
14	7.80	9.80	10.60	12.52	29.78	40.76	65.88	8.70	5.10	6.90	6.90	6.60		
15	7.80	28.70	10.28	16.04	65.32	38.36	87.72	7.95	5.25	7.05	6.90	6.75		
16	7.80	26.18	13.48	37.64	75.68	32.30	46.28	5.85	5.25	7.20	7.05	6.75		
17	7.80	25.82	28.52	33.20	65.60	32.66	34.64	5.55	5.70	7.20	7.05	6.75		
18	7.80	22.58	16.84	22.04	65.60	32.84	27.80	5.40	5.55	7.20	6.90	6.75		
19	7.80	22.40	15.40	16.36	109.20	37.40	22.40	5.25	5.55	7.20	6.90	6.90		
20	7.80	21.32	18.80	15.24	215.00	27.80	18.98	5.25	5.40	7.35	7.05	6.90		
21	7.80	16.36	24.56	22.22	159.40	26.18	17.36	4.50	5.25	7.50	6.90	6.75		
22	7.95	14.92	20.06	29.24	84.64	33.56	16.52	3.75	5.25	8.10	6.75	6.90		
23	8.25	11.72	14.76	22.22	52.72	29.78	15.40	2.55	5.25	7.65	6.75	7.05		
24	8.25	9.64	12.52	24.56	46.28	26.72	15.08	1.95	5.40	7.50	6.60	7.05		
25	8.25	6.30	14.28	24.56	51.68	24.92	13.80	1.95	5.10	7.35	6.75	6.90		
26	8.25	4.05	13.96	29.24	34.64	22.76	13.48	1.80	4.95	6.90	6.75	6.90		
27	8.25	3.75	12.36	21.68	31.58	22.22	12.68	1.95	5.85	6.90	6.90	6.90		
28	8.25	3.75	11.08	17.18	35.96	22.76	12.52	5.55	7.05	7.05	6.90	6.90		
29	9.16	3.75	10.60	15.88	31.40	23.30	12.52	7.80	7.05	7.05	6.90	6.90		
30	4.80	2.70	10.76	25.28	35.72	22.94	12.52	7.95	7.05	7.20		6.90		
31		0.90		101.76	33.20		12.36		7.05	7.20		6.90		
Total	216.01	356.59	432.49	820.16	1977.44	1215.36	906.40	216.38	175.05	220.80	200.40	209.70	6946.78	CMSDAY
Mean	7.20	11.50	14.42	26.46	63.79	40.51	29.24	7.21	5.65	7.12	6.91	6.76	18.98	CMS
Max	9.16	28.70	28.52	113.00	215.00	84.08	98.24	12.36	7.35	8.10	7.05	7.05	215.00	CMS
Min	4.80	0.90	8.25	11.24	24.56	22.22	12.36	1.80	4.50	6.75	6.60	6.45	0.90	CMS
Runoff	18.66	30.81	37.37	70.86	170.85	105.01	78.31	18.70	15.12	19.08	17.32	18.12	600.20	MCM
Momentary Peak	224.04 CMS. at 164.77 m. (MSL.) at 12.00 Hours , on Aug 20 , 2011													
Runoff Yield	22.04	Liters/Second/Square KM.			Momentary Peak Yield			260.163	Liters/Second/Square KM.					

WATER YEAR : 2011

KHONG RIVER BASIN

Huai Chanot at Ban Don Sawan , Nakhon Phanom (Kh.91)

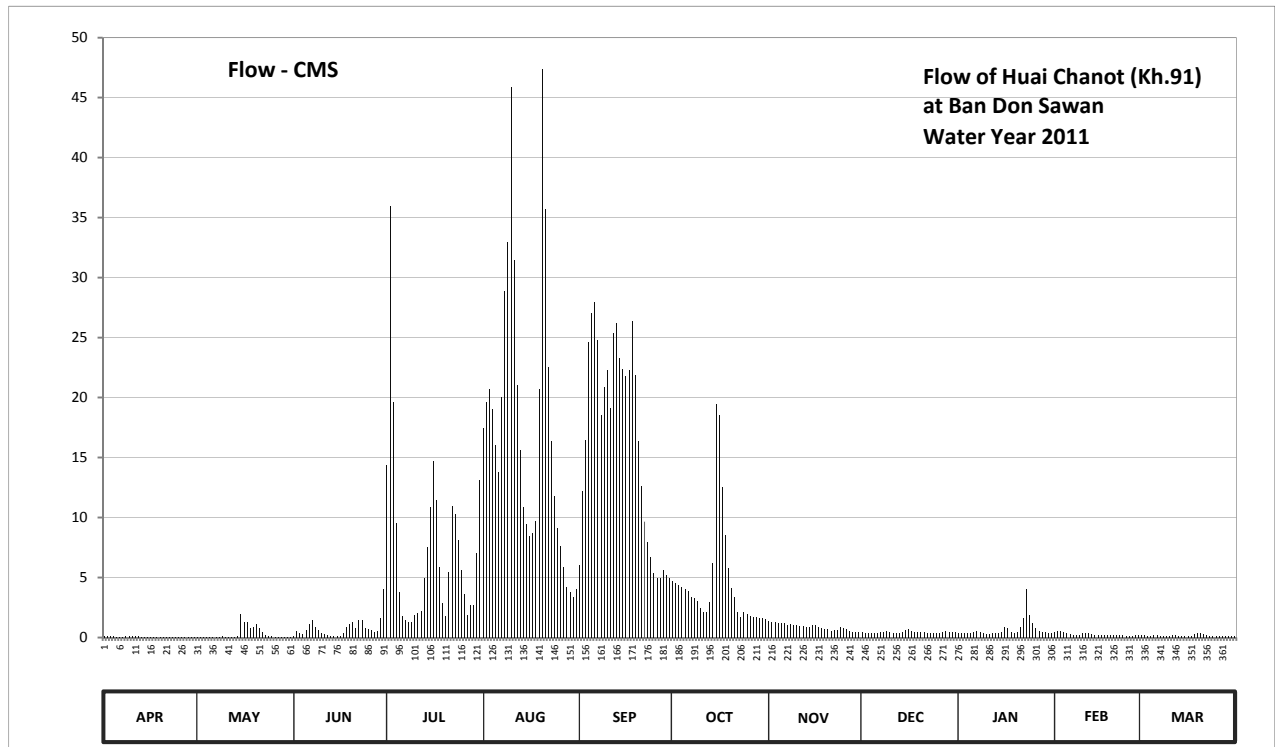
Lat 16 - 47 - 48 N Long 104 - 39 - 45 E

Location : on left bank at the bridge on highway.

	Ban	Don Sawan	Amphoe	That Phanom	Changwat	Nakhon Phanom
Drainage Area	172	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+149.000	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On left bank at the footpath of the bridge.				Elevation	+159.228 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +153.370 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	150.02	149.88	149.98	152.65	152.98	151.51	151.28	150.51	150.21	150.19	150.21	150.08	
2	150.00	149.86	150.24	154.25	153.20	152.39	151.24	150.49	150.20	150.18	150.25	150.07	
3	149.98	149.86	150.19	153.20	153.31	152.88	151.21	150.49	150.20	150.18	150.24	150.05	
4	149.98	149.86	150.16	152.06	153.14	153.67	151.18	150.48	150.20	150.18	150.21	150.05	
5	149.96	149.85	150.28	151.10	152.84	153.82	151.14	150.47	150.20	150.19	150.18	150.10	
6	149.94	149.85	150.43	150.66	152.59	153.87	151.11	150.46	150.20	150.22	150.14	150.10	
7	149.93	149.85	150.55	150.54	153.24	153.68	151.02	150.41	150.21	150.24	150.10	150.05	
8	150.00	149.87	150.35	150.50	153.92	153.09	150.99	150.43	150.23	150.22	150.08	150.05	
9	150.05	150.00	150.26	150.50	154.12	153.33	150.95	150.42	150.24	150.18	150.09	150.05	
10	150.05	149.92	150.17	150.70	154.63	153.47	150.83	150.40	150.21	150.15	150.17	150.05	
11	150.04	149.90	150.16	150.73	154.05	153.15	150.76	150.39	150.20	150.15	150.19	150.07	
12	149.97	149.88	150.07	150.78	153.34	153.72	150.75	150.38	150.19	150.17	150.19	150.10	
13	149.94	149.89	150.00	151.32	152.79	153.77	150.93	150.36	150.18	150.17	150.16	150.03	
14	149.92	149.97	150.00	151.76	152.22	153.56	151.54	150.35	150.21	150.18	150.12	150.00	
15	149.90	150.71	150.00	152.22	152.05	153.48	153.18	150.40	150.26	150.23	150.09	150.00	
16	149.87	150.50	150.01	152.69	151.91	153.42	153.09	150.40	150.30	150.37	150.10	150.00	
17	149.86	150.50	150.20	152.30	151.95	153.47	152.43	150.36	150.25	150.32	150.10	150.01	
18	149.86	150.34	150.36	151.48	152.08	153.78	151.92	150.33	150.21	150.23	150.10	150.15	
19	149.89	150.35	150.45	150.92	153.31	153.43	151.47	150.29	150.23	150.20	150.09	150.19	
20	149.90	150.44	150.50	150.66	154.68	152.87	151.16	150.29	150.21	150.22	150.09	150.17	
21	149.89	150.34	150.32	151.41	154.24	152.44	151.02	150.25	150.21	150.37	150.08	150.14	
22	149.89	150.22	150.55	152.23	153.49	152.07	150.75	150.27	150.20	150.61	150.08	150.10	
23	149.88	150.12	150.55	152.15	152.87	151.83	150.62	150.28	150.20	151.14	150.07	150.01	
24	149.90	150.04	150.33	151.85	152.34	151.61	150.76	150.35	150.18	150.70	150.05	150.00	
25	149.90	149.99	150.29	151.44	152.00	151.40	150.72	150.34	150.18	150.46	150.05	149.99	
26	149.89	149.95	150.28	151.07	151.77	151.32	150.66	150.29	150.19	150.33	150.05	150.00	
27	149.88	149.91	150.22	150.69	151.48	151.32	150.63	150.25	150.21	150.25	150.08	150.00	
28	149.88	149.90	150.24	150									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.12	0.04	0.09	14.35	17.40	6.06	4.70	1.33	0.43	0.38	0.43	0.18		
2	0.10	0.03	0.52	35.95	19.60	12.22	4.50	1.27	0.40	0.36	0.55	0.17		
3	0.09	0.03	0.38	19.60	20.70	16.42	4.35	1.27	0.40	0.36	0.52	0.15		
4	0.09	0.03	0.32	9.58	19.00	24.64	4.20	1.24	0.40	0.36	0.43	0.15		
5	0.08	0.03	0.64	3.80	16.06	27.06	4.00	1.21	0.40	0.38	0.36	0.20		
6	0.07	0.03	1.09	1.78	13.82	27.96	3.85	1.18	0.40	0.46	0.28	0.20		
7	0.06	0.03	1.45	1.42	20.00	24.76	3.40	1.03	0.43	0.52	0.20	0.15		
8	0.10	0.03	0.85	1.30	28.88	18.50	3.25	1.09	0.49	0.46	0.18	0.15		
9	0.15	0.10	0.58	1.30	32.96	20.90	3.05	1.06	0.52	0.36	0.19	0.15		
10	0.15	0.06	0.34	1.90	45.90	22.30	2.45	1.00	0.43	0.30	0.34	0.15		
11	0.14	0.05	0.32	2.02	31.45	19.10	2.14	0.97	0.40	0.30	0.38	0.17		
12	0.09	0.04	0.17	2.22	21.00	25.34	2.10	0.94	0.38	0.34	0.38	0.20		
13	0.07	0.04	0.10	4.92	15.61	26.19	2.95	0.88	0.36	0.34	0.32	0.13		
14	0.06	0.09	0.10	7.56	10.86	23.32	6.24	0.85	0.43	0.36	0.24	0.10		
15	0.05	1.94	0.10	10.86	9.50	22.40	19.40	1.00	0.58	0.49	0.19	0.10		
16	0.03	1.30	0.11	14.71	8.47	21.80	18.50	1.00	0.70	0.91	0.20	0.10		
17	0.03	1.30	0.40	11.50	8.75	22.30	12.54	0.88	0.55	0.76	0.20	0.11		
18	0.03	0.82	0.88	5.88	9.74	26.36	8.54	0.79	0.43	0.49	0.20	0.30		
19	0.04	0.85	1.15	2.90	20.70	21.90	5.82	0.67	0.49	0.40	0.19	0.38		
20	0.05	1.12	1.30	1.78	47.40	16.33	4.10	0.67	0.43	0.46	0.19	0.34		
21	0.04	0.82	0.76	5.46	35.72	12.62	3.40	0.55	0.43	0.91	0.18	0.28		
22	0.04	0.46	1.45	10.94	22.50	9.66	2.10	0.61	0.40	1.63	0.18	0.20		
23	0.04	0.24	1.45	10.30	16.33	7.98	1.66	0.64	0.40	4.00	0.17	0.11		
24	0.05	0.14	0.79	8.10	11.82	6.66	2.14	0.85	0.36	1.90	0.15	0.10		
25	0.05	0.10	0.67	5.64	9.10	5.40	1.98	0.82	0.36	1.18	0.15	0.10		
26	0.04	0.07	0.64	3.65	7.62	4.92	1.78	0.67	0.38	0.79	0.15	0.10		
27	0.04	0.06	0.46	1.87	5.88	4.92	1.69	0.55	0.43	0.55	0.18	0.10		
28	0.04	0.05	0.52	2.70	4.20	5.64	1.66	0.43	0.55	0.49	0.18	0.09		
29	0.04	0.05	1.60	2.70	3.80	5.22	1.60	0.43	0.46	0.43	0.18	0.09		
30	0.04	0.04	4.05	7.02	3.40	4.98	1.60	0.43	0.43	0.36		0.09		
31		0.03		13.10	4.05		1.51		0.43	0.34		0.09		
Total	2.02	10.02	23.28	226.81	542.22	493.86	141.20	26.31	13.68	21.37	7.49	4.93	1513.19	CMSDAY
Mean	0.07	0.32	0.78	7.32	17.49	16.46	4.55	0.88	0.44	0.69	0.26	0.16	4.13	CMS
Max	0.15	1.94	4.05	35.95	47.40	27.96	19.40	1.33	0.70	4.00	0.55	0.38	47.40	CMS
Min	0.03	0.03	0.09	1.30	3.40	4.92	1.51	0.43	0.36	0.30	0.15	0.09	0.03	CMS
Runoff	0.18	0.87	2.01	19.60	46.85	42.67	12.20	2.27	1.18	1.85	0.65	0.43	130.74	MCM
Momentary Peak	48.40	CMS. at 154.71 m. (MSL.) at 09.00 Hours , on Aug 20 , 2011												
Runoff Yield	24.04	Liters/Second/Square KM.			Momentary Peak Yield		281.395	Liters/Second/Square KM.						

WATER YEAR : 2011

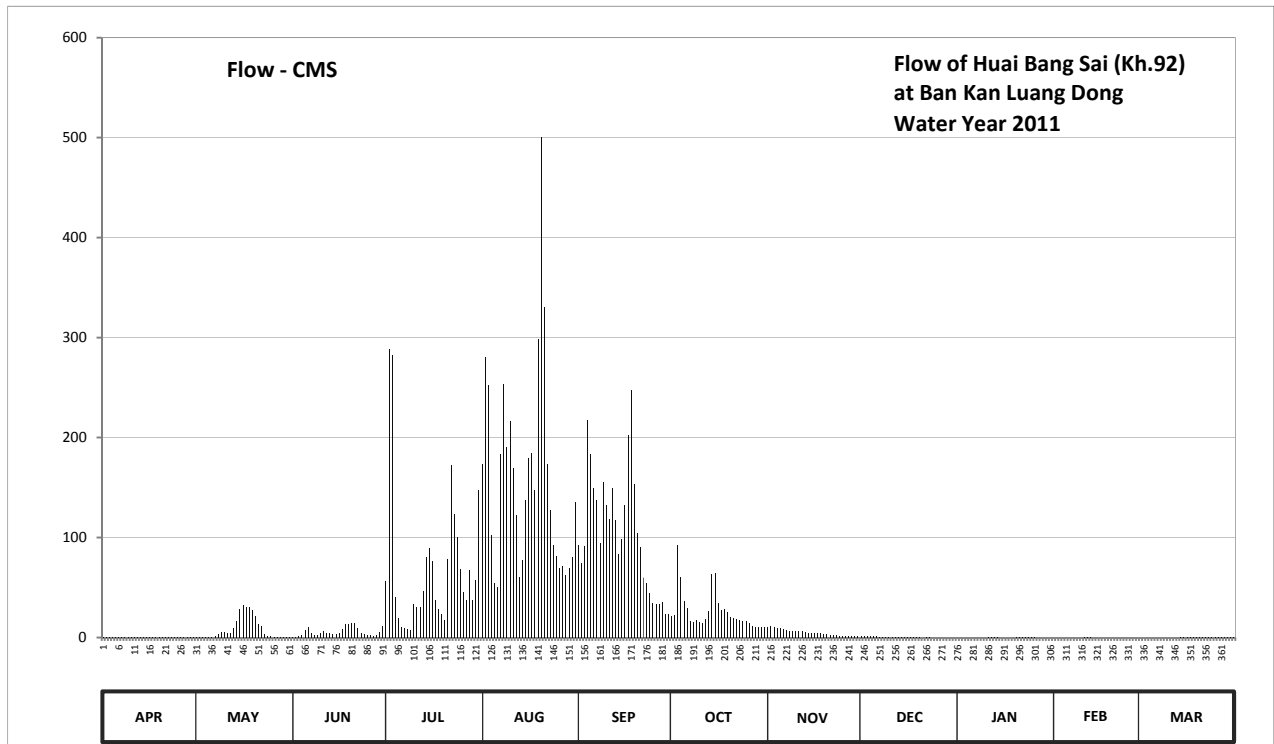
KHONG RIVER BASIN

Huai Bang Sai at Ban Kan Luang Dong , Muk Dahan (Kh.92)

Lat 16 - 44 - 06 N Long 104 - 31 - 23 E

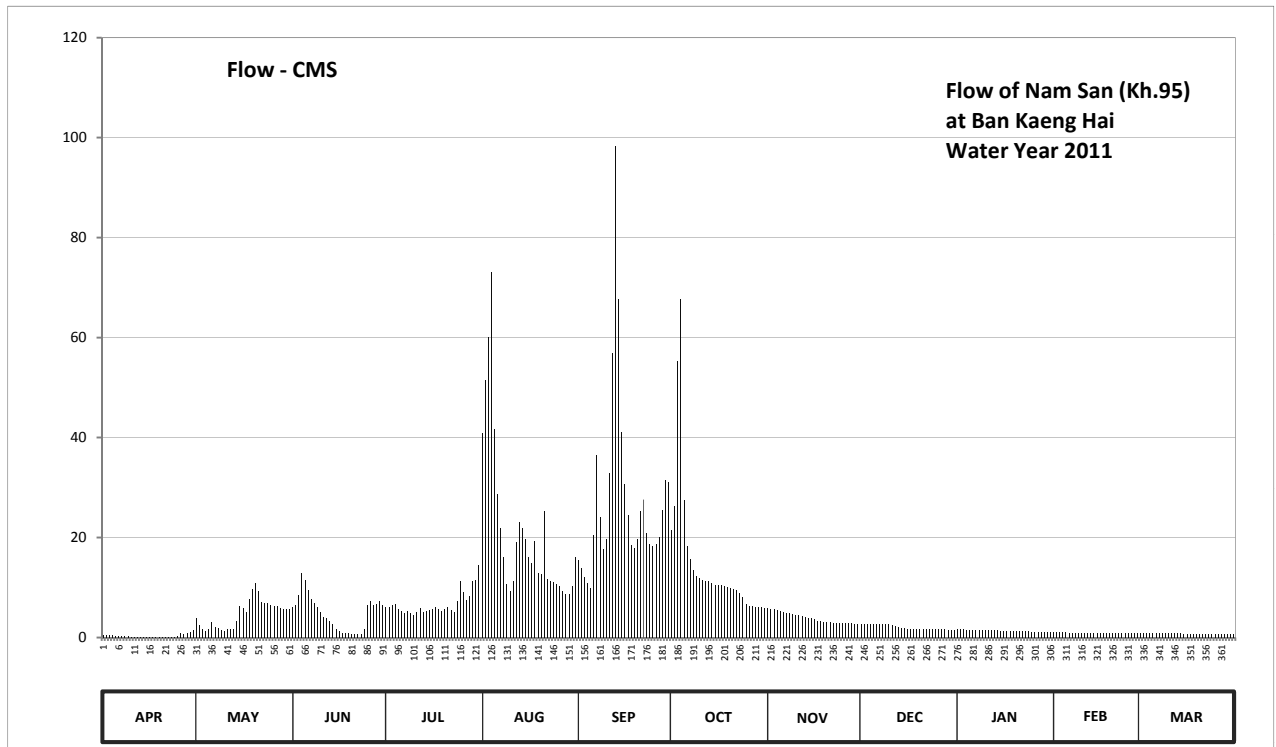
Location : on left bank at the bridge on highway.

[illegible]



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.50	0.50	0.50	56.86	173.10	92.28	21.52	10.80	1.40	0.00	0.00	0.00		
2	0.50	0.50	0.90	288.00	280.08	74.58	22.36	11.20	1.40	0.00	0.00	0.00		
3	0.50	0.50	1.00	282.24	252.50	91.80	92.76	10.40	1.20	0.00	0.00	0.00		
4	0.50	0.70	2.00	40.28	102.36	217.32	60.22	9.80	1.30	0.00	0.00	0.00		
5	0.50	0.70	7.20	19.00	54.34	183.02	36.20	9.60	1.00	0.00	0.00	0.00		
6	0.50	0.90	10.40	10.80	50.56	149.60	29.74	8.80	1.20	0.00	0.00	0.00		
7	0.50	1.50	4.80	9.20	183.02	137.68	16.48	7.80	0.90	0.00	0.00	0.00		
8	0.50	3.80	2.80	8.20	253.90	94.68	15.36	6.80	0.90	0.00	0.00	0.00		
9	0.50	5.20	2.00	7.40	190.46	155.60	17.04	6.40	0.90	0.00	0.00	0.00		
10	0.50	5.80	4.20	33.82	216.64	133.04	15.36	6.40	0.90	0.00	0.00	0.00		
11	0.50	4.80	6.40	30.76	169.40	118.54	14.80	6.80	0.70	0.40	0.20	0.00		
12	0.50	5.00	4.80	30.08	122.02	149.00	18.72	6.00	0.70	0.40	0.20	0.00		
13	0.50	9.60	4.20	46.36	60.64	117.38	26.00	5.60	0.70	0.20	0.20	0.00		
14	0.50	16.20	3.80	80.56	77.80	83.32	63.58	5.00	0.70	0.20	0.00	0.20		
15	0.50	28.04	3.80	89.40	137.10	98.52	64.46	4.80	0.40	0.00	0.00	0.40		
16	0.50	32.12	4.60	76.88	179.30	133.04	34.50	4.60	0.40	0.00	0.00	0.70		
17	0.50	30.76	8.00	37.22	184.26	202.36	27.02	4.40	0.40	0.00	0.00	0.70		
18	0.50	30.08	13.96	28.38	147.80	246.90	28.72	4.40	0.20	0.00	0.00	0.40		
19	0.50	27.02	13.40	23.76	298.80	153.20	25.16	3.80	0.20	0.00	0.00	0.40		
20	0.50	21.24	14.24	17.60	500.14	104.28	20.96	3.40	0.20	0.20	0.00	0.40		
21	0.50	13.68	14.80	78.72	330.36	90.36	19.84	2.80	0.00	0.40	0.00	0.70		
22	0.50	11.00	9.20	171.86	173.72	59.80	18.16	2.80	0.20	0.40	0.00	0.70		
23	0.60	3.40	4.80	123.76	127.24	54.76	17.04	2.60	0.50	0.40	0.00	0.70		
24	0.60	1.40	3.00	100.44	92.76	44.26	16.48	1.90	0.00	0.40	0.00	0.40		
25	0.60	1.00	2.40	68.60	81.48	34.50	16.48	1.90	0.00	0.20	0.00	0.40		
26	0.60	0.70	2.40	45.52	69.52	33.14	14.80	1.70	0.00	0.20	0.00	0.40		
27	0.60	0.70	1.90	37.90	71.36	33.82	11.80	1.70	0.00	0.00	0.00	0.40		
28	0.60	0.70	2.20	67.68	62.32	35.86	10.80	1.70	0.00	0.00	0.00	0.40		
29	0.60	0.40	5.20	37.22	69.98	23.76	10.80	1.40	0.00	0.00	0.00	0.40		
30	0.60	0.40	11.20	57.70	81.02	23.76	10.80	1.40	0.00	0.00		0.40		
31		0.40		147.80	135.36		10.40		0.00	0.00		0.40		
Total	15.80	258.74	170.10	2154.00	4929.34	3170.16	808.36	156.70	16.40	3.40	0.60	8.50	11692.10	CMSDAY
Mean	0.53	8.35	5.67	69.48	159.01	105.67	26.08	5.22	0.53	0.11	0.02	0.27	31.95	CMS
Max	0.60	32.12	14.80	288.00	500.14	246.90	92.76	11.20	1.40	0.40	0.20	0.70	500.14	CMS
Min	0.50	0.40	0.50	7.40	50.56	23.76	10.40	1.40	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	1.37	22.36	14.70	186.11	425.90	273.90	69.84	13.54	1.42	0.29	0.05	0.73	1010.20	MCM
Momentary Peak	522.58	CMS. at 157.29 m. (MSL.) at 08.00 Hours , on Aug 20 , 2011												
Runoff Yield	28.55	Liters/Second/Square KM.			Momentary Peak Yield		467.006	Liters/Second/Square KM.						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.54	3.95	6.05	6.10	40.90	15.59	21.40	5.85	2.75	1.58	1.08	0.88		
2	0.48	2.55	6.60	6.10	51.50	13.98	26.20	5.75	2.75	1.58	1.06	0.86		
3	0.44	1.64	8.45	6.45	60.00	12.05	55.30	5.60	2.75	1.61	1.04	0.86		
4	0.40	1.28	12.85	6.65	73.00	10.80	67.60	5.45	2.70	1.55	1.04	0.84		
5	0.36	1.70	11.55	5.60	41.65	9.95	27.50	5.30	2.70	1.52	1.02	0.84		
6	0.32	3.15	9.45	5.20	28.60	20.59	18.34	5.15	2.70	1.52	1.00	0.82		
7	0.28	2.10	7.60	5.00	21.85	36.55	15.66	5.00	2.70	1.49	0.98	0.82		
8	0.24	1.88	6.85	5.20	16.08	24.10	13.49	4.85	2.65	1.49	0.96	0.82		
9	0.20	1.46	6.05	5.00	10.70	17.70	12.30	4.70	2.65	1.46	0.96	0.80		
10	0.18	1.36	5.10	4.50	9.35	19.78	11.90	4.55	2.65	1.46	0.94	0.80		
11	0.17	1.76	4.20	5.05	11.30	32.86	11.55	4.40	2.55	1.43	0.94	0.80		
12	0.17	1.79	3.95	5.85	19.14	56.80	11.40	4.25	2.30	1.43	0.94	0.78		
13	0.17	1.64	3.30	5.15	23.02	98.40	11.25	4.10	2.00	1.40	0.92	0.78		
14	0.16	3.40	2.70	5.35	21.85	67.60	10.95	3.95	1.85	1.40	0.92	0.78		
15	0.16	6.30	1.76	5.55	19.62	41.05	10.60	3.80	1.82	1.38	0.92	0.76		
16	0.16	5.85	1.26	5.75	16.01	30.66	10.60	3.60	1.79	1.36	0.92	0.76		
17	0.15	5.15	1.00	6.15	14.82	24.55	10.55	3.40	1.79	1.34	0.92	0.74		
18	0.15	7.65	0.86	5.80	19.30	18.50	10.35	3.25	1.76	1.32	0.90	0.74		
19	0.14	9.60	0.80	5.25	12.95	17.94	10.15	3.15	1.76	1.30	0.90	0.74		
20	0.13	10.95	0.70	5.60	12.60	19.62	9.95	3.05	1.73	1.28	0.90	0.72		
21	0.13	9.25	0.72	6.00	25.30	25.30	9.75	3.00	1.70	1.26	0.90	0.72		
22	0.14	7.05	0.74	5.55	11.75	27.60	9.55	2.95	1.67	1.24	0.90	0.70		
23	0.14	6.85	0.74	5.15	11.25	20.95	9.00	2.90	1.64	1.22	0.90	0.70		
24	0.15	6.90	1.79	7.20	11.00	18.74	8.15	2.85	1.61	1.20	0.88	0.68		
25	0.38	6.55	6.55	11.20	10.65	18.34	6.70	2.85	1.61	1.18	0.88	0.68		
26	0.82	6.35	7.40	9.15	10.30	18.66	6.30	2.85	1.58	1.14	0.88	0.68		
27	0.76	6.20	6.40	7.50	9.35	20.02	6.20	2.80	1.58	1.12	0.88	0.66		
28	0.88	5.95	6.70	8.30	8.65	25.50	6.15	2.80	1.58	1.12	0.88	0.66		
29	1.06	5.65	7.20	11.20	8.65	31.54	6.10	2.75	1.55	1.12	0.88	0.64		
30	1.40	5.65	6.45	11.45	10.35	30.99	6.00	2.75	1.55	1.10		0.62		
31		5.65		14.54	16.08		5.95		1.55	1.08		0.60		
Total	10.86	147.21	145.77	208.54	657.57	826.71	456.89	117.65	63.97	41.68	27.24	23.28	2727.37	CMSDAY
Mean	0.36	4.75	4.86	6.73	21.21	27.56	14.74	3.92	2.06	1.34	0.94	0.75	7.45	CMS
Max	1.40	10.95	12.85	14.54	73.00	98.40	67.60	5.85	2.75	1.61	1.08	0.88	98.40	CMS
Min	0.13	1.28	0.70	4.50	8.65	9.95	5.95	2.75	1.55	1.08	0.88	0.60	0.13	CMS
Runoff	0.94	12.72	12.60	18.02	56.81	71.43	39.48	10.17	5.53	3.60	2.35	2.01	235.65	MCM
Momentary Peak	CMS. at 602.36 m. (MSL.) at 16.00 Hours , on Sep 13 , 2011													
Runoff Yield	21.17	Liters/Second/Square KM.			Momentary Peak Yield			308.523	Liters/Second/Square KM.					

WATER YEAR : 2011

KHONG RIVER BASIN

Huai Bang Sai at Ban Bang Sai , Mukdahan (Kh.99A)

Lat 16 - 42 - 05 N Long 104 - 14 - 46 E

Location : on right bank at Ban Bang Sa

Ban Bang Sai **Amphoe** Dong Luang **Changwat** Mukdahan

Drainage Area	115	sq.km
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Type of Gage	Staff gage
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Zero Gage at Bottom	+248.500	m. (MSL.)
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Bench Mark B.M.- H.D

Location BM On right bank near the gage site

Elevation +255.082 m. (MSL.)

Gage Reading Frequency 3-time daily readings at 06.00, 12.00 and 18.00 hours

Basis of Mean Daily Gage Height Arithmetic means of 3 readings

Period of Available Gage Records 2005 to date

Rating Operation

Period of Rating 2005 to date

Rated by Flot

Rated by Current Meter 2005 to date

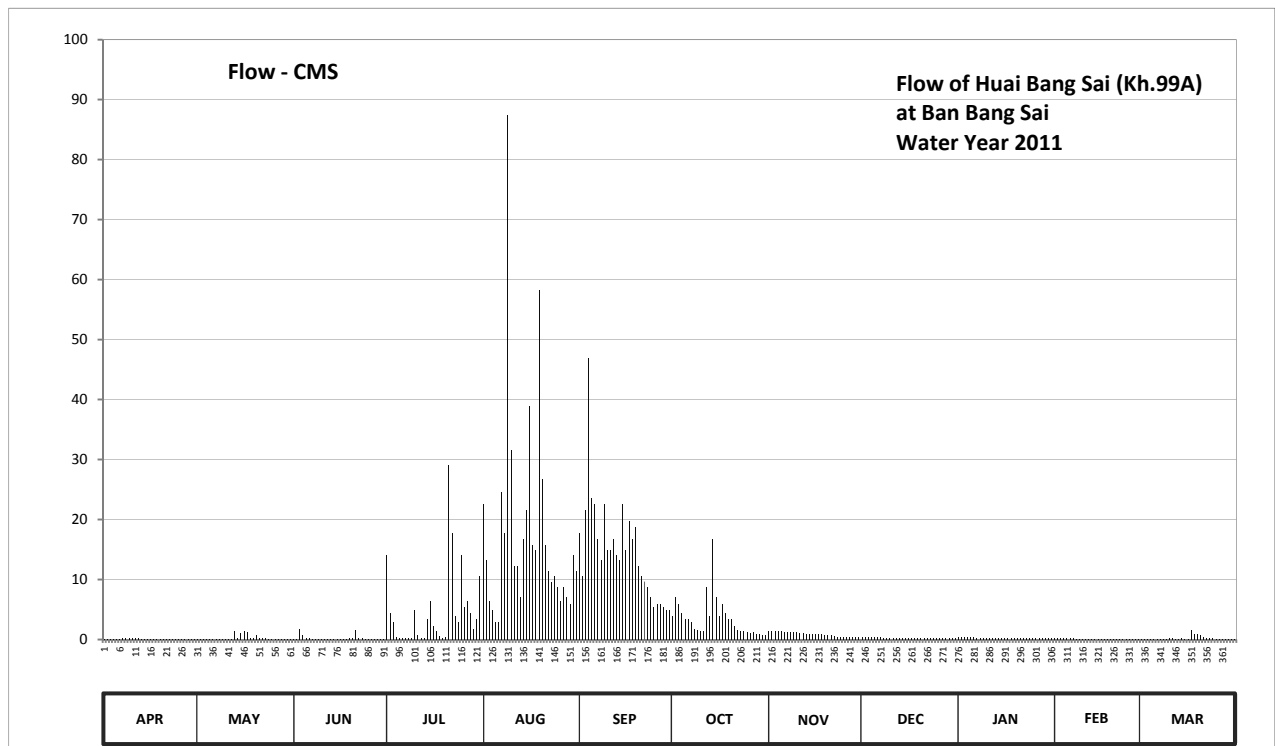
Stability of Channel Regimes	Fairly stable
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Overbank Flow Conditions No overbank flow

General Description	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2011
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Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	250.80	250.79	250.82	251.18	251.27	251.22	251.04	250.98	250.91	250.91	250.85	250.83	
2	250.80	250.79	250.82	251.05	251.17	251.14	251.10	250.97	250.91	250.91	250.85	250.83	
3	250.80	250.79	251.00	251.02	251.09	251.26	251.08	250.97	250.91	250.91	250.85	250.83	
4	250.80	250.79	250.93	250.91	251.06	251.47	251.05	250.97	250.91	250.91	250.85	250.83	
5	250.80	250.79	250.86	250.87	251.02	251.28	251.03	250.97	250.91	250.91	250.85	250.83	
6	250.81	250.79	250.85	250.86	251.02	251.27	251.03	250.96	250.91	250.91	250.85	250.83	
7	250.90	250.79	250.84	250.86	251.29	251.21	251.02	250.96	250.91	250.89	250.85	250.83	
8	250.89	250.79	250.83	250.85	251.22	251.17	251.00	250.96	250.89	250.89	250.84	250.83	
9	250.88	250.79	250.82	250.85	251.74	251.27	250.99	250.96	250.89	250.89	250.84	250.84	
10	250.87	250.79	250.82	251.06	251.35	251.19	250.98	250.96	250.89	250.88	250.84	250.85	
11	250.86	250.79	250.81	250.93	251.16	251.19	250.97	250.95	250.88	250.88	250.84	250.85	
12	250.85	250.81	250.80	250.89	251.16	251.21	251.12	250.95	250.88	250.88	250.84	250.84	
13	250.84	250.97	250.80	250.90	251.10	251.18	251.04	250.94	250.88	250.88	250.84	250.83	
14	250.83	250.89	250.79	251.03	251.21	251.17	251.21	250.94	250.88	250.88	250.84	250.85	
15	250.82	250.95	250.79	251.09	251.26	251.27	251.10	250.94	250.88	250.88	250.84	250.82	
16	250.81	250.97	250.81	251.01	251.41	251.19	251.04	250.94	250.88	250.88	250.84	250.84	
17	250.80	250.96	250.83	250.97	251.20	251.24	251.08	250.94	250.88	250.88	250.84	250.99	
18	250.80	250.89	250.81	250.92	251.19	251.21	251.05	250.94	250.88	250.88	250.83	250.94	
19	250.80	250.88	250.86	250.90	251.55	251.23	251.03	250.93	250.88	250.88	250.83	250.94	
20	250.80	250.93	250.90	250.91	251.31	251.16	251.03	250.93	250.88	250.88	250.83	250.93	
21	250.79	250.87	250.99	251.33	251.20	251.14	251.01	250.93	250.88	250.88	250.83	250.91	
22	250.80	250.85	250.89	251.22	251.15	251.13	250.99	250.92	250.88	250.88	250.83	250.86	
23	250.80	250.85	250.86	251.04	251.13	251.12	250.98	250.91	250.88	250.88	250.83	250.85	
24	250.80	250.81	250.84	251.02	251.14	251.10	250.97	250.91	250.88	250.88	250.83	250.85	
25	250.80	250.80	250.84	251.18	251.12	251.07	250.96	250.91	250.88	250.88	250.83	250.84	
26	250.79	250.81	250.83	251.07	251.09	251.08	250.95	250.91	250.88	250.88	250.83	250.83	
27	250.79	250.80	250.83	251.09	251.12	251.08	250.96	250.91	250.88	250.88	250.83	250.83	
28	250.79	250.80	250.82	251									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.04	0.10	14.04	22.59	17.74	3.88	1.50	0.45	0.45	0.18	0.13	
2	0.05	0.04	0.10	4.40	13.16	10.52	7.00	1.35	0.45	0.45	0.18	0.13	
3	0.05	0.04	1.80	2.84	6.48	21.62	5.96	1.35	0.45	0.45	0.18	0.13	
4	0.05	0.04	0.75	0.45	4.92	46.95	4.40	1.35	0.45	0.45	0.18	0.13	
5	0.05	0.04	0.20	0.22	2.84	23.56	3.36	1.35	0.45	0.45	0.18	0.13	
6	0.07	0.04	0.18	0.20	2.84	22.59	3.36	1.20	0.45	0.45	0.18	0.13	
7	0.30	0.04	0.15	0.20	24.53	16.77	2.84	1.20	0.45	0.28	0.18	0.13	
8	0.28	0.04	0.13	0.18	17.74	13.16	1.80	1.20	0.28	0.28	0.15	0.13	
9	0.25	0.04	0.10	0.18	87.40	22.59	1.65	1.20	0.28	0.28	0.15	0.15	
10	0.22	0.04	0.10	4.92	31.50	14.92	1.50	1.20	0.28	0.25	0.15	0.18	
11	0.20	0.04	0.07	0.75	12.28	14.92	1.35	1.05	0.25	0.25	0.15	0.18	
12	0.18	0.07	0.05	0.28	12.28	16.77	8.76	1.05	0.25	0.25	0.15	0.15	
13	0.15	1.35	0.05	0.30	7.00	14.04	3.88	0.90	0.25	0.25	0.15	0.13	
14	0.13	0.28	0.04	3.36	16.77	13.16	16.77	0.90	0.25	0.25	0.15	0.18	
15	0.10	1.05	0.04	6.48	21.62	22.59	7.00	0.90	0.25	0.25	0.15	0.10	
16	0.07	1.35	0.07	2.32	38.85	14.92	3.88	0.90	0.25	0.25	0.15	0.15	
17	0.05	1.20	0.13	1.35	15.80	19.68	5.96	0.90	0.25	0.25	0.15	1.65	
18	0.05	0.28	0.07	0.60	14.92	16.77	4.40	0.90	0.25	0.25	0.13	0.90	
19	0.05	0.25	0.20	0.30	58.25	18.71	3.36	0.75	0.25	0.25	0.13	0.90	
20	0.05	0.75	0.30	0.45	26.70	12.28	3.36	0.75	0.25	0.25	0.13	0.75	
21	0.04	0.22	1.65	29.10	15.80	10.52	2.32	0.75	0.25	0.25	0.13	0.45	
22	0.05	0.18	0.28	17.74	11.40	9.64	1.65	0.60	0.25	0.25	0.13	0.20	
23	0.05	0.18	0.20	3.88	9.64	8.76	1.50	0.45	0.25	0.25	0.13	0.18	
24	0.05	0.07	0.15	2.84	10.52	7.00	1.35	0.45	0.25	0.25	0.13	0.18	
25	0.05	0.05	0.15	14.04	8.76	5.44	1.20	0.45	0.25	0.25	0.13	0.15	
26	0.04	0.07	0.13	5.44	6.48	5.96	1.05	0.45	0.25	0.25	0.13	0.13	
27	0.04	0.05	0.13	6.48	8.76	5.96	1.20	0.45	0.25	0.25	0.13	0.13	
28	0.04	0.05	0.10	4.40	7.00	5.44	0.90	0.45	0.25	0.25	0.13	0.13	
29	0.04	0.05	0.10	1.80	5.96	4.92	0.90	0.45	0.25	0.25	0.13	0.13	
30	0.04	0.04	0.10	3.36	14.04	4.92	0.75	0.45	0.25	0.25		0.13	
31		0.04		10.52	11.40		0.75		0.25	0.25		0.13	
Total	2.84	8.02	7.62	143.42	548.23	442.82	108.04	26.85	9.24	9.04	4.32	8.40	1318.84
Mean	0.09	0.26	0.25	4.63	17.68	14.76	3.49	0.90	0.30	0.29	0.15	0.27	3.60
Max	0.30	1.35	1.80	29.10	87.40	46.95	16.77	1.50	0.45	0.45	0.18	1.65	87.40
Min	0.04	0.04	0.04	0.18	2.84	4.92	0.75	0.45	0.25	0.25	0.13	0.10	0.04
Runoff	0.25	0.69	0.66	12.39	47.37	38.26	9.34	2.32	0.80	0.78	0.37	0.73	113.95
Momentary Peak	101.95	CMS. at 251.83 m. (MSL.) at 18.00 Hours , on Aug 9 , 2011											
Runoff Yield	31.33	Liters/Second/Square KM.			Momentary Peak Yield			886.522	Liters/Second/Square KM.				

WATER YEAR : 2011

KHONG RIVER BASIN

Huai Muk at Ban Kaen Tao , Mukdahan (Kh.101)

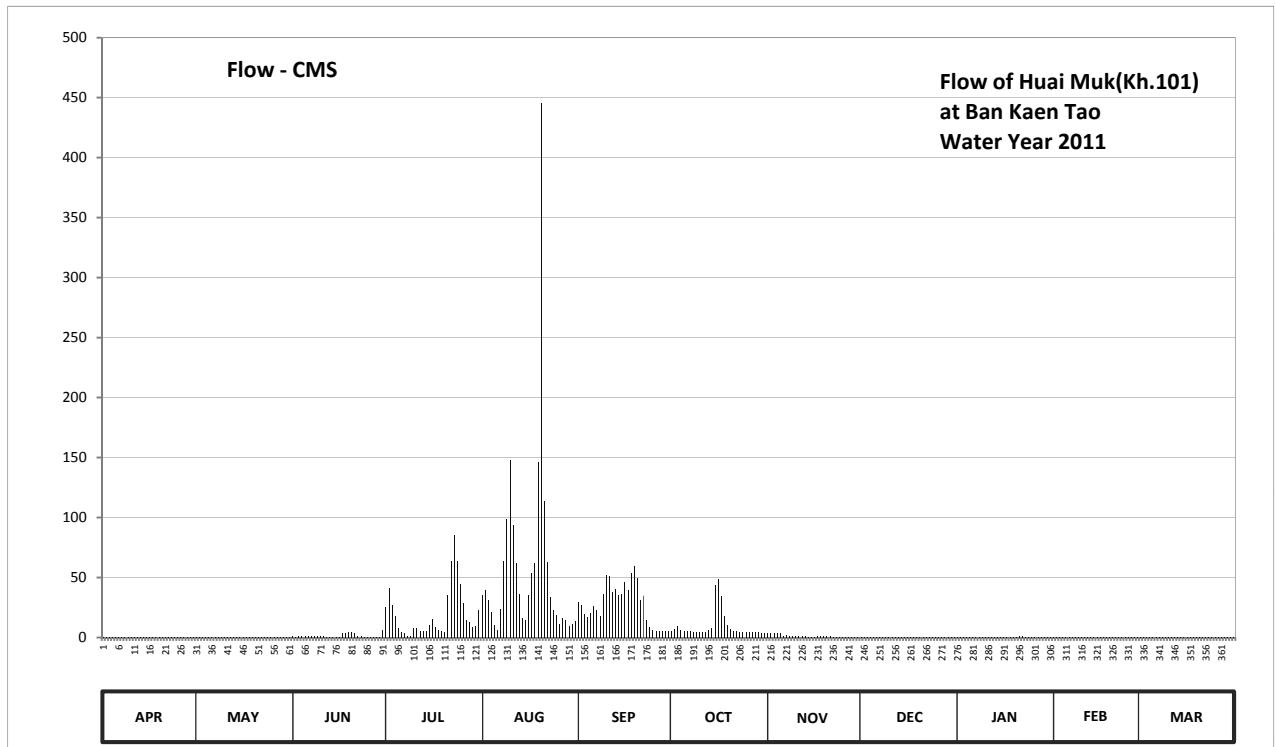
Lat 16 - 35 - 07 N Long 104 - 37 - 13 E

Location : on right bank at the bridge of Amphoe Dong Luang - Muk Dahan Highway.

	Ban	Kaen Tao	Amphoe	Mueang	Changwat	Mukdahan
Drainage Area	414	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+136.900	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On right bank about 1 meter from the top staff gage.				Elevation	+146.237 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings.					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +143.640 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 1911.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.41	137.40	137.81	141.02	141.84	141.35	138.59	138.11	137.70	137.58	137.51	137.51	
2	137.41	137.40	137.75	142.30	142.19	141.20	139.16	138.10	137.69	137.55	137.53	137.52	
3	137.40	137.40	137.86	141.20	141.52	140.49	139.52	138.09	137.67	137.54	137.52	137.51	
4	137.40	137.41	137.83	140.35	140.65	140.25	139.03	138.06	137.66	137.53	137.50	137.47	
5	137.40	137.42	137.82	139.26	139.56	140.57	138.73	138.03	137.67	137.53	137.50	137.45	
6	137.40	137.41	137.95	138.47	138.92	141.10	138.64	137.98	137.66	137.52	137.50	137.45	
7	137.40	137.41	137.90	138.03	140.88	140.82	138.54	137.99	137.67	137.52	137.50	137.45	
8	137.41	137.40	137.84	137.93	143.62	140.36	138.44	137.96	137.67	137.52	137.50	137.45	
9	137.41	137.40	137.84	137.96	144.10	141.93	138.35	137.95	137.65	137.52	137.49	137.45	
10	137.41	137.40	137.78	139.22	144.34	143.05	138.23	137.93	137.64	137.52	137.48	137.48	
11	137.41	137.39	137.91	139.22	144.06	143.03	138.18	137.93	137.64	137.52	137.48	137.49	
12	137.39	137.40	137.66	138.81	143.56	142.07	138.39	137.91	137.64	137.52	137.46	137.48	
13	137.39	137.41	137.53	138.65	141.94	142.27	138.90	137.79	137.63	137.53	137.45	137.51	
14	137.39	137.43	137.50	138.82	140.19	141.86	139.30	137.77	137.63	137.53	137.46	137.51	
15	137.39	137.44	137.63	139.60	140.07	141.91	142.46	137.77	137.64	137.53	137.46	137.51	
16	137.38	137.51	137.61	140.14	141.89	142.63	142.85	137.75	137.63	137.60	137.47	137.51	
17	137.38	137.62	138.05	139.43	143.18	142.20	141.79	137.81	137.63	137.57	137.47	137.52	
18	137.39	137.60	138.05	139.06	143.56	143.17	140.35	137.81	137.63	137.56	137.46	137.66	
19	137.39	137.59	138.52	138.64	144.33	143.49	139.55	137.82	137.62	137.55	137.46	137.63	
20	137.38	137.64	138.27	138.28	145.31	142.88	139.13	137.80	137.62	137.77	137.46	137.64	
21	137.38	137.63	138.11	141.85	144.18	141.51	138.89	137.80	137.61	137.95	137.46	137.64	
22	137.40	137.61	137.96	143.62	143.60	141.83	138.73	137.77	137.60	137.80	137.47	137.62	
23	137.46	137.60	137.80	143.98	141.70	140.02	138.49	137.77	137.58	137.73	137.46	137.61	
24	137.45	137.57	137.70	143.61	140.82	139.39	138.41	137.76	137.56	137.70	137.46	137.58	
25	137.44	137.54	137.65	142.54	140.41	138.95	138.38	137.74	137.56	137.64	137.46	137.56	
26	137.43	137.50	137.65	141.34	139.67	138.69	138.30	137.73	137.56	137.58	137.47	137.54	
27	137.42	137.48	137.66	140.04	140.19	138.65	138.24	137.73	137.56	137.57	137.48	137.53	
28	137.42	137.47	137.59	139									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.11	0.10	0.94	25.24	35.08	29.20	5.10	4.04	0.60	0.36	0.22	0.22		
2	0.11	0.10	0.75	41.20	39.66	27.40	7.12	4.02	0.58	0.30	0.26	0.24		
3	0.10	0.10	1.14	27.40	31.24	19.39	9.68	4.00	0.54	0.28	0.24	0.22		
4	0.10	0.11	1.02	17.85	21.15	16.75	6.21	3.93	0.52	0.26	0.20	0.17		
5	0.10	0.12	0.98	7.82	10.04	20.27	5.41	3.87	0.54	0.26	0.20	0.15		
6	0.10	0.11	1.50	4.83	5.82	26.20	5.21	1.62	0.52	0.24	0.20	0.15		
7	0.10	0.11	1.30	3.87	23.68	23.02	4.99	1.66	0.54	0.24	0.20	0.15		
8	0.11	0.10	1.06	1.42	63.80	17.96	4.77	1.54	0.54	0.24	0.20	0.15		
9	0.11	0.10	1.06	1.54	99.00	36.16	4.57	1.50	0.50	0.24	0.19	0.15		
10	0.11	0.10	0.84	7.54	148.20	51.75	4.31	1.42	0.48	0.24	0.18	0.18		
11	0.11	0.09	1.34	7.54	94.20	51.45	4.20	1.42	0.48	0.24	0.18	0.19		
12	0.09	0.10	0.52	5.58	61.80	37.98	4.66	1.34	0.48	0.24	0.16	0.18		
13	0.09	0.11	0.26	5.23	36.28	40.78	5.78	0.87	0.46	0.26	0.15	0.22		
14	0.09	0.13	0.20	5.60	16.09	35.32	8.10	0.81	0.46	0.26	0.16	0.22		
15	0.09	0.14	0.46	10.40	14.77	35.92	43.44	0.81	0.48	0.26	0.16	0.22		
16	0.08	0.22	0.42	15.54	35.68	45.82	48.90	0.75	0.46	0.40	0.17	0.22		
17	0.08	0.44	3.91	9.01	53.70	39.80	34.48	0.94	0.46	0.34	0.17	0.24		
18	0.09	0.40	3.91	6.42	61.80	53.55	17.85	0.94	0.46	0.32	0.16	0.52		
19	0.09	0.38	4.94	5.21	145.90	59.70	9.95	0.98	0.44	0.30	0.16	0.46		
20	0.08	0.48	4.39	4.42	445.40	49.32	6.91	0.90	0.44	0.81	0.16	0.48		
21	0.08	0.46	4.04	35.20	113.40	31.12	5.76	0.90	0.42	1.50	0.16	0.48		
22	0.10	0.42	1.54	63.80	63.00	34.96	5.41	0.81	0.40	0.90	0.17	0.44		
23	0.16	0.40	0.90	85.40	33.40	14.22	4.88	0.81	0.36	0.69	0.16	0.42		
24	0.15	0.34	0.60	63.40	23.02	8.73	4.70	0.78	0.32	0.60	0.16	0.36		
25	0.14	0.28	0.50	44.56	18.51	5.89	4.64	0.72	0.32	0.48	0.16	0.32		
26	0.13	0.20	0.50	29.08	11.03	5.32	4.46	0.69	0.32	0.36	0.17	0.28		
27	0.12	0.18	0.52	14.44	16.09	5.23	4.33	0.69	0.32	0.34	0.18	0.26		
28	0.12	0.17	0.38	13.10	14.77	5.65	4.28	0.66	0.32	0.30	0.20	0.22		
29	0.11	0.15	0.32	8.52	9.68	5.45	4.20	0.63	0.34	0.26	0.22	0.20		
30	0.10	0.15	5.87	9.77	11.03	5.23	4.13	0.63	0.34	0.26		0.18		
31		0.15		22.91	13.64		4.09		0.36	0.22		0.16		
Total	3.15	6.44	46.11	603.84	1770.86	839.54	292.52	44.68	13.80	12.00	5.30	8.05	3646.29	CMSDAY
Mean														

WATER YEAR : 2011**KHONG RIVER BASIN****Huai Luang at Ban Non Toom , Udon Thani (Kh.103)**

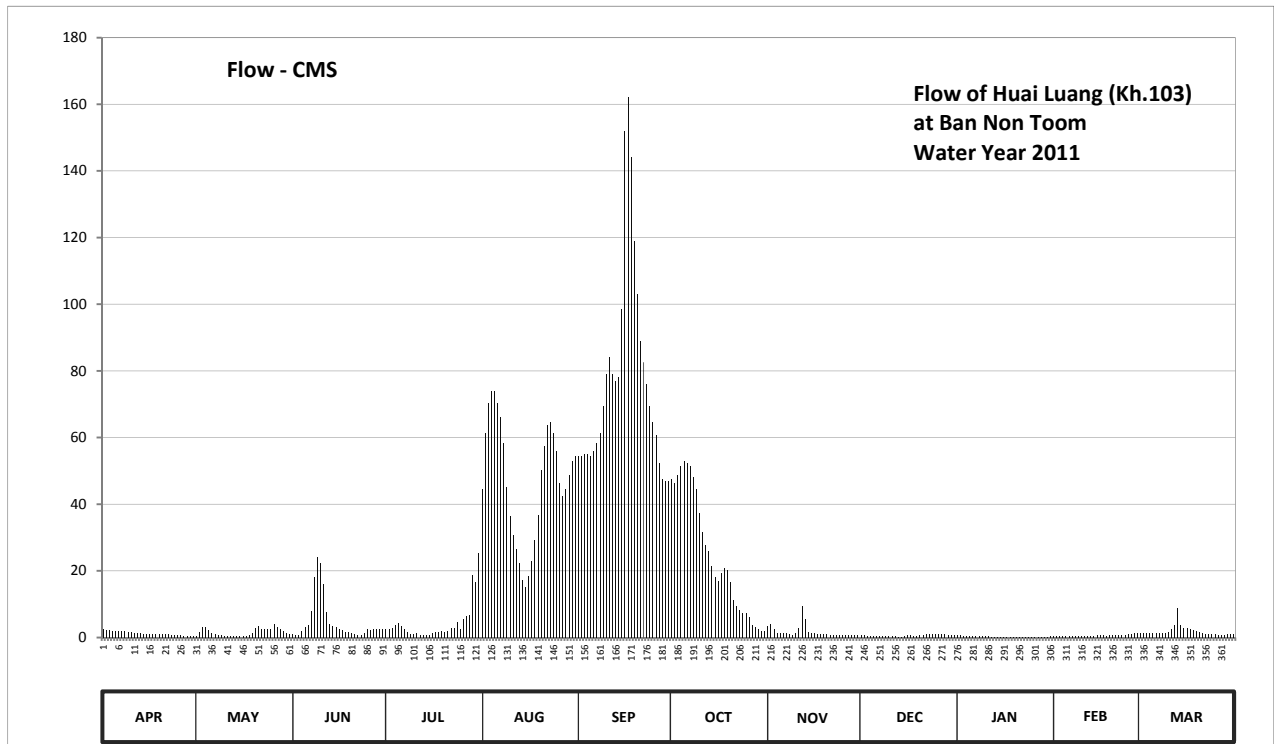
Lat 17 - 28 - 56 N Long 102 - 47 - 49 E

Location : on right bank at the bridge on highway.

	Ban	Non Toom	Amphoe	Mueang	Changwat	Udon Thani
Drainage Area	1,235	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+166.500	m. (MSL.)				
Bench Mark	B.M.- Highways Dept.					
Location BM	On right bank downstream side at the footpath of the bridge.				Elevation	+172.486 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings.					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +170.750 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2011.					

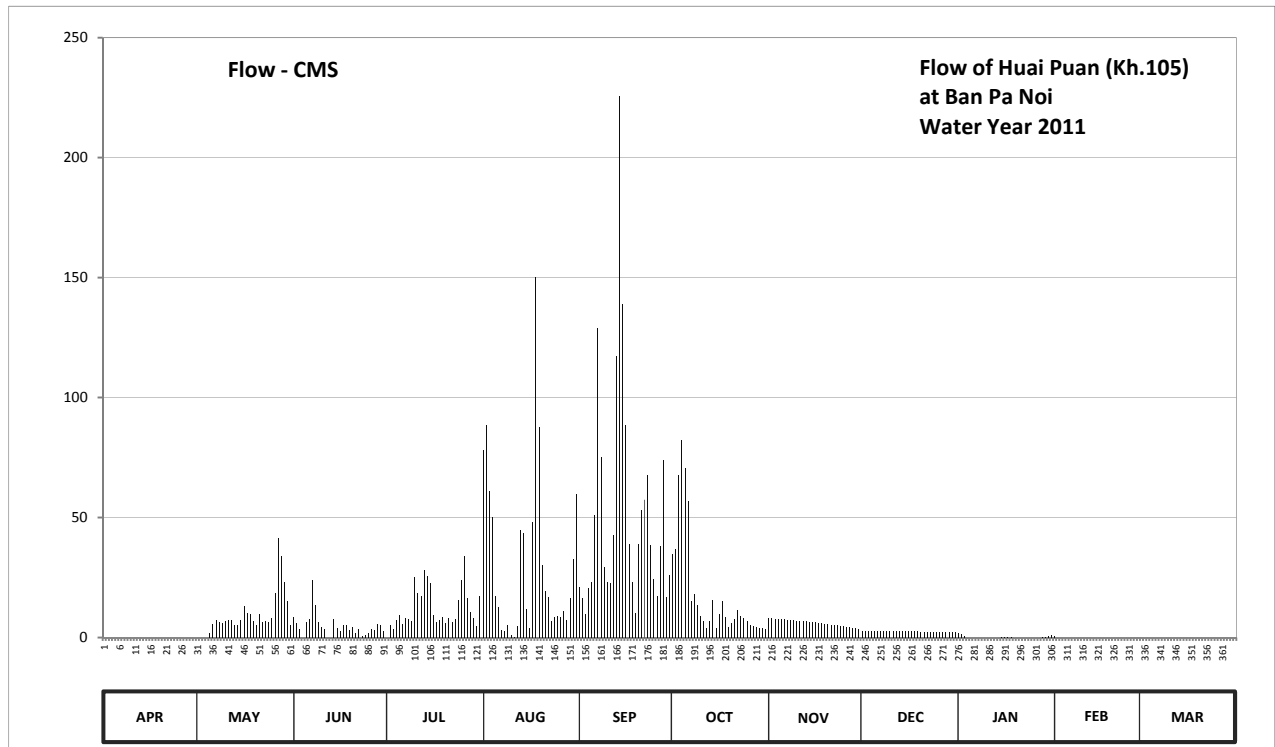
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	167.55	167.01	167.13	167.60	171.04	171.19	171.09	167.83	167.04	167.09	166.99	167.23	
2	167.52	167.32	167.09	167.62	171.28	171.19	171.07	167.99	167.04	167.05	166.99	167.20	
3	167.47	167.78	167.05	167.69	171.39	171.20	171.11	167.55	167.01	166.99	166.99	167.19	
4	167.43	167.73	167.42	167.90	171.43	171.20	171.15	167.24	166.97	166.95	166.99	167.20	
5	167.42	167.49	167.72	168.04	171.43	171.19	171.17	167.20	166.96	166.96	166.97	167.20	
6	167.40	167.20	167.91	167.83	171.39	171.21	171.16	167.21	166.95	166.96	166.95	167.21	
7	167.40	167.15	168.49	167.56	171.34	171.24	171.15	167.19	166.95	166.95	166.95	167.24	
8	167.38	167.08	169.62	167.35	171.24	171.28	171.10	167.15	166.94	166.95	166.95	167.27	
9	167.35	167.04	170.18	167.17	171.05	171.38	171.04	167.08	166.95	166.94	166.95	167.28	
10	167.35	167.01	170.04	167.11	170.85	171.48	170.88	167.20	166.95	166.94	166.95	167.35	
11	167.27	166.99	169.41	167.20	170.64	171.52	170.69	167.65	166.95	166.94	166.96	167.57	
12	167.25	166.98	168.45	167.10	170.39	171.48	170.49	168.67	166.94	166.93	166.98	167.95	
13	167.22	166.99	168.01	167.10	170.04	171.46	170.34	168.18	166.90	166.93	166.99	168.59	
14	167.17	166.98	167.86	167.09	169.53	171.47	169.94	167.36	166.90	166.93	167.00	167.91	
15	167.16	167.00	167.73	167.10	169.32	171.61	169.60	167.23	166.94	166.93	167.05	167.67	
16	167.12	166.98	167.57	167.21	169.65	171.95	169.50	167.19	167.03	166.92	167.07	167.66	
17	167.11	166.96	167.46	167.30	170.08	172.01	169.75	167.17	167.04	166.93	167.04	167.58	
18	167.17	167.07	167.36	167.35	170.57	171.90	169.89	167.15	167.02	166.93	167.01	167.50	
19	167.16	167.19	167.31	167.40	170.86	171.74	169.83	167.13	167.01	166.93	167.05	167.41	
20	167.16	167.66	167.24	167.36	171.13	171.64	169.46	167.11	167.05	166.93	167.08	167.33	
21	167.17	167.87	167.15	167.40	171.23	171.55	168.91	167.09	167.10	166.90	167.06	167.23	
22	167.14	167.61	167.09	167.66	171.31	171.51	168.68	167.08	167.17	166.90	167.08	167.16	
23	167.10	167.60	167.07	167.68	171.32	171.45	168.53	167.07	167.15	166.90	167.09	167.14	
24	167.10	167.56	167.21	168.06	171.28	171.38	168.43	167.05	167.11	166.91	167.09	167.14	
25	167.10	167.58	167.54	167.55	171.21	171.32	168.42	167.08	167.14	166.91	167.12	167.14	
26	167.03	168.00	167.48	168.18	171.07	171.27	168.28	167.06	167.13	166.90	167.16	167.10	
27	167.00	167.79	167.56	168.29	171.01	171.16	167.95	167.06	167.12	166.91	167.20	167.09	
28	166.98	167.56	167.54	168.35	171.04	171.09	167.78	167.06	167.13	166.91	167.23	167.10	
29	166.96	167.39	167.56	169.68	171.11	171.08	167.58	167.04	167.10	166.91	167.25	167.14	
30	166.96	167.22	167.59	169.47	171.17	171.08	167.45	167.04	167.10	166.91		167.18	
31		167.16		170.28	171.19		167.39		167.10	166.95		167.13	
Mean	167.22	167.32	167.83	167.76	170.89	171.41	169.67	167.30	167.03	166.94	167.04	167.36	
Max	167.55	168.00	170.18	170.28	171.43	172.01	171.17	168.67	167.17	167.09	167.25	168.59	172.01
Min	166.96	166.96	167.05	167.09	169.32	171.08	167.39	167.04	166.90	166.90	166.95	167.09	166.90
Annual Max Momentary Gage Height			172.03	m. (MSL.) ,		at 03.00 Hours , on Sep 17 , 2011							
Zero Gage at Bottom Elevation			166.50	m. (MSL.) ,		River Bed	166.59	m. (MSL)					
Left Bank Elevation			170.74	m. (MSL.) ,									
Right Bank Elevation			170.87	m. (MSL.) ,		Drainage Area	1235	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.43	0.53	0.96	2.60	44.40	54.30	47.40	3.41	0.64	0.81	0.47	1.30	
2	2.32	1.62	0.81	2.67	61.40	54.30	46.20	3.97	0.64	0.68	0.47	1.20	
3	2.15	3.23	0.68	2.92	70.20	55.00	48.70	2.43	0.53	0.47	0.47	1.17	
4	2.00	3.05	1.97	3.65	74.00	55.00	51.50	1.34	0.41	0.35	0.47	1.20	
5	1.97	2.22	3.02	4.32	74.00	54.30	52.90	1.20	0.38	0.38	0.41	1.20	
6	1.90	1.20	3.69	3.41	70.20	55.80	52.20	1.24	0.35	0.38	0.35	1.24	
7	1.90	1.02	7.92	2.46	66.20	58.20	51.50	1.17	0.35	0.35	0.35	1.34	
8	1.83	0.78	18.20	1.73	58.20	61.40	48.00	1.02	0.32	0.35	0.35	1.45	
9	1.73	0.64	24.16	1.09	45.00	69.40	44.40	0.78	0.35	0.32	0.35	1.48	
10	1.73	0.53	22.48	0.89	36.50	79.00	37.40	1.20	0.35	0.32	0.35	1.73	
11	1.45	0.47	16.10	1.20	30.80	84.16	31.80	2.77	0.35	0.32	0.38	2.50	
12	1.38	0.44	7.60	0.85	26.68	79.00	27.88	9.36	0.32	0.29	0.44	3.82	
13	1.27	0.47	4.08	0.85	22.48	77.00	26.08	5.44	0.20	0.29	0.47	8.72	
14	1.09	0.44	3.51	0.81	17.30	78.00	21.40	1.76	0.20	0.29	0.50	3.69	
15	1.06	0.50	3.05	0.85	15.20	98.38	18.00	1.30	0.32	0.29	0.68	2.84	
16	0.92	0.44	2.50	1.24	18.50	152.10	17.00	1.17	0.60	0.26	0.75	2.81	
17	0.89	0.38	2.11	1.55	22.96	162.30	19.50	1.09	0.64	0.29	0.64	2.53	
18	1.09	0.75	1.76	1.73	29.40	144.20	20.90	1.02	0.57	0.29	0.53	2.25	
19	1.06	1.17	1.58	1.90	36.80	118.92	20.30	0.96	0.53	0.29	0.68	1.94	
20	1.06	2.81	1.34	1.76	50.10	103.12	16.60	0.89	0.68	0.29	0.78	1.66	
21	1.09	3.54	1.02	1.90	57.40	88.90	11.28	0.81	0.85	0.20	0.71	1.30	
22	0.99	2.64	0.81	2.81	63.80	82.58	9.44	0.78	1.09	0.20	0.78	1.06	
23	0.85	2.60	0.75	2.88	64.60	76.00	8.24	0.75	1.02	0.20	0.81	0.99	
24	0.85	2.46	1.24	4.48	61.40	69.40	7.44	0.68	0.89	0.23	0.81	0.99	
25	0.85	2.53	2.39	2.43	55.80	64.60	7.36	0.78	0.99	0.23	0.92	0.99	
26	0.60	4.00	2.18	5.44	46.20	60.60	6.24	0.71	0.96	0.20	1.06	0.85	
27	0.50	3.26	2.46	6.32	42.60	52.20	3.82	0.71	0.92	0.23	1.20	0.81	
28	0.44	2.46	2.39	6.80	44.40	47.40	3.23	0.71	0.96	0.23	1.30	0.85	
29	0.38	1.86	2.46	18.80	48.70	46.80	2.53	0.64	0.85	0.23	1.38	0.99	
30	0.38	1.27	2.56	16.70	52.90	46.80	2.07	0.64	0.85	0.23		1.13	
31		1.06		25.36	54.30		1.86		0.85	0.35		0.96	
Total	38.16	50.37	145.78	132.40	1462.42	2329.16	763.17	50.73	18.96	9.84	18.86	56.99	5076



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	8.40	0.00	78.02	21.22	34.60	8.00	2.80	1.80	0.80	0.00		
2	0.00	0.00	6.20	5.20	88.30	16.46	36.88	8.00	2.80	1.40	0.00	0.00		
3	0.00	0.00	3.60	3.40	61.20	9.60	67.52	7.80	2.80	0.80	0.00	0.00		
4	0.00	0.00	0.00	7.20	50.18	20.54	82.22	7.80	2.80	0.00	0.00	0.00		
5	0.00	2.00	6.40	9.20	17.14	22.92	70.46	7.60	2.80	0.00	0.00	0.00		
6	0.00	5.60	7.80	5.80	12.72	50.94	57.02	7.60	2.80	0.00	0.00	0.00		
7	0.00	7.40	23.94	8.20	3.00	128.68	15.10	7.40	2.80	0.00	0.00	0.00		
8	0.00	6.60	13.74	7.60	2.60	75.08	18.16	7.20	2.80	0.00	0.00	0.00		
9	0.00	6.20	6.40	7.00	5.40	29.28	13.40	7.20	2.80	0.00	0.00	0.00		
10	0.00	7.00	4.20	25.30	1.00	22.92	8.80	7.00	2.80	0.00	0.00	0.00		
11	0.00	7.20	3.40	18.50	0.40	22.58	7.00	7.00	2.80	0.00	0.00	0.00		
12	0.00	7.20	0.00	17.14	4.80	42.58	4.00	6.80	2.80	0.00	0.00	0.00		
13	0.00	5.40	0.00	28.14	44.86	117.16	7.00	6.80	2.80	0.00	0.00	0.00		
14	0.00	5.40	7.80	25.64	43.34	225.72	15.44	6.60	2.80	0.00	0.00	0.00		
15	0.00	7.20	3.80	22.58	11.70	138.76	4.00	6.60	2.80	0.20	0.00	0.00		
16	0.00	13.06	2.80	9.20	3.80	88.30	9.80	6.40	2.60	0.40	0.00	0.00		
17	0.00	10.34	5.40	6.60	48.28	38.78	15.10	6.20	2.60	0.20	0.00	0.00		
18	0.00	9.60	5.00	7.40	150.28	23.26	8.40	6.00	2.60	0.20	0.00	0.00		
19	0.00	7.00	3.20	8.40	87.84	10.34	4.40	5.80	2.60	0.00	0.00	0.00		
20	0.00	5.40	4.40	6.00	30.42	38.78	6.00	5.60	2.40	0.00	0.00	0.00		
21	0.00	9.60	1.80	8.20	19.52	53.22	7.80	5.40	2.40	0.00	0.00	0.00		
22	0.00	6.40	3.60	6.60	16.80	57.40	11.36	5.20	2.40	0.00	0.00	0.00		
23	0.00	7.00	0.60	7.80	6.80	67.52	9.00	5.00	2.40	0.00	0.00	0.00		
24	0.00	6.60	1.20	15.44	8.40	38.40	8.00	4.80	2.40	0.00	0.00	0.00		
25	0.00	8.20	2.00	23.94	9.00	24.28	7.00	4.60	2.40	0.00	0.00	0.00		
26	0.00	18.50	3.60	33.84	8.40	17.14	5.20	4.40	2.40	0.00	0.00	0.00		
27	0.00	41.44	3.20	16.46	11.02	38.02	4.80	4.20	2.40	0.00	0.00	0.00		
28	0.00	33.84	5.60	10.68	7.20	73.82	4.40	4.00	2.40	0.20	0.00	0.00		
29	0.00	22.92	5.20	8.20	16.46	16.80	4.00	3.80	2.40	0.40	0.00	0.00		
30	0.00	15.10	2.80	4.60	32.70	25.98	3.80	3.60	2.40	0.60		0.00		
31		5.20		17.14	59.68		3.60		2.40	1.00		0.00		
Total	0.00	287.40	146.08	381.40	941.26	1556.48	554.26	184.40	81.20	7.20	0.80	0.00	4140.48	CMSDAY
Mean	0.00	9.27	4.87	12.30	30.36	51.88	17.88	6.15	2.62	0.23	0.03	0.00	11.31	CMS
Max	0.00	41.44	23.94	33.84	150.28	225.72	82.22	8.00	2.80	1.80	0.80	0.00	225.72	CMS
Min	0.00	0.00	0.00	0.00	0.40	9.60	3.60	3.60	2.40	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	24.83	12.62	32.95	81.33	134.48	47.89	15.93	7.02	0.62	0.07	0.00	357.74	MCM
Momentary Peak	243.40 CMS. at 256.70 m. (MSL.) at 09.00 Hours , on Sep 14 , 2011													
Runoff Yield	11.93	Liters/Second/Square KM.			Momentary Peak Yield			256.751	Liters/Second/Square KM.					

WATER YEAR : 2011

NAM MAE ING RIVER BASIN

Nam Waen at Ban Nam Waen , Phayao (1.6)

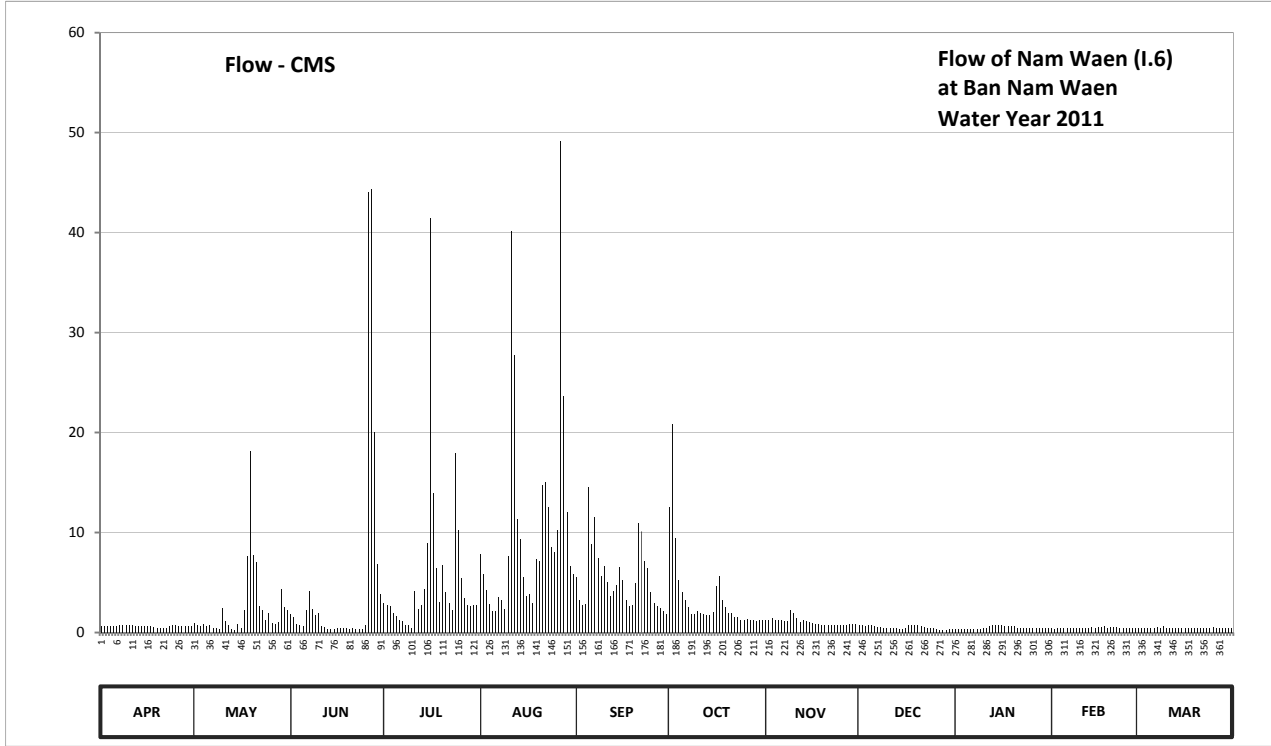
Lat 19 - 29 - 21 N Long 100 - 16 - 33 E

Location : on left bank at the bridge of Amphoe Chum - Amphoe Chiang Kham Highway.

	Ban	Nam Waen	Amphoe	Chiang Kham	Changwat	Phayao
Drainage Area	151	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+390.745	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank in the vicinity of gage observer's house.				Elevation	+397.867 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1980 to date					
Rating Operation						
Period of Rating	1997 to date					
Rated by Flot	-					
Rated by Current Meter	1997 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by Nam Waen reservoir about 4 - 5 kilometers above gage site.					
	Stage-discharge relation defined by 39 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	391.55	391.65	391.45	391.59	392.02	391.83	392.32	391.35	391.25	391.15	391.17	391.18	
2	391.55	391.60	391.41	391.57	391.85	391.63	392.78	391.34	391.25	391.15	391.16	391.18	
3	391.55	391.59	391.26	391.56	391.72	391.57	392.13	391.39	391.23	391.15	391.18	391.17	
4	391.55	391.63	391.24	391.46	391.58	391.58	391.80	391.35	391.24	391.16	391.18	391.18	
5	391.58	391.55	391.22	391.42	391.49	392.44	391.70	391.34	391.24	391.16	391.19	391.18	
6	391.59	391.60	391.51	391.34	391.49	392.09	391.62	391.35	391.23	391.15	391.18	391.20	
7	391.60	391.50	391.71	391.33	391.65	392.26	391.54	391.33	391.21	391.15	391.19	391.21	
8	391.60	391.42	391.52	391.25	391.62	391.99	391.45	391.32	391.21	391.15	391.19	391.20	
9	391.61	391.35	391.44	391.24	391.52	391.84	391.45	391.50	391.18	391.16	391.18	391.22	
10	391.61	391.80	391.46	391.19	392.00	391.92	391.49	391.46	391.18	391.19	391.18	391.18	
11	391.60	391.69	391.23	391.71	393.63	391.79	391.46	391.39	391.17	391.19	391.18	391.18	
12	391.59	391.60	391.21	391.52	393.11	391.67	391.45	391.31	391.17	391.22	391.18	391.18	
13	391.59	391.36	391.16	391.57	392.25	391.71	391.44	391.35	391.17	391.25	391.20	391.17	
14	391.59	391.23	391.15	391.73	392.12	391.76	391.43	391.32	391.16	391.25	391.21	391.18	
15	391.59	391.62	391.16	392.10	391.83	391.91	391.48	391.31	391.15	391.25	391.20	391.18	
16	391.58	391.49	391.20	393.68	391.67	391.80	391.75	391.29	391.20	391.25	391.21	391.17	
17	391.57	391.51	391.19	392.41	391.68	391.63	391.84	391.28	391.25	391.23	391.21	391.17	
18	391.54	392.00	391.18	391.90	391.59	391.55	391.63	391.27	391.25	391.22	391.22	391.18	
19	391.50	392.64	391.17	391.60	391.98	391.57	391.54	391.25	391.24	391.23	391.20	391.18	
20	391.40	392.01	391.16	391.93	391.96	391.78	391.46	391.25	391.24	391.23	391.21	391.17	
21	391.42	391.95	391.17	391.70	392.45	392.22	391.46	391.25	391.23	391.20	391.21	391.17	
22	391.43	391.56	391.14	391.59	392.47	392.17	391.41	391.25	391.21	391.19	391.21	391.17	
23	391.59	391.51	391.16	391.50	392.32	391.96	391.41	391.25	391.19	391.20	391.20	391.20	
24	391.60	391.36	391.14	392.63	392.07	391.90	391.35	391.24	391.18	391.19	391.20	391.20	
25	391.61	391.46	391.24	392.18	392.03	391.70	391.35	391.25	391.19	391.20	391.19	391.21	
26	391.58	391.29	393.78	391.82	392.18	391.59	391.37	391.25	391.16	391.20	391.19	391.20	
27	391.55	391.27	393.79	391.64	393.97	391.55	391.35	391.25	391.11	391.19	391.19	391.19	
28	391.55	391.30	392.74	391.57	392.92	391.53	391.35	391.26	391.10	391.19	391.18	391.19	
29	391.55	391.73	391.94	391.55	392.29	391.49	391.32	391.26	391.13	391.19	391.18	391.18	
30	391.55	391.54	391.68	391.57	391.92	391.45	391.35	391.26	391.15	391.19		391.18	
31		391.50		391.57	391.85		391.35		391.15	391.19		391.18	
Mean	391.56	391.59	391.53	391.72	392.10	391.80	391.58	391.31	391.19	391.19	391.19	391.18	
Max	391.61	392.64	393.79	393.68	393.97	392.44	392.78	391.50	391.25	391.25	391.22	391.22	393.97
Min	391.40	391.23	391.14	391.19	391.49	391.45	391.32	391.24	391.10	391.15	391.16	391.17	391.10
Annual Max Momentary Gage Height	395.08		m. (MSL.) , at 13.00 Hours , on Aug 27 , 2011										
Zero Gage at Bottom Elevation	390.74		m. (MSL.) , River Bed 389.93 m. (MSL)										
Left Bank Elevation	398.52		m. (MSL.) ,										
Right Bank Elevation	398.55		m. (MSL.) , Drainage Area 151 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	0.95	1.85	2.92	7.88	5.56	12.52	1.25	0.75	0.35	0.41	0.44		
2	0.60	0.70	1.57	2.76	5.80	3.30	20.80	1.20	0.75	0.35	0.38	0.44		
3	0.60	0.68	0.80	2.68	4.24	2.76	9.48	1.45	0.65	0.35	0.44	0.41		
4	0.60	0.85	0.70	1.92	2.84	2.84	5.20	1.25	0.70	0.38	0.44	0.44		
5	0.66	0.60	0.60	1.64	2.13	14.52	4.00	1.20	0.70	0.38	0.47	0.44		
6	0.68	0.70	2.28	1.20	2.13	8.86	3.20	1.25	0.65	0.35	0.44	0.50		
7	0.70	0.50	4.12	1.15	3.50	11.56	2.52	1.15	0.55	0.35	0.47	0.55		
8	0.70	0.42	2.36	0.75	3.20	7.48	1.85	1.10	0.55	0.35	0.47	0.50		
9	0.75	0.35	1.78	0.70	2.36	5.68	1.85	2.20	0.44	0.38	0.44	0.60		
10	0.75	2.40	1.92	0.47	7.60	6.64	2.13	1.92	0.44	0.47	0.44	0.44		
11	0.70	1.15	0.65	4.12	40.18	5.08	1.92	1.45	0.41	0.47	0.44	0.44		
12	0.68	0.70	0.55	2.36	27.73	3.70	1.85	1.05	0.41	0.60	0.44	0.44		
13	0.68	0.36	0.38	2.76	11.40	4.12	1.78	1.25	0.41	0.75	0.50	0.41		
14	0.68	0.23	0.35	4.36	9.32	4.72	1.71	1.10	0.38	0.75	0.55	0.44		
15	0.68	0.80	0.38	9.00	5.56	6.52	2.06	1.05	0.35	0.75	0.50	0.44		
16	0.66	0.49	0.50	41.48	3.70	5.20	4.60	0.95	0.50	0.75	0.55	0.41		
17	0.64	2.28	0.47	13.98	3.80	3.30	5.68	0.90	0.75	0.65	0.55	0.41		
18	0.58	7.60	0.44	6.40	2.92	2.60	3.30	0.85	0.75	0.60	0.60	0.44		
19	0.50	18.12	0.41	3.00	7.36	2.76	2.52	0.75	0.70	0.65	0.50	0.44		
20	0.40	7.74	0.38	6.76	7.12	4.96	1.92	0.75	0.70	0.65	0.55	0.41		
21	0.42	7.00	0.41	4.00	14.70	10.92	1.92	0.75	0.65	0.50	0.55	0.41		
22	0.43	2.68	0.32	2.92	15.06	10.12	1.57	0.75	0.55	0.47	0.55	0.41		
23	0.68	2.28	0.38	2.20	12.52	7.12	1.57	0.75	0.47	0.50	0.50	0.50		
24	0.70	1.30	0.32	17.94	8.58	6.40	1.25	0.70	0.44	0.47	0.50	0.50		
25	0.75	1.92	0.70	10.28	8.02	4.00	1.25	0.75	0.47	0.50	0.47	0.55		
26	0.66	0.95	44.08	5.44	10.28	2.92	1.35	0.75	0.38	0.50	0.47	0.50		
27	0.60	0.85	44.34	3.40	49.19	2.60	1.25	0.75	0.23	0.47	0.47	0.47		
28	0.60	1.00	20.00	2.76	23.60	2.44	1.25	0.80	0.20	0.47	0.44	0.47		
29	0.60	4.36	6.88	2.60	12.04	2.13	1.10	0.80	0.29	0.47	0.44	0.44		
30	0.60	2.52	3.80	2.76	6.64	1.85	1.25	0.80	0.35	0.47		0.44		
31		2.20		2.76	5.80		1.25		0.35	0.47		0.44		
Total	18.88	74.68	143.72	167.47	327.20	162.66	105.90	31.67	15.92	15.62	13.97	14.17	1091.86	CMSDAY
Mean	0.63	2.41	4.79	5.40	10.55									

WATER YEAR : 2011

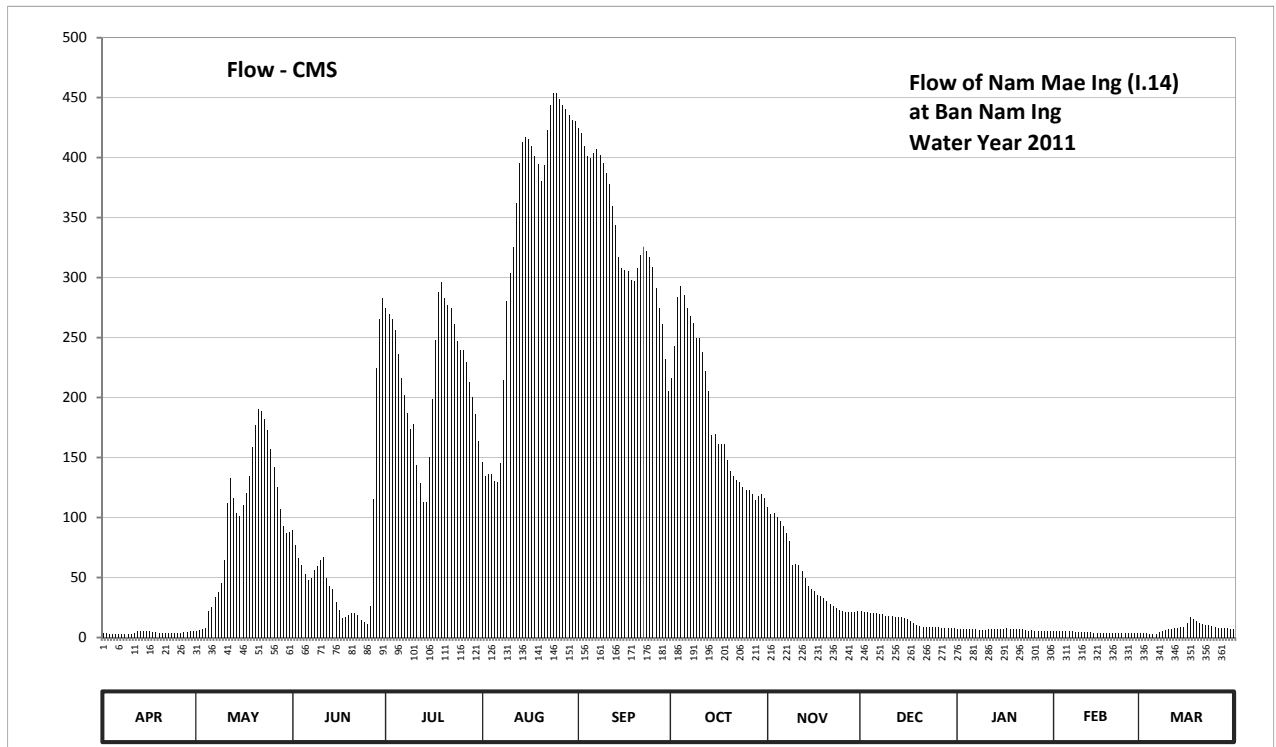
NAM MAE ING RIVER BASIN

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

Lat 19 - 49 - 56 N Long 100 - 12 - 15 E

Location : on right bank at the bridge on the road about 2 kilometers from Amphoe Khun Tan.

	Ban	Nam Ing		Amphoe	Khun Tan		Changwat	Chiang Rai					
Drainage Area	6,266	sq.km.											
Type of Gage	Staff gage												
Zero Gage at Bottom	+351.430	m. (MSL.)											
Bench Mark	B.M.-H.D.												
Location BM	On right bank downstream side at the approach of the bridge.					Elevation	+361.805 m. (MSL.)						
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.												
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings												
Period of Available Gage Records	1993 to date												
Rating Operation													
Period of Rating	1993 to date												
Rated by Flot	-												
Rated by Current Meter	1993 to date												
Stability of Channel Regimes	Stable.												
Overbank Flow Conditions	No overbank flow.												
General Description	Records good. Flow effected by the local weir about 100 meters downstream from the gage site. Stage-discharge relation defined by 48 discharge measurements made in 2011.												
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	352.53	352.67	354.87	357.73	355.93	359.41	357.00	355.25	353.28	352.75	352.66	352.55	
2	352.53	352.70	354.63	357.68	355.73	359.36	357.35	355.13	353.27	352.74	352.66	352.54	
3	352.51	352.73	354.41	357.63	355.76	359.25	357.84	355.15	353.26	352.74	352.66	352.53	
4	352.51	352.80	354.25	357.51	355.77	359.16	357.95	355.09	353.25	352.74	352.66	352.52	
5	352.51	353.28	354.08	357.26	355.66	359.14	357.86	355.02	353.24	352.73	352.66	352.51	
6	352.50	353.38	353.94	357.00	355.64	359.19	357.73	354.93	353.23	352.73	352.66	352.52	
7	352.49	353.59	353.98	356.80	355.92	359.22	357.66	354.83	353.22	352.73	352.65	352.62	
8	352.49	353.70	354.15	356.58	356.98	359.17	357.59	354.69	353.21	352.72	352.64	352.68	
9	352.49	353.88	354.24	356.38	357.80	359.10	357.43	354.27	353.18	352.72	352.63	352.69	
10	352.50	354.36	354.36	356.45	358.08	359.01	357.43	354.28	353.18	352.72	352.63	352.73	
11	352.57	355.32	354.42	355.89	358.33	358.91	357.28	354.26	353.16	352.74	352.63	352.75	
12	352.65	355.70	353.98	355.63	358.73	358.71	357.08	354.13	353.14	352.73	352.63	352.78	
13	352.65	355.40	353.82	355.33	359.10	358.53	356.85	353.98	353.14	352.73	352.61	352.80	
14	352.66	355.15	353.77	355.33	359.28	358.23	356.30	353.82	353.14	352.73	352.60	352.82	
15	352.65	355.11	353.48	356.01	359.33	358.13	356.32	353.75	353.13	352.74	352.56	352.83	
16	352.65	355.28	353.30	356.75	359.31	358.11	356.18	353.72	353.09	352.75	352.54	352.99	
17	352.63	355.48	353.13	357.41	359.25	358.10	356.18	353.64	353.04	352.78	352.55	353.15	
18	352.63	355.73	353.14	357.89	359.16	358.01	356.18	353.62	352.99	352.77	352.59	353.10	
19	352.60	356.15	353.19	357.99	359.09	358.00	355.96	353.57	352.93	352.75	352.58	353.05	
20	352.54	356.43	353.24	357.83	358.94	358.13	355.81	353.52	352.87	352.74	352.58	353.01	
21	352.53	356.63	353.25	357.76	359.08</								



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.30	5.40	89.50	274.05	145.80	424.95	216.00	108.50	21.80	7.00	5.20	3.50	
2	3.30	6.00	77.50	269.80	134.15	420.20	243.00	102.50	21.45	6.80	5.20	3.40	
3	3.10	6.60	66.50	265.55	135.80	409.75	283.40	103.50	21.10	6.80	5.20	3.30	
4	3.10	8.00	60.00	255.80	136.35	401.20	292.75	100.50	20.75	6.80	5.20	3.20	
5	3.10	21.80	53.20	235.80	130.30	399.30	285.10	97.00	20.40	6.60	5.20	3.10	
6	3.00	25.30	47.60	216.00	129.20	404.05	274.05	92.50	20.05	6.60	5.20	3.20	
7	2.90	33.60	49.20	202.00	145.20	406.90	268.10	87.50	19.70	6.60	5.00	4.40	
8	2.90	38.00	56.00	186.70	214.60	402.15	262.20	80.50	19.35	6.40	4.80	5.60	
9	2.90	45.20	59.60	173.70	280.00	395.50	249.40	60.80	18.30	6.40	4.60	5.80	
10	3.00	64.40	64.40	178.25	303.80	386.95	249.40	61.20	18.30	6.40	4.60	6.60	
11	3.70	112.00	67.00	143.40	325.70	377.90	237.40	60.40	17.60	6.80	4.60	7.00	
12	5.00	132.50	49.20	128.65	361.70	359.90	222.00	55.20	16.90	6.60	4.60	7.60	
13	5.00	116.00	42.80	112.50	395.50	343.70	205.50	49.20	16.90	6.60	4.20	8.00	
14	5.20	103.50	40.80	112.50	412.60	316.70	168.50	42.80	16.90	6.60	4.00	8.40	
15	5.00	101.50	29.20	150.60	417.35	308.05	169.80	40.00	16.55	6.80	3.60	8.60	
16	5.00	110.00	22.50	198.50	415.45	306.35	160.80	38.80	15.15	7.00	3.40	11.80	
17	4.60	120.40	16.55	247.80	409.75	305.50	160.80	35.60	13.40	7.60	3.50	17.25	
18	4.60	134.15	16.90	287.65	401.20	297.85	160.80	34.80	11.80	7.40	3.90	15.50	
19	4.00	159.00	18.65	296.15	394.55	297.00	147.60	32.80	10.60	7.00	3.80	13.75	
20	3.40	176.95	20.40	282.55	380.60	308.05	138.60	30.80	9.40	6.80	3.80	12.35	
21	3.30	190.10	20.75	276.60	393.60	318.50	134.70	28.00	8.80	6.60	3.80	11.40	
22	3.40	188.70	18.65	274.05	423.05	325.70	131.40	26.40	8.60	6.60	3.80	10.60	
23	3.50	182.15	14.80	261.40	444.00	322.10	129.75	24.60	8.60	6.20	3.80	10.00	
24	3.60	172.40	12.70	247.00	454.00	316.70	125.35	22.50	8.60	5.60	3.80	9.40	
25	3.70	156.60	11.60	239.80	454.00	308.90	123.15	21.80	8.40	5.80	3.80	8.40	
26	3.80	142.20	26.40	239.80	449.00	291.05	122.60	21.45	8.40	5.60	3.80	8.00	
27	4.40	125.35	115.50	229.50	444.00	274.05	119.30	21.10	8.20	5.60	3.80	8.00	
28	4.60	107.50	224.25	213.20	440.15	261.40	115.00	21.45	8.20	5.60	3.60	7.80	
29	5.40	92.50	265.55	200.60	435.40	231.80	117.65	21.45	8.00	5.60	3.60	7.60	
30	5.40	87.50	282.55	186.05	431.60	205.50	119.30						

WATER YEAR : 2011**NAM MAE ING RIVER BASIN****Nam Mae Ing at Ban Jae Dee Ngam , Phayao (I.17)**

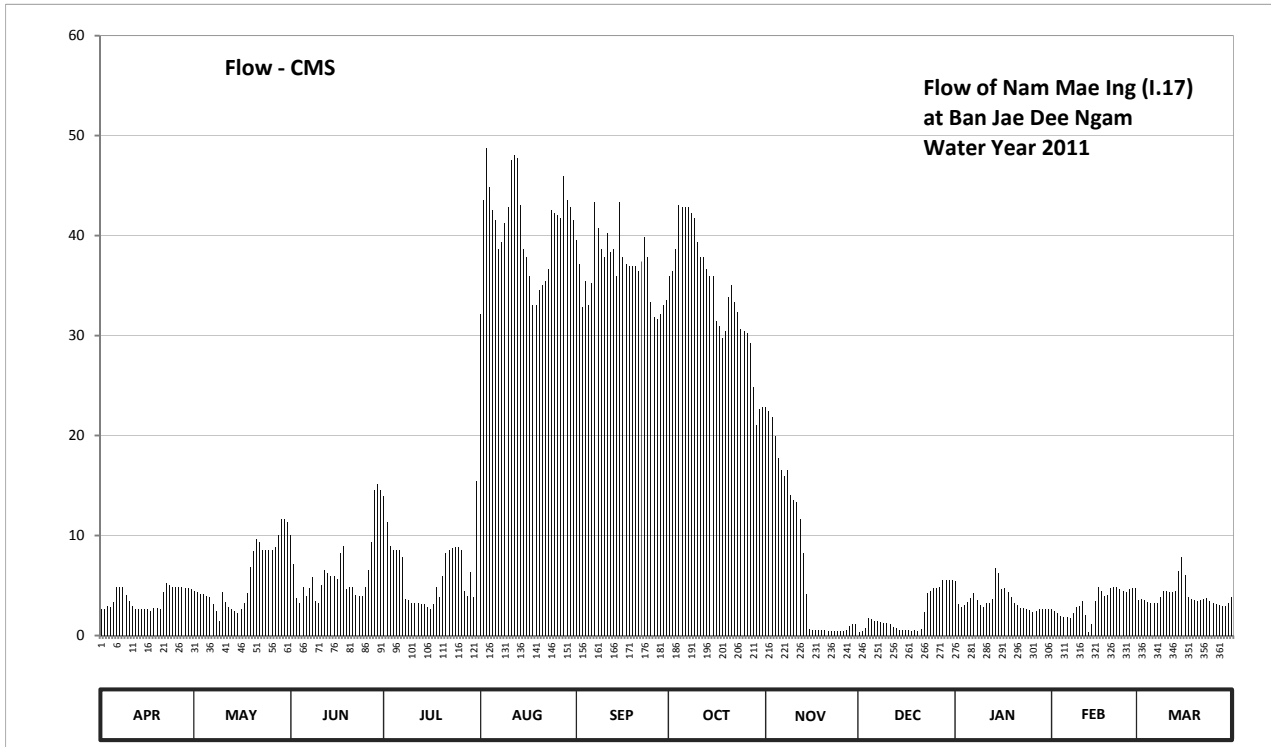
Lat 19 - 10 - 11 N Long 99 - 56 - 13 E

Location : on left bank at Ban Jae Dee Ngam.

	Ban	Jae Dee Ngam	Amphoe	Mueang	Changwat	Phayao
Drainage Area	1,167	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+386.266	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 10 meters from the top staff gage.				Elevation	+390.573 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 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 47 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	387.07	387.33	387.75	387.93	388.23	388.54	388.39	387.79	386.43	387.42	387.07	387.22	
2	387.07	387.31	387.57	387.82	388.70	388.44	388.41	387.77	386.49	387.15	387.05	387.23	
3	387.12	387.29	387.24	387.70	388.90	388.26	388.50	387.74	386.60	387.11	387.01	387.22	
4	387.11	387.29	387.17	387.67	388.75	388.37	388.68	387.64	386.93	387.14	386.95	387.19	
5	387.19	387.27	387.36	387.67	388.66	388.27	388.67	387.52	386.91	387.19	386.94	387.18	
6	387.37	387.26	387.27	387.67	388.62	388.36	388.67	387.45	386.87	387.24	386.94	387.17	
7	387.37	387.16	387.35	387.62	388.50	388.69	388.67	387.42	386.85	387.30	386.93	387.17	
8	387.37	387.04	387.46	387.23	388.53	388.59	388.65	387.45	386.83	387.22	387.01	387.26	
9	387.28	386.85	387.21	387.22	388.61	388.50	388.63	387.30	386.82	387.14	387.11	387.33	
10	387.20	387.31	387.17	387.17	388.67	388.47	388.53	387.27	386.81	387.11	387.13	387.33	
11	387.13	387.19	387.38	387.17	388.85	388.57	388.47	387.26	386.78	387.17	387.21	387.31	
12	387.07	387.11	387.53	387.17	388.87	388.49	388.47	387.15	386.70	387.18	386.97	387.31	
13	387.07	387.07	387.50	387.16	388.86	388.50	388.42	386.90	386.60	387.23	386.42	387.33	
14	387.07	387.04	387.47	387.15	388.68	388.39	388.39	386.56	386.54	387.54	386.78	387.52	
15	387.07	387.01	387.47	387.10	388.50	388.69	388.39	386.55	386.53	387.50	387.21	387.62	
16	387.07	387.08	387.44	387.07	388.47	388.47	388.20	386.53	386.51	387.34	387.37	387.48	
17	387.05	387.17	387.65	387.15	388.39	388.44	388.18	386.51	386.51	387.35	387.32	387.25	
18	387.09	387.30	387.70	387.36	388.27	388.43	388.13	386.51	386.49	387.31	387.27	387.23	
19	387.09	387.55	387.34	387.25	388.27	388.43	388.16	386.51	386.51	387.25	387.28	387.22	
20	387.07	387.66	387.37	387.47	388.33	388.43	388.30	386.53	386.49	387.17	387.35	387.21	
21	387.31	387.73	387.36	387.65	388.35	388.41	388.35	386.47	386.57	387.14	387.37	387.22	
22	387.40	387.72	387.28	387.67	388.37	388.45	388.28	386.47	387.02	387.09	387.37	387.23	
23	387.38	387.67	387.27	387.68	388.42	388.55	388.24	386.45	387.30	387.09	387.34	387.24	
24	387.37	387.67	387.27	387.69	388.66	388.47	388.17	386.45	387.32	387.07	387.32	387.20	
25	387.37	387.67	387.36	387.69	388.65	388.28	388.16	386.45	387.35	387.06	387.31	387.18	
26	387.37	387.67	387.53	387.67	388.64	388.22	388.15	386.48	387.35	387.03	387.34	387.16	
27	387.36	387.69	387.72	387.32	388.63	388.21	388.11	386.53	387.36	387.04	387.35	387.14	
28	387.35	387.75	387.95	387.27	388.79	388.23	387.89	386.72	387.43	387.08	387.35	387.13	
29	387.35	387.83	387.97	387.51	388.70	388.27	387.70	386.77	387.43	387.07	387.27	387.13	
30	387.34	387.83	387.95	387.25	388.67	388.29	387.78	386.77	387.43	387.07		387.18	
31		387.82		387.39	388.62		387.79		387.43	387.07		387.25	
Mean	387.22	387.40	387.47	387.44	388.59	388.42	388.31	386.93	386.88	387.19	387.15	387.25	
Max	387.40	387.83	387.97	387.93	388.90	388.69	388.68	387.79	387.43	387.54	387.37	387.62	388.90
Min	387.05	386.85	387.17	387.07	388.23	388.21	387.70	386.45	386.43	387.03	386.42	387.13	386.42
Annual Max Momentary Gage Height	388.92		m. (MSL.) ,		at 12.00 Hours , on Aug 3, 2011								
Zero Gage at Bottom Elevation	386.27		m. (MSL.) ,		River Bed	384.64		m. (MSL)					
Left Bank Elevation	390.57		m. (MSL.) ,										
Right Bank Elevation	390.57		m. (MSL.) ,		Drainage Area	1167	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.62	4.50	10.00	13.90	32.12	39.56	35.96	22.80	0.36	5.40	2.62	3.56	
2	2.62	4.30	7.11	11.40	43.60	37.16	36.44	22.40	0.48	3.10	2.50	3.64	
3	2.92	4.12	3.72	9.00	48.80	32.84	38.60	21.80	0.70	2.86	2.26	3.56	
4	2.86	4.12	3.22	8.55	44.90	35.48	43.08	19.92	1.78	3.04	1.90	3.34	
5	3.34	3.96	4.80	8.55	42.56	33.08	42.82	17.76	1.66	3.34	1.84	3.28	
6	4.90	3.88	3.96	8.55	41.52	35.24	42.82	16.50	1.48	3.72	1.84	3.22	
7	4.90	3.16	4.70	7.80	38.60	43.34	42.82	15.96	1.40	4.20	1.78	3.22	
8	4.90	2.44	5.80	3.64	39.32	40.76	42.30	16.50	1.32	3.56	2.26	3.88	
9	4.04	1.40	3.48	3.56	41.26	38.60	41.78	14.00	1.28	3.04	2.86	4.50	
10	3.40	4.30	3.22	3.22	42.82	37.88	39.32	13.52	1.24	2.86	2.98	4.50	
11	2.98	3.34	5.00	3.22	47.50	40.28	37.88	13.36	1.14	3.22	3.48	4.30	
12	2.62	2.86	6.59	3.22	48.02	38.36	37.88	11.60	0.90	3.28	2.02	4.30	
13	2.62	2.62	6.20	3.16	47.76	38.60	36.68	8.20	0.70	3.64	0.34	4.50	
14	2.62	2.44	5.90	3.10	43.08	35.96	35.96	4.14	0.58	6.72	1.14	6.46	
15	2.62	2.26	5.90	2.80	38.60	43.34	35.96	0.60	0.56	6.20	3.48	7.80	
16	2.62	2.68	5.60	2.62	37.88	37.88	31.40	0.56	0.52	4.60	4.90	6.00	
17	2.50	3.22	8.25	3.10	35.96	37.16	30.92	0.52	0.52	4.70	4.40	3.80	
18	2.74	4.20	9.00	4.80	33.08	36.92	29.72	0.52	0.48	4.30	3.96	3.64	
19	2.74	6.85	4.60	3.80	33.08	36.92	30.44	0.52	0.52	3.80	4.04	3.56	
20	2.62	8.40	4.90	5.90	34.52	36.92	33.80	0.56	0.48	3.22	4.70	3.48	
21	4.30	9.60	4.80	8.25	35.00	36.44	35.00	0.44	0.64	3.04	4.90	3.56	
22	5.20	9.40	4.04	8.55	35.48	37.40	33.32	0.44	2.32	2.74	4.90	3.64	
23	5.00	8.55	3.96	8.70	36.68	39.80	32.36	0.40	4.20	2.74	4.60	3.72	
24	4.90	8.55	3.96	8.85	42.56	37.88	30.68	0.40	4.40	2.62	4.40	3.40	
25	4.90	8.55	4.80	8.85	42.30	33.32	30.44	0.40	4.70	2.56	4.30	3.28	
26	4.90	8.55	6.59	8.55	42.04	31.88	30.20	0.46	4.70	2.38	4.60	3.16	
27	4.80	8.85	9.40	4.40	41.78	31.64	29.24	0.56	4.80	2.44	4.70	3.04	
28	4.70	10.00	14.50	3.96	45.94	32.12	24.80	0.96	5.50	2.68	4.70	2.98	
29	4.70	11.60	15.10	6.33	43.60	33.08	21.00	1.11	5.50	2.62	3.96	2.98	
30	4.60	11.60	14.50	3.80	42.82	33.56	22.60	1.11	5.50	2.62		3.28	
31		11.40		15.44	41.52		22.80		5.50	2.62		3.80	
Total	111.18	181.70	193.60	199.57	1264.70	1103.40	1059.02	228.02	65.86	107.86			

WATER YEAR : 2011
NAM MAE KOK RIVER BASIN

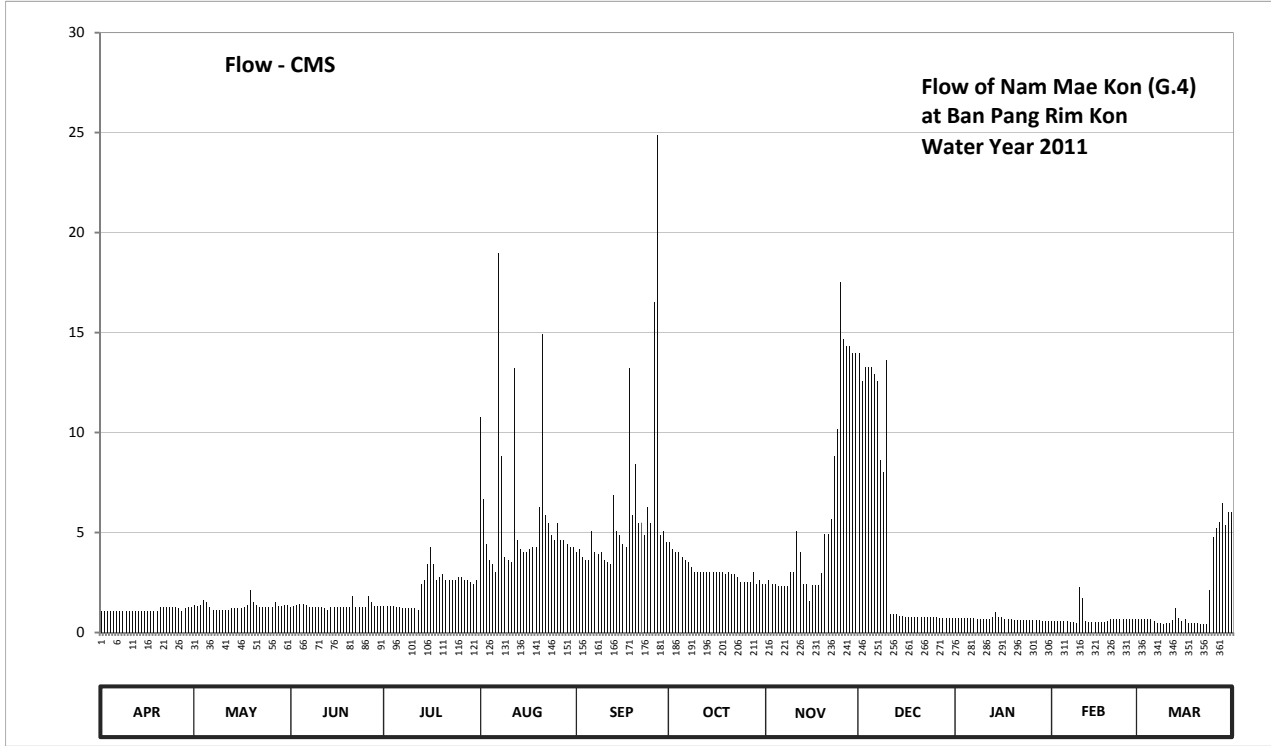
Nam Mae Kon at Ban Pang Rim Kon , Chiang Rai (G.4)

Lat 19 - 50 - 23 N Long 99 - 40 - 27 E

Location : on left bank at Ban Pang Rim Kon.

	Ban	Pang Rim Kon	Amphoe	Mueang	Changwat	Chiang Rai
Drainage Area	49	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+461.700	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 66.50 meters from the top staff gage.				Elevation	+465.100 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 38 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.08	1.38	1.26	1.32	10.76	4.02	4.53	2.40	13.95	0.72	0.56	0.66		
2	1.08	1.32	1.32	1.32	6.66	4.15	4.15	2.65	12.55	0.72	0.56	0.66		
3	1.08	1.38	1.38	1.32	4.40	3.78	4.02	2.40	13.25	0.72	0.56	0.66		
4	1.08	1.62	1.44	1.32	3.65	3.65	4.02	2.40	13.25	0.72	0.56	0.66		
5	1.08	1.50	1.44	1.26	3.40	3.65	3.78	2.31	13.25	0.72	0.56	0.66		
6	1.08	1.26	1.38	1.26	3.03	5.09	3.65	2.31	12.90	0.72	0.56	0.56		
7	1.08	1.14	1.26	1.20	18.97	4.02	3.52	2.31	12.55	0.72	0.52	0.48		
8	1.08	1.14	1.26	1.20	8.80	3.90	3.28	2.31	8.60	0.66	0.52	0.48		
9	1.08	1.14	1.26	1.20	3.78	4.02	3.03	3.03	8.00	0.66	0.48	0.44		
10	1.08	1.14	1.26	1.20	3.65	3.65	3.03	3.03	13.60	0.66	2.28	0.48		
11	1.08	1.14	1.26	1.20	3.52	3.52	3.03	5.09	0.90	0.66	1.74	0.48		
12	1.08	1.14	1.20	1.14	13.21	3.40	3.03	4.02	0.90	0.66	0.56	0.60		
13	1.08	1.20	1.14	2.40	4.65	6.85	3.03	2.40	0.90	0.78	0.52	1.20		
14	1.08	1.20	1.26	2.65	4.15	5.09	3.03	2.40	0.84	1.02	0.52	0.72		
15	1.08	1.20	1.26	3.40	4.02	4.90	3.03	1.56	0.84	0.78	0.52	0.56		
16	1.08	1.20	1.26	4.27	4.02	4.40	3.03	2.36	0.78	0.78	0.52	0.66		
17	1.08	1.26	1.26	3.40	4.15	4.27	3.03	2.36	0.78	0.66	0.52	0.48		
18	1.08	1.38	1.26	2.65	4.27	13.21	3.03	2.36	0.78	0.66	0.52	0.48		
19	1.08	2.12	1.26	2.77	4.27	5.87	2.90	2.96	0.78	0.66	0.56	0.48		
20	1.26	1.50	1.26	2.90	6.27	8.41	3.03	4.92	0.78	0.60	0.66	0.48		
21	1.26	1.38	1.80	2.65	14.94	5.49	2.90	4.92	0.78	0.60	0.66	0.44		
22	1.26	1.26	1.26	2.65	5.87	5.49	2.90	5.68	0.78	0.60	0.66	0.44		
23	1.26	1.26	1.26	2.65	5.49	4.90	2.77	8.80	0.78	0.60	0.66	0.44		
24	1.26	1.26	1.26	2.65	4.90	6.27	2.53	10.15	0.78	0.60	0.66	2.12		
25	1.26	1.26	1.26	2.77	4.65	5.49	2.53	17.54	0.78	0.60	0.66	4.78		
26	1.20	1.26	1.80	2.77	5.49	16.49	2.53	14.65	0.78	0.60	0.66	5.20		
27	1.08	1.50	1.50	2.65	4.65	24.87	2.53	14.30	0.72	0.60	0.66	5.52		
28	1.20	1.32	1.32	2.65	4.65	4.90	3.03	14.30	0.72	0.60	0.66	6.48		
29	1.26	1.32	1.32	2.53	4.40	5.09	2.40	13.95	0.72	0.56	0.66	5.36		
30	1.26	1.38	1.32	2.40	4.27	4.53	2.65	13.95	0.72	0.56		6.00		
31		1.38		2.65	4.27		2.40		0.72	0.56		6.00		
Total	34.08	40.94	39.78	68.40	183.21	183.37	96.35	173.82	138.46	20.76	19.74	54.66	1053.57	CMSDAY
Mean	1.14	1.32	1.33	2.21	5.91	6.11								

WATER YEAR : 2011**NAM MAE KOK RIVER BASIN****Nam Mae Lao at Ban Ton Yang , Chiang Rai (G.8)**

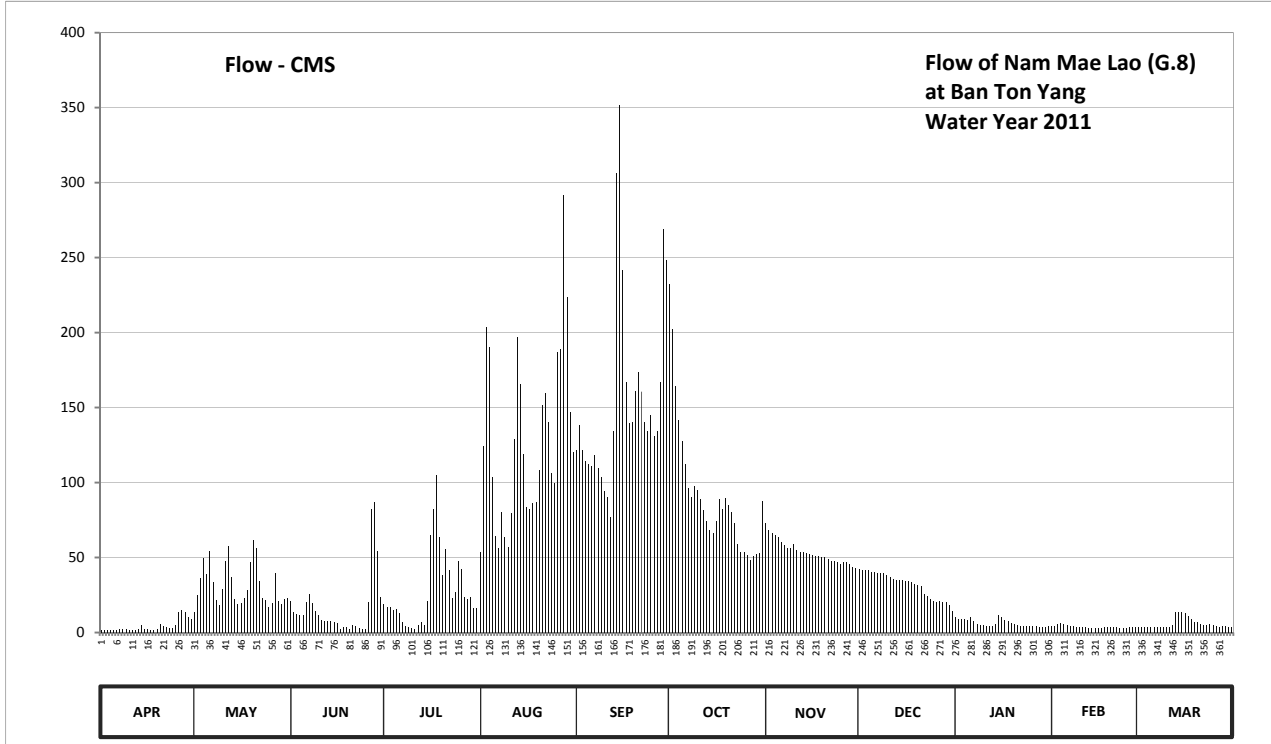
Lat 19 - 47 - 32 N Long 99 - 45 - 11 E

Location : on left bank at the bridge of Chiang Rai - Phayao Highway, Tambon Bua Sali.

	Ban	Ton Yang	Amphoe	Mae Lao	Changwat	Chiang Rai
Drainage Area	2,909	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+405.100	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 8 meters from the top staff gage.				Elevation	+410.832 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1994 to date					
Rating Operation						
Period of Rating	1994 to date					
Rated by Flot	-					
Rated by Current Meter	1994 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Mae Lao weir situated about 10 kilometers above gage site. Stage-discharge relation defined by 46 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	404.99	405.53	405.73	405.68	406.28	407.06	407.95	406.54	406.11	405.41	405.15	405.14	
2	405.00	405.82	405.51	405.63	407.09	407.22	407.74	406.48	406.10	405.35	405.17	405.12	
3	405.00	406.02	405.47	405.62	407.75	407.06	407.45	406.45	406.10	405.35	405.23	405.11	
4	405.00	406.22	405.46	405.57	407.65	406.99	407.25	406.44	406.10	405.35	405.26	405.11	
5	405.00	406.06	405.46	405.59	406.88	406.97	407.12	406.42	406.08	405.33	405.22	405.13	
6	405.01	406.29	405.71	405.49	406.43	406.96	406.97	406.38	406.08	405.40	405.19	405.13	
7	405.03	405.97	405.83	405.29	406.32	407.03	406.80	406.35	406.07	405.30	405.16	405.12	
8	405.03	405.74	405.69	405.17	406.63	406.94	406.74	406.32	406.07	405.23	405.15	405.12	
9	405.03	405.66	405.55	405.11	406.42	406.88	406.82	406.32	406.07	405.21	405.14	405.11	
10	405.01	405.89	405.45	405.10	406.33	406.78	406.79	406.36	406.05	405.18	405.13	405.11	
11	405.01	406.19	405.34	405.06	406.62	406.74	406.72	406.30	406.03	405.16	405.12	405.12	
12	405.01	406.34	405.30	405.21	407.13	406.59	406.64	406.28	406.01	405.15	405.11	405.20	
13	405.04	406.03	405.30	405.27	407.70	407.18	406.55	406.28	406.00	405.16	405.10	405.53	
14	405.18	405.76	405.30	405.20	407.46	408.38	406.48	406.27	406.00	405.24	405.10	405.51	
15	405.05	405.68	405.29	405.73	407.04	408.60	406.45	406.26	406.00	405.45	405.10	405.53	
16	405.03	405.69	405.25	406.44	406.66	408.01	406.55	406.25	405.99	405.40	405.09	405.50	
17	405.02	405.77	405.05	406.65	406.65	407.47	406.72	406.24	405.99	405.33	405.10	405.44	
18	405.02	405.88	405.13	406.89	406.69	407.23	406.65	406.24	405.97	405.30	405.12	405.36	
19	405.06	406.18	405.13	406.42	406.70	407.24	406.73	406.23	405.95	405.26	405.11	405.28	
20	405.22	406.40	405.04	406.05	406.93	407.42	406.68	406.23	405.94	405.22	405.11	405.27	
21	405.17	406.32	405.21	406.31	407.34	407.52	406.63	406.21	405.93	405.19	405.11	405.24	
22	405.11	405.99	405.17	406.10	407.41	407.42	406.54	406.19	405.83	405.17	405.11	405.21	
23	405.09	405.77	405.08	405.78	407.24	407.24	406.36	406.19	405.80	405.16	405.10	405.18	
24	405.10	405.75	405.05	405.85	406.91	407.18	406.28	406.18	405.76	405.15	405.09	405.22	
25	405.18	405.63	405.06	406.19	406.84	407.28	406.28	406.16	405.72	405.15	405.10	405.20	
26	405.53	405.69	405.70	406.11	407.62	407.15	406.25	406.18	405.70	405.15	405.14	405.15	
27	405.56	406.07	406.65	405.79	407.64	407.18	406.20	406.18	405.72	405.17	405.14	405.14	
28	405.51	405.73	406.70	405.76	408.30	407.47	406.24	406.16	405.71	405.14	405.13	405.17	
29	405.40	405.68	406.29	405.79	407.89	408.17	406.26	406.13	405.70	405.13	405.14	405.15	
30	405.36	405.76	405.79	405.60	407.30	408.05	406.27	406.12	405.66	405.13		405.11	
31		405.77		405.60	407.05		406.71		405.54	405.15		405.11	
Mean	405.13	405.91	405.49	405.74	407.06	407.31	406.70	406.28	405.93	405.24	405.14	405.22	
Max	405.56	406.40	406.70	406.89	408.30	408.60	407.95	406.54	406.11	405.45	405.26	405.53	408.60
Min	404.99	405.53	405.04	405.06	406.28	406.59	406.20	406.12	405.54	405.13	405.09	405.11	404.99
Annual Max Momentary Gage Height		408.69	m. (MSL.) ,		at 11.00 Hours , on Sep 15 , 2011								
Zero Gage at Bottom Elevation		405.10	m. (MSL.) ,		River Bed	404.42	m. (MSL)						
Left Bank Elevation			410.61	m. (MSL.) ,									
Right Bank Elevation			410.59	m. (MSL.) ,		Drainage Area	2909	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.35	13.90	21.20	19.20	53.60	121.30	232.50	73.20	42.15	10.30	4.12	3.95		
2	1.50	25.10	13.30	17.20	124.45	138.20	202.20	68.40	41.50	8.75	4.48	3.60		
3	1.50	36.30	12.10	16.80	203.50	121.30	164.50	66.00	41.50	8.75	5.75	3.42		
4	1.50	49.40	11.80	15.10	190.50	114.05	141.50	65.20	41.50	8.75	6.50	3.42		
5	1.50	38.90	11.80	15.70	103.60	112.15	127.60	63.60	40.20	8.25	5.50	3.77		
6	1.68	54.30	20.40	12.70	64.40	111.20	112.15	60.60	40.20	10.00	4.82	3.77		
7	2.02	33.35	25.65	7.25	56.40	118.15	96.00	58.50	39.55	7.50	4.30	3.60		
8	2.02	21.60	19.60	4.48	80.70	109.30	90.60	56.40	39.55	5.75	4.12	3.60		
9	2.02	18.40	14.50	3.42	63.60	103.60	97.90	56.40	39.55	5.25	3.95	3.42		
10	1.68	28.95	11.50	3.25	57.10	94.20	95.10	59.20	38.25	4.65	3.77	3.42		
11	1.68	47.35	8.50	2.55	79.80	90.60	88.80	55.00	36.95	4.30	3.60	3.60		
12	1.68	57.80	7.50	5.25	128.65	77.20	81.60	53.60	35.65	4.12	3.42	5.00		
13	2.20	36.95	7.50	6.75	197.00	133.90	74.00	53.60	35.00	4.30	3.25	13.90		
14	4.65	22.40	7.50	5.00	165.80	306.40	68.40	52.90	35.00	6.00	3.25	13.30		
15	2.37	19.20	7.25	21.20	119.20	352.00	66.00	52.20	35.00	11.50	3.25	13.90		
16	2.02	19.60	6.25	65.20	83.40	241.70	74.00	51.50	34.45	10.00	3.07	13.00		
17	1.85	22.80	2.37	82.50	82.50	167.10	88.80	50.80	34.45	8.25	3.25	11.20		
18	1.85	28.40	3.77	104.55	86.10	139.30	82.50	50.80	33.35	7.50	3.60	9.00		
19	2.55	46.70	3.77	63.60	87.00	140.40	89.70	50.10	32.25	6.50	3.42	7.00		
20	5.50	62.00	2.20	38.25	108.35	160.60	85.20	50.10	31.70	5.50	3.42	6.75		
21	4.48	56.40	5.25	55.70	151.40	173.60	80.70	48.70	31.15	4.82	3.42	6.00		
22	3.42	34.45	4.48	41.50	159.30	160.60	73.20	47.35	25.65	4.48	3.42	5.25		
23	3.07	22.80	2.90	23.20	140.40	140.40	59.20	47.35	24.00	4.30	3.25	4.65		
24	3.25	22.00	2.37	26.75	106.45	133.90	53.60	46.70	22.40	4.12	3.07	5.50		
25	4.65	17.20	2.55	47.35	99.80	144.80	53.60	45.40	20.80	4.12	3.25	5.00		
26	13.90	19.60	20.00	42.15	186.60	130.75	51.50	46.70	20.00	4.12	3.95	4.12		
27	14.80	39.55	82.50	23.60	189.20	133.90	48.00	46.70	20.80	4.48	3.95	3.95		
28	13.30	21.20	87.00	22.40	292.00	167.10	50.80	45.40	20.40	3.95	3.77	4.48		
29	10.00	19.20	54.30	23.60	223.50	268.90	52.20	43.45	20.00	3.77	3.95	4.12		
30	9.00	22.40	23.60	16.00	147.00	248.50	52.90	42.80	18.40	3.77		3.42		
31		22.80		16.00	120.25		87.90		14.20	4.12		3.42		
Total	122.99	981.00	503.41	848.20	3951.55	4655.10	2822.65	1608.65	985.55	191.97	112.87	182.53	16966.47	CMSDAY
Mean	4.10	31.65	16.78	27.36	127.47	155.17	91.05	53.62	31.79	6.19	3.89	5.89	46.36	CMS
Max	14.80	62.00	87.00	104.55	292.00	352.00	232.50	73.20	42.15	11.50	6.50	13.90	352.00	CMS
Min	1.35	13.90	2.20	2.55	53.60	77.20	48.00	42.80	14.20	3.77	3.07	3.42	1.35	CMS
Runoff	10.63	84.76	43.50	73.28	341.41	402.20	243.88	138.99	85.15	16.59	9.75	15.77	1465.90	MCM
Momentary Peak	372.25	CMS. at 408.69 m. (MSL.) at 11.00 Hours , on Sep 15 , 2011												
Runoff Yield	15.94	Liters/Second/Square KM.			Momentary Peak Yield		127.965	Liters/Second/Square KM.						

WATER YEAR : 2011

NAM MAE KOK RIVER BASIN

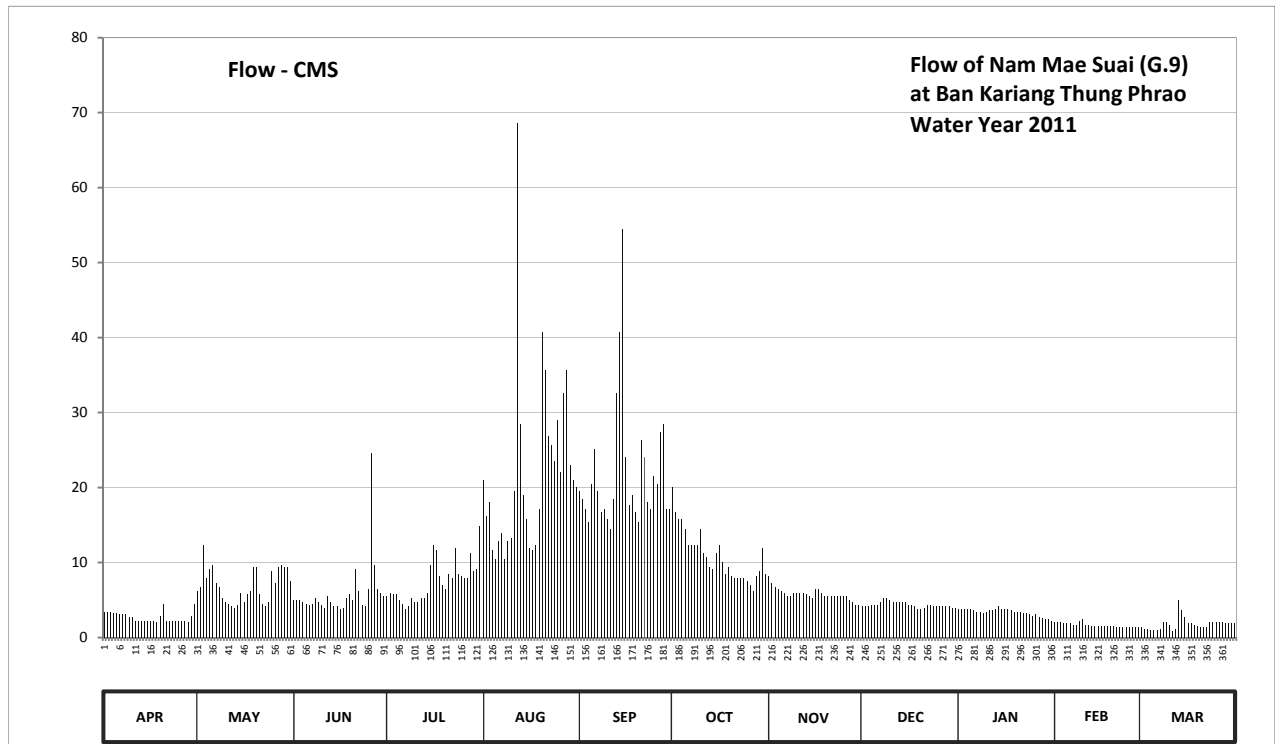
Nam Mae Suai at Ban Kariang Thung Phrao , Chiang Rai (G.9)

Lat 19 - 44 - 51 N Long 99 - 30 - 27 E

Location : on right bank at the bridge on road.

	Ban	Kariang Thung Phrao	Amphoe	Mae Suai	Changwat	Chiang Rai
Drainage Area	386	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+514.656	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 20 meters from the top staff gage.				Elevation	+522.091 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1998 to date					
Rating Operation						
Period of Rating	1998 to date					
Rated by Flot	-					
Rated by Current Meter	1998 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 39 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.45	6.25	5.00	5.50	21.00	19.50	20.00	8.20	4.15	3.80	2.05	1.35	
2	3.45	6.75	5.00	6.00	16.25	18.50	16.70	7.30	4.15	3.80	2.05	1.18	
3	3.45	12.40	5.00	5.75	18.05	17.15	15.80	6.75	4.15	3.80	2.05	1.18	
4	3.27	7.90	4.75	5.75	11.60	15.35	15.80	6.50	4.32	3.80	1.87	1.00	
5	3.27	9.10	4.50	5.00	10.40	20.50	14.45	6.25	4.32	3.80	1.87	1.00	
6	3.10	9.70	4.32	4.50	12.80	25.15	12.40	6.00	4.32	3.63	1.87	1.00	
7	3.10	7.30	4.50	3.80	14.00	19.50	12.40	5.50	4.75	3.45	1.70	1.18	
8	3.10	6.75	5.25	4.15	10.40	16.70	12.40	5.50	5.25	3.45	1.70	2.05	
9	2.75	5.25	4.75	5.25	12.80	17.15	12.40	6.00	5.25	3.27	2.23	2.05	
10	2.75	4.75	4.32	4.75	13.20	15.80	14.45	6.00	5.00	3.45	2.40	1.70	
11	2.23	4.50	3.97	4.75	19.50	14.45	11.20	6.00	4.75	3.63	1.70	0.80	
12	2.23	4.15	5.50	5.25	68.60	18.50	10.80	6.00	4.75	3.63	1.70	1.18	
13	2.23	3.97	4.75	5.25	28.45	32.60	9.40	5.75	4.75	3.80	1.53	5.00	
14	2.23	4.32	4.15	6.00	19.00	40.76	9.10	5.50	4.75	4.15	1.53	3.63	
15	2.23	6.00	4.15	9.70	15.80	54.50	11.20	5.25	4.75	3.80	1.53	2.75	
16	2.23	4.75	3.80	12.40	12.00	24.05	12.40	6.50	4.32	3.80	1.53	1.87	
17	2.23	5.75	3.97	11.60	11.60	17.60	10.00	6.50	4.32	3.80	1.53	1.87	
18	2.05	6.25	5.25	8.20	12.40	19.00	8.50	6.00	4.15	3.63	1.53	1.70	
19	2.92	9.40	5.75	7.00	17.15	16.70	9.40	5.50	3.80	3.45	1.53	1.53	
20	4.50	9.40	5.00	6.50	40.76	15.35	8.20	5.50	3.80	3.45	1.53	1.35	
21	2.23	5.75	9.10	8.50	35.64	26.25	7.90	5.50	3.97	3.45	1.35	1.35	
22	2.23	4.50	6.25	7.90	26.80	24.05	7.90	5.50	4.32	3.27	1.35	1.35	
23	2.23	4.15	4.32	12.00	25.70	18.05	7.90	5.50	4.32	3.27	1.35	2.05	
24	2.23	4.75	4.15	8.50	23.50	17.15	7.90	5.50	4.15	3.10	1.35	2.05	
25	2.23	8.80	6.50	8.20	29.00	21.50	7.60	5.50	4.15	2.92	1.35	2.05	
26	2.23	7.30	24.60	7.90	22.00	20.50	7.00	5.50	4.15	3.10	1.35	2.05	
27	2.23	9.40	9.70	7.90	32.60	27.35	6.25	5.00	4.15	2.75	1.35	2.05	
28	2.05	9.70	6.50	11.20	35.64	28.45	8.20	4.75	4.15	2.58	1.35	1.87	
29	2.92	9.40	6.00	8.80	23.00	17.15	8.80	4.32	4.15	2.40	1.35	1.87	
30	4.50	9.40	5.50	9.10	21.00	17.15	12.00	4.32	3.97	2.40		1.87	
31		7.60		14.90	20.00		8.50		3.97	2.23		1.87	
Total	81.85	215.39	176.30	232.00	680.64	656.41	336.95	173.89	135.25	104.86	47.58	55.80	2896.92

WATER YEAR : 2011

NAM MAE KOK RIVER BASIN

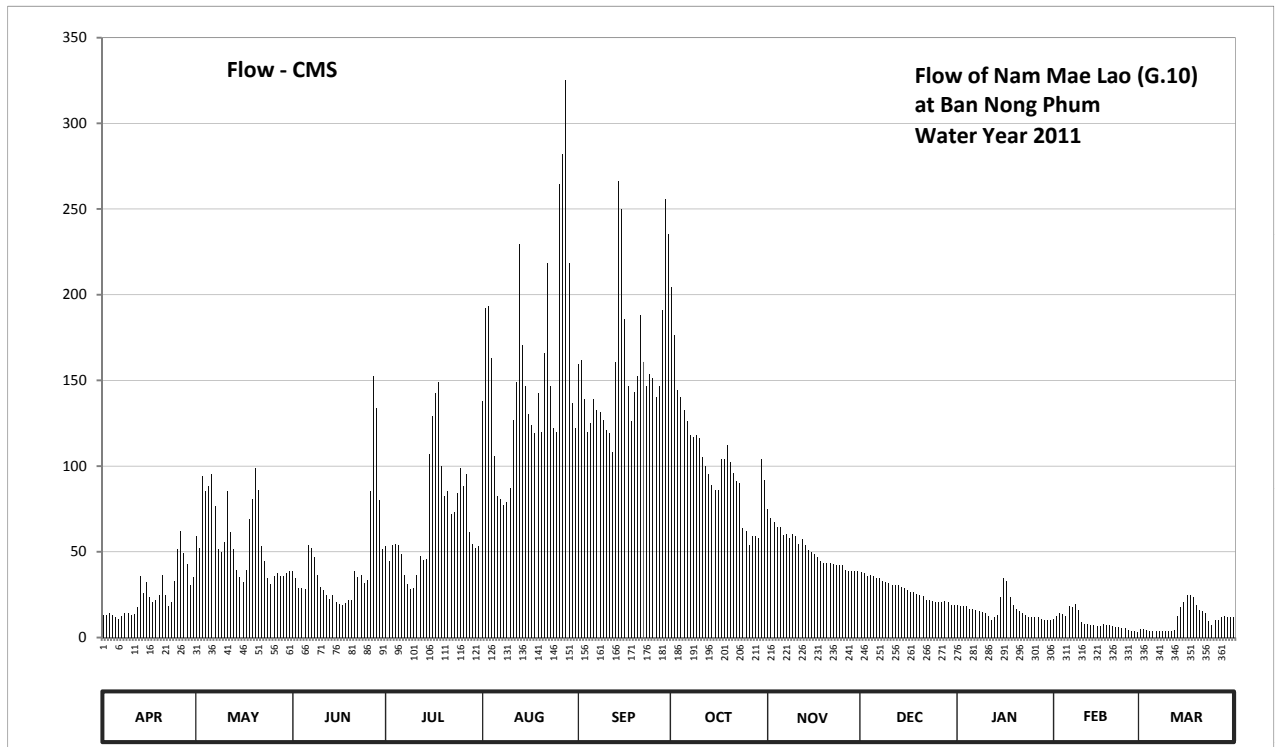
Nam Mae Lao at Ban Nong Phum , Chiang Rai (G.10)

Lat 19 - 39 - 21 N Long 99 - 32 - 50 E

Location : on right bank at Ban Nong Phum.

	Ban	Nong Phum	Amphoe	Mae Suai	Changwat	Chiang Rai
Drainage Area	2,614	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+433.473	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+439.133 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 40 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.95	58.95	38.80	53.20	137.90	159.60	204.20	74.87	38.00	18.80	11.00	4.95		
2	12.95	52.40	34.50	44.40	192.20	162.00	176.60	69.67	37.30	18.15	12.30	4.95		
3	14.25	94.00	28.90	54.00	193.50	139.00	144.50	67.20	35.90	18.15	14.25	4.40		
4	12.95	85.37	28.90	54.83	163.20	120.00	140.10	64.72	36.60	18.15	13.60	3.85		
5	11.65	88.00	28.20	54.00	106.00	125.00	132.40	64.72	35.90	16.85	12.30	3.85		
6	11.00	95.00	54.00	48.40	82.75	139.00	126.00	59.78	34.50	16.85	18.15	3.85		
7	12.30	76.63	52.40	36.60	81.00	132.40	118.00	60.60	34.50	16.20	17.50	3.85		
8	14.25	51.60	46.80	31.00	77.50	131.30	117.00	58.13	33.10	15.55	19.45	3.85		
9	14.25	50.00	36.60	28.20	79.25	127.00	118.00	60.60	32.40	14.90	16.20	3.85		
10	12.95	55.65	29.60	28.90	87.13	121.00	116.00	58.95	31.70	14.25	8.80	3.85		
11	13.60	85.37	27.50	36.60	127.00	119.00	105.00	54.83	30.30	12.30	7.70	3.85		
12	17.50	61.42	24.70	47.60	148.90	108.00	100.00	57.30	30.30	10.45	7.70	4.40		
13	35.90	51.60	22.70	45.20	229.45	160.80	95.00	54.00	30.30	11.65	7.15	12.30		
14	26.10	39.60	24.70	46.00	170.40	266.30	89.00	50.80	29.60	12.95	7.15	17.50		
15	32.40	35.20	20.75	107.00	146.70	249.75	86.25	50.00	28.90	23.35	6.60	20.75		
16	23.35	32.40	19.45	129.10	130.20	185.70	86.25	48.40	27.50	34.50	6.60	24.70		
17	20.75	39.60	18.80	142.30	124.00	146.70	104.00	46.80	26.80	33.10	7.70	24.70		
18	22.05	68.85	20.10	148.90	119.00	126.00	104.00	44.40	26.80	23.35	7.15	23.35		
19	24.70	81.00	22.05	100.00	142.30	143.40	112.00	43.60	25.40	18.80	7.15	18.80		
20	36.60	99.00	22.05	82.75	120.00	152.40	102.00	43.60	24.70	16.85	6.60	16.20		
21	24.70	86.25	38.80	85.37	165.60	188.30	96.00	43.60	24.00	15.55	6.05	15.55		
22	18.15	53.20	35.20	72.25	218.20	160.80	91.00	42.80	22.05	14.25	6.05	14.25		
23	20.75	44.40	36.60	73.13	146.70	146.70	90.00	42.00	22.05	12.95	5.50	9.35		
24	33.10	34.50	31.70	84.50	122.00	153.60	63.90	42.00	21.40	11.65	5.50	7.15		
25	51.60	31.00	33.80	99.00	120.00	151.20	62.25	42.00	20.75	11.65	4.40	10.45		
26	62.25	35.90	85.37	88.00	264.75	140.10	54.00	39.60	20.75	11.65	3.85	10.45		
27	49.20	37.30	152.40	95.00	281.80	146.70	58.95	38.80	20.75	11.65	3.85	11.65		
28	42.80	35.90	133.50	61.42	325.10	190.90	58.95	38.80	21.40	11.00	3.30	12.30		
29	30.30	35.90	80.12	54.83	218.20	255.55	58.13	38.80	20.75	10.45	4.40	11.65		
30	35.20	37.30	51.60	52.40	136.80	235.25	104.00	38.80	18.80	10.45		11.65		
31		38.80		53.20	122.00		92.00		18.80	10.45		11.65		
Total	750.50	1772.09	1280.59	2138.08	4779.53	4783.45	3205.48	1540.17	862.00	496.85	257.95	333.90	22200.59	CMSDAY
Mean	25.02	57.16	42.69	68.97	154.18	159.45	103.40	51.34	27.81	16.03	8.89	10.77	60.66	CMS
Max	62.25	99.00	152.40	148.90	325.10	266.30	204.20	74.87	38.00	34.50	19.45	24.70	325.10	CMS
Min	11.00	31.00	18.80	28.20	77.50	108.00	54.00	38.80	18.80	10.45	3.30	3.85	3.30	CMS
Runoff	64.84	153.11	110.64	184.73	412.95	413.29	276.95	133.07	74.48	42.93	22.29	28.85	1918.13	MCM
Momentary Peak	338.70 CMS. at 436.71 m. (MSL.) at 24.00 Hours , on Aug 27 , 2011													
Runoff Yield	23.20	Liters/Second/Square KM.				Momentary Peak Yield		129.572	Liters/Second/Square KM.					

WATER YEAR : 2011

NAM MAE KOK RIVER BASIN

Nam Mae Lao at Ban Don Salee , Chiang Rai (G.11)

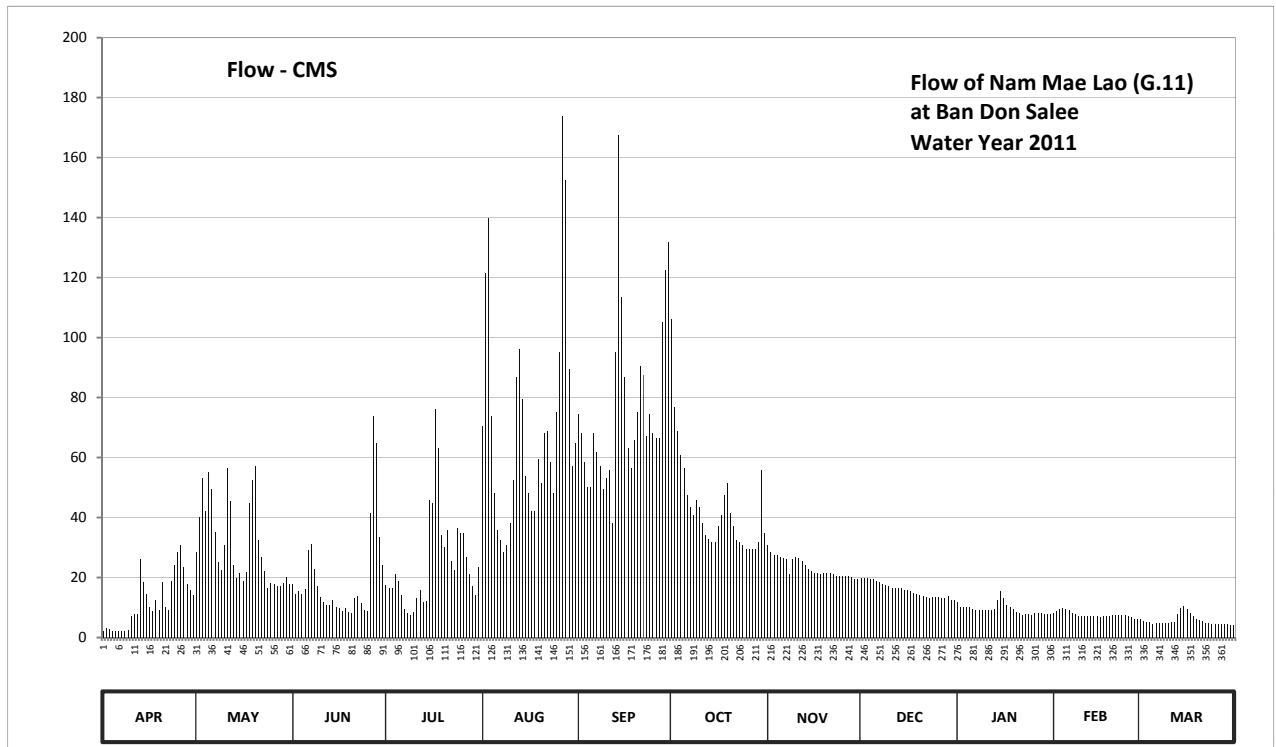
Lat 19 - 37 - 14 N Long 99 - 28 - 50 E

Location : on left bank at Ban Salee.

	Ban	Don Salee	Amphoe	Mae Suai	Changwat	Chiang Rai
Drainage Area	1,918	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+462.835	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+468.695 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 41 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	463.25	464.01	463.77	463.76	464.63	464.68	465.02	464.05	463.82	463.62	463.50	463.44	
2	463.31	464.21	463.69	463.74	465.16	464.60	464.71	464.01	463.82	463.57	463.53	463.42	
3	463.28	464.40	463.71	463.74	465.32	464.48	464.61	463.99	463.82	463.57	463.55	463.40	
4	463.25	464.24	463.69	463.85	464.67	464.36	464.51	463.99	463.81	463.57	463.56	463.40	
5	463.26	464.43	463.73	463.80	464.33	464.36	464.45	463.98	463.81	463.57	463.55	463.38	
6	463.26	464.35	464.02	463.68	464.14	464.60	464.32	463.97	463.80	463.55	463.54	463.39	
7	463.26	464.13	464.06	463.55	464.08	464.52	464.26	463.96	463.79	463.54	463.51	463.39	
8	463.26	463.94	463.90	463.51	464.01	464.46	464.22	463.85	463.77	463.54	463.49	463.39	
9	463.27	463.89	463.75	463.48	464.05	464.35	464.30	463.96	463.76	463.54	463.47	463.39	
10	463.47	464.05	463.66	463.52	464.18	464.40	464.26	463.98	463.75	463.54	463.47	463.39	
11	463.49	464.45	463.62	463.65	464.39	464.44	464.18	463.97	463.74	463.54	463.47	463.40	
12	463.49	464.29	463.59	463.72	464.82	464.18	464.11	463.95	463.74	463.54	463.47	463.40	
13	463.96	463.92	463.60	463.62	464.92	464.91	464.09	463.92	463.74	463.55	463.47	463.49	
14	463.79	463.82	463.64	463.63	464.74	465.54	464.07	463.90	463.74	463.64	463.47	463.56	
15	463.69	463.86	463.57	464.30	464.41	465.09	464.07	463.88	463.72	463.71	463.47	463.58	
16	463.57	463.80	463.56	464.28	464.33	464.82	464.16	463.86	463.72	463.65	463.46	463.55	
17	463.53	463.87	463.53	464.70	464.24	464.54	464.22	463.86	463.71	463.60	463.47	463.50	
18	463.64	464.28	463.56	464.54	464.24	464.45	464.32	463.85	463.70	463.57	463.47	463.47	
19	463.54	464.39	463.52	464.11	464.49	464.57	464.38	463.86	463.69	463.55	463.47	463.44	
20	463.79	464.46	463.51	464.04	464.38	464.69	464.23	463.86	463.68	463.52	463.48	463.43	
21	463.57	464.08	463.65	464.14	464.60	464.86	464.16	463.86	463.67	463.50	463.48	463.41	
22	463.54	463.98	463.67	463.95	464.61	464.83	464.08	463.85	463.66	463.48	463.48	463.39	
23	463.80	463.88	463.61	463.89	464.48	464.59	464.07	463.84	463.65	463.49	463.48	463.39	
24	463.92	463.74	463.54	464.15	464.33	464.68	464.05	463.84	463.66	463.49	463.48	463.38	
25	464.01	463.78	463.53	464.12	464.69	464.60	464.03	463.84	463.66	463.48	463.47	463.37	
26	464.05	463.77	464.23	464.12	464.91	464.58	464.03	463.84	463.66	463.50	463.46	463.37	
27	463.91	463.75	464.67	463.98	465.59	464.58	464.03	463.84	463.65	463.50	463.44	463.37	
28	463.77	463.75	464.56	463									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011

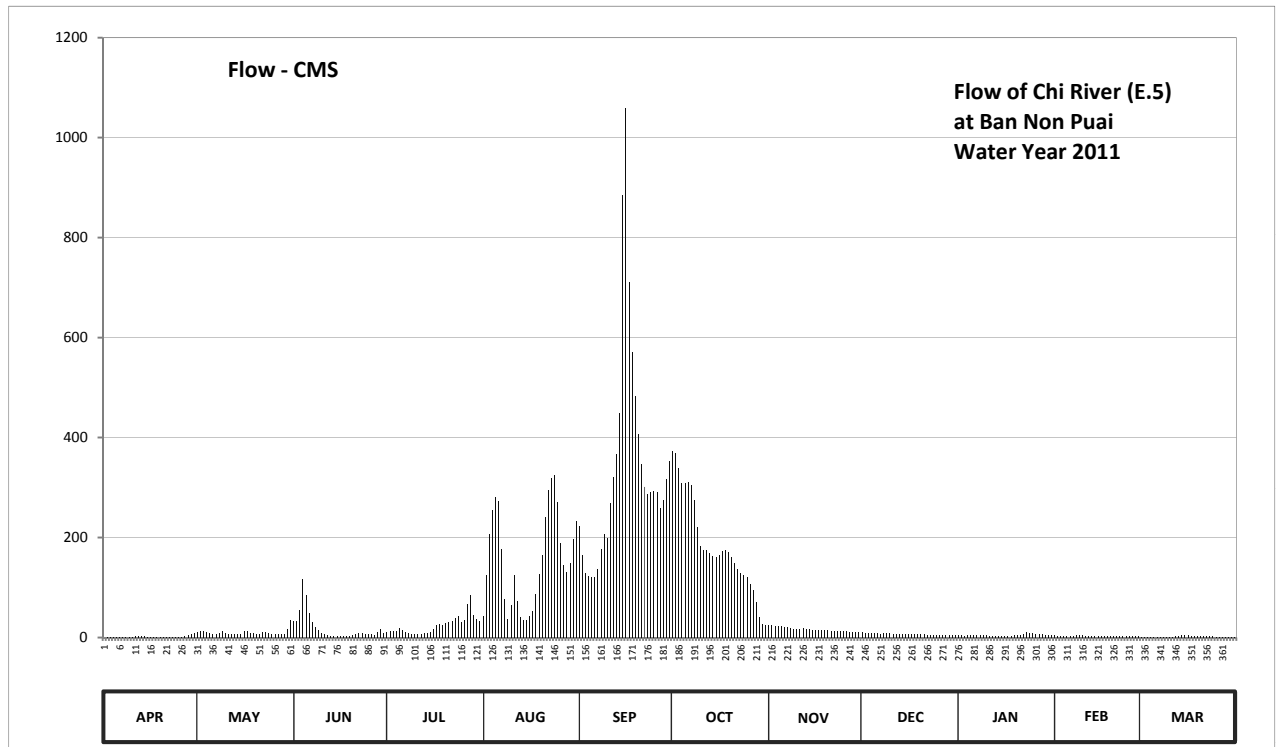
CHI RIVER BASIN

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

Lat 15 - 46 - 08 N Long 101 - 49 - 01 E

Location : on left bank near Ban Non Puai about 30 meters downstream from Ban Tango.

[illegible]



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	11.50	33.00	11.00	42.80	222.20	372.50	25.00	11.00	4.40	4.10	1.60	
2	0.20	12.50	33.70	13.00	125.00	164.90	367.90	24.00	10.00	4.10	3.50	1.40	
3	0.60	12.50	54.20	13.50	207.40	129.20	338.40	23.50	10.00	3.80	3.50	1.40	
4	0.40	11.50	117.60	13.50	254.10	123.80	309.60	23.00	9.50	4.10	3.50	1.20	
5	0.40	9.50	85.20	19.50	281.00	120.20	308.30	22.00	9.00	4.10	3.50	1.20	
6	0.20	7.70	47.80	15.00	273.70	121.20	311.50	21.50	8.00	4.40	3.80	1.20	
7	0.40	7.70	30.00	10.50	176.50	136.10	303.80	20.00	7.40	4.40	3.80	1.00	
8	0.80	9.50	21.00	8.50	77.40	177.80	275.40	18.50	8.00	4.40	4.10	1.00	
9	1.00	12.00	14.50	7.10	36.50	206.50	220.60	17.50	8.50	4.10	4.10	1.00	
10	1.60	9.50	9.00	6.50	64.90	198.20	182.40	17.00	8.00	4.10	4.10	1.20	
11	2.30	6.80	6.20	6.20	125.60	268.10	175.70	17.50	7.70	3.80	3.80	1.80	
12	2.30	6.50	4.10	7.10	73.00	320.50	174.80	18.50	7.40	3.80	3.80	2.90	
13	2.30	5.90	3.50	8.50	40.00	367.00	168.70	17.50	7.10	3.50	3.80	3.80	
14	2.00	6.20	2.60	8.00	35.80	448.00	163.40	16.50	6.80	3.50	3.50	4.70	
15	1.80	7.40	2.60	10.50	35.80	885.60	160.70	15.50	6.50	3.80	3.50	4.10	
16	1.60	13.50	2.30	17.00	43.50	1060.00	165.30	15.00	6.50	3.80	3.50	4.10	
17	1.20	12.00	2.30	26.00	52.60	710.60	172.90	15.00	6.50	3.80	3.50	3.80	
18	1.00	10.00	2.30	26.50	87.60	571.40	175.70	15.00	6.20	3.80	3.20	3.20	
19	0.60	9.00	3.20	26.00	126.20	483.40	171.70	14.50	5.90	4.10	3.20	3.20	
20	0.20	7.70	4.40	29.00	164.50	406.70	161.50	14.00	5.90	4.40	3.20	2.90	
21	0.20	7.70	6.50	31.00	241.40	345.80	148.90	13.50	5.90	4.70	2.90	2.60	
22	0.20	11.00	10.00	33.70	295.00	301.30	137.40	13.50	5.60	5.90	2.90	2.60	
23	0.40	10.50	8.00	39.30	317.90	287.70	129.50	12.50	5.60	11.00	2.90	2.00	
24	0.60	9.00	7.10	42.10	324.30	290.50	124.40	12.00	5.60	9.50	2.60	2.00	
25	1.00	7.10	6.50	31.50	270.30	293.80	120.60	12.00	5.30	8.50	2.60	1.80	
26	1.40	6.20	5.90	35.80	189.50	289.90	106.80	12.00	5.30	7.70	2.30	1.60	
27	2.60	6.20	5.60	67.60	144.90	258.60	94.80	11.50	5.00	7.40	2.30	1.40	
28	4.70	7.10	11.00	85.20	130.70	275.90	70.30	11.50	5.00	6.50	2.00	1.40	
29	6.80	7.70	18.00	44.20	148.20	316.00	40.00	11.00	5.00	5.60	2.00	1.60	
30	9.50	16.50	10.00	36.50	197.80	353.20	27.50	10.50	5.00	5.30		1.60	
31		35.80		32.00	232.60		26.00		4.70	4.40		1.40	
Total	48.30	313.70	568.10	761.80	4816.50	10134.10	5707.00	491.00	213.90	156.70	95.50	66.70	23373.30 CMSDAY
Mean	1.60	10.10	18.90	24.60	155.40	337.80	184.10	16.40	6.90	5.10	3.30	2.20	63.90 CMS
Max	9.50	35.80	117.60	85.20	324.30	1060.00	372.50	25.00	11.00	11.00	4.10	4.70	1060.00 CMS
Min	0.00	5.90	2.30	6.20	35.80	120.20	26.00	10.50	4.70	3.50	2.00	1.00	0.00 CMS
Runoff	4.17	27.10	49.08	65.82	416.15	875.59	493.08	42.42	18.48	13.54	8.25	5.76	2019.45 MCM
Momentary Peak	1261.99 CMS, at 198.61 m. (MSL), at 19.00 Hours, on Sep 15, 2011												
Runoff Yield	15.18	Liters/Second/Square KM.			Momentary Peak Yield			299.974	Liters/Second/Square KM.				

WATER YEAR : 2011

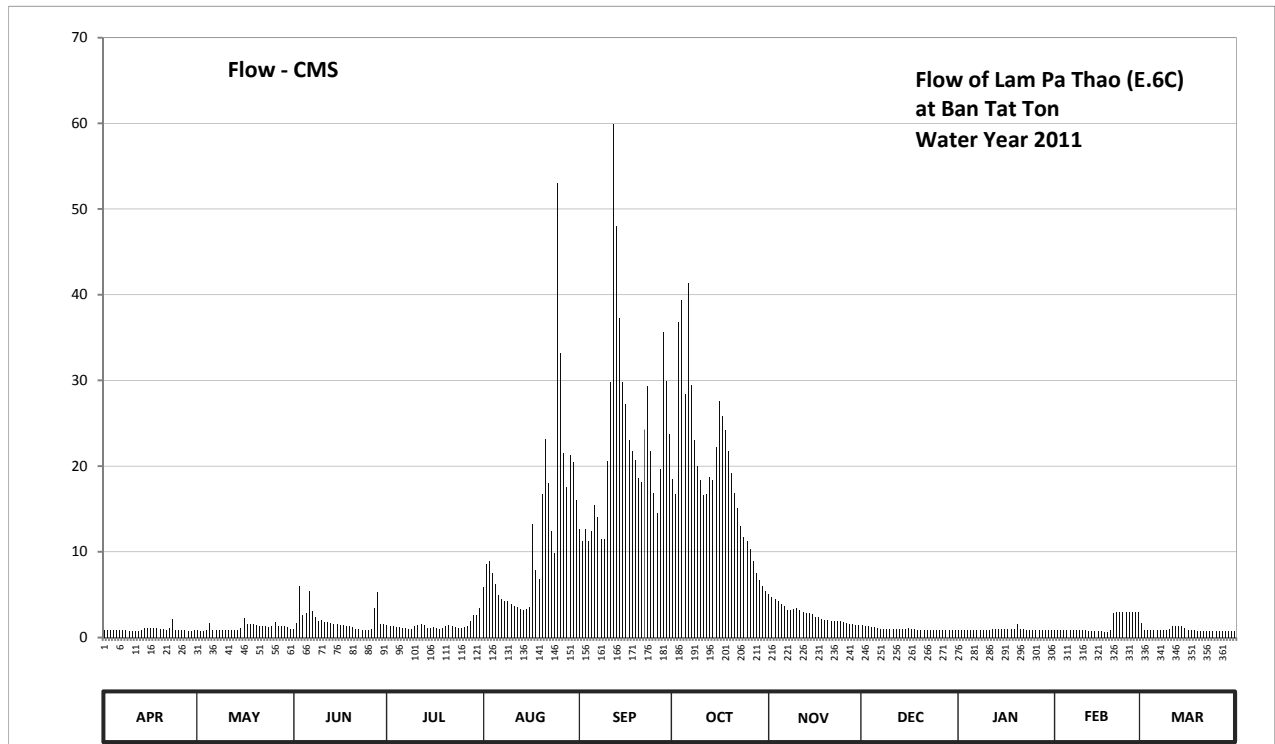
CHI RIVER BASIN

Lam Pa Thao at Ban Tat Ton , Chaiyaphum (E.6C)

Lat 15 - 57 - 43 N Long 102 - 02 - 00 E

Location : on right bank about 5 kilometers upstream from E.6A station at Ban Tat Ton.

[illegible]



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011**CHI RIVER BASIN****Chi River at Ban Chot , Khon Kaen (E.9)**

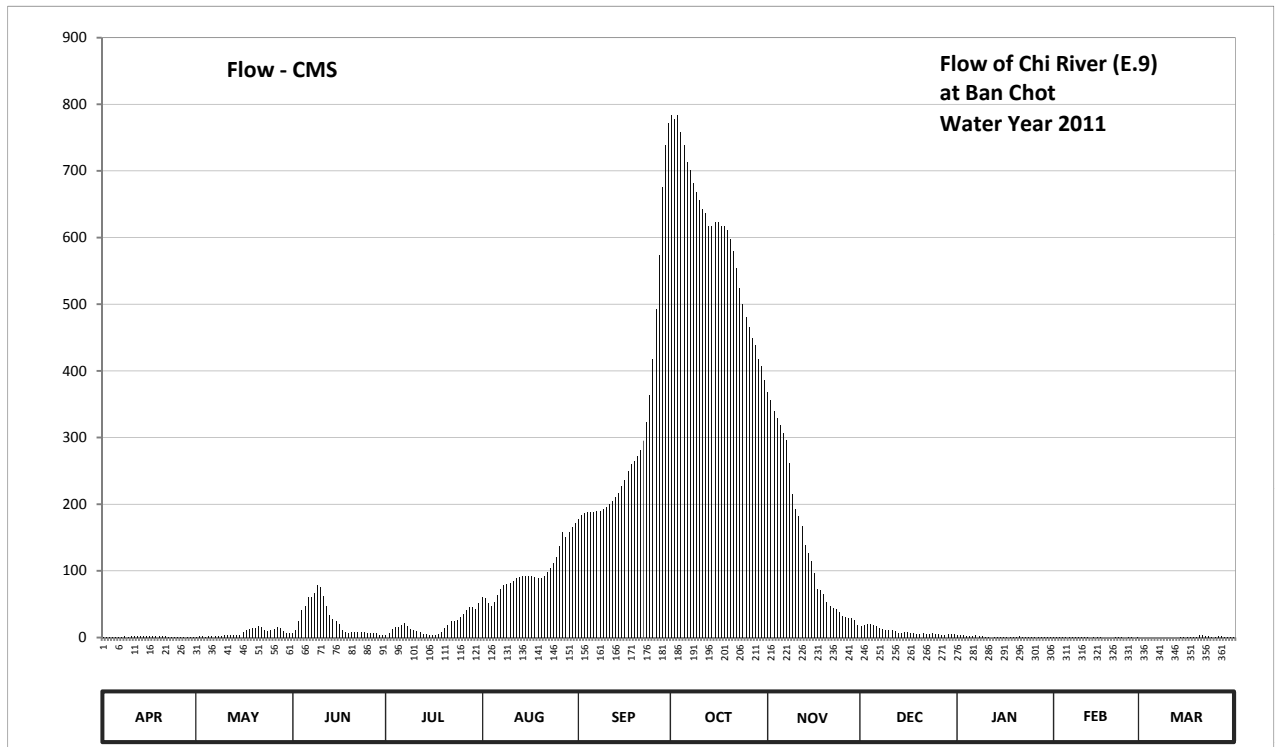
Lat 16 - 05 - 44 N Long 102 - 34 - 25 E

Location : on left bank about 80 meters downstream from the bridge on highway.

	Ban Chot	Amphoe Manchakhiri	Changwat Khon Kaen
Drainage Area	10,878 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+151.113 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank about 25 meters from the top staff gage.	Elevation	+167.014 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1958 to date		
Rating Operation			
Period of Rating	1967 - 1973, 1986 - 1987, 1992 to date		
Rated by Flot	-		
Rated by Current Meter	1967 - 1980, 1983 - 1987, 1992 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +161.690 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2011.		

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.52	152.52	153.16	152.88	156.25	159.74	162.40	161.59	153.99	152.90	152.50	152.18	
2	152.51	152.60	153.58	153.17	156.17	159.90	162.39	161.56	154.09	152.84	152.49	152.18	
3	152.49	152.57	154.48	153.67	155.89	159.97	162.40	161.52	154.17	152.76	152.48	152.21	
4	152.50	152.55	155.38	153.88	155.68	160.00	162.36	161.48	154.19	152.73	152.48	152.18	
5	152.51	152.57	155.63	153.90	155.97	160.01	162.33	161.43	154.14	152.72	152.48	152.15	
6	152.52	152.62	156.23	154.11	156.36	160.02	162.29	161.36	153.99	152.72	152.47	152.21	
7	152.55	152.60	156.26	154.28	156.69	160.03	162.27	161.30	153.77	152.76	152.47	152.14	
8	152.58	152.65	156.43	153.97	156.87	160.06	162.24	161.12	153.64	152.74	152.49	152.11	
9	152.56	152.74	156.86	153.71	156.94	160.13	162.22	160.68	153.61	152.61	152.47	152.14	
10	152.58	152.76	156.78	153.54	156.99	160.19	162.20	160.13	153.59	152.52	152.45	152.21	
11	152.64	152.79	156.30	153.48	157.09	160.29	162.18	159.86	153.53	152.42	152.36	152.23	
12	152.64	152.79	155.63	153.32	157.22	160.43	162.17	159.47	153.41	152.28	152.33	152.26	
13	152.64	152.78	154.96	153.00	157.29	160.56	162.14	158.69	153.25	152.33	152.31	152.29	
14	152.64	152.79	154.64	152.98	157.31	160.70	162.14	158.34	153.23	152.48	152.33	152.38	
15	152.65	152.90	154.47	152.89	157.32	160.83	162.15	158.03	153.28	152.46	152.41	152.40	
16	152.64	153.29	154.23	152.85	157.32	160.96	162.15	157.45	153.29	152.50	152.33	152.41	
17	152.64	153.58	153.62	152.87	157.30	161.05	162.14	156.64	153.11	152.40	152.18	152.42	
18	152.64	153.68	153.29	153.01	157.27	161.11	162.14	156.60	153.09	152.42	152.20	152.43	
19	152.64	153.77	153.24	153.31	157.24	161.13	162.13	156.41	153.08	152.51	152.23	152.55	
20	152.63	153.79	153.34	153.85	157.24	161.17	162.11	155.99	153.04	152.55	152.27	152.86	
21	152.60	153.96	153.36	154.15	157.30	161.22	162.08	155.63	153.09	152.59	152.32	152.76	
22	152.53	153.90	153.37	154.43	157.51	161.30	162.04	155.49	153.06	152.56	152.35	152.71	
23	152.51	153.57	153.34	154.50	157.71	161.45	161.99	155.42	153.01	152.55	152.35	152.66	
24	152.50	153.44	153.31	154.56	157.95	161.58	161.93	155.20	153.09	152.55	152.31	152.50	
25	152.51	153.54	153.24	154.79	158.19	161.72	161.88	154.92	153.04	152.54	152.34	152.54	
26	152.50	153.67	153.10	155.03	158.64	161.91	161.84	154.77	152.93	152.53	152.37	152.66	
27	152.48	153.90	153.18	155.34	159.22	162.07	161.80	154.72	152.89	152.53	152.30	152.58	
28	152.47	153.78	153.20	155.56	159.02	162.23	161.77	154.69	152.92	152.52	152.34	152.54	
29	152.48	153.40	152.89	155.55	159.24	162.33	161.72	154.57	152.94	152.51	152.51	152.52	
30	152.47	153.11	152.85	155.46	159.44	162.38	161.69	154.12	152.95	152.51		152.51	
31		153.10		155.85	159.58		161.64		152.94	152.51		152.50	
Mean	152.56	153.15	154.35	154.00	157.43	160.88	162.09	157.97	153.37	152.57	152.38	152.40	
Max	152.65	153.96	156.86	155.85	159.58	162.38	162.40	161.59	154.19	152.90	152.51	152.86	162.40
Min	152.47	152.52	152.85	152.85	155.68	159.74	161.64	154.12	152.89	152.28	152.18	152.11	152.11
Annual Max Momentary Gage Height	162.40		m. (MSL.) ,			at 01.00 Hours, on Oct 1, 2011							
Zero Gage at Bottom Elevation	151.11		m. (MSL.) ,			River Bed	148.99	m. (MSL)					
Left Bank Elevation	164.12		m. (MSL.) ,										
Right Bank Elevation	161.68		m. (MSL.) ,			Drainage Area	10878	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.16	1.16	6.60	4.04	61.00	177.60	784.00	367.28	16.86	4.20	1.00	0.00	
2	1.08	1.80	11.12	6.70	58.76	184.00	777.60	355.52	18.44	3.72	0.95	0.00	
3	0.95	1.56	24.68	12.38	51.80	186.80	784.00	339.84	19.72	3.08	0.90	0.00	
4	1.00	1.40	41.60	15.32	47.60	188.00	758.40	328.32	20.04	2.84	0.90	0.00	
5	1.08	1.56	46.60	15.60	53.40	188.40	739.20	319.12	19.24	2.76	0.90	0.00	
6	1.16	1.96	60.44	18.76	64.08	188.80	713.60	306.24	16.86	2.76	0.85	0.00	
7	1.40	1.80	61.28	21.48	73.32	189.20	700.80	295.20	13.78	3.08	0.85	0.00	
8	1.64	2.20	66.04	16.58	78.36	190.40	681.60	262.08	11.96	2.92	0.95	0.00	
9	1.48	2.92	78.08	12.94	80.32	193.20	668.80	215.20	11.54	1.88	0.85	0.00	
10	1.64	3.08	75.84	10.56	81.72	195.60	656.00	193.20	11.26	1.16	0.75	0.00	
11	2.12	3.32	62.40	9.80	84.88	199.60	643.20	182.40	10.42	0.60	0.30	0.00	
12	2.12	3.32	46.60	8.20	89.04	205.20	636.80	166.92	9.10	0.00	0.15	0.00	
13	2.12	3.24	33.28	5.00	91.28	210.40	617.60	138.84	7.50	0.15	0.05	0.00	
14	2.12	3.32	27.52	4.84	91.92	216.00	617.60	126.24	7.30	0.90	0.15	0.40	
15	2.20	4.20	24.52	4.12	92.24	226.40	624.00	115.08	7.80	0.80	0.55	0.50	
16	2.12	7.90	20.68	3.80	92.24	236.80	624.00	96.40	7.90	1.00	0.15	0.55	
17	2.12	11.12	11.68	3.96	91.60	249.20	617.60	71.92	6.10	0.50	0.00	0.60	
18	2.12	12.52	7.90	5.10	90.64	260.24	617.60	70.80	5.90	0.60	0.00	0.65	
19	2.12	13.78	7.40	8.10	89.68	263.92	611.20	65.48	5.80	1.08	0.00	1.40	
20	2.04	14.06	8.40	14.90	89.68	271.28	598.40	53.80	5.40	1.40	0.00	3.88	
21	1.80	16.44	8.60	19.40	91.60	280.48	579.20	46.60	5.90	1.72	0.10	3.08	
22	1.24	15.60	8.70	23.88	98.32	295.20	553.60	43.80	5.60	1.48	0.25	2.68	
23	1.08	10.98	8.40	25.00	104.72	322.80	524.08	42.40	5.10	1.40	0.25	2.28	
24	1.00	9.40	8.10	26.08	112.40	363.36	500.56	38.00	5.90	1.40	0.05	1.00	
25	1.08	10.56	7.40	30.22	120.84	418.24	480.96	32.56	5.40	1.32	0.20	1.32	
26	1.00	12.38	6.00	34.60	137.04	492.72	465.28	29.86	4.44	1.24	0.35	2.28	
27	0.90	15.60	6.80	40.80	157.92	572.80	449.60	28.96	4.12	1.24	0.00	1.64	
28	0.85	13.92	7.00	45.20	150.72	675.20	437.84	28.42	4.36	1.16	0.20	1.32	
29	0.90	9.00	4.12	45.00	158.64	739.20	418.24	26.26	4.52	1.08	1.08	1.16	
30	0.85	6.10	3.80	43.20	165.84	771.20	406.48	18.92	4.60	1.08		1.08	
31		6.00		51.00	171.20		386.88		4.52	1.08		1.00	
Total	44.49	222.20	791.58	586.56	3022.80	9152.24	18674.72	4405.66	287.38	49.63	12.73	26.82	37276.81 CMSDAY
Mean	1.48	7.17	26.39	18.92	97.51	305.07	602.41	146.86	9.27	1.60	0.44	0.87	101.85 CMS
Max	2.20	16.44	78.08	51.00	171.20	771.20	784.00	367.28	20.04	4.20	1.08	3.88	784.00 CMS
Min	0.85	1.16	3.80	3.80	47.60	177.60	386.88	18.92	4.12	0.00	0.00	0.00	0.00 CMS
Runoff	3.84	19.20	68.39	50.68	261.17	790.75	1613.50	380.65	24.83	4.29	1.10	2.32	3220.72 MCM
Momentary Peak	784.00 CMS, at 162.40 m. (MSL), at 01.00 Hours, on Oct 1, 2011												
Runoff Yield	9.36		Liters/Second/Square KM.		Momentary Peak Yield		72.072	Liters/Second/Square KM.					

WATER YEAR : 2011

CHI RIVER BASIN

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

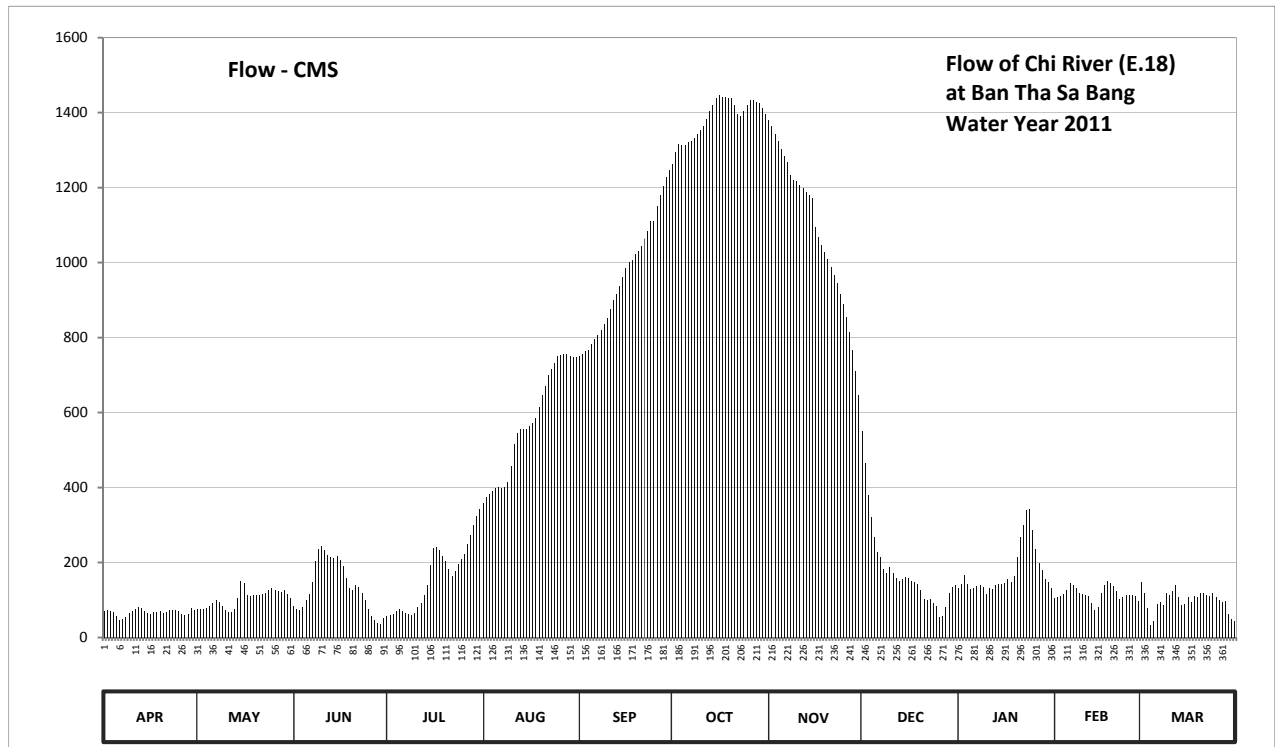
Lat 16 - 01 - 59 N Long 103 - 54 - 41 E

Location : on right bank at Ban Tha Sa Bang.

	Ban	Tha Sa Bang	Amphoe	Thung Khao Luang	Changwat	Roi Et
Drainage Area	41,187	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+122.240	m. (MSL.)				
Bench Mark	B.M.-	H.D.				
Location BM	On right bank at the abutment of the bridge.				Elevation	+132.496 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1954 to date					
Rating Operation						
Period of Rating	1974 to date					
Rated by Flot	-					
Rated by Current Meter	1974 to date					
Stability of Channel Regimes	Rather unstable.					
Overbank Flow Conditions	Overbank flow starts at elevation +132.520 m.(MSL.), records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 72 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	125.06	125.12	125.22	124.89	127.65	130.50	132.64	132.96	129.16	125.71	125.44	125.84	
2	125.08	125.12	125.13	124.93	127.78	130.54	132.73	132.92	128.50	125.79	125.48	125.57	
3	125.06	125.13	125.08	124.96	127.86	130.59	132.79	132.86	127.84	126.01	125.51	125.16	
4	125.02	125.15	125.18	125.07	127.93	130.61	132.78	132.81	127.34	125.80	125.55	124.51	
5	124.89	125.20	125.39	125.13	127.98	130.70	132.78	132.75	126.89	125.68	125.65	124.69	
6	124.71	125.30	125.56	125.05	128.01	130.78	132.80	132.70	126.54	125.69	125.82	125.28	
7	124.74	125.38	125.85	125.01	127.99	130.85	132.81	132.66	126.43	125.74	125.76	125.32	
8	124.85	125.32	126.35	124.97	128.00	130.93	132.83	132.56	126.15	125.76	125.71	125.25	
9	125.01	125.20	126.62	124.93	128.12	131.02	132.86	132.53	126.06	125.72	125.58	125.57	
10	125.06	125.09	126.68	125.01	128.44	131.10	132.89	132.52	126.19	125.56	125.55	125.52	
11	125.12	125.02	126.60	125.19	128.90	131.20	132.92	132.49	126.06	125.71	125.54	125.63	
12	125.18	125.02	126.48	125.29	129.12	131.30	132.97	132.46	125.94	125.67	125.50	125.76	
13	125.14	125.13	126.42	125.52	129.20	131.38	133.02	132.43	125.88	125.78	125.30	125.46	
14	125.05	125.45	126.41	125.76	129.19	131.47	133.06	132.40	125.92	125.80	125.08	125.23	
15	124.99	125.87	126.45	126.25	129.20	131.57	133.10	132.38	125.97	125.80	125.17	125.28	
16	124.96	125.81	126.37	126.65	129.26	131.68	133.12	132.12	125.93	125.81	125.57	125.46	
17	125.03	125.54	126.22	126.67	129.31	131.75	133.11	132.03	125.87	125.91	125.77	125.33	
18	125.02	125.51	125.94	126.59	129.40	131.77	133.11	131.95	125.85	125.84	125.86	125.50	
19	125.05	125.53	125.69	126.46	129.62	131.84	133.10	131.87	125.80	125.99	125.82	125.46	
20	125.01	125.53	125.66	126.35	129.85	131.88	133.10	131.78	125.65	126.43	125.74	125.58	
21	125.04	125.54	125.76	126.14	130.02	131.94	133.06	131.69	125.43	126.90	125.63	125.59	
22	125.08	125.55	125.72	125.98	130.19	132.02	133.00	131.60	125.40	127.17	125.42	125.52	
23	125.08	125.57	125.59	126.11	130.30	132.09	132.99	131.50	125.41	127.50	125.49	125.50	
24	125.09	125.66	125.38	126.28	130.39	132.17	133.02	131.38	125.31	127.51	125.54	125.57	
25	125.07	125.71	125.13	126.39	130.50	132.17	133.06	131.26	125.20	127.06	125.54	125.47	
26	124.97	125.65	124.89	126.51	130.53	132.31	133.09	131.11	124.85	126.63	125.54	125.39	
27	124.91	125.63	124.72	126.73	130.54	132.40	133.09	130.90	124.87	126.30	125.51	125.34	
28	124.97	125.60	124.57	126									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	70.40	75.80	84.80	58.00	358.00	749.00	1261.80	1380.20	550.40	133.10	104.60	147.40		
2	72.20	75.80	76.70	60.50	373.60	755.50	1295.10	1365.40	464.00	141.90	108.20	117.70		
3	70.40	76.70	72.20	62.40	383.20	763.60	1317.30	1343.20	380.80	166.20	111.10	79.40		
4	66.80	78.50	81.20	71.30	391.60	766.80	1313.60	1324.70	320.80	143.00	115.50	33.60		
5	58.00	83.00	100.10	76.70	397.60	781.40	1313.60	1302.50	267.30	129.80	126.50	45.20		
6	46.40	92.00	116.60	69.50	401.30	794.40	1321.00	1284.00	227.10	130.90	145.20	90.20		
7	48.40	99.20	148.50	65.90	398.80	805.70	1324.70	1269.20	214.50	136.40	138.60	93.80		
8	55.40	93.80	205.20	63.10	400.00	818.70	1332.10	1232.20	182.30	138.60	133.10	87.50		
9	65.90	83.00	236.30	60.50	415.40	834.60	1343.20	1221.10	171.90	134.20	118.80	117.70		
10	70.40	73.10	243.20	65.90	456.30	852.80	1354.30	1217.40	186.90	116.60	115.50	112.20		
11	75.80	66.80	234.00	82.10	515.20	875.60	1365.40	1207.00	171.90	133.10	114.40	124.30		
12	81.20	66.80	220.20	91.10	544.80	898.40	1383.90	1197.80	158.40	128.70	110.00	138.60		
13	77.60	76.70	213.30	112.20	556.00	916.60	1403.60	1188.70	151.80	140.80	92.00	106.40		
14	69.50	105.50	212.20	138.60	554.60	937.20	1420.80	1179.60	156.20	143.00	72.20	85.70		
15	64.40	150.70	216.70	193.80	556.00	960.00	1438.00	1173.50	161.70	143.00	80.30	90.20		
16	62.40	144.10	207.60	239.80	564.40	985.00	1446.60	1094.50	157.30	144.10	117.70	106.40		
17	67.70	114.40	190.30	242.00	571.40	1001.00	1442.30	1067.10	150.70	155.10	139.70	94.70		
18	66.80	111.10	158.40	232.80	584.00	1005.60	1442.30	1046.60	148.50	147.40	149.60	110.00		
19	69.50	113.30	130.90	217.90	614.80	1021.50	1438.00	1028.40	143.00	163.90	145.20	106.40		
20	65.90	113.30	127.60	205.20	647.00	1030.60	1438.00	1007.80	126.50	214.50	136.40	118.80		
21	68.60	114.40	138.60	181.10	671.20	1044.30	1420.80	987.30	103.70	268.50	124.30	119.90		
22	72.20	115.50	134.20	162.80	698.80	1064.10	1395.00	966.80	101.00	300.40	102.80	112.20		
23	72.20	117.70	119.90	177.70	716.60	1085.40	1391.30	944.00	101.90	340.00	109.10	110.00		
24	73.10	127.60	99.20	197.20	731.20	1109.70	1403.60	916.60	92.90	341.20	114.40	117.70		
25	71.30	133.10	76.70	209.80	749.00	1109.70	1420.80	889.30	83.00	287.20	114.40	107.30		
26	63.10	126.50	58.00	223.70	753.90	1152.20	1433.70	855.10	55.40	237.40	114.40	100.10		
27	59.20	124.30	47.10	249.00	755.50	1179.60	1433.70	813.80	56.70	199.50	111.10	95.60		
28	63.10	121.00	37.50	273.10	755.50	1203.90	1429.40	766.80	82.10	179.90	97.40	96.50		
29	77.60	125.40	36.80	299.20	750.60	1228.50	1425.10	710.10	118.80	156.20	125.40	63.70		
30	72.20	116.60	52.20	323.20	747.40	1247.00	1412.20	647.00	135.30	147.40		48.40		
31		104.60		343.60	747.40		1395.00		140.80	130.90		45.20		
Total	2017.70	3220.30	4076.20	5049.70	17761.10	28978.40	42956.20	32627.70	5563.60	5472.90	3387.90	3022.80	154134.50	CMSDAY
Mean	67.30	103.90	135.90	162.90	572.90	965.90	1385.70	1087.60	179.50	176.50	116.80	97.50	421.10	CMS
Max	81.20	150.70	243.20	343.60	755.50	1247.00	1446.60	1380.20	550.40	341.20	149.60	147.40	1446.60	CMS
Min	46.40	66.80	36.80	58.00	358.00	749.00	1261.80	647.00	55.40	116.60	72.20	33.60	33.60	CMS
Runoff	174.33	278.23	352.18	436.29	1534.56	2503.73	3711.42	2819.03	480.70	472.86	292.71	261.17	13317.22	MCM
Momentary Peak	1446.60	CMS, at 133.12 m. (MSL), at 04.00 Hours, on Oct 16, 2011												
Runoff Yield	10.22	Liters/Second/Square KM.		Momentary Peak Yield		35,123	Liters/Second/Square KM.							

WATER YEAR : 2011**CHI RIVER BASIN****Chi River at Maha Chana Chai , Yasothon (E.20A)**

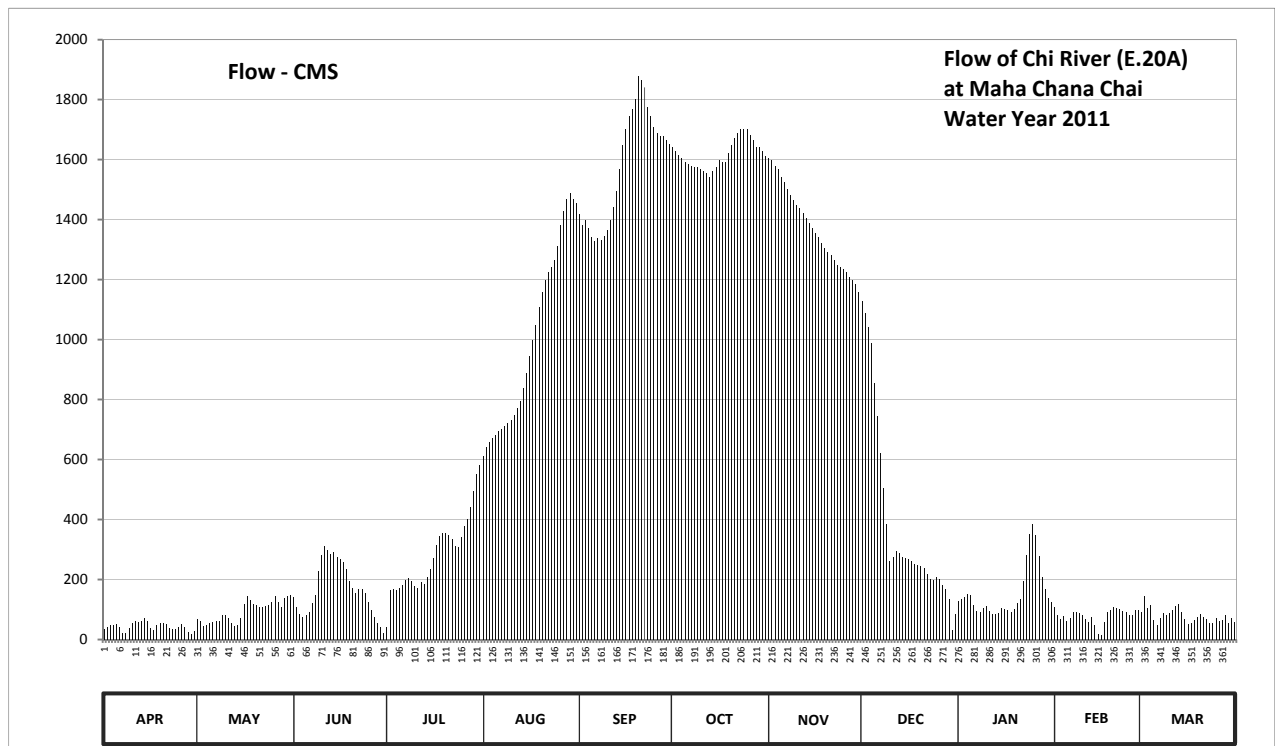
Lat 15 - 31 - 22 N Long 104 - 15 - 13 E

Location : on right bank about 800 meters upstream from E.20 station.

	Ban	Maha Chana Chai	Amphoe	Maha Chana Chai	Changwat	Yasothon
Drainage Area	47,800	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+112.000	m. (MSL.)				
Bench Mark	B.M.-	H.D.				
Location BM	On right bank at the abutment of the bridge.				Elevation	+126.610 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1973 to date					
Rating Operation						
Period of Rating	1974 to date					
Rated by Flot	-					
Rated by Current Meter	1974 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +119.310 m.(MSL.), records are channel flow only.					
General Description	Records fair. Tat Noi barrage situated downstream from the gage site.					
	Stage-discharge relation defined by 29 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.09	116.37	116.91	116.14	119.63	122.37	122.78	122.72	121.62	116.83	116.68	116.56	
2	116.16	116.30	116.69	116.36	119.76	122.28	122.76	122.71	121.51	116.86	116.48	116.94	
3	116.20	116.18	116.49	116.37	119.85	122.32	122.74	122.68	121.36	116.90	116.36	116.65	
4	116.20	116.19	116.43	116.36	119.91	122.26	122.72	122.66	121.19	116.97	116.44	116.73	
5	116.22	116.27	116.48	116.42	119.96	122.18	122.70	122.62	120.71	116.95	116.30	116.34	
6	116.14	116.28	116.55	116.53	120.02	122.15	122.69	122.59	120.25	116.72	116.39	116.21	
7	115.99	116.30	116.78	116.68	120.05	122.17	122.68	122.55	119.68	116.57	116.55	116.39	
8	115.99	116.31	116.96	116.75	120.10	122.16	122.67	122.52	119.02	116.55	116.56	116.53	
9	116.12	116.46	117.48	116.66	120.14	122.19	122.67	122.49	118.26	116.65	116.52	116.48	
10	116.26	116.48	117.80	116.50	120.18	122.24	122.66	122.45	117.31	116.70	116.48	116.52	
11	116.31	116.40	117.96	116.43	120.26	122.32	122.65	122.42	117.42	116.57	116.36	116.61	
12	116.29	116.26	117.89	116.63	120.37	122.43	122.64	122.38	117.59	116.50	116.28	116.71	
13	116.32	116.17	117.82	116.55	120.47	122.54	122.62	122.34	117.53	116.50	116.41	116.74	
14	116.39	116.21	117.85	116.78	120.65	122.66	122.65	122.30	117.42	116.52	116.21	116.55	
15	116.31	116.39	117.76	117.06	120.85	122.79	122.67	122.26	117.38	116.66	115.94	116.36	
16	116.13	116.76	117.72	117.39	121.05	122.88	122.71	122.22	117.35	116.63	115.92	116.23	
17	116.07	116.94	117.67	117.72	121.22	122.95	122.70	122.18	117.31	116.61	116.29	116.27	
18	116.20	116.85	117.51	117.96	121.38	122.99	122.70	122.13	117.21	116.55	116.54	116.35	
19	116.26	116.75	117.26	118.04	121.56	123.02	122.75	122.09	117.17	116.62	116.60	116.41	
20	116.26	116.72	117.10	118.03	121.70	123.08	122.79	122.06	117.15	116.78	116.69	116.50	
21	116.23	116.68	116.99	118.00	121.81	123.07	122.83	122.03	117.09	116.87	116.65	116.43	
22	116.12	116.69	117.09	117.88	121.88	123.05	122.86	121.99	116.88	117.27	116.63	116.37	
23	116.08	116.71	117.08	117.70	121.93	123.00	122.88	121.95	116.73	117.80	116.58	116.26	
24	116.08	116.73	117.00	117.69	121.99	122.95	122.88	121.93	116.70	118.16	116.54	116.26	
25	116.16	116.80	116.80	117.93	122.11	122.89	122.88	121.91	116.78	118.32	116.47	116.39	
26	116.22	116.93	116.60	118.21	122.28	122.86	122.85	121.88	116.73	118.15	116.48	116.31	
27	116.16	116.81	116.41	118.38	122.40	122.84	122.82	121.84	116.53	117.77	116.60	116.33	
28	116.01	116.68	116.25	118.64	122.50	122.84	122.78	121.81	116.37	117.35	116.61	116.47	
29	115.96	116.89	116.14	118.97	122.53	122.82	122.78	121.77	116.02	117.09	116.52	116.27	
30	116.02	116.93	115.98	119.30	122.50	122.80	122.76	121.70	116.07	116.89		116.39	
31		116.96		119.48	122.46		122.73		116.50	116.79		116.28	
Mean	116.17	116.56	117.05	117.40	121.08	122.64	122.74	122.24	117.96	116.97	116.45	116.45	
Max	116.39	116.96	117.96	119.48	122.53	123.08	122.88	122.72	121.62	118.32	116.69	116.94	123.08
Min	115.96	116.17	115.98	116.14	119.63	122.15	122.62	121.70	116.02	116.50	115.92	116.21	115.92
Annual Max Momentary Gage Height	123.09		m. (MSL.) ,			at 10.00 Hours, on Sep 20, 2011							
Zero Gage at Bottom Elevation	112.00		m. (MSL.) ,			River Bed	111.15	m. (MSL)					
Left Bank Elevation		119.31	m. (MSL.) ,										
Right Bank Elevation		126.93	m. (MSL.) ,			Drainage Area	47800	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.80	68.40	141.50	40.80	612.30	1417.50	1640.80	1604.20	1128.90	129.50	108.40	92.80	
2	43.20	60.00	109.70	166.40	639.60	1381.10	1628.60	1598.10	1088.70	134.00	82.40	146.00	
3	48.00	45.60	83.70	167.30	658.50	1397.30	1616.40	1579.80	1041.00	140.00	67.20	104.50	
4	48.00	46.80	75.90	166.40	671.10	1373.00	1604.20	1567.60	987.70	150.50	77.20	115.20	
5	50.40	56.40	82.40	171.80	681.60	1340.70	1592.00	1543.20	853.80	147.50	60.00	64.80	
6	40.80	57.60	91.50	182.00	694.40	1328.60	1585.90	1524.90	745.00	113.80	70.80	49.20	
7	22.80	60.00	122.20	197.00	701.00	1336.70	1579.80	1500.50	622.80	94.10	91.50	70.80	
8	22.80	61.20	149.00	204.00	712.00	1332.60	1573.70	1482.20	503.40	91.50	92.80	88.90	
9	38.40	79.80	228.80	195.00	720.80	1344.80	1573.70	1466.00	386.40	104.50	87.60	82.40	
10	55.20	82.40	282.00	179.00	729.60	1365.00	1567.60	1449.80	263.10	111.00	82.40	87.60	
11	61.20	72.00	312.40	172.70	747.20	1397.30	1561.50	1437.70	275.40	94.10	67.20	99.30	
12	58.80	55.20	299.10	192.00	771.40	1441.70	1555.40	1421.50	296.70	85.00	57.60	112.40	
13	62.40	44.40	285.80	184.00	793.40	1494.40	1543.20	1405.40	288.90	85.00	73.30	116.60	
14	70.80	49.20	291.50	207.00	838.40	1567.60	1561.50	1389.20	275.40	87.60	49.20	91.50	
15	61.20	70.80	275.20	235.60	889.60	1646.90	1573.70	1373.00	270.80	105.80	16.80	67.20	
16	39.60	119.40	268.40	271.90	943.70	1701.80	1598.10	1356.90	267.50	101.90	14.40	51.60	
17	32.40	146.00	259.90	313.60	997.10	1744.50	1592.00	1340.70	263.10	99.30	58.80	56.40	
18	48.00	132.50	233.60	344.80	1047.30	1768.90	1592.00	1320.50	252.10	91.50	90.20	66.00	
19	55.20	118.00	194.00	355.60	1107.00	1801.20	1622.50	1304.40	247.70	100.60	98.00	73.30	
20	55.20	113.80	170.00	354.20	1158.20	1880.00	1646.90	1292.20	245.50	122.20	109.70	85.00	
21	51.60	108.40	153.50	350.00	1198.50	1866.90	1671.30	1280.10	238.90	135.50	104.50	75.90	
22	38.40	109.70	168.50	334.40	1224.10	1840.60	1689.60	1264.30	217.00	195.50	101.90	68.40	
23	33.60	112.40	167.00	311.00	1242.40	1775.00	1701.80	1249.70	202.00	282.00	95.40	55.20	
24	33.60	115.20	155.00	309.70	1264.30	1744.50	1701.80	1242.40	199.00	352.00	90.20	55.20	
25	43.20	125.00	125.00	340.90	1312.40	1707.90	1701.80	1235.10	207.00	384.00	81.10	70.80	
26	50.40	144.50	98.00	379.40	1381.10	1689.60	1683.50	1224.10	202.00	350.00	82.40	61.20	
27	43.20	126.50	73.30	403.20	1429.60	1677.40	1665.20	1209.40	182.00	276.90	98.00	63.60	
28													

WATER YEAR : 2011

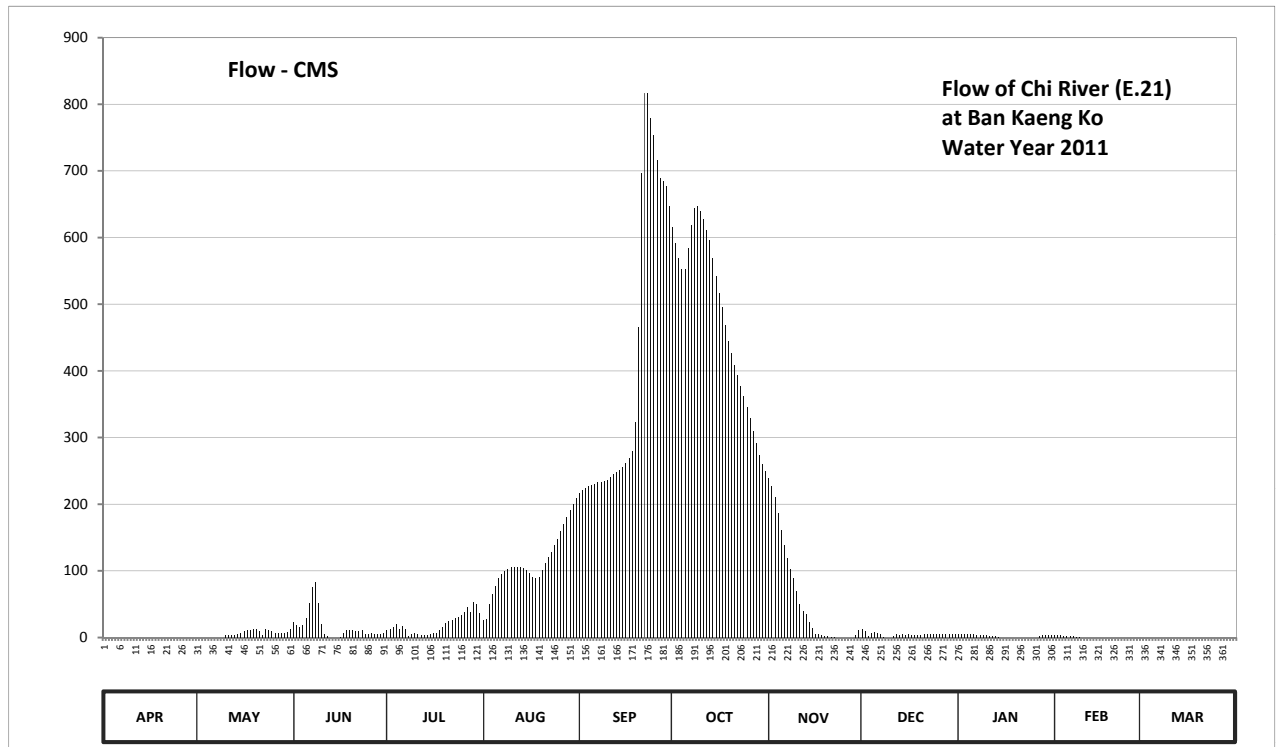
CHI RIVER BASIN

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

Lat 15 - 45 - 07 N Long 102 - 15 - 25 E

Location : on left bank about 75 meters upstream from the bridge on highway.

	Ban	Kaeng Ko		Amphoe	Mueang		Changwat	Chaiphaphum					
Drainage Area	8,777	sq.km.											
Type of Gage	Staff gage												
Zero Gage at Bottom	+164.980	m. (MSL.)											
Bench Mark	B.M.- H.D.												
Location BM	In front of the automatic gage buiding.					Elevation	+177.385 m. (MSL.)						
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.												
Basis of Mean Daily Gage Height	Arithmetic means of 3 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 Flot	-												
Rated by Current Meter	1968 - 1971 , 1973 - 1974 , 1982 to date												
Stability of Channel Regimes	Rather unstable.												
Overbank Flow Conditions	No overbank flow.												
General Description	Records fair. The rubber weir situated about 2 kilometers downstream from the gage site.												
	Stage-discharge relation defined by 18 discharge measurements made in 2011.												
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	166.31	166.10	167.78	167.58	167.83	171.83	174.30	172.31	167.61	167.43	167.37	166.44	
2	166.31	166.10	167.72	167.61	167.86	171.92	174.24	172.05	167.56	167.45	167.36	166.41	
3	166.31	166.10	167.68	167.66	168.16	172.01	174.18	171.67	167.31	167.45	167.35	166.38	
4	166.30	166.36	167.73	167.74	168.31	172.07	174.13	171.05	167.50	167.44	167.34	166.33	
5	166.30	166.89	167.88	167.61	168.43	172.10	174.13	170.42	167.52	167.44	167.34	166.29	
6	166.30	166.62	168.17	167.70	168.59	172.12	174.22	169.86	167.49	167.42	167.32	166.25	
7	166.28	166.62	168.42	167.62	168.78	172.17	174.31	169.38	167.46	167.41	167.30	166.21	
8	166.26	166.82	168.48	167.33	168.88	172.19	174.37	168.95	167.25	167.41	167.26	166.20	
9	166.24	167.13	168.17	167.46	168.97	172.22	174.38	168.59	166.73	167.40	167.21	166.19	
10	166.22	167.37	167.74	167.49	169.04	172.25	174.36	168.36	166.88	167.37	167.17	166.18	
11	166.22	167.40	167.45	167.44	169.06	172.32	174.33	168.16	167.30	167.34	167.14	166.18	
12	166.22	167.38	167.31	167.39	169.06	172.42	174.29	168.03	167.42	167.31	167.10	166.19	
13	166.23	167.39	167.19	167.38	169.04	172.48	174.25	167.95	167.40	167.28	167.07	166.19	
14	166.25	167.43	167.13	167.37	169.00	172.53	174.18	167.79	167.42	167.23	167.03	166.19	
15	166.23	167.49	167.02	167.46	168.93	172.61	174.10	167.64	167.40	167.18	166.99	166.18	
16	166.22	167.54	167.22	167.48	168.81	172.71	174.02	167.46	167.42	166.86	166.96	166.18	
17	166.23	167.58	167.51	167.50	168.67	172.82	173.95	167.44	167.40	166.73	166.92	166.18	
18	166.21	167.59	167.58	167.59	168.60	172.93	173.86	167.38	167.39	166.67	166.88	166.18	
19	166.19	167.63	167.59	167.68	168.68	173.25	173.78	167.34	167.40	166.61	166.84	166.18	
20	166.15	167.60	167.57	167.77	168.94	173.85	173.71	167.31	167.41	166.58	166.79	166.19	
21	166.14	167.55	167.55	167.80	169.19	174.50	173.64	167.26	167.44	166.59	166.76	166.18	
22	166.13	167.40	167.54	167.83	169.42	174.69	173.58	167.21	167.44	166.62	166.73	166.15	
23	166.13	167.61	167.57	167.87	169.61	174.69	173.51	167.16	167.46	166.62	166.70	166.11	
24	166.14	167.57	167.42	167.90	169.86	174.63	173.44	167.12	167.45	166.63	166.68	166.05	
25	166.13	167.56	167.45	167.93	170.11	174.59	173.37	167.09	167.46	166.70	166.65	166.03	
26	166.12	167.47	167.47	168.00	170.38	174.53	173.28	167.06	167.45	167.00	166.60	166.01	
27	166.12	167.50	167.46	168.11	170.66	174.48	173.16	167.03	167.43	167.31	166.58	165.98	
28	166.11	167.50	167.45	168.00	170.91	174.47	173.03	167.00	167.44	167.40	166.55	165.98	
29	166.13	167.51	167.44	168.19	171.17	174.45	172.87	167.35	167.44	167.40	166.49	165.97	
30	166.13	167.52	167.50	168.16	171.42	174.38	172.69	167.59	167.45	167.41		165.96	
31		167.60		167.97	171.63		172.51		167.45	167.39		165.95	
Mean	166.21	167.22	167.61	167.70	169.29	173.14	173.81	168.37	167.39	167.13	166.98	166.16	
Max	166.31	167.63	168.48	168.19	171.63	174.69	174.38	172.31	167.61	167.45	167.37	166.44	174.69
Min	166.11	166.10	167.02	167.33	167.83	171.83	172.51	167.00	166.73	166.58	166.49	165.95	165.95
Annual Max Momentary Gage Height	174.71		m. (MSL.) ,			at 20.00 Hours, on Sep 22, 2011							
Zero Gage at Bottom Elevation	164.98		m. (MSL.) ,		River Bed	163.43		m. (MSL)					
Left Bank Elevation	175.28		m. (MSL.) ,										
Right Bank Elevation	175.40		m. (MSL.) ,		Drainage Area	8777	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	22.60	11.00	26.10	217.20	615.00	239.50	12.50	4.90	3.40	0.00		
2	0.00	0.00	18.40	12.50	28.20	220.80	591.60	226.50	10.00	5.50	3.20	0.00		
3	0.00	0.00	16.00	15.00	50.40	224.50	569.20	210.80	2.20	5.50	3.00	0.00		
4	0.00	0.00	19.10	19.80	65.00	227.50	552.20	186.00	7.00	5.20	2.80	0.00		
5	0.00	0.00	29.60	12.50	77.60	229.00	552.20	160.80	8.00	5.20	2.80	0.00		
6	0.00	0.00	51.30	17.00	88.70	230.00	583.80	138.40	6.70	4.60	2.40	0.00		
7	0.00	0.00	76.40	13.00	95.20	232.50	619.10	119.20	5.80	4.30	2.00	0.00		
8	0.00	0.00	83.60	2.60	99.20	233.50	643.70	102.00	1.00	4.30	1.20	0.00		
9	0.00	0.00	51.30	5.80	102.80	235.00	647.80	88.70	0.00	4.00	0.20	0.00		
10	0.00	3.40	19.80	6.70	105.60	236.50	639.60	70.00	0.00	3.40	0.00	0.00		
11	0.00	4.00	5.50	5.20	106.40	240.00	627.30	50.40	2.00	2.80	0.00	0.00		
12	0.00	3.60	2.20	3.80	106.40	245.00	611.10	40.10	4.60	2.20	0.00	0.00		
13	0.00	3.80	0.00	3.60	105.60	248.00	595.50	34.50	4.00	1.60	0.00	0.00		
14	0.00	4.90	0.00	3.40	104.00	250.80	569.20	23.30	4.60	0.60	0.00	0.00		
15	0.00	6.70	0.00	5.80	101.20	255.60	542.00	14.00	4.00	0.00	0.00	0.00		
16	0.00	9.00	0.40	6.40	96.40	261.70	516.40	5.80	4.60	0.00	0.00	0.00		
17	0.00	11.00	7.50	7.00	91.10	269.60	495.00	5.20	4.00	0.00	0.00	0.00		
18	0.00	11.50	11.00	11.50	89.00	279.30	468.00	3.60	3.80	0.00	0.00	0.00		
19	0.00	13.50	11.50	16.00	91.40	323.50	444.80	2.80	4.00	0.00	0.00	0.00		
20	0.00	12.00	10.50	21.90	101.60	465.00	426.60	2.20	4.30	0.00	0.00	0.00		
21	0.00	9.50	9.50	24.00	111.60	697.00	408.40	1.20	5.20	0.00	0.00	0.00		
22	0.00	4.00	9.00	26.10	120.80	816.70	393.40	0.20	5.20	0.00	0.00	0.00		
23	0.00	12.50	10.50	28.90	128.40	816.70	377.30	0.00	5.80	0.00	0.00	0.00		
24	0.00	10.50	4.60	31.00	138.40	778.90	361.20	0.00	5.50	0.00	0.00	0.00		
25	0.00	10.00	5.50	33.10	148.40	753.70	346.00	0.00	5.80	0.00	0.00	0.00		
26	0.00	6.10	6.10	38.00	159.20	715.90	328.60	0.00	5.50	0.00	0.00	0.00		
27	0.00	7.00	5.80	45.90	170.40	688.80	309.00	0.00	4.90	2.20	0.00	0.00		
28	0.00	7.00	5.50	38.00	180.40	684.70	290.90	0.00	5.20	4.00	0.00	0.00		
29	0.00	7.50	5.20	53.10	190.80	676.50	273.60	3.00	5.20	4.00	0.00	0.00		
30	0.00	8.00	7.00	50.40	200.80	647.80	260.40	11.50	5.50	4.30		0.00		
31		12.00		35.90	209.20		249.60		5.50	3.80		0.00		
Total	0.00	177.50	505.40	604.90	3490.30	12401.70	14908.50	1739.70	152.40	72.40	21.00	0.00	34073.80	CMSDAY
Mean	0.00	5.73	16.85	19.51	112.59	413.39	480.92	57.99	4.92	2.34	0.72	0.00	93.10	CMS
Max	0.00	13.50	83.60	53.10	209.20	816.70	647.80	239.50	12.50	5.50	3.40	0.00	816.70	CMS
Min	0.00	0.00	0.00	2.60	26.10	217.20	249.60	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	15.34	43.67	52.26	301.56	1071.51	1288.09	150.31	13.17	6.26	1.81	0.00	2943.98	MCM
Momentary Peak	830.71 CMS, at 174.71 m. (MSL), at 20.00 Hours, on Sep 22, 2011													
Runoff Yield	10.61	Liters/Second/Square KM.			Momentary Peak Yield			94.646	Liters/Second/Square KM.					

WATER YEAR : 2011

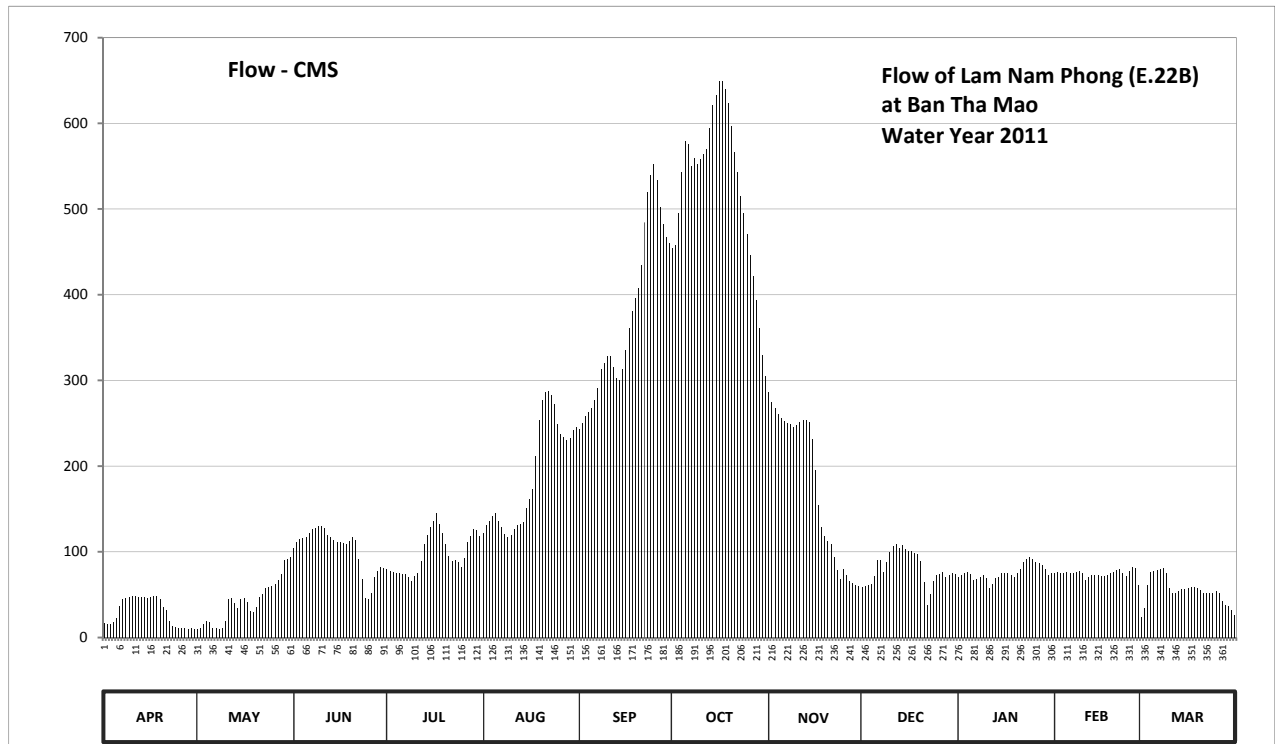
CHI RIVER BASIN

Lam Nam Phong at Ban Tha Mao , Khon Kaen (E.22B)

Lat 16 - 39 - 13 N Long 102 - 49 - 39 E

Location : on right bank at Ban Tha Mao.

[illegible]



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.40	10.05	104.00	79.30	121.60	243.00	454.10	286.50	59.20	70.60	75.40	24.20	
2	15.40	11.25	111.35	78.10	130.80	249.60	457.40	274.80	59.50	73.30	76.00	34.50	
3	16.00	16.00	114.85	76.60	136.00	258.00	495.00	268.20	60.70	75.70	75.40	60.70	
4	17.60	19.80	115.55	75.70	141.60	262.80	542.80	261.00	62.80	76.30	75.70	76.00	
5	22.20	17.60	116.95	75.40	144.80	268.20	579.00	256.20	72.10	73.60	76.00	77.50	
6	36.50	10.95	121.60	74.50	136.00	276.70	576.00	252.00	90.78	67.00	75.40	78.70	
7	45.00	10.80	126.80	73.90	128.80	291.40	550.00	249.60	90.78	68.50	75.40	80.20	
8	46.50	10.50	127.60	70.00	120.80	313.40	560.00	249.00	76.90	71.20	76.00	81.42	
9	47.50	10.80	129.60	66.10	117.65	320.60	552.00	245.40	88.55	73.00	78.10	75.40	
10	48.56	19.00	130.40	72.10	119.20	328.60	558.00	247.80	99.80	69.70	75.40	58.00	
11	48.28	45.25	127.60	74.80	126.00	327.80	564.00	251.40	106.80	57.40	67.30	52.30	
12	47.50	45.75	120.00	88.86	131.20	315.80	570.00	253.20	109.60	62.80	70.90	52.00	
13	47.50	40.00	117.30	109.25	132.00	302.60	594.00	253.80	104.00	69.10	72.40	54.70	
14	47.25	34.75	113.45	119.20	135.20	299.80	621.00	250.80	107.85	71.20	72.70	55.90	
15	46.50	44.75	111.70	128.40	151.20	312.60	633.20	231.00	103.65	74.80	72.40	56.20	
16	47.50	45.50	111.35	136.00	162.00	335.80	649.20	195.00	101.20	75.40	72.10	57.70	
17	48.28	41.50	109.95	145.60	173.60	360.60	649.20	154.00	100.50	74.80	71.80	58.60	
18	48.56	31.00	108.90	132.00	211.00	381.40	639.60	129.20	98.75	73.00	73.00	59.20	
19	45.25	30.00	112.05	122.00	253.80	395.80	624.00	118.00	97.35	70.90	75.70	58.30	
20	35.00	35.00	116.95	109.60	276.70	407.50	597.00	112.05	89.17	74.80	76.90	55.60	
21	32.00	47.25	113.80	94.90	286.50	434.00	566.00	109.25	65.20	79.90	78.70	51.70	
22	19.00	50.80	91.80	89.79	287.90	484.40	542.80	94.20	38.25	87.93	79.30	52.30	
23	13.20	57.40	68.20	90.44	282.30	520.00	515.50	78.70	50.24	91.46	75.70	52.30	
24	12.20	59.20	46.00	88.24	271.80	539.20	495.00	68.50	66.10	93.50	72.10	52.30	
25	11.40	60.40	45.00	82.66	249.00	552.00	471.20	79.90	73.30	91.12	78.10	54.40	
26	10.80	62.50	51.70	92.82	237.60	533.80	446.40	73.30	74.20	87.93	81.73	52.30	
27	10.65	67.60	70.00	111.35	233.50	502.00	422.00	66.40	76.30	87.00	81.11	43.00	
28	10.35	73.90	78.10	118.80	230.00	482.00	394.00	63.10	70.60	85.14	61.30	38.25	
29	10.80	90.44	82.35	127.20	233.00	467.60	361.40	61.60					

WATER YEAR : 2011

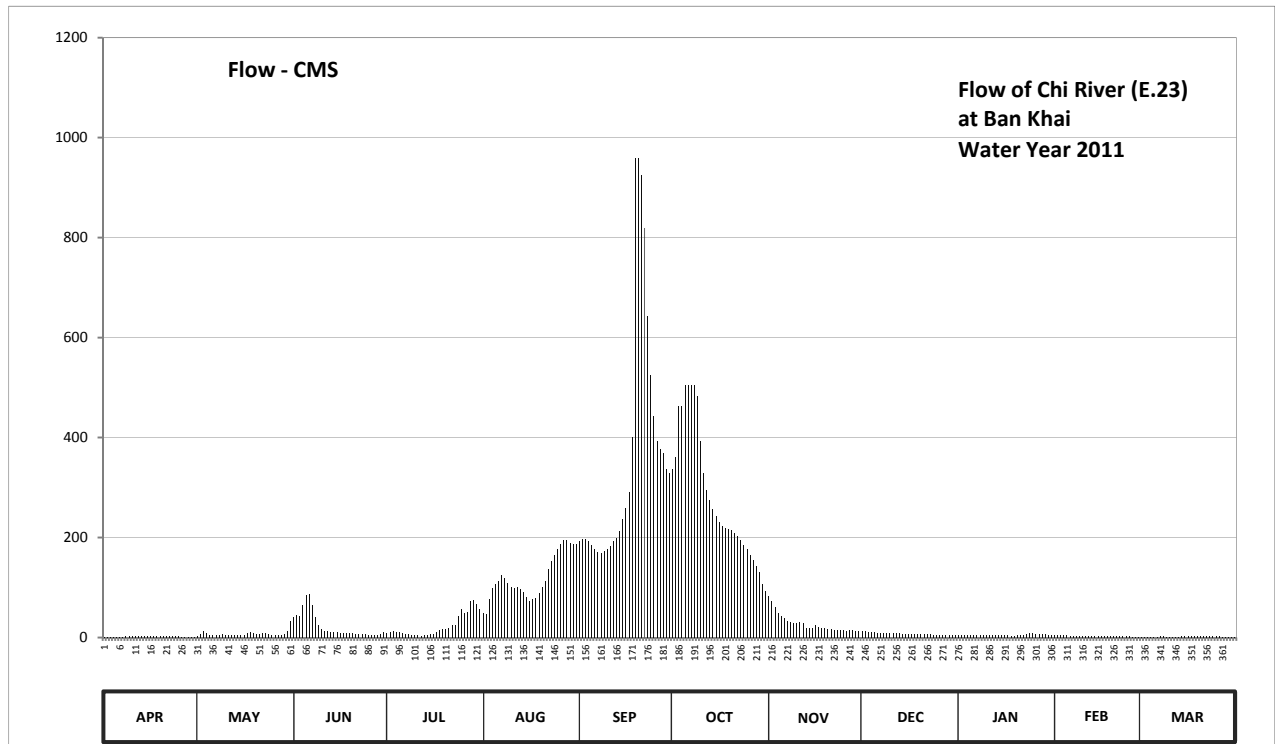
CHI RIVER BASIN

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

Lat 15 - 40 - 49 N Long 102 - 00 - 46 E

Location : on left bank at the bridge on highway

[illegible]



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.60	3.20	41.60	9.80	49.00	192.00	336.00	82.40	12.80	5.60	5.50	0.90	
2	1.30	6.00	44.80	10.80	47.40	197.60	360.00	72.80	12.20	5.60	5.30	0.60	
3	1.00	12.20	42.90	12.20	76.80	197.60	462.40	61.80	11.20	5.40	4.90	0.50	
4	0.80	8.00	65.60	11.00	99.20	192.00	462.40	49.30	10.80	5.30	4.40	0.30	
5	0.60	4.10	85.60	10.60	107.50	185.60	504.00	43.20	10.40	5.10	4.00	0.30	
6	0.40	4.60	87.60	7.80	113.60	177.60	504.00	38.70	9.80	5.00	3.90	0.60	
7	0.30	4.30	65.60	6.30	124.40	172.00	504.00	32.60	9.20	5.10	3.60	2.10	
8	2.30	5.40	41.60	6.00	119.60	169.60	504.00	30.30	9.40	5.00	3.00	2.00	
9	3.10	6.60	25.30	5.30	108.00	172.80	483.20	29.20	9.00	4.80	2.90	1.90	
10	3.20	5.80	16.60	4.90	101.50	176.80	392.00	29.80	8.80	4.60	2.80	1.70	
11	3.30	5.30	13.40	4.40	99.60	183.20	328.00	30.00	8.60	4.50	2.80	1.70	
12	3.30	5.10	12.00	3.80	100.50	192.00	294.40	28.10	8.40	4.50	2.80	1.70	
13	3.30	5.10	11.60	4.20	97.20	199.20	276.00	19.10	7.80	4.50	2.80	1.90	
14	3.20	4.90	11.00	5.30	90.40	213.60	257.20	18.30	7.60	4.50	2.80	2.60	
15	3.20	5.10	10.80	6.10	80.40	237.40	243.00	19.10	7.50	4.50	2.70	2.70	
16	3.20	5.80	10.00	6.90	72.80	259.00	230.40	23.90	7.40	4.40	2.70	3.30	
17	3.00	9.40	9.40	10.80	76.80	291.20	223.40	20.80	7.20	4.10	2.70	3.70	
18	3.00	11.60	8.80	14.20	79.20	400.00	219.60	19.70	7.10	3.80	2.60	3.20	
19	2.80	8.00	8.20	16.00	89.60	960.00	217.20	18.60	6.90	3.80	2.60	2.50	
20	2.70	6.90	7.80	16.00	100.00	960.00	214.80	17.40	6.30	4.10	2.60	2.00	
21	2.60	6.70	7.50	19.70	113.60	924.80	210.00	16.00	6.10	4.10	2.60	2.10	
22	2.50	8.60	7.30	24.20	137.00	819.20	204.00	14.80	5.90	4.90	2.60	2.40	
23	2.30	8.80	6.90	25.80	152.00	643.20	195.20	14.80	5.90	6.30	2.50	2.30	
24	2.20	6.50	6.30	43.50	164.80	524.80	185.60	14.40	5.80	8.60	2.40	2.30	
25	2.00	5.70	5.80	56.60	176.80	441.60	176.80	14.20	5.70	8.00	2.30	2.10	
26	1.90	5.50	5.40	48.30	187.20	392.00	165.60	13.80	5.70	7.20	1.50	2.00	
27	1.60	5.40	4.80	51.80	194.40	376.00	154.40	14.00	5.70	7.30	1.10	1.90	
28	1.30	5.60	5.00	73.60	194.40	368.00	143.60	14.00	5.50	6.60	0.80	1.80	
29	1.00	6.40	6.80	75.20	189.60	336.00	131.60	13.80	5.40	6.20	1.00	1.60	
30	1.10	12.60	10.40	66.40	186.40	328.00	107.00	13.20	5.50	5.80		1.40	
31		32.00		56.00	187.20		92.40		5.50	5.70		1.20	
Total	64.10	231.20	686.40	713.50	3716.90	10882.80	8782.20	828.10	241.10	164.90	84.20	57.30	26452.70 CMSDAY
Mean	2.10	7.50	22.90	23.00	119.90	362.80	283.30	27.60	7.80	5.30	2.90	1.80	72.30 CMS
Max	3.30	32.00	87.60	75.20	194.40	960.00	504.00	82.40	12.80	8.60	5.50	3.70	960.00 CMS
Min	0.30	3.20	4.80	3.80	47.40	169.60	92.40	13.20	5.40	3.80	0.80	0.30	0.30 CMS
Runoff	5.54	19.98	59.30	61.65	321.14	940.27	758.78	71.55	20.83	14.25	7.27	4.95	2285.51 MCM
Momentary Peak	1008.04 CMS, at 185.41 m. (MSL), at 17.00 Hours, on Sep 19, 2011												
Runoff Yield	11.51		Liters/Second/Square KM.		Momentary Peak Yield		160.465	Liters/Second/Square KM.					

WATER YEAR : 2011**CHI RIVER BASIN****Lam Nam Phong at Ban Pha Nok Khao , Loei (E.29)**

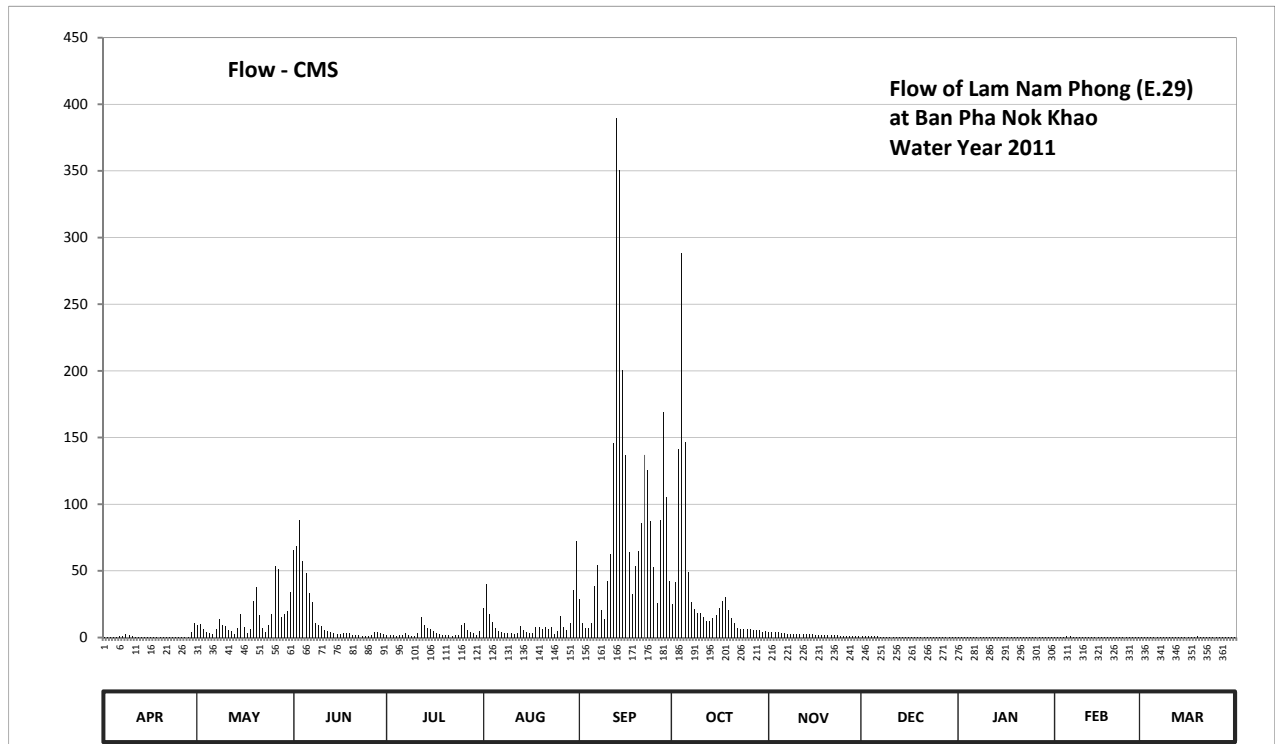
Lat 16 - 50 - 44 N Long 101 - 56 - 54 E

Location : on left bank in the vicinity of the forestry office about 400 meters from the bridge on highway.

	Ban	Pha Nok Khao	Amphoe	Phu Kradung	Changwat	Loei
Drainage Area	949	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+225.000 m. (MSL.)					
Bench Mark	B.M.- H.D.					
Location BM	In front of the automatic gage buidng.				Elevation	+236.945 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1956 - 1958 , 1967 to date					
Rating Operation						
Period of Rating	1978 to date					
Rated by Flot	-					
Rated by Current Meter	1978 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +237.980 m.(MSL.), records are channel flow only.					
General Description	Records good. Flow effected by Ubonrat Dam.					
	Stage-discharge relation defined by 44 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	225.96	227.62	231.31	226.46	229.03	229.42	229.21	226.89	226.23	225.93	225.93	225.83	
2	225.96	227.74	231.43	226.41	230.06	227.81	230.14	226.85	226.22	225.92	225.93	225.83	
3	225.97	227.19	232.23	226.38	228.55	227.35	234.03	226.85	226.20	225.97	225.93	225.84	
4	225.95	226.82	230.92	226.34	227.93	227.39	237.52	226.82	226.18	225.96	226.00	225.85	
5	226.01	226.77	230.50	226.51	227.36	227.81	234.20	226.75	226.15	225.96	226.25	225.85	
6	226.22	226.63	229.68	226.53	227.02	229.97	230.54	226.67	226.14	225.96	226.15	225.85	
7	226.18	227.16	229.29	226.74	226.82	230.80	229.29	226.65	226.13	225.98	226.01	225.84	
8	226.56	228.21	227.87	226.36	226.75	228.85	228.94	226.64	226.13	225.98	225.95	225.84	
9	226.43	227.67	227.65	226.27	226.74	228.19	228.65	226.62	226.12	225.96	225.96	225.84	
10	226.20	227.56	227.56	226.34	226.71	230.20	228.62	226.62	226.11	225.96	225.95	225.91	
11	226.07	227.12	227.13	226.67	226.60	231.15	228.33	226.63	226.10	225.94	225.93	226.05	
12	226.00	227.02	226.95	228.32	226.71	234.17	228.00	226.62	226.10	225.94	225.94	226.01	
13	225.99	226.57	226.85	227.65	227.53	238.65	228.05	226.65	226.09	225.93	225.93	226.07	
14	225.95	227.32	226.76	227.37	227.06	238.25	228.28	226.63	226.08	225.94	225.92	225.98	
15	225.95	228.55	226.63	227.18	226.88	235.62	228.45	226.57	226.07	225.94	225.90	225.96	
16	225.94	227.42	226.64	227.03	226.72	233.89	229.00	226.50	226.06	225.93	225.90	225.95	
17	225.93	226.76	226.70	226.77	226.78	231.23	229.31	226.48	226.06	225.93	225.90	225.98	
18	225.93	227.19	226.68	226.58	227.42	229.64	229.52	226.44	226.05	225.94	225.90	226.05	
19	225.90	229.32	226.78	226.43	227.49	230.76	228.82	226.41	226.05	225.94	225.90	226.24	
20	225.88	229.93	226.50	226.36	227.29	231.28	228.25	226.45	226.05	225.95	225.90	226.00	
21	225.90	228.47	226.42	226.35	227.50	232.13	227.89	226.44	226.05	225.93	225.89	225.98	
22	225.89	227.30	226.40	226.34	227.28	233.90	227.38	226.41	226.03	225.95	225.89	225.93	
23	225.90	226.90	226.34	226.53	227.48	233.52	227.25	226.35	226.00	225.97	225.88	225.89	
24	225.93	227.65	226.28	226.53	226.64	232.20	227.24	226.34	226.00	225.96	225.87	225.88	
25	226.07	228.54	226.29	227.70	226.96	230.71	227.21	226.33	225.98	225.95	225.84	225.88	
26	225.99	230.75	226.50	227.83	228.40	229.23	227.23	226.30	225.97	225.94	225.84	225.87	
27	225.95	230.66	226.86	227.12	227.45	232.22	227.12	226.29	225.96	225.94	225.84	225.87	
28	226.08	228.35	226.85	226.88	227.14	234.91	227.12	226.28	225.94	225.93	225.84	225.85	
29	226.89	228.57	226.66	226.68	227.88	232.84	227.04	226.27	225.92	225.92	225.84	225.84	
30	227.87	228.75	226.63	226.50	229.82	230.17	226.91	226.27	225.88	225.91		225.84	
31		229.71		227.02	231.59		226.95		225.87	225.92		225.84	
Mean	226.12	227.94	227.71	226.78	227.60	231.48	228.92	226.53	226.06	225.94	225.93	225.92	
Max	227.87	230.75	232.23	228.32	231.59	238.65	237.52	226.89	226.23	225.98	226.25	226.24	238.65
Min	225.88	226.57	226.28	226.27	226.60	227.35	226.91	226.27	225.87	225.91	225.84	225.83	225.83
Annual Max Momentary Gage Height	239.21		m. (MSL.) ,			at 19.00 Hours, on Sep 13, 2011							
Zero Gage at Bottom Elevation	225.00		m. (MSL.) ,			River Bed	225.57	m. (MSL)					
Left Bank Elevation	237.97		m. (MSL.) ,										
Right Bank Elevation	238.08		m. (MSL.) ,			Drainage Area	949	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	8.96	65.82	1.86	22.48	28.72	25.36	4.34	1.08	0.26	0.26	0.20	
2	0.28	9.92	68.46	1.69	40.08	10.48	41.52	4.10	1.05	0.25	0.26	0.20	
3	0.28	6.14	88.44	1.59	17.50	7.10	140.96	4.10	0.98	0.28	0.26	0.20	
4	0.27	3.92	57.24	1.46	11.44	7.34	288.64	3.92	0.91	0.28	0.30	0.21	
5	0.33	3.62	48.00	2.06	7.16	10.48	146.40	3.50	0.81	0.28	1.15	0.21	
6	1.05	2.78	33.24	2.18	5.12	38.46	48.88	3.02	0.78	0.28	0.81	0.21	
7	0.91	5.96	26.64	3.44	3.92	54.60	26.64	2.90	0.74	0.29	0.33	0.20	
8	2.36	14.10	10.96	1.52	3.50	20.50	21.40	2.84	0.74	0.29	0.27	0.20	
9	1.76	9.36	9.20	1.22	3.44	13.90	18.50	2.72	0.71	0.28	0.28	0.20	
10	0.98	8.48	8.48	1.46	3.26	42.60	18.20	2.72	0.67	0.28	0.27	0.25	
11	0.54	5.72	5.78	3.02	2.60	62.30	15.30	2.78	0.64	0.26	0.26	0.47	
12	0.30	5.12	4.70	15.20	3.26	145.44	12.00	2.72	0.64	0.26	0.26	0.33	
13	0.29	2.42	4.10	9.20	8.24	389.50	12.50	2.90	0.61	0.26	0.26	0.54	
14	0.27	6.92	3.56	7.22	5.36	350.50	14.80	2.78	0.57	0.26	0.25	0.29	
15	0.27	17.50	2.78	6.08	4.28	200.78	16.50	2.42	0.54	0.26	0.24	0.28	
16	0.26	7.52	2.84	5.18	3.32	136.70	22.00	2.00	0.50	0.26	0.24	0.27	
17	0.26	3.56	3.20	3.62	3.68	64.06	26.96	1.93	0.50	0.26	0.24	0.29	
18	0.26	6.14	3.08	2.48	7.52	32.52	30.36	1.80	0.47	0.26	0.24	0.47	
19	0.24	27.12	3.68	1.76	7.94	53.72	20.20	1.69	0.47	0.26	0.24	1.12	
20	0.23	37.74	2.00	1.52	6.74	65.16	14.50	1.83	0.47	0.27	0.24	0.30	
21	0.24	16.70	1.73	1.49	8.00	85.64	11.12	1.80	0.47	0.26	0.23	0.29	
22	0.23	6.80	1.66	1.46	6.68	137.00	7.28	1.69	0.40	0.27	0.23	0.26	
23	0.24	4.40	1.46	2.18	7.88	125.60	6.50	1.49	0.30	0.28	0.23	0.23	
24	0.26	9.20	1.25	2.18	2.84	87.60	6.44	1.46	0.30	0.28	0.22	0.23	
25	0.54	17.40	1.29	9.60	4.76	52.62	6.26	1.42	0.29	0.27	0.20	0.23	
26	0.29	53.50	2.00	10.64	16.00	25.68	6.38	1.32	0.28	0.26	0.20	0.22	
27	0.27	51.52	4.16	5.72	7.70	88.16	5.72	1.29	0.28	0.26	0.20	0.22	
28	0.57	15.50	4.10	4.28	5.84	169.12	5.72	1.25	0.26	0.26	0.20	0.21	
29	4.34	17.70	2.96	3.08	11.04	105.52	5.24	1.22	0.25	0.25	0.20	0.20	
30	10.96	19.50	2.78	2.00	35.76	42.06	4.46	1.22	0.23	0.25		0.20	
31		33.78		5.12	72.16		4.70		0.22	0.25		0.20	
Total	29.36	439.00	475.59	121.51	349.50	2653.86	1031.44	71.17	17.16	8.27	8.57	8.93	5214.36 CMSDAY
Mean	0.98	14.16	15.85	3.92	11.27	88.46	33.27	2.37	0.55	0.27	0.30	0.29	14.25 CMS
Max	10.96	53.50	88.44	15.20	72.16	389.50	288.64	4.34	1.08	0.29	1.15	1.12	389.50 CMS
Min	0.23	2.42	1.25	1.22	2.60	7.10	4.46	1.22	0.22	0.25	0.20	0.20	0.20 CMS
Runoff	2.54	37.93	41.09	10.50	30.20	229.29	89.12	6.15	1.48	0.72	0.74	0.77	450.52 MCM
Momentary Peak	459.40	CMS, at 239.21 m. (MSL), at 19.00 Hours, on Sep 13, 2011											
Runoff Yield	15.01	Liters/Second/Square KM.				Momentary Peak Yield	484.089	Liters/Second/Square KM.					

WATER YEAR : 2011

CHI RIVER BASIN

Chi River at Ban Nong O , Chaiyaphum (E.32A)

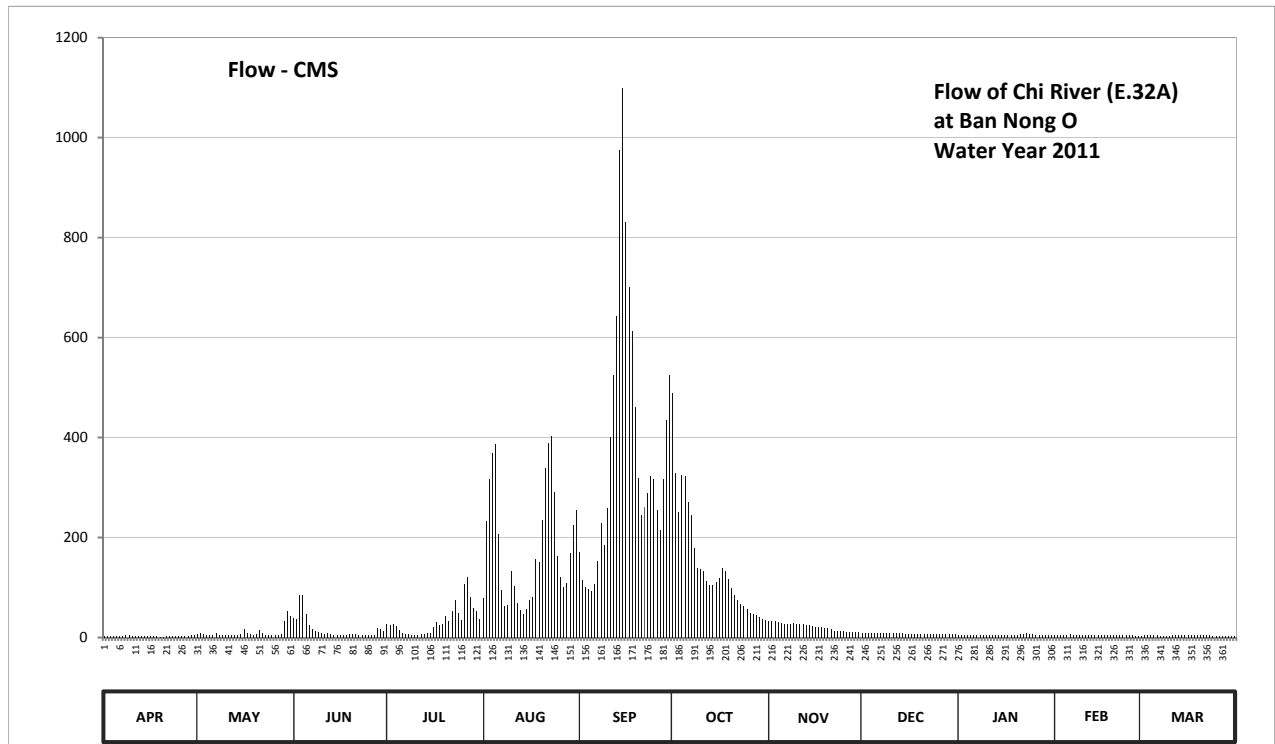
Lat 15 - 54 - 41 N Long 101 - 42 - 42 E

Location : on right bank about 500 meters north of Ban Nong O from about 600 meters upstream from E.32 gaging station.

	Ban	Nong O	Amphoe	Ban Khwao	Changwat	Chaiyaphum
Drainage Area	2,867	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+198.000	m. (MSL.)				
Bench Mark	B.M.- H.D.					
Location BM	On right bank at the measuring line.				Elevation	+211.424 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1966 to date					
Rating Operation						
Period of Rating	1968 to date					
Rated by Flot	-					
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 25 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	198.78	199.33	200.87	200.43	202.05	204.09	208.29	200.73	199.60	199.17	199.10	198.92	
2	198.85	199.47	200.86	200.40	205.19	202.95	206.63	200.69	199.58	199.13	199.09	198.96	
3	198.79	199.27	202.20	200.43	206.48	202.62	205.48	200.67	199.56	199.12	199.09	198.97	
4	198.76	199.09	202.22	200.26	207.13	202.51	206.57	200.64	199.54	199.10	199.10	198.97	
5	198.75	199.02	201.14	199.86	207.32	202.40	206.55	200.55	199.52	199.07	199.13	198.98	
6	198.73	198.96	200.35	199.51	204.76	202.78	205.82	200.47	199.50	199.06	199.23	198.95	
7	198.85	199.39	200.00	199.33	202.49	203.70	205.38	200.44	199.48	199.04	199.14	198.91	
8	199.04	199.17	199.78	199.21	201.69	205.12	204.25	200.46	199.46	199.04	199.12	198.90	
9	198.96	199.09	199.67	199.16	201.70	204.35	203.45	200.51	199.44	199.04	199.12	198.90	
10	198.94	199.03	199.47	199.10	203.31	205.62	203.42	200.49	199.42	199.03	199.09	198.91	
11	198.89	199.01	199.28	199.16	202.68	207.48	203.32	200.47	199.43	199.02	199.06	198.98	
12	198.85	199.03	199.40	199.32	201.82	208.58	202.92	200.44	199.41	199.02	199.06	199.08	
13	198.82	199.01	199.22	199.28	201.40	209.29	202.73	200.39	199.40	199.00	199.06	199.14	
14	198.81	198.98	199.12	199.44	201.19	210.38	202.73	200.32	199.39	199.01	199.04	199.02	
15	198.82	199.19	199.08	199.52	201.46	210.57	202.88	200.20	199.37	199.00	199.04	199.00	
16	198.79	199.89	199.04	200.16	201.98	210.04	203.04	200.17	199.35	199.00	199.02	198.99	
17	198.76	199.59	199.01	200.63	202.11	209.57	203.44	200.15	199.32	198.99	199.01	199.00	
18	198.71	199.31	199.09	200.39	203.79	209.13	203.30	200.12	199.29	198.99	199.00	199.07	
19	198.68	199.18	199.30	200.44	203.66	208.05	202.99	200.08	199.27	198.99	198.99	199.04	
20	198.68	199.30	199.23	201.02	205.21	206.50	202.56	200.03	199.26	199.12	198.99	199.02	
21	198.73	199.81	199.21	200.70	206.75	205.38	202.23	199.93	199.25	199.22	198.98	199.00	
22	198.69	199.38	199.17	201.36	207.36	205.65	201.98	199.78	199.26	199.36	198.97	198.98	
23	198.71	199.17	199.10	201.98	207.50	206.11	201.79	199.75	199.25	199.48	198.96	198.96	
24	198.76	199.09	199.07	201.24	206.12	206.54	201.66	199.72	199.24	199.33	198.96	198.94	
25	198.84	199.05	199.04	200.75	203.91	206.48	201.53	199.70	199.24	199.24	198.96	198.92	
26	198.92	199.04	199.03	202.77	203.08	205.55	201.26	199.68	199.23	199.18	198.95	198.90	
27	198.82	199.11	199.18	203.06	202.63	204.88	201.16	199.66	199.24	199.16	198.91	198.83	
28	198.79	199.20	200.04	202									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.60	7.30	38.10	26.60	78.00	171.50	487.90	33.90	10.00	5.80	5.20	3.80	
2	3.20	8.70	37.80	26.00	233.40	114.50	329.40	32.80	9.80	5.40	5.10	4.10	
3	2.70	6.70	84.00	26.60	317.40	100.80	250.80	32.30	9.60	5.40	5.10	4.20	
4	2.50	5.10	84.80	23.20	369.40	96.40	324.60	31.50	9.40	5.20	5.20	4.20	
5	2.40	4.60	46.20	15.20	385.80	92.00	323.00	29.30	9.20	5.00	5.40	4.20	
6	2.20	4.10	25.00	9.10	207.60	107.20	271.20	27.40	9.00	4.90	6.30	4.00	
7	3.20	7.90	18.00	7.30	95.60	152.00	244.80	26.80	8.80	4.70	5.50	3.70	
8	4.70	5.80	13.60	6.10	63.60	229.20	179.50	27.20	8.60	4.70	5.40	3.60	
9	4.10	5.10	11.40	5.70	64.00	184.50	139.50	28.20	8.40	4.70	5.40	3.60	
10	3.90	4.60	8.70	5.20	132.50	259.20	138.00	27.80	8.20	4.60	5.10	3.70	
11	3.50	4.50	6.80	5.70	103.20	401.00	133.00	27.40	8.30	4.60	4.90	4.20	
12	3.20	4.60	8.00	7.20	68.80	525.40	113.00	26.80	8.10	4.60	4.90	5.00	
13	3.00	4.50	6.20	6.80	54.00	642.10	105.20	25.80	8.00	4.40	4.90	5.50	
14	2.90	4.20	5.40	8.40	47.70	974.40	105.20	24.40	7.90	4.50	4.70	4.60	
15	3.00	5.90	5.00	9.20	55.80	1098.40	111.20	22.00	7.70	4.40	4.70	4.40	
16	2.70	15.80	4.70	21.20	75.20	832.00	119.00	21.40	7.50	4.40	4.60	4.30	
17	2.50	9.90	4.50	31.30	80.40	701.40	139.00	21.00	7.20	4.30	4.50	4.40	
18	2.10	7.10	5.10	25.80	156.50	611.70	132.00	20.40	6.90	4.30	4.40	5.00	
19	1.90	5.80	7.00	26.80	150.00	461.50	116.50	19.60	6.70	4.30	4.30	4.70	
20	1.90	7.00	6.30	42.60	234.60	319.00	98.40	18.60	6.60	5.40	4.30	4.60	
21	2.20	14.20	6.10	33.00	339.00	244.80	85.20	16.60	6.50	6.20	4.20	4.40	
22	2.00	7.80	5.80	52.80	389.40	261.00	75.20	13.60	6.60	7.60	4.20	4.20	
23	2.10	5.80	5.20	75.20	403.00	289.70	67.60	13.00	6.50	8.80	4.10	4.10	
24	2.50	5.10	5.00	49.20	290.40	322.20	62.40	12.40	6.40	7.30	4.10	3.90	
25	3.10	4.80	4.70	34.50	162.50	317.40	57.90	12.00	6.40	6.40	4.10	3.80	
26	3.80	4.70	4.60	106.80	121.00	255.00	49.80	11.60	6.30	5.80	4.00	3.60	
27	3.00	5.30	5.80	120.00	101.20	214.80	46.80	11.20	6.40	5.70	3.70	3.00	
28	2.70	6.00	18.80	80.00	108.80	316.60	44.40	11.00	6.30	5.60	3.40	3.00	
29	5.30	33.30	16.60	58.80	168.00	435.10	42.00	10.80	6.20	5.50	3.30	3.10	
30	4.90	53.40	12.40	52.20	225.60	525.40	37.50	10.40	6.20	5.40		3.00	
31		43.20		36.90	254.40		35.10		6.00	5.20		3.20	
Total	89.80	312.80	511.60	1035.40	5536.80	11256.20	4465.10	647.20	235.70	165.10	135.00	125.10	24515.80 CMSDAY
Mean	3.00	10.10	17.10	33.40	178.60	375.20	144.00	21.60	7.60	5.30	4.70	4.00	67.00 CMS
Max	5.30	53.40	84.80	120.00	403.00	1098.40	487.90	33.90	10.00	8.80	6.30	5.50	1098.40 CMS
Min	1.90	4.10	4.50	5.20	47.70	92.00	35.10	10.40	6.00	4.30	3.30	3.00	1.90 CMS
Runoff	7.76	27.03	44.20	89.46	478.38	972.54	385.78	55.92	20.36	14.26	11.66	10.81	2118.17 MCM
Momentary Peak	1296.00 CMS, at 210.78 m. (MSL), at 23.00 Hours, on Sep 14, 2011												
Runoff Yield	23.36	Liters/Second/Square KM.			Momentary Peak Yield			452.040	Liters/Second/Square KM.				

WATER YEAR : 2011

CHI RIVER BASIN

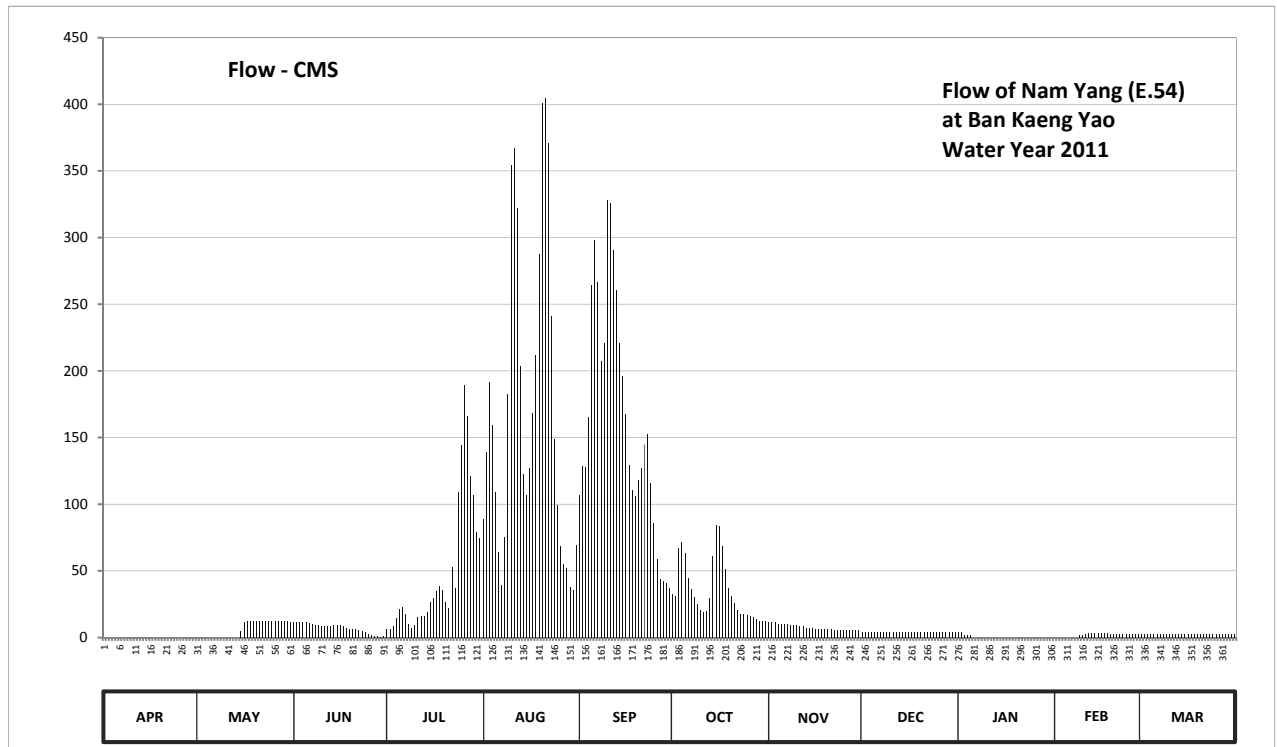
Nam Yang at Ban Kaeng Yao , Kalasin (E.54)

Lat 16 - 26 - 28 N Long 104 - 02 - 05 E

Location : on right bank at Ban Kaeng Yao about 2 kilometers downstream from proposed of USBR Damsite.

	Ban	Kaeng Yao	Amphoe	Kuchinarai	Changwat	Kalasin
Drainage Area	1,548	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+138.340	m. (MSL.)				
Bench Mark	B.M.- H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+149.988 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1969 to date					
Rating Operation						
Period of Rating	1969 - 1977 , 1983 to date					
Rated by Flot	-					
Rated by Current Meter	1969 - 1977 , 1983 to date					
Stability of Channel Regimes	Rather unstable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. The weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 16 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	11.70	6.26	88.85	107.05	32.43	11.20	4.30	4.30	0.00	2.58	
2	0.00	0.00	11.70	6.75	139.20	128.70	31.21	11.20	4.30	4.30	0.00	2.58	
3	0.00	0.00	11.20	8.71	191.70	128.00	67.01	11.20	4.30	2.15	0.00	2.58	
4	0.00	0.00	11.20	14.72	159.50	165.10	71.86	10.20	4.30	1.72	0.00	2.58	
5	0.00	0.00	11.20	20.96	109.47	264.00	63.37	10.20	4.30	1.72	0.00	2.58	
6	0.00	0.00	10.70	23.04	63.97	298.04	44.56	10.20	4.30	0.00	0.00	2.58	
7	0.00	0.00	10.20	17.84	39.10	266.37	36.07	10.20	4.30	0.00	0.00	2.58	
8	0.00	0.00	9.70	10.20	75.50	207.10	30.00	9.70	4.30	0.00	0.00	2.58	
9	0.00	0.00	9.20	7.24	182.60	220.40	25.14	9.20	4.30	0.00	1.72	2.58	
10	0.00	0.00	8.71	9.20	354.25	328.12	20.44	9.20	4.30	0.00	1.72	2.58	
11	0.00	0.00	8.71	15.24	366.92	325.75	19.40	8.71	4.30	0.00	2.58	2.58	
12	0.00	0.00	8.71	16.28	321.79	290.92	19.92	8.22	4.30	0.00	3.01	2.58	
13	0.00	0.00	8.71	16.28	203.60	260.83	29.46	7.24	4.30	0.00	3.44	2.58	
14	0.00	0.00	9.20	19.40	122.40	220.40	60.94	7.24	4.30	0.00	3.44	2.58	
15	0.00	4.79	9.20	26.76	107.05	195.90	83.99	7.24	4.30	0.00	3.44	2.58	
16	0.00	11.70	9.70	29.46	127.30	167.20	83.39	6.26	4.30	0.00	3.01	2.58	
17	0.00	12.20	8.22	34.85	167.90	129.40	68.83	6.26	4.30	0.00	3.01	2.58	
18	0.00	12.20	7.24	38.49	212.00	110.69	51.23	6.26	4.30	0.00	3.01	2.58	
19	0.00	12.20	6.26	35.46	287.75	106.44	37.28	6.26	4.30	0.00	2.58	2.58	
20	0.00	12.20	6.26	26.22	400.96	117.97	31.21	6.26	4.30	0.00	2.58	2.58	
21	0.00	12.20	6.26	22.00	404.92	126.60	25.68	6.26	4.30	0.00	2.58	2.58	
22	0.00	12.20	5.77	53.05	370.88	144.80	20.44	5.28	4.30	0.00	2.58	2.58	
23	0.00	12.20	4.79	37.28	241.04	152.50	17.32	5.28	4.30	0.00	2.58	2.58	
24	0.00	12.20	3.87	109.47	149.00	115.54	17.32	5.28	4.30	0.00	2.58	2.58	
25	0.00	12.20	2.58	144.10	99.16	85.81	16.80	5.28	4.30	0.00	2.58	2.58	
26	0.00	12.20	1.72	189.60	68.83	59.12	16.28	5.28	4.30	0.00	2.58	2.58	
27	0.00	12.20	0.86	165.80	55.48	43.95	15.24	5.28	4.30	0.00	2.58	2.58	
28	0.00	12.20	0.86	121.00	51.84	42.13	13.70	5.28	4.30	0.00	2.58	2.58	
29	0.00	12.20	0.43	107.05	37.89	40.92	12.20	5.28	4.30	0.00	2.58	2.58	
30	0.00	12.20	0.86	79.14	35.46	37.28	12.20	5.28	4.30	0.00		2.58	
31		11.70		74.29	69.43		12.20		4.30	0.00		2.58	
Total	0.00	198.99	215.72										

WATER YEAR : 2011

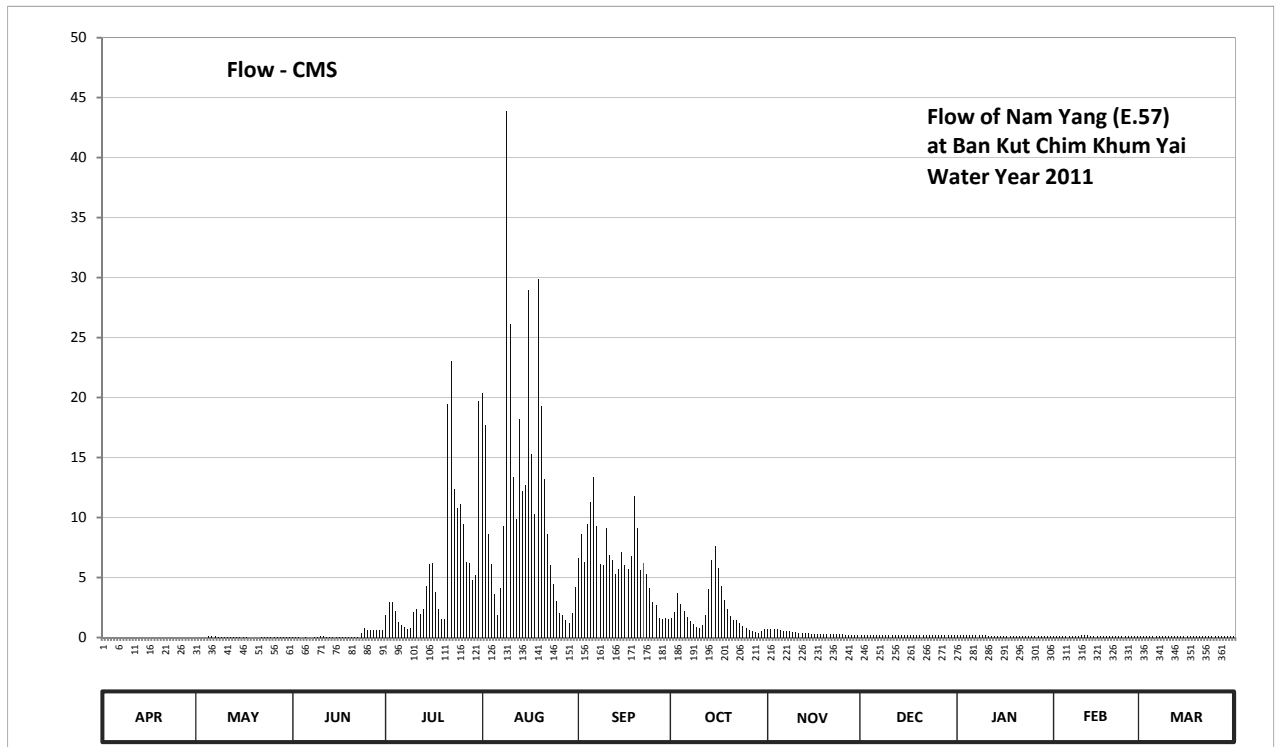
CHI RIVER BASIN

Nam Yang at Ban Kut Chim Khum Yai , Kalasin (E.57)

Lat 16 - 41 - 02 N Long 104 - 05 - 06 E

Location : on right bank at the bridge on highway Ban Kut Chim Khum Yai.

	Ban	Kut Chim Khum Yai	Amphoe	Khao Wong	Changwat	Kalasin							
Drainge Area	103	sq.km.											
Type of Gage	Staff gage												
Zero Gage at Bottom	+170.100	m. (MSL.)											
Bench Mark	B.M.- Highways Dept.												
Location BM	On right bank at the footpath of the bridge.	Elevation	+177.810 m. (MSL.)										
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.												
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings												
Period of Available Gage Records	1969 - 1971 , 1983 to date												
Rating Operation													
Period of Rating	1969 - 1970 , 1984 to date												
Rated by Flot	-												
Rated by Current Meter	1969 - 1970 , 1984 to date												
Stability of Channel Regimes	Fairly stable.												
Overbank Flow Conditions	No overbank flow.												
General Description	Records fair. The local weir situated about 100 meters from the gage site.												
	Stage-discharge relation defined by 16 discharge measurements made in 2011.												
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	169.75	169.85	170.05	170.65	172.11	171.25	170.60	170.36	170.19	170.17	170.12	170.14	
2	169.74	169.85	170.05	170.84	171.96	171.40	170.70	170.36	170.19	170.17	170.12	170.14	
3	169.74	169.84	170.06	170.84	171.40	171.22	170.94	170.38	170.19	170.17	170.12	170.14	
4	169.74	169.84	170.00	170.72	171.20	171.46	170.81	170.38	170.19	170.17	170.12	170.14	
5	169.74	170.09	170.04	170.53	170.93	171.58	170.72	170.35	170.19	170.17	170.12	170.14	
6	169.73	170.09	170.00	170.46	170.66	171.71	170.63	170.31	170.19	170.17	170.13	170.14	
7	169.73	170.09	170.00	170.41	170.99	171.45	170.55	170.31	170.19	170.17	170.13	170.14	
8	169.73	170.08	170.04	170.37	171.45	171.20	170.48	170.30	170.19	170.17	170.14	170.14	
9	169.73	170.08	170.02	170.39	173.09	171.19	170.42	170.29	170.19	170.17	170.15	170.14	
10	169.73	170.07	170.09	170.71	172.40	171.44	170.39	170.28	170.19	170.17	170.17	170.14	
11	169.72	170.07	170.09	170.75	171.71	171.27	170.46	170.27	170.19	170.15	170.17	170.14	
12	169.72	170.07	170.08	170.67	171.49	171.23	170.66	170.27	170.18	170.15	170.17	170.14	
13	169.72	170.01	170.08	170.75	171.99	171.12	170.98	170.26	170.18	170.15	170.16	170.14	
14	169.72	170.01	170.07	171.01	171.64	171.16	171.23	170.25	170.18	170.15	170.16	170.14	
15	169.72	170.01	170.07	171.20	171.67	171.29	171.33	170.24	170.18	170.15	170.16	170.14	
16	169.71	170.02	170.06	171.21	172.53	171.19	171.17	170.24	170.18	170.13	170.15	170.14	
17	169.71	170.02	170.06	170.95	171.82	171.16	171.01	170.23	170.18	170.13	170.15	170.14	
18	169.75	169.98	170.05	170.74	171.52	171.26	170.86	170.23	170.18	170.13	170.15	170.14	
19	169.75	169.99	170.05	170.59	172.57	171.61	170.75	170.24	170.18	170.13	170.15	170.14	
20	169.74	169.99	170.04	170.59	172.05	171.44	170.64	170.24	170.18	170.13	170.14	170.14	
21	169.74	170.00	170.04	172.06	171.70	171.15	170.57	170.24	170.18	170.12	170.14	170.14	
22	169.74	170.01	170.04	172.25	171.40	171.21	170.56	170.23	170.17	170.12	170.14	170.14	
23	169.74	170.02	170.25	171.65	171.19	171.12	170.51	170.23	170.17	170.12	170.14	170.14	
24	169.73	170.03	170.39	171.55	171.03	170.99	170.43	170.22	170.17	170.12	170.14	170.14	
25	169.73	170.04	170.35	171.57	170.85	170.84	170.39	170.22	170.17	170.12	170.14	170.14	
26	169.73	170.04	170.34	171.46	170.68	170.80	170.35	170.21	170.17	170.12	170.14	170.14	
27	169.73	170.05	170.33	171.22	170.65	170.61	170.31	170.21	170.17	170.12	170.14	170.14	
28	169.73	170.05	170.33	171.21	170.56	170.58	170.29	170.20	170.17	170.12	170.14	170.14	
29	169.77	170.05	170.33	171.07	170.50	170.61	170.27	170.19	170.17	170.12	170.14	170.14	
30	169.85	170.05	170.35	171.11	170.69	170.59	170.30	170.19	170.17	170.12		170.14	
31		170.05		172.07	171.00		170.36		170.17	170.12		170.14	
Mean	169.74	170.01	170.13	171.02	171.47	171.17	170.63	170.26	170.18	170.14	170.14	170.14	
Max	169.85	170.09	170.39	172.25	173.09	171.71	171.33	170.38	170.19	170.17	170.17	170.14	173.09
Min	169.71	169.84	170.00	170.37	170.50	170.58	170.27	170.19	170.17	170.12	170.12	170.14	169.71
Annual Max Momentary Gage Height	174.68	m. (MSL.) ,	at 12.00 Hours, on Aug 9, 2011										
Zero Gage at Bottom Elevation	170.10	m. (MSL.) ,	River Bed	169.52	m. (MSL)								
Left Bank Elevation	177.44	m. (MSL.) ,											
Right Bank Elevation	177.61	m. (MSL.) ,	Drainage Area	103	Square Kilometers								



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.05	1.85	20.38	6.65	1.60	0.68	0.19	0.17	0.12	0.14	
2	0.00	0.00	0.05	2.98	17.68	8.60	2.10	0.68	0.19	0.17	0.12	0.14	
3	0.00	0.00	0.06	2.98	8.60	6.32	3.72	0.74	0.19	0.17	0.12	0.14	
4	0.00	0.00	0.00	2.22	6.10	9.44	2.77	0.74	0.19	0.17	0.12	0.14	
5	0.00	0.09	0.04	1.32	3.64	11.28	2.22	0.65	0.19	0.17	0.12	0.14	
6	0.00	0.09	0.00	1.04	1.90	13.37	1.75	0.53	0.19	0.17	0.13	0.14	
7	0.00	0.09	0.00	0.84	4.12	9.30	1.40	0.53	0.19	0.17	0.13	0.14	
8	0.00	0.08	0.04	0.71	9.30	6.10	1.12	0.50	0.19	0.17	0.14	0.14	
9	0.00	0.08	0.02	0.77	43.90	6.00	0.88	0.47	0.19	0.17	0.15	0.14	
10	0.00	0.07	0.09	2.16	26.10	9.16	0.77	0.44	0.19	0.17	0.17	0.14	
11	0.00	0.07	0.09	2.40	13.37	6.87	1.04	0.41	0.19	0.15	0.17	0.14	
12	0.00	0.07	0.08	1.95	9.86	6.43	1.90	0.41	0.18	0.15	0.17	0.14	
13	0.00	0.01	0.08	2.40	18.22	5.30	4.04	0.38	0.18	0.15	0.16	0.14	
14	0.00	0.01	0.07	4.29	12.24	5.70	6.43	0.35	0.18	0.15	0.16	0.14	
15	0.00	0.01	0.07	6.10	12.72	7.09	7.62	0.32	0.18	0.15	0.16	0.14	
16	0.00	0.02	0.06	6.21	28.99	6.00	5.80	0.32	0.18	0.13	0.15	0.14	
17	0.00	0.02	0.06	3.80	15.24	5.70	4.29	0.29	0.18	0.13	0.15	0.14	
18	0.00	0.00	0.05	2.34	10.32	6.76	3.12	0.29	0.18	0.13	0.15	0.14	
19	0.00	0.00	0.05	1.56	29.91	11.76	2.40	0.32	0.18	0.13	0.15	0.14	
20	0.00	0.00	0.04	1.56	19.30	9.16	1.80	0.32	0.18	0.13	0.14	0.14	
21	0.00	0.00	0.04	19.48	13.20	5.60	1.48	0.32	0.18	0.12	0.14	0.14	
22	0.00	0.01	0.04	23.00	8.60	6.21	1.44	0.29	0.17	0.12	0.14	0.14	
23	0.00	0.02	0.35	12.40	6.00	5.30	1.24	0.29	0.17	0.12	0.14	0.14	
24	0.00	0.03	0.77	10.80	4.47	4.12	0.92	0.26	0.17	0.12	0.14	0.14	
25	0.00	0.04	0.65	11.12	3.05	2.98	0.77	0.26	0.17	0.12	0.14	0.14	
26	0.00	0.04	0.62	9.44	2.00	2.70	0.65	0.23	0.17	0.12	0.14	0.14	
27	0.00	0.05	0.59	6.32	1.85	1.65	0.53	0.23	0.17	0.12	0.14	0.14	
28	0.00	0.05	0.59	6.21	1.44	1.52	0.47	0.20	0.17	0.12	0.14	0.14	
29	0.00	0.05	0.59	4.83	1.20	1.65	0.41	0.19	0.17	0.12	0.14	0.14	
30	0.00	0.05	0.65	5.20	2.05	1.56	0.50	0.19	0.17	0.12		0.14	
31		0.05		19.66	4.20		0.68		0.17	0.12		0.14	
Total	0.00	1.10	5.89	177.94	359.95	190.28	65.86	11.83	5.59	4.42	4.14	4.34	831.34 CMSDAY
Mean	0.00	0.04	0.20	5.74	11.61	6.34	2.12	0.39	0.18	0.14	0.14	0.14	2.27 CMS
Max	0.00	0.09	0.77	23.00	43.90	13.37	7.62	0.74	0.19	0.17	0.17	0.14	43.90 CMS
Min	0.00	0.00	0.00	0.71	1.20	1.52	0.41	0.19	0.17	0.12	0.12	0.14	0.00 CMS
Runoff	0.00	0.10	0.51	15.37	31.10	16.44	5.69	1.02	0.48	0.38	0.36	0.38	71.83 MCM
Momentary Peak	118.32	CMS, at 174.68 m. (MSL), at 12.00 Hours, on Aug 9, 2011											
Runoff Yield	22.05	Liters/Second/Square KM.			Momentary Peak Yield		1148.738	Liters/Second/Square KM.					

WATER YEAR : 2011

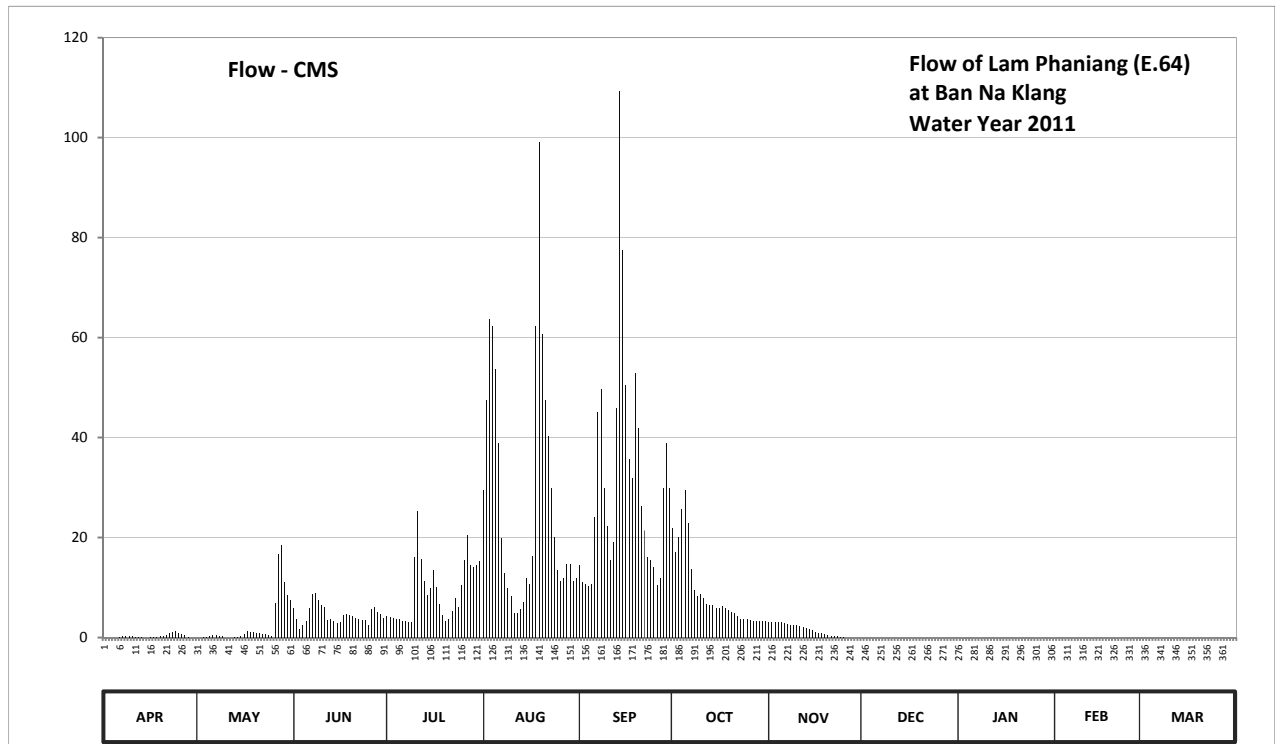
CHI RIVER BASIN

Lam Phaniang at Ban Na Klang , Nong Bua Lamphu (E.64)

Lat 17 - 19 - 16 N Long 102 - 05 - 32 E

Location : on right bank at the bridge of Udon Thani - Loei Highway.

	Ban	Na Klang		Amphoe	Na Wang		Changwat	Nong Bua Lamphu					
Drainage Area	362	sq.km.											
Type of Gage	Staff gage												
Zero Gage at Bottom	+254.473	m. (MSL.)											
Bench Mark	B.M.-	Highways Dept.											
Location BM	On right bank downstream side at the footpath of the bridge.						Elevation	+261.680 m. (MSL.)					
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.												
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings												
Period of Available Gage Records	1979 to date												
Rating Operation													
Period of Rating	1979 - 1980 , 1997 to date												
Rated by Flot	-												
Rated by Current Meter	1979 - 1980 , 1997 to date												
Stability of Channel Regimes	Fairly stable.												
Overbank Flow Conditions	Overbank flow starts at elevation +257.880 m.(MSL.), records are channel flow only.												
General Description	Records good. The concrete weir situated downstream from the gage site.												
	Stage-discharge relation defined by 18 discharge measurements made in 2011.												
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	256.93	256.96	257.72	257.57	258.95	258.40	258.70	257.45	256.97	256.76	256.84	256.85	
2	256.94	256.99	257.51	257.55	259.21	258.15	258.54	257.45	256.96	256.76	256.84	256.85	
3	256.97	257.01	257.25	257.54	259.42	258.12	258.64	257.45	256.94	256.76	256.84	256.84	
4	256.98	257.02	257.35	257.52	259.40	258.09	258.82	257.45	256.93	256.77	256.84	256.84	
5	257.00	257.04	257.48	257.51	259.29	258.12	258.95	257.44	256.91	256.78	256.84	256.84	
6	257.02	257.06	257.71	257.48	259.10	258.77	258.73	257.42	256.90	256.78	256.84	256.83	
7	257.03	257.06	257.97	257.47	258.63	259.18	258.34	257.39	256.89	256.78	256.84	256.83	
8	257.04	257.04	258.00	257.44	258.28	259.24	258.04	257.36	256.90	256.78	256.83	256.82	
9	257.03	257.03	257.86	257.43	258.07	258.96	257.93	257.36	256.87	256.79	256.83	256.82	
10	257.03	257.00	257.78	258.50	257.93	258.71	257.98	257.35	256.86	256.79	256.83	256.81	
11	257.02	256.99	257.73	258.81	257.63	258.46	257.89	257.33	256.84	256.80	256.83	256.81	
12	257.01	256.99	257.50	258.48	257.62	258.60	257.79	257.30	256.84	256.81	256.83	256.81	
13	257.01	257.01	257.52	258.17	257.70	259.19	257.77	257.26	256.83	256.81	256.83	256.81	
14	257.00	257.01	257.46	257.95	257.82	259.72	257.77	257.23	256.82	256.82	256.83	256.81	
15	257.00	257.05	257.42	258.06	258.21	259.55	257.72	257.20	256.81	256.83	256.83	256.81	
16	257.01	257.11	257.45	258.32	258.12	259.25	257.71	257.17	256.81	256.83	256.82	256.82	
17	257.02	257.18	257.59	258.08	258.51	259.06	257.76	257.14	256.80	256.84	256.82	256.82	
18	257.02	257.16	257.61	257.79	259.40	259.01	257.72	257.12	256.80	256.84	256.82	256.82	
19	257.03	257.15	257.59	257.59	259.67	259.28	257.68	257.09	256.79	256.84	256.82	256.82	
20	257.04	257.14	257.57	257.46	259.38	259.14	257.65	257.07	256.79	256.84	256.83	256.82	
21	257.08	257.13	257.54	257.51	259.21	258.84	257.63	257.05	256.79	256.85	256.83	256.81	
22	257.12	257.11	257.52	257.66	259.12	258.68	257.58	257.04	256.78	256.85	256.83	256.81	
23	257.17	257.10	257.50	257.89	258.96	258.50	257.52	257.03	256.78	256.85	256.83	256.81	
24	257.18	257.07	257.49	257.74	258.64	258.46	257.51	257.02	256.78	256.85	256.83	256.80	
25	257.14	257.05	257.36	258.10	258.32	258.36	257.52	257.01	256.78	256.85	256.83	256.80	
26	257.10	257.80	257.69	258.47	258.16	258.11	257.50	257.00	256.78	256.86	256.84	256.80	
27	257.06	258.52	257.74	258.65	258.21	258.21	257.48	257.00	256.78	256.86	256.84	256.80	
28	257.02	258.58	257.65	258.40	258.41	258.96	257.48	256.99	256.77	256.85	256.85	256.80	
29	256.99	258.15	257.60	258.36	258.41	259.10	257.47	256.99	256.77	256.85	256.85	256.79	
30	256.97	257.95	257.53	258.39	258.17	258.96	257.47	256.98	256.77	256.84		256.79	
31		257.87		258.45	258.20		257.46		256.77	256.84		256.79	
Mean	257.03	257.27	257.59	257.95	258.59	258.77	257.90	257.20	256.83	256.82	256.83	256.82	
Max	257.18	258.58	258.00	258.81	259.67	259.72	258.95	257.45	256.97	256.86	256.85	256.85	259.72
Min	256.93	256.96	257.25	257.43	257.62	258.09	257.46	256.98	256.77	256.76	256.82	256.79	256.76
Annual Max Momentary Gage Height	259.82		m. (MSL.) ,			at 18.00 Hours, on Sep 14, 2011							
Zero Gage at Bottom Elevation	254.47		m. (MSL.) ,			River Bed	254.24		m. (MSL)				
Left Bank Elevation		257.87		m. (MSL.) ,									
Right Bank Elevation		258.12		m. (MSL.) ,		Drainage Area	362	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	5.92	4.27	29.50	14.60	22.00	3.15	0.00	0.00	0.00	0.00		
2	0.00	0.00	3.61	4.05	47.38	11.10	17.20	3.15	0.00	0.00	0.00	0.00		
3	0.00	0.07	1.75	3.94	63.76	10.68	20.20	3.15	0.00	0.00	0.00	0.00		
4	0.00	0.14	2.45	3.72	62.20	10.26	25.60	3.15	0.00	0.00	0.00	0.00		
5	0.00	0.28	3.36	3.61	53.62	10.68	29.50	3.08	0.00	0.00	0.00	0.00		
6	0.14	0.42	5.81	3.36	38.80	24.10	22.90	2.94	0.00	0.00	0.00	0.00		
7	0.21	0.42	8.67	3.29	19.90	45.04	13.76	2.73	0.00	0.00	0.00	0.00		
8	0.28	0.28	9.00	3.08	12.92	49.72	9.56	2.52	0.00	0.00	0.00	0.00		
9	0.21	0.21	7.46	3.01	9.98	29.80	8.23	2.52	0.00	0.00	0.00	0.00		
10	0.21	0.00	6.58	16.00	8.23	22.30	8.78	2.45	0.00	0.00	0.00	0.00		
11	0.14	0.00	6.03	25.30	4.93	15.44	7.79	2.31	0.00	0.00	0.00	0.00		
12	0.07	0.00	3.50	15.72	4.82	19.00	6.69	2.10	0.00	0.00	0.00	0.00		
13	0.07	0.07	3.72	11.38	5.70	45.82	6.47	1.82	0.00	0.00	0.00	0.00		
14	0.00	0.07	3.22	8.45	7.02	109.40	6.47	1.61	0.00	0.00	0.00	0.00		
15	0.00	0.35	2.94	9.84	11.94	77.50	5.92	1.40	0.00	0.00	0.00	0.00		
16	0.07	0.77	3.15	13.48	10.68	50.50	5.81	1.19	0.00	0.00	0.00	0.00		
17	0.14	1.26	4.49	10.12	16.30	35.68	6.36	0.98	0.00	0.00	0.00	0.00		
18	0.14	1.12	4.71	6.69	62.20	31.78	5.92	0.84	0.00	0.00	0.00	0.00		
19	0.21	1.05	4.49	4.49	99.00	52.84	5.48	0.63	0.00	0.00	0.00	0.00		
20	0.28	0.98	4.27	3.22	60.64	41.92	5.15	0.49	0.00	0.00	0.00	0.00		
21	0.56	0.91	3.94	3.61	47.38	26.20	4.93	0.35	0.00	0.00	0.00	0.00		
22	0.84	0.77	3.72	5.26	40.36	21.40	4.38	0.28	0.00	0.00	0.00	0.00		
23	1.19	0.70	3.50	7.79	29.80	16.00	3.72	0.21	0.00	0.00	0.00	0.00		
24	1.26	0.49	3.43	6.14	20.20	15.44	3.61	0.14	0.00	0.00	0.00	0.00		
25	0.98	0.35	2.52	10.40	13.48	14.04	3.72	0.07	0.00	0.00	0.00	0.00		
26	0.70	6.80	5.59	15.58	11.24	10.54	3.50	0.00	0.00	0.00	0.00	0.00		
27	0.42	16.60	6.14	20.50	11.94	11.94	3.36	0.00	0.00	0.00	0.00	0.00		
28	0.14	18.40	5.15	14.60	14.74	29.80	3.36	0.00	0.00	0.00	0.00	0.00		
29	0.00	11.10	4.60	14.04	14.74	38.80	3.29	0.00	0.00	0.00	0.00	0.00		
30	0.00	8.45	3.83	14.46	11.38	29.80	3.29	0.00	0.00	0.00	0.00	0.00		
31		7.57		15.30	11.80		3.22		0.00	0.00		0.00		
Total	8.26	79.63	137.55	284.70	856.58	922.12	280.17	43.26	0.00	0.00	0.00	0.00	2612.27	CMSDAY
Mean	0.28	2.57	4.59	9.18	27.63	30.74	9.04	1.44	0.00	0.00	0.00	0.00	7.14	CMS
Max	1.26	18.40	9.00	25.30	99.00	109.40	29.50	3.15	0.00	0.00	0.00	0.00	109.40	CMS
Min	0.00	0.00	1.75	3.01	4.82	10.26	3.22	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.71	6.88	11.88	24.60	74.01	79.67	24.21	3.74	0.00	0.00	0.00	0.00	225.70	MCM
Momentary Peak	132.61	CMS, at 259.82 m. (MSL), at 18.00 Hours, on Sep 14, 2011												
Runoff Yield	19.72	Liters/Second/Square KM.			Momentary Peak Yield			366.326	Liters/Second/Square KM.					

WATER YEAR : 2011

CHI RIVER BASIN

Chi River at Ban Muang Lat , Roi Et (E.66A)

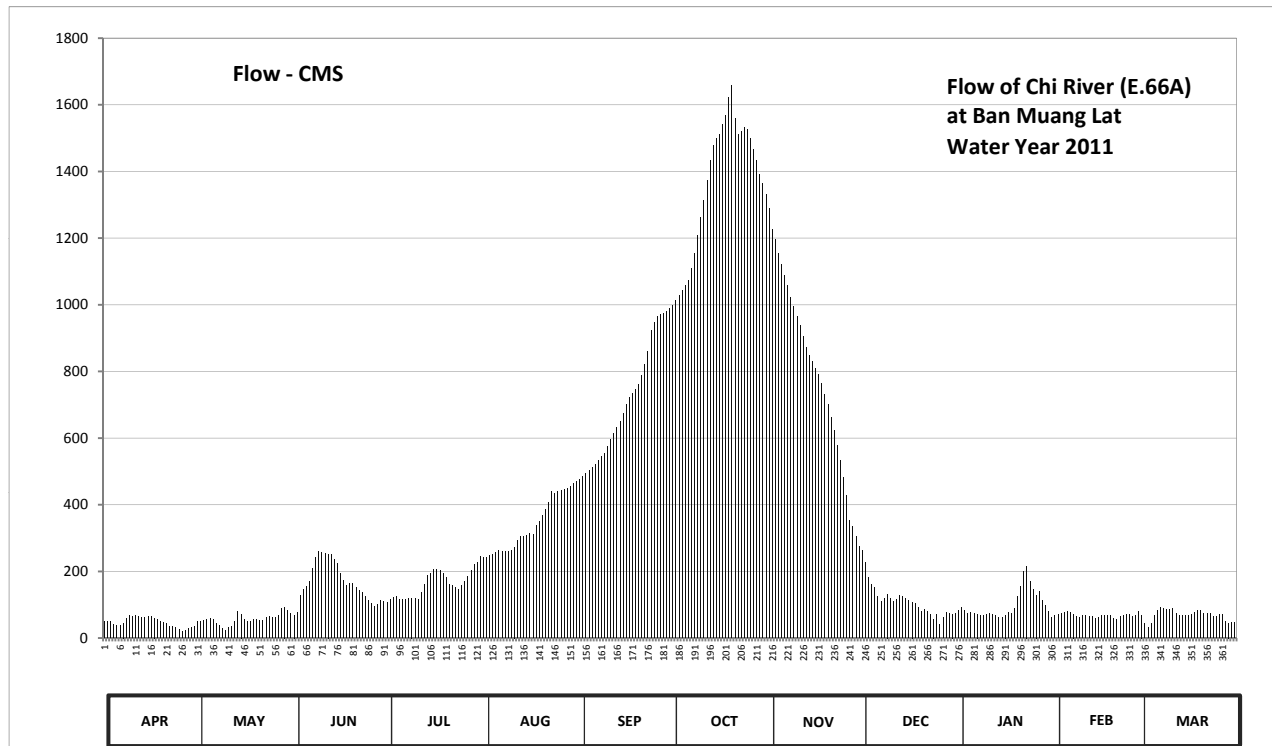
Lat 16 - 12 - 08 N Long 103 - 31 - 41 E

Location : on right bank at the bridge.

	Ban	Muang Lat	Amphoe	Chang Han	Changwat	Roi Et
Drainage Area	31,879	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+126.900	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On right bank at the abutment of the bridge.				Elevation	+143.406 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	Overbank flow starts at elevation +138.610 m.(MSL.) , records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.94	130.97	131.32	131.30	133.50	136.69	139.40	139.92	133.81	131.55	131.28	131.32	
2	130.95	130.95	131.45	131.43	133.51	136.77	139.43	139.82	133.28	131.69	131.33	130.83	
3	130.93	131.03	131.66	131.55	133.57	136.89	139.46	139.77	132.61	131.54	131.42	130.51	
4	130.71	131.06	132.00	131.62	133.63	137.00	139.49	139.70	132.25	131.38	131.48	130.82	
5	130.65	131.12	132.16	131.45	133.73	137.09	139.52	139.64	132.10	131.44	131.49	131.30	
6	130.70	131.04	132.39	131.45	133.79	137.19	139.55	139.58	132.18	131.42	131.44	131.56	
7	130.84	130.81	133.02	131.45	133.77	137.29	139.62	139.52	132.00	131.37	131.37	131.70	
8	131.11	130.66	133.49	131.49	133.76	137.40	139.70	139.45	132.11	131.30	131.26	131.67	
9	131.27	130.43	133.75	131.54	133.76	137.49	139.79	139.39	132.30	131.28	131.19	131.60	
10	131.26	130.30	133.72	131.50	133.80	137.69	139.88	139.33	132.13	131.35	131.28	131.61	
11	131.29	130.53	133.68	131.47	133.96	137.87	139.96	139.27	132.01	131.38	131.31	131.65	
12	131.25	130.62	133.65	131.82	134.23	138.01	140.05	139.20	132.07	131.34	131.22	131.42	
13	131.18	130.93	133.64	132.23	134.42	138.13	140.14	139.13	132.22	131.31	131.22	131.27	
14	131.18	131.52	133.40	132.67	134.43	138.25	140.21	139.07	132.21	131.18	131.14	131.31	
15	131.22	131.37	133.22	132.80	134.46	138.39	140.24	139.01	132.11	131.16	131.20	131.28	
16	131.21	131.06	132.77	132.97	134.54	138.53	140.26	138.94	132.04	131.32	131.27	131.27	
17	131.15	130.97	132.47	132.95	134.52	138.62	140.30	138.88	131.97	131.45	131.31	131.36	
18	131.05	130.96	132.21	132.93	134.88	138.67	140.34	138.78	131.88	131.43	131.29	131.44	
19	130.96	131.05	132.31	132.79	135.02	138.72	140.42	138.66	131.70	131.67	131.27	131.57	
20	130.86	131.04	132.31	132.58	135.26	138.77	140.47	138.52	131.53	132.19	131.14	131.56	
21	130.80	131.02	132.11	132.25	135.54	138.87	140.33	138.33	131.62	132.59	131.09	131.38	
22	130.63	131.00	131.95	132.22	135.81	138.98	140.26	138.06	131.53	133.16	131.23	131.38	
23	130.60	131.18	131.84	132.09	136.22	139.10	140.27	137.73	131.35	133.34	131.30	131.39	
24	130.56	131.26	131.62	132.03	136.16	139.24	140.29	137.29	131.10	132.78	131.33	131.25	
25	130.34	131.17	131.42	132.21	136.23	139.29	140.28	136.74	131.36	132.50	131.33	131.22	
26	130.14	131.19	131.20	132.39	136.26	139.33	140.24	136.07	130.77	132.26	131.23	131.34	
27	130.24	131.27	131.03	132.65	136.29	139.34	140.19	135.07	131.16	132.40	131.27	131.34	
28	130.50	131.67	131.17	132									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	49.40	50.70	69.30	107.60	242.00	478.00	1000.00	1288.80	263.10	82.10	67.10	69.30		
2	49.80	49.80	76.30	114.40	242.70	484.70	1014.40	1226.40	227.00	90.80	69.80	44.50		
3	48.90	53.60	126.60	120.70	246.80	494.80	1028.80	1196.00	183.00	81.50	74.70	30.40		
4	39.20	55.20	145.00	124.50	250.80	504.00	1043.20	1154.00	160.50	72.50	77.90	44.10		
5	36.60	58.50	154.90	115.40	257.60	513.00	1058.40	1121.60	151.20	75.80	78.50	68.20		
6	38.80	54.20	169.20	115.40	261.70	523.00	1074.00	1089.60	123.30	74.70	75.80	82.70		
7	45.00	43.60	209.40	115.40	260.40	533.00	1110.80	1058.40	110.00	72.00	72.00	91.40		
8	57.90	37.00	241.30	117.50	259.70	544.00	1154.00	1024.00	118.10	68.20	66.00	89.50		
9	66.60	27.80	259.00	120.20	259.70	553.00	1208.00	995.20	132.20	67.10	62.30	85.20		
10	66.00	23.60	257.00	118.00	262.40	574.80	1263.60	966.40	119.60	70.90	67.10	85.80		
11	67.70	31.30	254.20	116.40	273.30	596.40	1314.40	938.20	110.70	72.50	68.70	88.30		
12	65.50	35.30	252.20	135.30	291.60	615.40	1373.00	906.00	115.20	70.40	63.90	74.70		
13	61.70	48.90	251.50	159.30	304.60	632.20	1432.80	873.80	126.30	68.70	63.90	66.60		
14	61.70	80.20	235.20	186.90	305.20	650.00	1479.80	849.80	125.50	61.70	59.60	68.70		
15	63.90	72.00	223.00	195.20	307.30	674.20	1500.20	829.40	118.10	60.60	62.80	67.10		
16	63.30	55.20	193.30	206.10	313.00	702.60	1513.80	808.60	113.00	69.30	66.60	66.60		
17	60.10	50.70	174.10	204.80	311.50	722.80	1541.00	791.40	108.10	76.30	68.70	71.40		
18	54.70	50.20	158.00	203.50	338.10	734.80	1568.60	763.60	102.60	75.20	67.70	75.80		
19	50.20	54.70	164.20	194.60	348.50	747.40	1624.00	732.40	91.40	89.50	66.60	83.30		
20	45.80	54.20	164.20	181.10	366.20	760.90	1659.00	700.40	80.90	124.10	59.60	82.70		
21	43.20	53.10	151.80	160.50	387.00	788.60	1561.70	663.40	86.40	154.00	56.90	72.50		
22	35.70	52.00	142.30	158.60	407.60	820.20	1513.80	622.40	80.90	200.10	64.40	72.50		
23	34.40	61.70	136.40	150.60	439.60	860.00	1520.60	579.60	70.90	215.90	68.20	73.10		
24	32.60	66.00	124.50	146.90	434.80	924.40	1534.20	533.00	57.40	168.80	69.80	65.50		
25	24.90	61.20	113.80	158.00	440.40	947.40	1527.40	482.20	71.40	147.00	69.80	63.90		
26	18.50	62.30	102.40	169.20	442.80	966.40	1500.20	427.60	41.90	129.20	64.40	70.40		
27	21.70	66.60	93.60	185.60	445.20	971.20	1466.30	352.20	60.60	139.60	66.60	70.40		
28	30.00	89.50	100.80	203.50	448.40	976.00	1432.80	333.70	77.90	113.70	80.90	51.10		
29	32.20	93.30	113.80	219.60	454.80	980.80	1392.80	305.90	74.10	96.40	82.70	45.00		
30	34.00	82.70	110.70	227.70	463.70	990.40	1366.40	275.30	72.00	79.00		46.30		
31		74.10		243.40	471.20		1333.60		73.60	61.70		47.60		
Total	1400.00	1749.20	4968.00	4975.90	10538.60	21264.40	42111.60	23889.30	3446.90	3029.30	1983.00	2114.60	121470.80	CMSDAY
Mean	46.70	56.40	165.60	160.50	340.00	708.80	1358.40	796.30	111.20	97.70	68.40	68.20	331.90	CMS
Max	67.70	93.30	259.00	243.40	471.20	990.40	1659.00	1288.80	263.10	215.90	82.70	91.40	1659.00	CMS
Min	18.50	23.60	69.30	107.60	242.00	478.00	1000.00	275.30	41.90	60.60	56.90	30.40	18.50	CMS
Runoff	120.96	151.13	429.24	429.92	91.54	1837.24	3638.44	2064.04	297.81	261.73	171.33	182.70	10495.08	MCM
Momentary Peak	1680.00	CMS, at 140.50 m. (MSL), at 06.00 Hours, on Oct 20, 2011												
Runoff Yield	10.41	Liters/Second/Square KM.			Momentary Peak Yield			52.699	Liters/Second/Square KM.					

WATER YEAR : 2011

CHI RIVER BASIN

Lam Phaniang at Ban Khong Po , Nong Bua Lamphu (E.68A)

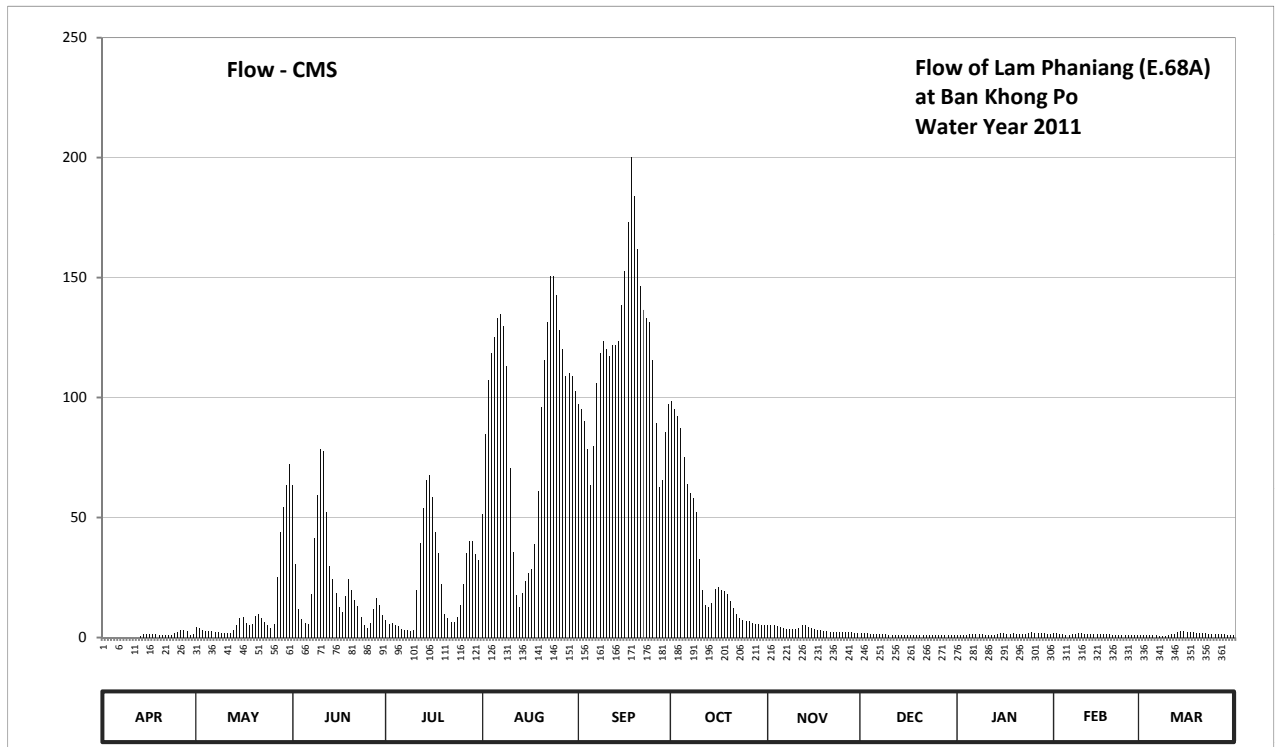
Lat 17 - 04 - 47 N Long 102 - 27 - 11 E

Location : on left bank at the bridge of Nong Bua Lamphu - Amphoe Non Sang Highway.

	Ban	Khong Po	Amphoe	Mueang	Changwat	Nong Bua Lamphu
Drainage Area	1,364	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+194.730	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On left bank downstream site at the footpath of the bridge.				Elevation	+201.740 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1997 to date					
Rating Operation						
Period of Rating	1997 to date					
Rated by Flot	-					
Rated by Current Meter	1997 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +198.050 m.(MSL.) , records are channel flow only.					
General Description	Records Fair. The concrete weir situated downstream from the gage site.					
	Stage-discharge relation defined by 21 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	196.29	197.13	199.08	197.31	198.82	199.52	199.53	197.19	196.88	196.78	196.88	196.79	
2	196.29	197.09	198.25	197.22	199.39	199.50	199.50	197.17	196.88	196.78	196.87	196.78	
3	196.28	197.01	197.57	197.24	199.61	199.45	199.47	197.17	196.88	196.78	196.86	196.78	
4	196.28	196.96	197.35	197.19	199.69	199.31	199.42	197.16	196.85	196.79	196.84	196.78	
5	196.28	196.96	197.23	197.14	199.73	199.08	199.27	197.12	196.83	196.86	196.82	196.78	
6	196.27	196.96	197.22	197.07	199.78	199.33	199.09	197.09	196.83	196.86	196.82	196.77	
7	196.27	196.93	197.82	196.99	199.79	199.60	199.01	197.07	196.84	196.83	196.83	196.76	
8	196.27	196.91	198.57	197.01	199.76	199.69	198.97	197.06	196.86	196.83	196.86	196.74	
9	196.27	196.89	199.00	196.97	199.65	199.72	198.84	197.06	196.83	196.83	196.88	196.74	
10	196.27	196.90	199.31	197.01	199.21	199.70	198.32	197.07	196.82	196.81	196.87	196.80	
11	196.26	196.89	199.30	197.89	198.40	199.68	197.89	197.11	196.82	196.80	196.86	196.83	
12	196.28	196.89	198.84	198.51	197.80	199.71	197.65	197.18	196.82	196.77	196.84	196.85	
13	196.71	196.99	198.22	198.88	197.61	199.71	197.61	197.17	196.82	196.81	196.83	196.93	
14	196.84	197.18	198.04	199.12	197.85	199.72	197.67	197.12	196.82	196.84	196.83	196.98	
15	196.84	197.36	197.84	199.16	198.02	199.81	197.90	197.08	196.82	196.87	196.83	196.98	
16	196.83	197.41	197.60	198.98	198.13	199.88	197.94	197.05	196.82	196.88	196.83	196.93	
17	196.83	197.24	197.51	198.64	198.18	199.96	197.89	197.02	196.82	196.86	196.83	196.93	
18	196.83	197.17	197.79	198.39	198.50	200.04	197.88	197.00	196.81	196.84	196.83	196.92	
19	196.82	197.21	198.04	197.97	199.03	200.00	197.82	196.98	196.81	196.87	196.83	196.89	
20	196.81	197.42	197.89	197.46	199.51	199.92	197.70	196.97	196.81	196.86	196.81	196.89	
21	196.80	197.47	197.72	197.38	199.67	199.85	197.58	196.92	196.80	196.86	196.81	196.88	
22	196.80	197.38	197.62	197.27	199.77	199.80	197.47	196.92	196.80	196.83	196.80	196.87	
23	196.82	197.27	197.40	197.27	199.87	199.78	197.37	196.93	196.79	196.83	196.80	196.86	
24	196.89	197.17	197.19	197.40	199.87	199.77	197.32	196.92	196.79	196.88	196.80	196.85	
25	196.92	197.10	197.09	197.65	199.83	199.67	197.29	196.91	196.79	196.91	196.80	196.83	
26	197.02	197.21	197.23	197.98	199.75	199.44	197.28	196.91	196.79	196.90	196.80	196.83	
27	197.02	198.08	197.57	198.39	199.70	199.06	197.23	196.91	196.79	196.90	196.79	196.83	
28	196.97	198.64	197.76	198									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	4.45	63.50	7.15	51.40	97.20	98.30	5.35	1.80	0.90	1.80	0.95		
2	0.00	3.90	30.50	5.80	84.70	95.00	95.00	5.05	1.80	0.90	1.70	0.90		
3	0.00	3.10	11.90	6.10	107.40	90.25	92.15	5.05	1.80	0.90	1.60	0.90		
4	0.00	2.60	7.75	5.35	118.60	78.30	87.40	4.90	1.50	0.95	1.40	0.90		
5	0.00	2.60	5.95	4.60	124.95	63.50	75.25	4.30	1.30	1.60	1.20	0.90		
6	0.00	2.60	5.80	3.70	133.20	79.90	64.00	3.90	1.30	1.60	1.20	0.85		
7	0.00	2.30	18.00	2.90	134.85	106.00	60.00	3.70	1.40	1.30	1.30	0.80		
8	0.00	2.10	41.45	3.10	129.90	118.60	58.15	3.60	1.60	1.30	1.60	0.70		
9	0.00	1.90	59.50	2.70	113.00	123.30	52.30	3.60	1.30	1.30	1.80	0.70		
10	0.00	2.00	78.30	3.10	70.75	120.00	32.70	3.70	1.20	1.10	1.70	1.00		
11	0.00	1.90	77.50	19.75	35.50	117.20	19.75	4.15	1.20	1.00	1.60	1.30		
12	0.00	1.90	52.30	39.35	17.50	121.65	13.75	5.20	1.20	0.85	1.40	1.50		
13	0.55	2.90	29.60	54.10	12.75	121.65	12.75	5.05	1.20	1.10	1.30	2.30		
14	1.40	5.20	24.20	65.60	18.75	123.30	14.25	4.30	1.20	1.40	1.30	2.80		
15	1.40	7.90	18.50	67.80	23.60	138.50	20.00	3.80	1.20	1.70	1.30	2.80		
16	1.30	8.70	12.50	58.60	26.90	152.50	21.20	3.50	1.20	1.80	1.30	2.30		
17	1.30	6.10	10.70	44.10	28.40	173.00	19.75	3.20	1.20	1.60	1.30	2.30		
18	1.30	5.05	17.25	35.15	39.00	200.40	19.50	3.00	1.10	1.40	1.30	2.20		
19	1.20	5.65	24.20	22.10	61.00	184.00	18.00	2.80	1.10	1.70	1.30	1.90		
20	1.10	8.90	19.75	9.70	96.10	162.00	15.00	2.70	1.10	1.60	1.10	1.90		
21	1.00	9.90	15.50	8.20	115.80	146.50	12.10	2.20	1.00	1.60	1.10	1.80		
22	1.00	8.20	13.00	6.55	131.55	136.50	9.90	2.20	1.00	1.30	1.00	1.70		
23	1.20	6.55	8.50	6.55	150.50	133.20	8.05	2.30	0.95	1.30	1.00	1.60		
24	1.90	5.05	5.35	8.50	150.50	131.55	7.30	2.20	0.95	1.80	1.00	1.50		
25	2.20	4.00	3.90	13.75	142.50	115.80	6.85	2.10	0.95	2.10	1.00	1.30		
26	3.20	5.65	5.95	22.40	128.25	89.30	6.70	2.10	0.95	2.00	1.00	1.30		
27	3.20	25.40	11.90	35.15	120.00	62.50	5.95	2.10	0.95	2.00	0.95	1.30		
28	2.70	44.10	16.50	40.05	108.80	65.60	5.65	2.10	0.95	2.00	0.95	1.30		
29	1.00	54.55	13.75	40.40	110.20	85.50	5.50	2.00	0.95	1.90	0.95	1.20		
30	1.30	63.50	9.30	34.80	108.80	97.20	5.20	2.00	0.90	1.60		1.20		
31		72.25		32.35	102.70		5.35		0.90	1.60		1.10		
Total	28.25	380.90	712.80	709.45	2797.85	3529.90	967.75	102.15	37.15	45.20	37.45	45.20	9394.05	CMSDAY
Mean	0.94	12.29	23.76	22.89	90.25	117.66	31.22	3.40	1.20	1.46	1.29	1.46	25.67	CMS
Max	3.20	72.25	78.30	67.80	150.50	200.40	98.30	5.35	1.80	2.10	1.80	2.80	200.40	CMS
Min	0.00	1.90	3.90	2.70	12.75	62.50	5.20	2.00	0.90	0.85	0.95	0.70	0.00	CMS
Runoff	2.44	32.91	61.59	61.30	241.73	304.98	83.61	8.83	3.21	3.91	3.24	3.91	811.65	MCM
Momentary Peak	208.60 CMS, at 200.06 m. (MSL), at 16.00 Hours, on Sep 18, 2011													
Runoff Yield	18.82	Liters/Second/Square KM.			Momentary Peak Yield		152.933	Liters/Second/Square KM.						

WATER YEAR : 2011

CHI RIVER BASIN

Lam Nam Yang at Ban Kut Kwang , Roi Et (E.70)

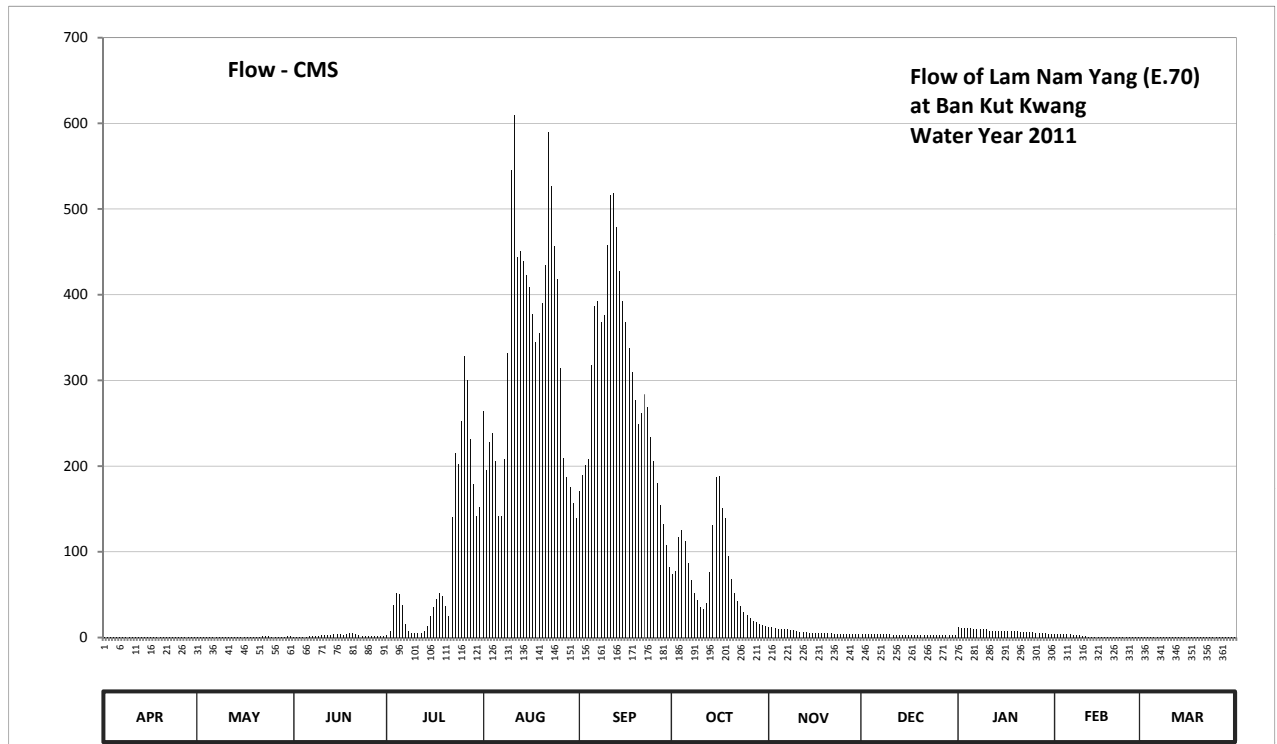
Lat 16 - 17 - 14 N Long 104 - 00 - 34 E

Location : on right bank at the bridge on highway.

	Ban	Kut Kwang	Amphoe	Phon Thong	Changwat	Roi Et
Drainage Area	2,647	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+132.120	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On right bank at the abutment of the bridge.				Elevation	+144.037 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
Rated by Current Meter	1984 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +138.790 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 1911.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.60	131.75	131.93	132.18	137.68	136.25	134.43	132.73	132.21	132.73	132.27	131.92	
2	131.60	131.75	131.93	132.51	136.66	136.55	134.52	132.72	132.21	132.67	132.26	131.92	
3	131.60	131.75	131.96	133.56	137.17	136.75	135.29	132.69	132.21	132.67	132.25	131.92	
4	131.60	131.75	131.96	133.93	137.32	136.87	135.45	132.64	132.21	132.67	132.24	131.92	
5	131.60	131.75	131.98	133.88	136.83	138.46	135.21	132.63	132.21	132.67	132.23	131.92	
6	131.60	131.75	132.04	133.55	135.74	139.32	134.70	132.63	132.21	132.63	132.21	131.92	
7	131.60	131.74	132.06	132.91	135.74	139.39	134.28	132.60	132.21	132.62	132.19	131.92	
8	131.60	131.74	132.09	132.51	136.86	139.08	133.93	132.57	132.21	132.62	132.19	131.92	
9	131.60	131.74	132.08	132.33	138.64	139.19	133.70	132.55	132.21	132.62	132.14	131.92	
10	131.59	131.74	132.16	132.32	140.57	140.12	133.48	132.52	132.21	132.62	132.06	131.92	
11	131.59	131.74	132.17	132.31	140.77	140.47	133.42	132.49	132.20	132.53	132.03	131.92	
12	131.59	131.85	132.15	132.34	139.99	140.48	133.61	132.48	132.20	132.52	132.01	131.92	
13	131.59	131.88	132.17	132.52	140.06	140.27	134.49	132.45	132.20	132.52	132.01	131.92	
14	131.59	131.95	132.22	132.78	139.94	139.83	135.55	132.40	132.20	132.52	132.01	131.92	
15	131.59	131.95	132.25	133.20	139.77	139.39	136.52	132.38	132.20	132.52	132.01	131.92	
16	131.59	131.99	132.24	133.50	139.60	139.09	136.54	132.36	132.20	132.52	132.01	131.92	
17	131.59	131.95	132.19	133.72	139.21	138.70	135.91	132.35	132.20	132.52	132.01	131.92	
18	131.59	131.94	132.24	133.91	138.79	138.34	135.71	132.34	132.20	132.52	132.01	131.92	
19	131.59	131.94	132.30	133.84	138.93	137.87	134.88	132.34	132.20	132.52	132.01	131.92	
20	131.59	131.98	132.32	133.51	139.37	137.47	134.30	132.34	132.20	132.52	132.00	131.92	
21	131.59	132.01	132.28	133.20	139.90	137.66	133.91	132.32	132.19	132.43	132.00	131.92	
22	131.59	132.04	132.12	135.72	140.71	137.97	133.67	132.29	132.19	132.42	131.99	131.92	
23	131.59	132.06	132.06	136.98	140.51	137.76	133.51	132.27	132.19	132.42	131.98	131.92	
24	131.61	132.03	132.07	136.77	140.11	137.26	133.33	132.25	132.19	132.42	131.97	131.92	
25	131.61	131.99	132.08	137.52	139.72	136.83	133.24	132.26	132.19	132.42	131.96	131.92	
26	131.60	131.98	132.08	138.59	138.41	136.40	133.12	132.26	132.19	132.37	131.95	131.92	
27	131.72	131.99	132.08	138.20	136.89	135.97	133.03	132.24	132.19	132.37	131.94	131.92	
28	131.75	132.00	132.08	137									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	0.50	0.86	3.16	263.60	171.00	73.92	12.06	3.52	12.06	4.24	0.84		
2	0.20	0.50	0.86	7.22	195.60	189.00	77.96	11.84	3.52	10.74	4.12	0.84		
3	0.20	0.50	0.92	38.28	227.90	201.00	116.66	11.18	3.52	10.74	4.00	0.84		
4	0.20	0.50	0.92	52.34	238.40	208.20	125.30	10.08	3.52	10.74	3.88	0.84		
5	0.20	0.50	0.96	50.44	205.80	318.20	112.34	9.86	3.52	10.74	3.76	0.84		
6	0.20	0.50	1.48	37.90	141.44	386.60	86.60	9.86	3.52	9.86	3.52	0.84		
7	0.20	0.48	1.72	16.02	141.44	392.20	67.32	9.20	3.52	9.64	3.28	0.84		
8	0.20	0.48	2.08	7.22	207.60	367.40	52.34	8.54	3.52	9.64	3.28	0.84		
9	0.20	0.48	1.96	4.96	332.20	376.20	43.60	8.10	3.52	9.64	2.68	0.84		
10	0.18	0.48	2.92	4.84	545.40	457.80	35.28	7.44	3.52	9.64	1.72	0.84		
11	0.18	0.48	3.04	4.72	609.40	516.10	33.12	6.88	3.40	7.66	1.36	0.84		
12	0.18	0.70	2.80	5.08	444.00	518.40	40.18	6.76	3.40	7.44	1.12	0.84		
13	0.18	0.76	3.04	7.44	451.00	479.50	76.56	6.40	3.40	7.44	1.12	0.84		
14	0.18	0.90	3.64	13.16	439.00	428.00	130.80	5.80	3.40	7.44	1.12	0.84		
15	0.18	0.90	4.00	25.20	422.60	392.20	187.20	5.56	3.40	7.44	1.12	0.84		
16	0.18	0.98	3.88	36.00	409.00	368.20	188.40	5.32	3.40	7.44	1.12	0.84		
17	0.18	0.90	3.28	44.36	377.80	337.00	150.96	5.20	3.40	7.44	1.12	0.84		
18	0.18	0.88	3.88	51.58	344.20	309.80	139.76	5.08	3.40	7.44	1.12	0.84		
19	0.18	0.88	4.60	48.92	355.40	276.90	95.24	5.08	3.40	7.44	1.12	0.84		
20	0.18	0.96	4.84	36.38	390.60	248.90	68.20	5.08	3.40	7.44	1.00	0.84		
21	0.18	1.12	4.36	25.20	435.00	262.20	51.58	4.84	3.28	6.16	1.00	0.84		
22	0.18	1.48	2.44	140.32	590.20	283.90	42.46	4.48	3.28	6.04	0.98	0.84		
23	0.18	1.72	1.72	214.80	526.20	269.20	36.38	4.24	3.28	6.04	0.96	0.84		
24	0.22	1.36	1.84	202.20	456.40	234.20	29.88	4.00	3.28	6.04	0.94	0.84		
25	0.22	0.98	1.96	252.40	418.60	205.80	26.64	4.12	3.28	6.04	0.92	0.84		
26	0.20	0.96	1.96	328.20	314.70	180.00	22.32	4.12	3.28	5.44	0.90	0.84		
27	0.44	0.98	1.96	300.00	209.40	154.32	19.08	3.88	3.28	5.44	0.88	0.84		
28	0.50	1.00	1.96	231.40	187.20	131.92	17.56	3.76	3.28	4.84	0.86	0.84		
29	0.60	1.12	1.96	178.80	175.80	107.48	16.02	3.52	3.28	4.84	0.84	0.84		
30	0.42	1.24	1.84	141.44	156.60	82.28	14.70	3.52	3.28	4.24		0.84		
31		1.36		152.64	139.76		13.38		3.28	4.24		0.84		
Total	6.92	26.58	73.68	2662.62	10352.24	8853.90	2191.74	195.80	105.28	237.42	54.08	26.04	24786.30	CMSDAY
Mean	0.23	0.86	2.46	85.89	333.94	295.13	70.70	6.53	3.40	7.66	1.86	0.84	67.72	CMS
Max	0.60	1.72	4.84	328.20	609.40	518.40	188.40	12.06	3.52	12.06	4.24	0.84	609.40	CMS
Min	0.18	0.48	0.86	3.16	139.76	82.28	13.38	3.52	3.28	4.24	0.84	0.84	0.18	CMS
Runoff	0.60	2.30	6.37	230.05	894.43	764.98	189.37	16.92	9.10	20.51	4.67	2.25	2141.54	MCM
Momentary Peak	658.80	CMS, at 140.92 m. (MSL), at 12.00 Hours, on Aug 22, 2011												
Runoff Yield	25.58	Liters/Second/Square KM.			Momentary Peak Yield		248.886	Liters/Second/Square KM.						

WATER YEAR : 2011

CHI RIVER BASIN

Lam Chiang at Ban Chiang , Chaiyaphum (E.72)

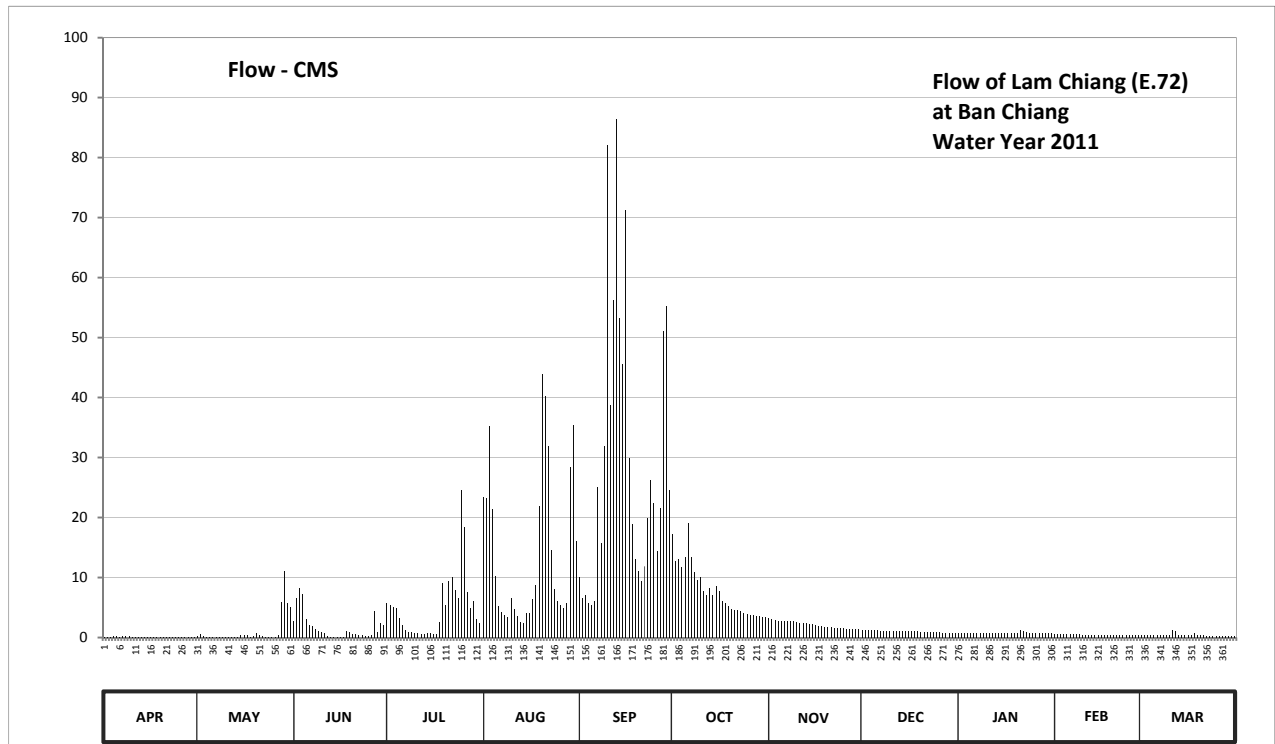
Lat 16 - 01 - 26 N Long 101 - 30 - 12 E

Location : on left bank at Ban Chiang School.

	Ban	Chiang	Amphoe	Phak Di Chumphon	Changwat	Chaiyaphum
Drainage Area	323	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+234.120	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On left bank downstream at the footpath of the bridge.				Elevation	+243.534 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 to date					
Stability of Channel Regimes	Rather unstable.					
Overbank Flow Conditions	Overbank flow starts at elevation +238.790 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 1911.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	234.43	234.60	235.26	235.78	237.76	236.34	237.14	235.36	234.93	234.79	234.74	234.65	
2	234.43	234.72	235.94	235.74	237.75	235.92	236.63	235.32	234.93	234.79	234.74	234.65	
3	234.44	234.56	236.14	235.69	238.75	236.01	236.68	235.28	234.93	234.79	234.73	234.65	
4	234.57	234.52	236.02	235.64	237.59	235.79	236.52	235.25	234.92	234.78	234.73	234.65	
5	234.56	234.53	235.32	235.36	236.36	235.72	236.71	235.24	234.92	234.78	234.72	234.65	
6	234.53	234.51	235.13	235.11	235.71	235.86	237.34	235.24	234.92	234.78	234.72	234.64	
7	234.60	234.50	235.08	234.94	235.54	237.92	236.72	235.24	234.91	234.78	234.71	234.64	
8	234.59	234.49	235.00	234.86	235.46	236.98	236.44	235.24	234.91	234.77	234.71	234.64	
9	234.56	234.49	234.90	234.82	235.37	238.49	236.28	235.24	234.91	234.77	234.70	234.64	
10	234.52	234.51	234.85	234.79	235.92	240.65	236.34	235.20	234.91	234.77	234.69	234.67	
11	234.51	234.50	234.76	234.76	235.62	239.01	236.09	235.19	234.90	234.77	234.69	234.95	
12	234.50	234.50	234.60	234.72	235.41	239.91	236.01	235.18	234.90	234.77	234.69	234.87	
13	234.49	234.49	234.53	234.71	235.22	240.75	236.14	235.17	234.89	234.77	234.68	234.67	
14	234.48	234.50	234.52	234.75	235.17	239.79	236.00	235.16	234.89	234.77	234.68	234.65	
15	234.47	234.67	234.51	234.77	235.51	239.45	236.17	235.15	234.88	234.77	234.68	234.64	
16	234.46	234.65	234.51	234.72	235.52	240.37	236.09	235.12	234.88	234.77	234.68	234.64	
17	234.45	234.63	234.53	234.71	235.91	238.32	235.86	235.09	234.87	234.77	234.68	234.63	
18	234.44	234.53	234.87	235.20	236.20	237.32	235.78	235.07	234.87	234.77	234.68	234.76	
19	234.43	234.54	234.86	236.23	237.63	236.68	235.70	235.06	234.87	234.77	234.67	234.69	
20	234.42	234.80	234.72	235.72	239.36	236.46	235.62	235.05	234.86	234.77	234.67	234.66	
21	234.41	234.66	234.74	236.26	239.11	236.27	235.60	235.04	234.86	234.93	234.67	234.62	
22	234.41	234.58	234.67	236.34	238.49	236.54	235.59	235.03	234.85	234.90	234.66	234.60	
23	234.40	234.53	234.63	236.10	236.85	237.43	235.56	235.02	234.84	234.83	234.66	234.60	
24	234.44	234.47	234.61	235.92	236.13	238.02	235.51	235.02	234.83	234.79	234.66	234.59	
25	234.43	234.47	234.59	237.87	235.86	237.68	235.48	235.01	234.82	234.77	234.66	234.59	
26	234.43	234.48	234.65	237.26	235.75	236.83	235.45	235.00	234.82	234.76	234.66	234.58	
27	234.43	234.66	235.58	236.06	235.64	237.60	235.44	235.00	234.81	234.75	234.66	234.58	
28	234.42	235.82	234.84	235									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.06	0.30	2.80	5.68	23.36	10.06	17.26	3.30	1.22	0.77	0.62	0.40		
2	0.06	0.56	6.64	5.44	23.25	6.52	12.67	3.10	1.22	0.77	0.62	0.40		
3	0.07	0.22	8.26	5.14	35.25	7.09	13.12	2.90	1.22	0.77	0.59	0.40		
4	0.24	0.14	7.18	4.84	21.49	5.74	11.68	2.75	1.18	0.74	0.59	0.40		
5	0.22	0.16	3.10	3.30	10.24	5.32	13.39	2.70	1.18	0.74	0.56	0.40		
6	0.16	0.12	2.15	2.05	5.26	6.16	19.06	2.70	1.18	0.74	0.56	0.38		
7	0.30	0.10	1.90	1.26	4.24	25.12	13.48	2.70	1.14	0.74	0.53	0.38		
8	0.28	0.10	1.50	0.98	3.80	15.82	10.96	2.70	1.14	0.71	0.53	0.38		
9	0.22	0.10	1.10	0.86	3.35	31.88	9.52	2.70	1.14	0.71	0.50	0.38		
10	0.14	0.12	0.95	0.77	6.52	82.10	10.06	2.50	1.14	0.71	0.48	0.44		
11	0.12	0.10	0.68	0.68	4.72	38.65	7.81	2.45	1.10	0.71	0.48	1.30		
12	0.10	0.10	0.30	0.56	3.55	56.30	7.09	2.40	1.10	0.71	0.48	1.01		
13	0.10	0.10	0.16	0.53	2.60	86.50	8.26	2.35	1.07	0.71	0.46	0.44		
14	0.09	0.10	0.14	0.65	2.35	53.25	7.00	2.30	1.07	0.71	0.46	0.40		
15	0.09	0.44	0.12	0.71	4.06	45.50	8.53	2.25	1.04	0.71	0.46	0.38		
16	0.08	0.40	0.12	0.56	4.12	71.21	7.81	2.10	1.04	0.71	0.46	0.38		
17	0.08	0.36	0.16	0.53	6.46	29.84	6.16	1.95	1.01	0.71	0.46	0.36		
18	0.07	0.16	1.01	2.50	8.80	18.88	5.68	1.85	1.01	0.71	0.46	0.68		
19	0.06	0.18	0.98	9.07	21.93	13.12	5.20	1.80	1.01	0.71	0.44	0.48		
20	0.06	0.80	0.56	5.32	43.90	11.14	4.72	1.75	0.98	0.71	0.44	0.42		
21	0.06	0.42	0.62	9.34	40.15	9.43	4.60	1.70	0.98	1.22	0.44	0.34		
22	0.06	0.26	0.44	10.06	31.88	11.86	4.54	1.65	0.95	1.10	0.42	0.30		
23	0.05	0.16	0.36	7.90	14.65	19.87	4.36	1.60	0.92	0.89	0.42	0.30		
24	0.07	0.09	0.32	6.52	8.17	26.24	4.06	1.60	0.89	0.77	0.42	0.28		
25	0.06	0.09	0.28	24.57	6.16	22.48	3.90	1.55	0.86	0.71	0.42	0.28		
26	0.06	0.09	0.40	18.34	5.50	14.47	3.75	1.50	0.86	0.68	0.42	0.26		
27	0.06	0.42	4.48	7.54	4.84	21.60	3.70	1.50	0.83	0.65	0.42	0.26		
28	0.06	5.92	0.92	4.84	5.80	51.00	3.60	1.46	0.83	0.65	0.40	0.26		
29	0.06	11.14	2.40	6.10	28.40	55.25	3.55	1.42	0.80	0.65	0.40	0.26		
30	0.06	5.68	2.10	3.15	35.38	24.57	3.50	1.42	0.80	0.65		0.26		
31		5.02		2.45	16.00		3.50		0.77	0.65		0.24		
Total	3.20	33.95	52.13	152.24	436.18	876.97	242.52	64.65	31.68	23.12	13.94	12.85	1943.43	CMSDAY
Mean	0.11	1.10	1.74	4.91	14.07	29.23	7.82	2.15	1.02	0.75	0.48	0.41	5.31	CMS
Max	0.30	11.14	8.26	24.57	43.90	86.50	19.06	3.30	1.22	1.22	0.62	1.30	86.50	CMS
Min	0.05	0.09	0.12	0.53	2.35	5.32	3.50	1.42	0.77	0.65	0.40	0.24	0.05	CMS
Runoff	0.28	2.93	4.50	13.15	37.69	75.77	20.95	5.59	2.74	2.00	1.20	1.11	167.91	MCM
Momentary Peak	116.38	CMS, at 241.32 m. (MSL), at 14.00 Hours, on Sep 13, 2011												
Runoff Yield	16.44	Liters/Second/Square KM.			Momentary Peak Yield			360.310	Liters/Second/Square KM.					

WATER YEAR : 2011

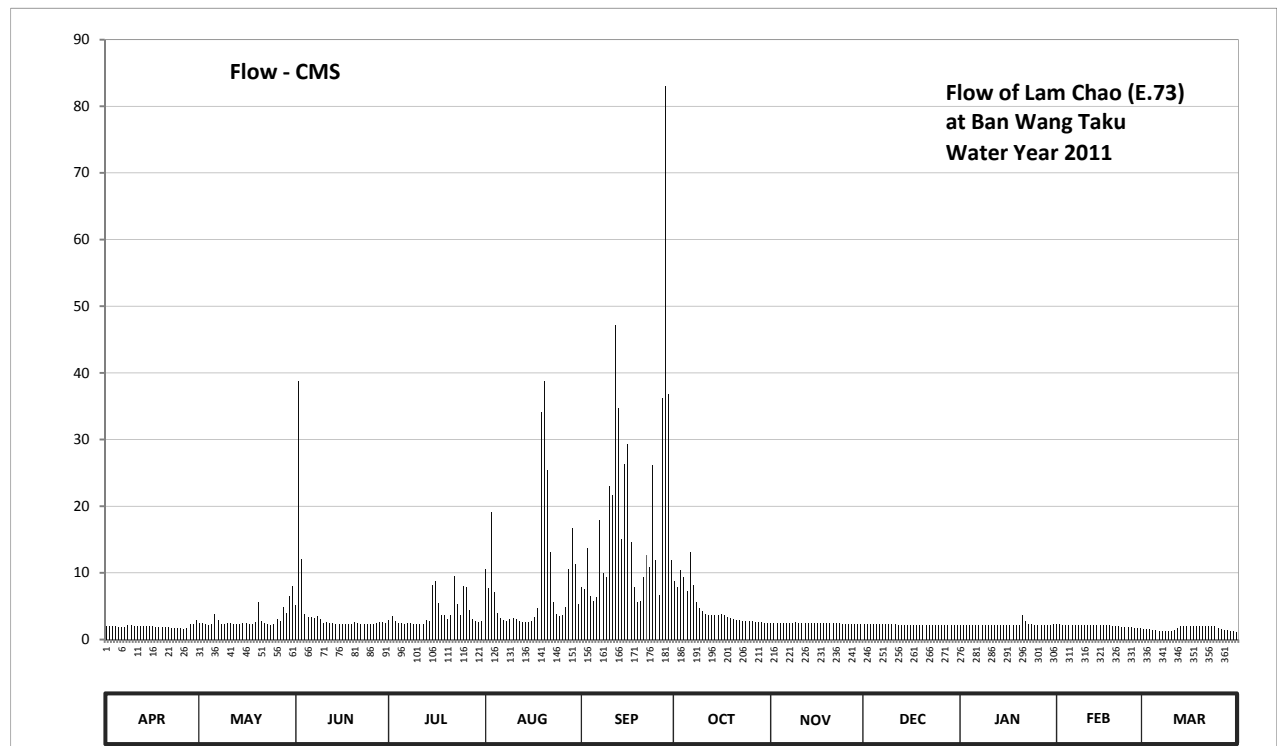
CHI RIVER BASIN

Lam Chao at Ban Wang Taku , Chaiyaphum (E.73

Lat 15 - 56 - 59 N Long 101 - 26 - 44 E

Location : on left bank at Ban Wang Taku, Tambon Ban Chiang

[illegible]



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.05	2.45	5.20	2.90	10.52	7.84	8.72	2.55	2.30	2.15	2.25	1.55		
2	2.05	2.50	38.80	3.45	7.76	7.60	7.84	2.50	2.30	2.10	2.25	1.55		
3	2.00	2.25	12.08	2.80	19.18	13.76	10.40	2.55	2.30	2.10	2.20	1.55		
4	2.00	2.15	3.80	2.55	7.12	6.48	9.32	2.50	2.30	2.10	2.20	1.45		
5	1.95	2.25	3.35	2.40	3.95	5.84	7.28	2.50	2.25	2.10	2.20	1.40		
6	1.95	3.85	3.35	2.35	3.20	6.40	13.16	2.50	2.25	2.10	2.20	1.35		
7	1.95	2.90	3.20	2.40	2.85	17.92	8.12	2.50	2.25	2.10	2.20	1.30		
8	2.10	2.35	3.45	2.50	2.80	10.04	5.68	2.55	2.25	2.10	2.20	1.25		
9	2.10	2.30	3.10	2.35	3.00	9.32	4.72	2.65	2.25	2.10	2.20	1.20		
10	2.05	2.45	2.50	2.30	3.25	23.08	4.24	2.55	2.25	2.10	2.20	1.20		
11	2.05	2.40	2.65	2.35	3.10	21.64	3.80	2.50	2.25	2.10	2.15	1.40		
12	2.05	2.30	2.55	2.35	2.80	47.20	3.70	2.50	2.20	2.10	2.10	1.65		
13	2.05	2.25	2.40	2.95	2.65	34.76	3.65	2.50	2.20	2.10	2.10	2.05		
14	2.00	2.30	2.35	2.80	2.60	15.12	3.65	2.50	2.20	2.10	2.10	2.05		
15	2.00	2.55	2.30	8.12	2.65	26.28	3.75	2.50	2.20	2.10	2.10	2.00		
16	2.00	2.55	2.30	8.72	2.70	29.36	3.85	2.50	2.20	2.10	2.10	2.00		
17	1.90	2.30	2.30	5.44	3.35	14.70	3.75	2.50	2.20	2.10	2.10	2.00		
18	1.85	2.25	2.30	3.65	4.72	7.92	3.40	2.45	2.20	2.10	2.10	2.00		
19	1.80	2.65	2.35	3.75	34.04	5.60	3.20	2.45	2.20	2.10	2.05	2.00		
20	1.80	5.68	2.65	3.10	38.80	5.76	3.00	2.40	2.20	2.10	2.00	2.00		
21	1.80	2.75	2.45	3.70	25.48	9.44	2.90	2.40	2.20	3.65	2.00	2.00		
22	1.70	2.50	2.35	9.56	13.16	12.68	2.85	2.45	2.20	2.80	1.95	2.00		
23	1.70	2.30	2.30	5.36	5.60	10.88	2.75	2.40	2.15	2.35	1.90	2.00		
24	1.65	2.20	2.30	3.65	3.85	26.12	2.70	2.35	2.15	2.25	1.85	2.00		
25	1.65	2.30	2.30	8.00	3.45	11.96	2.75	2.35	2.15	2.20	1.80	1.65		
26	1.60	3.00	2.30	7.92	3.65	6.72	2.70	2.35	2.15	2.20	1.75	1.50		
27	1.70	2.70	2.45	4.48	4.88	36.20	2.65	2.35	2.15	2.20	1.75	1.45		
28	2.25	4.80	2.60	3.10	10.52	83.00	2.60	2.30	2.15	2.20	1.75	1.45		
29	2.30	3.95	2.65	2.80	16.66	36.74	2.60	2.30	2.15	2.20	1.70	1.30		
30	2.90	6.56	2.55	2.65	11.36	11.96	2.55	2.30	2.15	2.20		1.20		
31		8.00		2.70	5.36		2.55		2.15	2.25		1.15		
Total	58.95	93.74	127.23	123.15	265.01	562.32	144.83	73.70	68.50	68.55	59.45	50.65	1696.08	CMSDAY
Mean	1.97	3.02	4.24	3.97	8.55	18.74	4.67	2.46	2.21	2.21	2.05	1.63	4.63	CMS
Max	2.90	8.00	38.80	9.56	38.80	83.00	13.16	2.65	2.30	3.65	2.25	2.05	83.00	CMS
Min	1.60	2.15	2.30	2.30	2.60	5.60	2.55	2.30	2.15	2.10	1.70	1.15	1.15	CMS
Runoff	5.09	8.10	10.99	10.64	22.90	48.58	12.51	6.37	5.92	5.92	5.14	4.38	146.54	MCM
Momentary Peak	91.58	CMS, at 254.83 m. (MSL), at 06.00 Hours, on Sep 28, 2011												
Runoff Yield	18.46	Liters/Second/Square KM.			Momentary Peak Yield			364.861	Liters/Second/Square KM.					

WATER YEAR : 2011

CHI RIVER BASIN

Lam Pao at Ban Nong Muang , Kalasin (E.75)

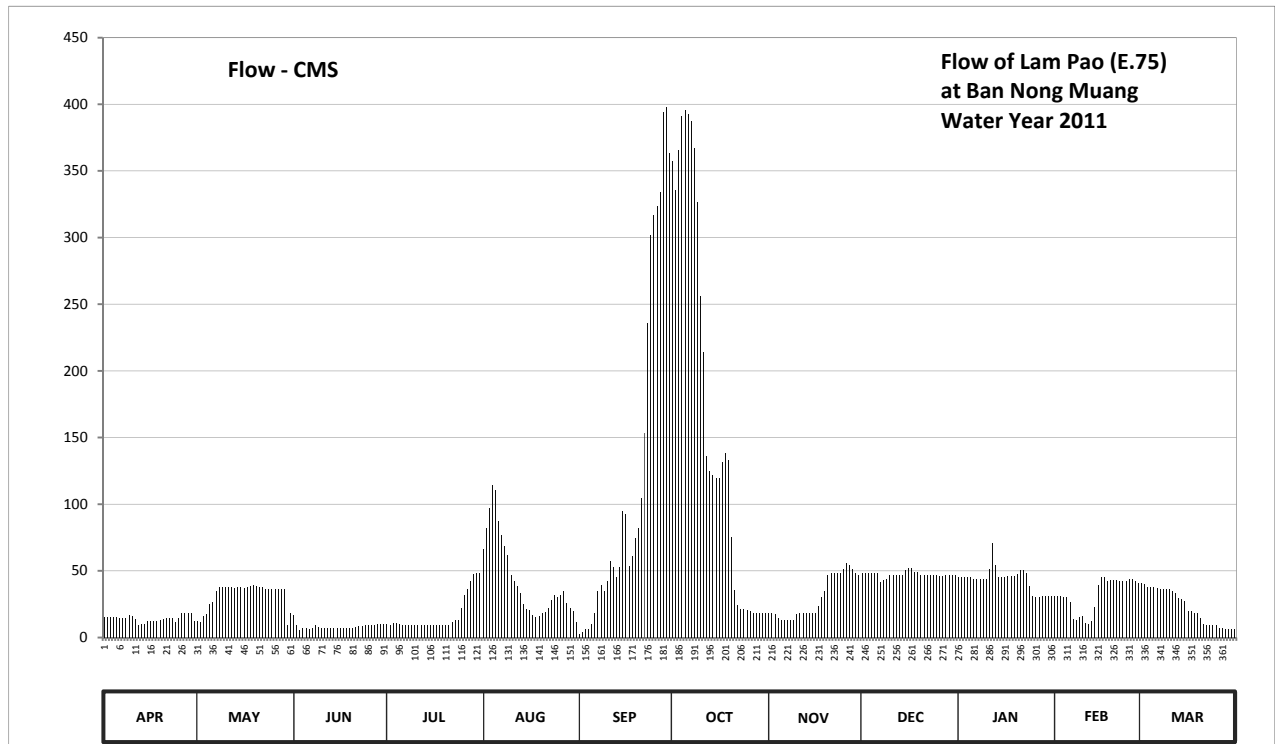
Lat 16 - 34 - 36 N Long 103 - 26 - 35 E

Location : on left bank about 3 kilometers downstream from Lam Pao Damsite.

	Ban	Nong Muang	Amphoe	Mueang	Changwat	Kalasin
Drainage Area	6,013	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+138.018	m. (MSL.)				
Bench Mark	B.M.-	H.D.				
Location BM	On left bank in front of gage observer's house.				Elevation	+149.762 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 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 28 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	138.36	138.22	138.42	138.09	139.87	137.72	143.78	138.47	139.47	139.37	138.91	139.23	
2	138.36	138.18	138.05	138.08	140.19	137.82	143.57	138.47	139.47	139.37	138.91	139.21	
3	138.36	138.40	137.87	138.13	140.48	137.91	143.86	138.44	139.47	139.38	138.90	139.12	
4	138.36	138.45	137.94	138.13	140.78	137.92	144.09	138.31	139.47	139.38	138.89	139.12	
5	138.36	138.70	137.97	138.10	140.72	138.11	144.12	138.27	139.47	139.37	138.89	139.12	
6	138.34	138.76	137.91	138.08	140.29	138.48	144.10	138.27	139.47	139.33	138.76	139.11	
7	138.34	139.04	137.94	138.05	140.09	139.03	144.06	138.27	139.25	139.33	138.28	139.09	
8	138.34	139.14	138.05	138.05	139.93	139.19	143.88	138.27	139.30	139.32	138.26	139.09	
9	138.42	139.12	137.99	138.05	139.78	139.02	143.49	138.27	139.34	139.32	138.35	139.07	
10	138.40	139.14	137.97	138.07	139.44	139.28	142.75	138.44	139.42	139.32	138.39	139.07	
11	138.30	139.14	137.97	138.05	139.27	139.68	142.24	138.47	139.42	139.56	138.13	139.03	
12	138.08	139.13	137.97	138.05	139.16	139.59	141.13	138.47	139.42	139.97	138.12	138.97	
13	138.12	139.11	137.97	138.05	138.98	139.37	140.96	138.49	139.42	139.61	138.20	138.86	
14	138.12	139.12	137.97	138.05	138.70	139.58	140.91	138.47	139.42	139.37	138.64	138.82	
15	138.22	139.12	137.97	138.05	138.59	140.44	140.87	138.47	139.53	139.37	139.17	138.77	
16	138.22	139.11	137.97	138.05	138.56	140.39	140.87	138.47	139.57	139.37	139.38	138.53	
17	138.22	139.12	137.97	138.05	138.42	139.60	141.07	138.66	139.57	139.40	139.38	138.52	
18	138.22	139.16	137.97	138.05	138.37	139.77	141.17	138.87	139.50	139.41	139.29	138.49	
19	138.25	139.17	137.97	138.05	138.41	140.05	141.09	139.02	139.50	139.41	139.30	138.49	
20	138.29	139.16	137.97	138.05	138.47	140.19	140.07	139.42	139.44	139.46	139.30	138.33	
21	138.31	139.12	138.00	138.06	138.50	140.61	139.05	139.47	139.42	139.54	139.30	138.09	
22	138.32	139.12	138.02	138.19	138.60	141.40	138.69	139.47	139.42	139.53	139.29	138.07	
23	138.32	139.09	138.01	138.26	138.80	142.52	138.59	139.47	139.42	139.47	139.27	138.06	
24	138.18	139.07	138.05	138.25	138.93	143.24	138.57	139.49	139.42	139.16	139.29	138.06	
25	138.32	139.09	138.06	138.61	138.87	143.39	138.54	139.56	139.42	138.91	139.32	138.06	
26	138.47	139.09	138.06	138.94	138.94	143.46	138.52	139.65	139.41	138.88	139.32	137.97	
27	138.48	139.09	138.08	139.09	139.02	143.56	138.48	139.62	139.41	138.89	139.28	137.97	
28	138.48	139.08	138.12	139									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.20	12.40	16.60	9.80	66.02	2.40	357.12	18.10	48.10	45.10	31.30	40.90	
2	15.20	11.60	9.00	9.60	81.88	4.40	335.28	18.10	48.10	45.10	31.30	40.30	
3	15.20	16.00	5.40	10.60	96.96	6.20	365.44	17.20	48.10	45.40	31.00	37.60	
4	15.20	17.50	6.80	10.60	114.24	6.40	391.52	14.20	48.10	45.40	30.70	37.60	
5	15.20	25.00	7.40	10.00	110.76	10.20	395.36	13.40	48.10	45.10	30.70	37.60	
6	14.80	26.80	6.20	9.60	87.08	18.40	392.80	13.40	48.10	43.90	26.80	37.30	
7	14.80	35.20	6.80	9.00	76.68	34.90	387.68	13.40	41.50	43.90	13.60	36.70	
8	14.80	38.20	9.00	9.00	68.78	39.70	367.52	13.40	43.00	43.60	13.20	36.70	
9	16.60	37.60	7.80	9.00	61.88	34.60	327.00	13.40	44.20	43.60	15.00	36.10	
10	16.00	38.20	7.40	9.40	47.20	42.40	256.00	17.20	46.60	43.60	15.80	36.10	
11	14.00	38.20	7.40	9.00	42.10	57.28	214.24	18.10	46.60	51.76	10.60	34.90	
12	9.60	37.90	7.40	9.00	38.80	53.14	135.58	18.10	46.60	70.62	10.40	33.10	
13	10.40	37.30	7.40	9.00	33.40	45.10	124.68	18.70	46.60	54.06	12.00	29.80	
14	10.40	37.60	7.40	9.00	25.00	52.68	121.78	18.10	46.60	45.10	23.20	28.60	
15	12.40	37.60	7.40	9.00	21.70	94.88	119.46	18.10	50.38	45.10	39.10	27.10	
16	12.40	37.30	7.40	9.00	20.80	92.28	119.46	18.10	52.22	45.10	45.40	19.90	
17	12.40	37.60	7.40	9.00	16.60	53.60	131.62	23.80	52.22	46.00	45.40	19.60	
18	12.40	38.80	7.40	9.00	15.40	61.42	138.22	30.10	49.00	46.30	42.70	18.70	
19	13.00	39.10	7.40	9.00	16.30	74.60	132.94	34.60	49.00	46.30	43.00	18.70	
20	13.80	38.80	7.40	9.00	18.10	81.88	75.64	46.60	47.20	47.80	43.00	14.60	
21	14.20	37.60	8.00	9.20	19.00	104.38	35.50	48.10	46.60	50.84	43.00	9.80	
22	14.40	37.60	8.40	11.80	22.00	153.40	24.70	48.10	46.60	50.38	42.70	9.40	
23	14.40	36.70	8.20	13.20	28.00	235.76	21.70	48.10	46.60	48.10	42.10	9.20	
24	11.60	36.10	9.00	13.00	31.90	302.00	21.10	48.70	46.60	38.80	42.70	9.20	
25	14.40	36.70	9.20	22.30	30.10	317.00	20.20	51.76	46.60	31.30	43.60	9.20	
26	18.10	36.70	9.20	32.20	32.20	324.00	19.60	55.90	46.30	30.40	43.60	7.40	
27	18.40	36.70	9.60	36.70	34.60	334.24	18.40	54.52	46.30	30.70	42.40	7.40	
28	18.40	36.40	10.40	42.40	26.20	394.08	18.10	51.30	46.60	31.30	40.60	6.40	
29	18.40	36.10	10.20	47.80	22.00	397.92	18.10	48.70	46.60	31.30	40.60	6.40	
30	12.40	9.40	10.40	48.10	19.90	363.36	18.10	46.90	46.60	31.30		6.40	

WATER YEAR : 2011

CHI RIVER BASIN

Huai Sang Ka at Ban Phon , Kalasin (E.76A)

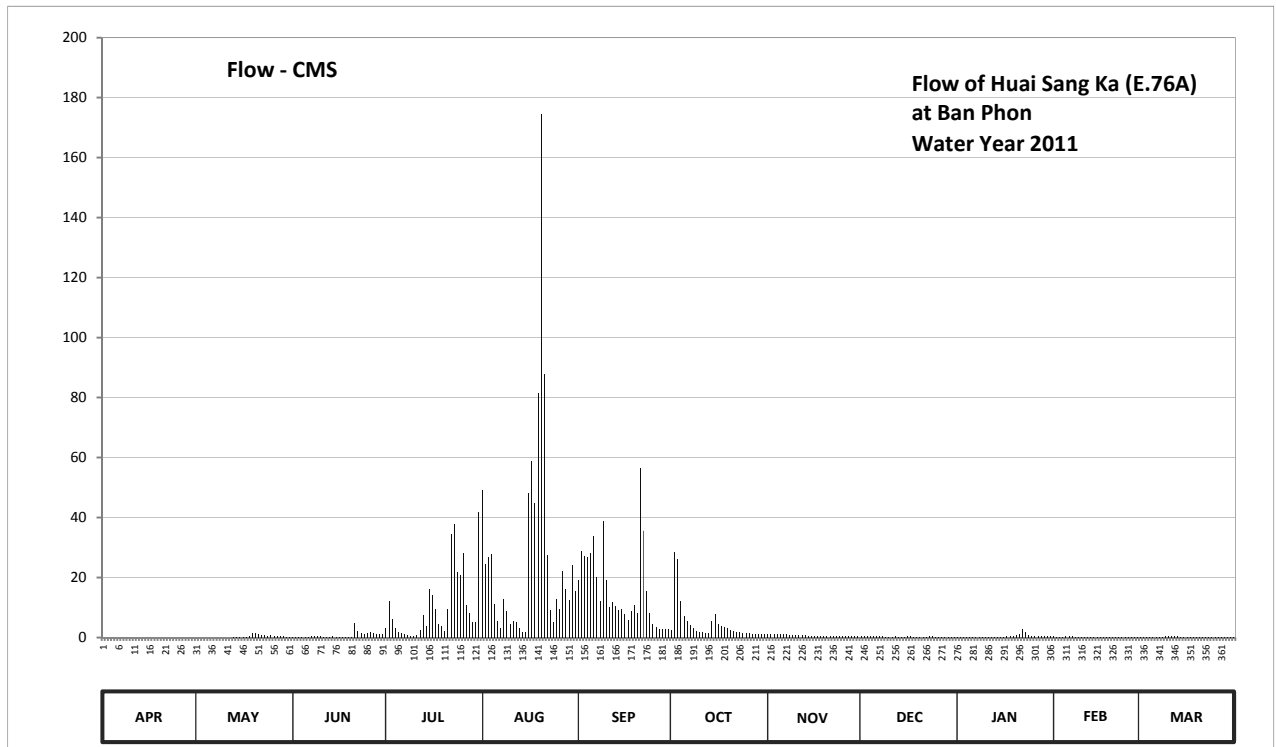
Lat 16 - 51 - 33 N Long 103 - 35 - 53 E

Location : on left bank at the bridge of Ban Phon - Ban Nong Chang Road.

	Ban	Phon	Amphoe	Kham Muang	Changwat	Kalasin
Drainage Area	195	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+163.900	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On left bank about 2.50 meters from the top staff gage.				Elevation	+173.809 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +169.480 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	164.09	164.02	164.32	165.16	168.66	166.81	165.05	164.66	164.36	164.33	164.35	164.34	
2	164.09	164.02	164.31	166.21	167.17	167.48	167.47	164.65	164.36	164.33	164.34	164.34	
3	164.09	164.00	164.32	165.54	167.35	167.37	167.31	164.65	164.36	164.33	164.34	164.34	
4	164.09	164.00	164.32	165.16	167.42	167.36	166.22	164.63	164.35	164.32	164.34	164.34	
5	164.09	164.02	164.33	164.89	166.12	167.43	165.66	164.61	164.35	164.31	164.35	164.34	
6	164.09	164.10	164.34	164.73	165.41	167.81	165.44	164.61	164.36	164.32	164.35	164.34	
7	164.08	164.11	164.37	164.59	165.16	166.87	165.28	164.60	164.37	164.32	164.35	164.34	
8	164.08	164.11	164.39	164.48	166.27	166.22	165.14	164.56	164.37	164.31	164.34	164.34	
9	164.08	164.12	164.36	164.45	165.84	168.11	165.02	164.53	164.33	164.32	164.34	164.35	
10	164.07	164.13	164.35	164.45	165.31	166.81	164.95	164.50	164.30	164.32	164.33	164.35	
11	164.07	164.14	164.34	164.57	165.45	166.02	164.91	164.50	164.32	164.31	164.33	164.35	
12	164.07	164.17	164.33	165.08	165.38	166.18	164.83	164.48	164.36	164.30	164.32	164.35	
13	164.06	164.22	164.33	165.69	165.16	166.06	164.83	164.46	164.34	164.29	164.31	164.35	
14	164.05	164.23	164.37	165.22	164.97	165.88	165.45	164.44	164.32	164.28	164.32	164.34	
15	164.05	164.25	164.34	166.57	164.95	165.94	165.71	164.43	164.33	164.30	164.32	164.34	
16	164.04	164.31	164.33	166.42	168.61	165.74	165.33	164.42	164.37	164.33	164.33	164.33	
17	164.04	164.31	164.34	165.94	169.13	165.47	165.24	164.40	164.35	164.36	164.33	164.34	
18	164.03	164.37	164.33	165.32	168.44	165.84	165.18	164.42	164.33	164.35	164.34	164.34	
19	164.03	164.84	164.32	165.21	170.12	166.09	165.16	164.41	164.32	164.41	164.34	164.34	
20	164.02	164.72	164.33	165.04	170.92	165.76	165.06	164.40	164.32	164.47	164.34	164.33	
21	164.01	164.61	165.35	165.94	170.31	169.02	165.00	164.41	164.34	164.59	164.33	164.32	
22	164.01	164.55	165.04	167.84	167.40	167.91	164.96	164.40	164.34	165.12	164.34	164.31	
23	164.03	164.46	164.75	168.05	165.87	166.54	164.92	164.39	164.35	164.87	164.33	164.30	
24	164.02	164.43	164.64	166.99	165.39	165.75	164.85	164.39	164.36	164.57	164.33	164.29	
25	164.02	164.47	164.71	166.92	166.29	165.30	164.77	164.38	164.32	164.44	164.33	164.29	
26	164.01	164.45	164.89	167.45	165.92	165.19	164.71	164.37	164.33	164.40	164.34	164.28	
27	164.01	164.39	164.77	166.10	167.00	165.09	164.70	164.37	164.33	164.38	164.34	164.27	
28	164.00	164.37	164.68	165.75	166.57	165.13	164.68	164.36	164.32	164.37	164.33	164.26	
29	164.01	164.35	164.65	165.40	166.24	165.12	164.67	164.37	164.34	164.36	164.33	164.25	
30	164.02	164.33	164.64	165.38	167.14	165.12	164.66	164.37	164.34	164.36		164.24	
31		164.32		168.27	166.54		164.65		164.33	164.35		164.23	
Mean	164.05	164.29	164.50	165.77	166.86	166.38	165.22	164.47	164.34	164.40	164.33	164.32	
Max	164.09	164.84	165.35	168.27	170.92	169.02	167.47	164.66	164.37	165.12	164.35	164.35	170.92
Min	164.00	164.00	164.31	164.45	164.95	165.09	164.65	164.36	164.30	164.28	164.31	164.23	164.00
Annual Max Momentary Gage Height			171.02	m. (MSL.) ,		at 10.00 Hours, on Aug 20, 2011							
Zero Gage at Bottom Elevation			163.90	m. (MSL.) ,		River Bed	163.80	m. (MSL)					
Left Bank Elevation			171.40	m. (MSL.) ,									
Right Bank Elevation			169.47	m. (MSL.) ,		Drainage Area	195	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.30	3.30	49.20	19.30	2.40	1.20	0.40	0.30	0.40	0.30		
2	0.00	0.00	0.30	12.10	24.40	28.70	28.60	1.10	0.40	0.30	0.30	0.30		
3	0.00	0.00	0.30	6.30	26.90	27.20	26.30	1.10	0.40	0.30	0.30	0.30		
4	0.00	0.00	0.30	3.30	27.90	27.00	12.20	1.10	0.40	0.30	0.30	0.30		
5	0.00	0.00	0.30	1.70	11.20	28.00	7.30	1.00	0.40	0.30	0.40	0.30		
6	0.00	0.00	0.30	1.30	5.30	34.00	5.50	1.00	0.40	0.30	0.40	0.30		
7	0.00	0.00	0.40	1.00	3.30	20.20	4.20	1.00	0.40	0.30	0.40	0.30		
8	0.00	0.00	0.50	0.70	12.70	12.20	3.10	0.90	0.40	0.30	0.30	0.30		
9	0.00	0.00	0.40	0.60	8.70	39.00	2.20	0.80	0.30	0.30	0.30	0.40		
10	0.00	0.00	0.40	0.60	4.50	19.30	1.90	0.80	0.30	0.30	0.30	0.40		
11	0.00	0.00	0.30	0.90	5.60	10.20	1.80	0.80	0.30	0.30	0.30	0.40		
12	0.00	0.00	0.30	2.60	5.00	11.80	1.60	0.70	0.40	0.30	0.30	0.40		
13	0.00	0.10	0.30	7.50	3.30	10.60	1.60	0.70	0.30	0.20	0.30	0.40		
14	0.00	0.10	0.40	3.80	1.90	9.00	5.60	0.60	0.30	0.20	0.30	0.30		
15	0.00	0.10	0.30	16.00	1.90	9.50	7.70	0.60	0.30	0.30	0.30	0.30		
16	0.00	0.30	0.30	14.20	48.20	7.90	4.60	0.60	0.40	0.30	0.30	0.30		
17	0.00	0.30	0.30	9.50	58.70	5.80	3.90	0.50	0.40	0.40	0.30	0.30		
18	0.00	0.40	0.30	4.60	44.90	8.70	3.40	0.60	0.30	0.40	0.30	0.30		
19	0.00	1.60	0.30	3.70	81.50	10.90	3.30	0.50	0.30	0.50	0.30	0.30		
20	0.00	1.30	0.30	2.30	174.60	8.10	2.50	0.50	0.30	0.70	0.30	0.30		
21	0.00	1.00	4.80	9.50	87.70	56.40	2.00	0.50	0.30	1.00	0.30	0.30		
22	0.00	0.90	2.30	34.40	27.60	35.60	1.90	0.50	0.30	3.00	0.30	0.30		
23	0.00	0.70	1.40	37.90	9.00	15.60	1.80	0.50	0.40	1.70	0.30	0.30		
24	0.00	0.60	1.10	21.90	5.10	8.00	1.60	0.50	0.40	0.90	0.30	0.20		
25	0.00	0.70	1.30	20.90	12.90	4.40	1.40	0.50	0.30	0.60	0.30	0.20		
26	0.00	0.60	1.70	28.30	9.40	3.50	1.30	0.40	0.30	0.50	0.30	0.20		
27	0.00	0.50	1.40	11.00	22.00	2.70	1.20	0.40	0.30	0.50	0.30	0.20		
28	0.00	0.40	1.20	8.00	16.00	3.00	1.20	0.40	0.30	0.40	0.30	0.10		
29	0.00	0.40	1.10	5.20	12.40	3.00	1.20	0.40	0.30	0.40	0.30	0.10		
30	0.00	0.30	1.10	5.00	24.00	3.00	1.20	0.40	0.30	0.40		0.10		
31		0.30		41.90	15.60		1.10		0.30	0.40		0.10		
Total	0.00	10.60	24.00	320.00	841.40	482.60	145.60	20.60	10.60	16.40	9.10	8.60	1889.50	CMSDAY
Mean	0.00	0.30	0.80	10.30	27.10	16.10	4.70	0.70	0.30	0.50	0.30	0.30	5.20	CMS
Max	0.00	1.60	4.80	41.90	174.60	56.40	28.60	1.20	0.40	3.00	0.40	0.40	174.60	CMS
Min	0.00	0.00	0.30	0.60	1.90	2.70	1.10	0.40	0.30	0.20	0.30	0.10	0.00	CMS
Runoff	0.00	0.92	2.07	27.65	72.70	41.70	12.58	1.78	0.92	1.42	0.79	0.74	163.25	MCM
Momentary Peak	197.40 CMS, at 171.02 m. (MSL), at 10.00 Hours, on Aug 20, 2011													
Runoff Yield	26.47	Liters/Second/Square KM.			Momentary Peak Yield		1012.308	Liters/Second/Square KM.						

WATER YEAR : 2011

CHI RIVER BASIN

Lam Saphung at Ban Na Charoen , Chaiyaphum (E.83)

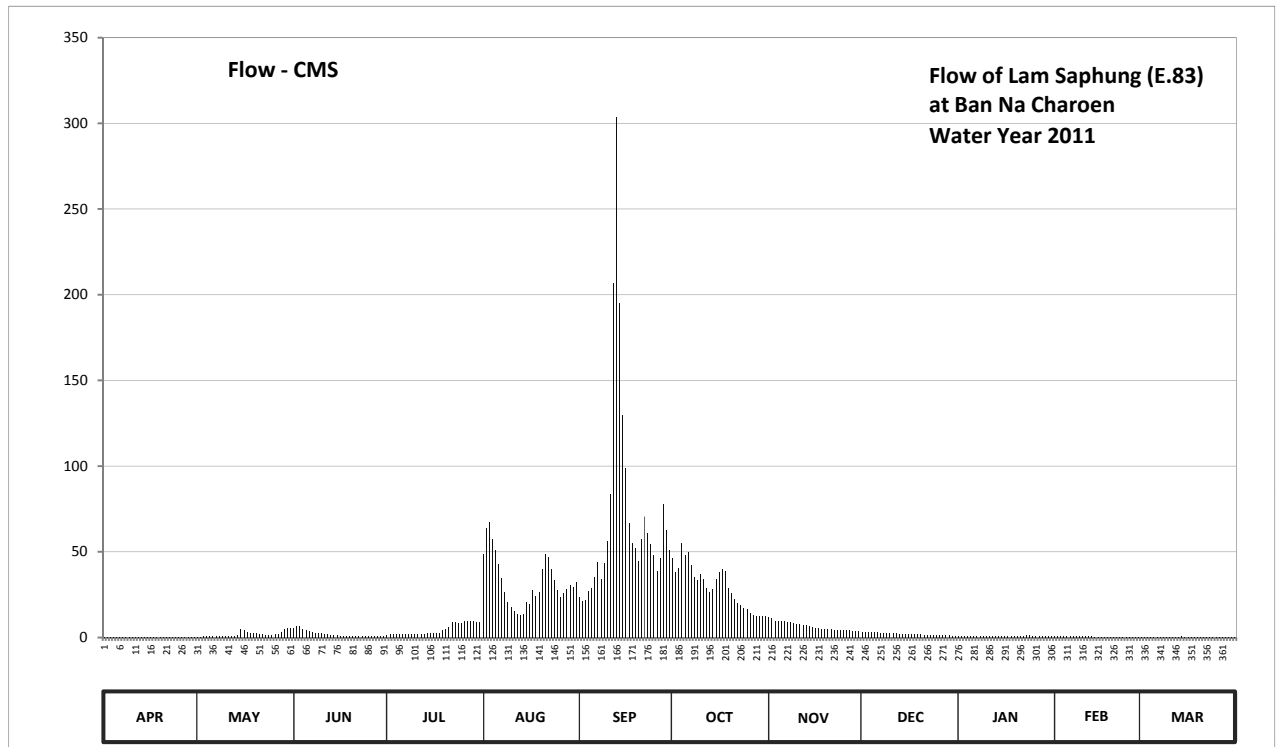
Lat 16 - 09 - 21 N Long 101 - 39 - 13 E

Location : on left bank at Ban Na Charoen.

	Ban	Na Charoen	Amphoe	Nong Bua Daeng	Changwat	Chaiyaphum
Drainage Area	744	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+222.750	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On left bank downstream at the footpath of the bridge.				Elevation	+236.237 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +231.790 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 28 discharge measurements made in 2011.					

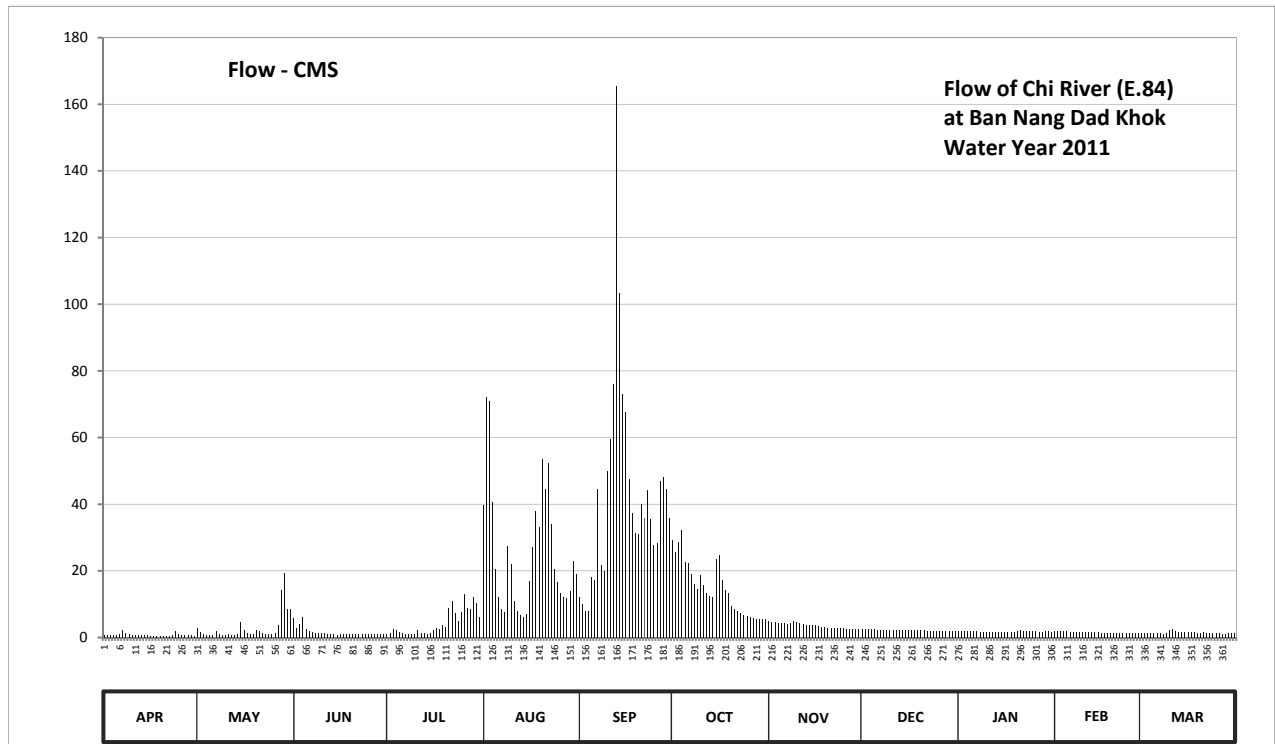
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	223.16	223.22	224.62	223.54	229.54	227.32	229.36	225.79	224.10	223.51	223.36	223.13	
2	223.16	223.27	224.87	223.69	230.67	227.08	228.65	225.76	224.07	223.50	223.35	223.12	
3	223.17	223.38	224.86	223.78	230.91	227.12	228.86	225.44	224.04	223.49	223.34	223.11	
4	223.18	223.48	224.55	223.77	230.24	227.67	230.05	225.40	224.03	223.49	223.33	223.10	
5	223.20	223.44	224.38	223.76	229.75	227.80	229.50	225.39	224.01	223.48	223.36	223.09	
6	223.22	223.39	224.21	223.75	229.07	228.40	229.65	225.36	223.98	223.48	223.37	223.08	
7	223.24	223.37	224.04	223.74	228.34	229.18	229.03	225.32	223.96	223.47	223.39	223.07	
8	223.25	223.35	223.92	223.74	227.58	228.27	228.36	225.30	223.94	223.46	223.41	223.08	
9	223.28	223.33	223.88	223.73	226.99	229.14	228.23	225.19	223.92	223.44	223.40	223.24	
10	223.29	223.32	223.83	223.73	226.67	230.14	228.56	225.10	223.89	223.43	223.38	223.23	
11	223.28	223.38	223.78	223.72	226.36	231.56	228.26	225.05	223.86	223.41	223.37	223.22	
12	223.28	223.42	223.73	223.75	226.12	233.43	227.79	225.00	223.83	223.40	223.35	223.20	
13	223.27	223.43	223.67	223.81	226.03	234.34	227.61	224.89	223.81	223.40	223.32	223.20	
14	223.27	223.59	223.63	223.87	226.07	233.29	227.76	224.80	223.79	223.40	223.29	223.31	
15	223.26	224.50	223.58	223.90	227.02	232.44	228.29	224.74	223.77	223.40	223.27	223.28	
16	223.26	224.27	223.53	223.90	226.92	231.91	228.68	224.66	223.75	223.40	223.26	223.26	
17	223.25	224.08	223.50	223.91	227.69	230.86	228.84	224.63	223.73	223.40	223.25	223.25	
18	223.24	223.94	223.49	223.94	227.39	230.05	228.70	224.52	223.71	223.39	223.25	223.24	
19	223.22	223.91	223.48	224.35	227.60	229.84	227.82	224.49	223.69	223.37	223.23	223.24	
20	223.21	223.87	223.48	224.52	228.83	229.23	227.52	224.42	223.68	223.36	223.23	223.23	
21	223.19	223.80	223.47	224.73	229.54	230.22	227.20	224.40	223.67	223.45	223.22	223.22	
22	223.19	223.70	223.46	225.33	229.39	231.08	226.96	224.38	223.64	223.52	223.20	223.20	
23	223.20	223.65	223.45	225.26	228.82	230.51	226.81	224.35	223.62	223.59	223.19	223.16	
24	223.22	223.62	223.43	225.16	228.24	230.01	226.61	224.34	223.61	223.55	223.18	223.13	
25	223.18	223.60	223.42	225.18	227.69	229.52	226.54	224.32	223.60	223.52	223.18	223.11	
26	223.18	223.69	223.41	225.37	227.33	228.71	226.25	224.30	223.58	223.48	223.18	223.10	
27	223.17	223.81	223.41	225.41	227.55	229.35	226.05	224.27	223.56	223.44	223.18	223.09	
28	223.17	224.09	223.40	225.42	227.77	231.38	225.92	224.21	223.55	223.42	223.17	223.06	
29	223.16	224.48	223.40	225.37	227.96	230.61	225.90	224.18	223.54	223.39	223.17	223.06	
30	223.16	224.62	223.39	225.34	227.85	229.75	225.90	224.17	223.53	223.37		223.06	
31		224.58		225.30	228.13		225.89		223.52	223.36		223.05	
Mean	223.22	223.73	223.78	224.35	228.07	230.01	227.79	224.81	223.77	223.44	223.28	223.16	
Max	223.29	224.62	224.87	225.42	230.91	234.34	230.05	225.79	224.10	223.59	223.41	223.31	234.34
Min	223.16	223.22	223.39	223.54	226.03	227.08	225.89	224.17	223.52	223.36	223.17	223.05	223.05
Annual Max Momentary Gage Height	234.70		m. (MSL.) , at 17.00 Hours, on Sep 13, 2011										
Zero Gage at Bottom Elevation	222.75		m. (MSL.) , River Bed 222.71 m. (MSL)										
Left Bank Elevation	233.73		m. (MSL.) ,										
Right Bank Elevation	231.78		m. (MSL.) , Drainage Area 744 Square Kilometers										



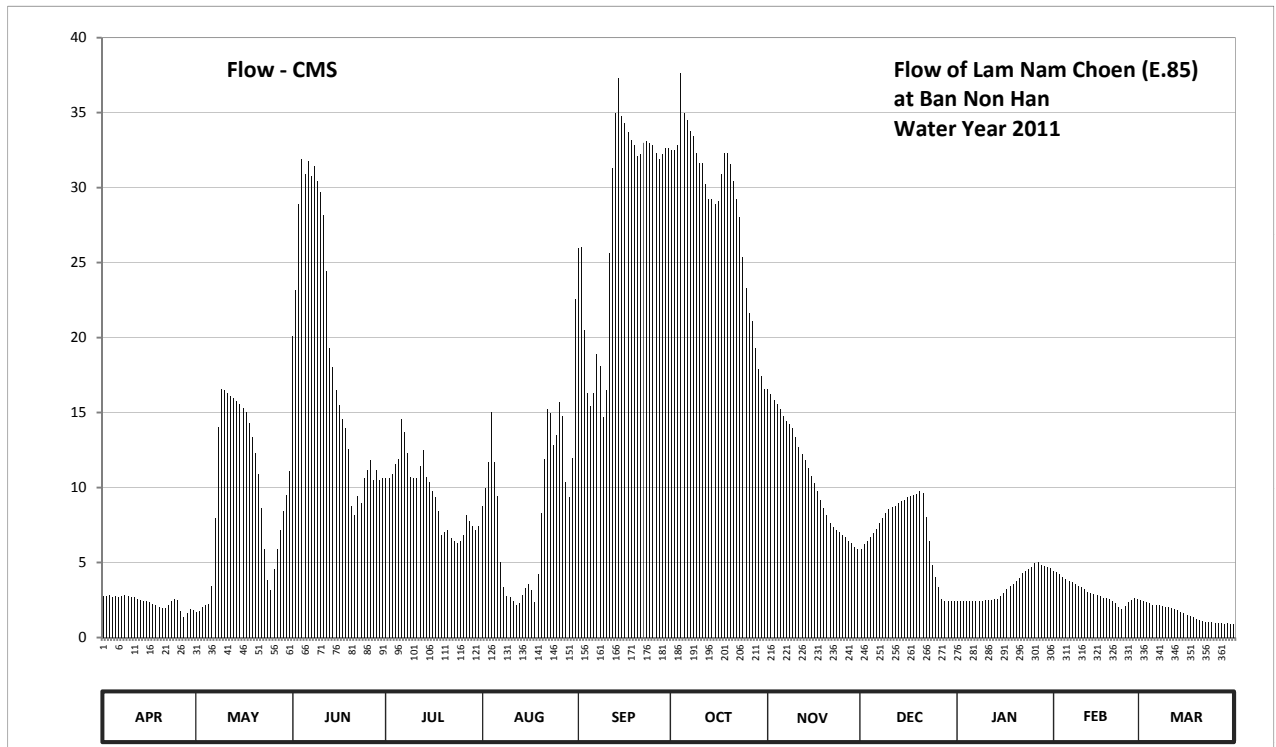
Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.44	5.60	1.16	48.52	23.70	46.32	11.74	3.40	1.04	0.72	0.26	
2	0.32	0.54	6.85	1.76	63.72	21.30	38.15	11.56	3.28	1.00	0.70	0.24	
3	0.34	0.76	6.80	2.12	67.56	21.70	40.46	9.70	3.16	0.98	0.68	0.22	
4	0.36	0.96	5.25	2.08	57.62	27.37	55.15	9.50	3.12	0.98	0.66	0.20	
5	0.40	0.88	4.52	2.04	51.25	28.80	48.00	9.45	3.04	0.96	0.72	0.18	
6	0.44	0.78	3.84	2.00	42.84	35.40	49.95	9.30	2.92	0.96	0.74	0.16	
7	0.48	0.74	3.16	1.96	34.74	44.16	42.36	9.10	2.84	0.94	0.78	0.14	
8	0.50	0.70	2.68	1.96	26.38	33.97	34.96	9.00	2.76	0.92	0.82	0.16	
9	0.56	0.66	2.52	1.92	20.41	43.68	33.53	8.45	2.68	0.88	0.80	0.48	
10	0.58	0.64	2.32	1.92	17.53	56.32	37.16	8.00	2.56	0.86	0.76	0.46	
11	0.56	0.76	2.12	1.88	15.16	83.60	33.86	7.75	2.44	0.82	0.74	0.44	
12	0.56	0.84	1.92	2.00	13.72	206.98	28.69	7.50	2.32	0.80	0.70	0.40	
13	0.54	0.86	1.68	2.24	13.18	303.44	26.71	6.95	2.24	0.80	0.64	0.40	
14	0.54	1.36	1.52	2.48	13.42	194.94	28.36	6.50	2.16	0.80	0.58	0.62	
15	0.52	5.00	1.32	2.60	20.70	129.46	34.19	6.20	2.08	0.80	0.54	0.56	
16	0.52	4.08	1.12	2.60	19.78	98.55	38.48	5.80	2.00	0.80	0.52	0.52	
17	0.50	3.32	1.00	2.64	27.59	66.76	40.24	5.65	1.92	0.80	0.50	0.50	
18	0.48	2.76	0.98	2.76	24.40	55.15	38.70	5.10	1.84	0.78	0.50	0.48	
19	0.44	2.64	0.96	4.40	26.60	52.42	29.02	4.96	1.76	0.74	0.46	0.48	
20	0.42	2.48	0.96	5.10	40.13	44.76	25.72	4.68	1.72	0.72	0.46	0.46	
21	0.38	2.20	0.94	6.15	48.52	57.36	22.50	4.60	1.68	0.90	0.44	0.44	
22	0.38	1.80	0.92	9.15	46.68	70.60	20.14	4.52	1.56	1.08	0.40	0.40	
23	0.40	1.60	0.90	8.80	40.02	61.16	18.79	4.40	1.48	1.36	0.38	0.32	
24	0.44	1.48	0.86	8.30	33.64	54.63	16.99	4.36	1.44	1.20	0.36	0.26	
25	0.36	1.40	0.84	8.40	27.59	48.26	16.36	4.28	1.40	1.08	0.36	0.22	
26	0.36	1.76	0.82	9.35	23.80	38.81	14.50	4.20	1.32	0.96	0.36	0.20	
27	0.34	2.24	0.82	9.55	26.05	46.20	13.30	4.08	1.24	0.88	0.36	0.18	
28	0.34	3.36	0.80	9.60	28.47	78.00	12.52	3.84	1.20	0.84	0.34	0.12	
29	0.32	4.92	0.80	9.35	30.56	62.76	12.40	3.72	1.16	0.78	0.34	0.12	
30	0.32	5.60	0.78	9.20	29.35	51.25	12.40	3.68	1.12	0.74		0.12	
31		5.40		9.00	32.43		12.34		1.08	0.72		0.10	
Total	13.02	62.96	65.60	144.47	1012.36	2141.49	922.25	198.57	64.92	27.92	16.36	9.84	



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.76	2.76	5.96	1.12	39.60	12.08	29.28	4.84	2.48	1.92	1.96	1.32		
2	0.72	1.64	2.98	1.32	72.00	10.10	25.60	4.68	2.48	1.92	1.92	1.32		
3	0.72	0.96	4.12	2.52	71.00	8.00	28.64	4.48	2.44	1.88	1.88	1.28		
4	0.72	0.76	6.28	2.20	40.60	8.00	32.16	4.36	2.44	1.88	1.84	1.24		
5	0.68	0.72	2.68	1.64	20.48	18.05	22.56	4.30	2.40	1.84	1.80	1.24		
6	0.92	0.84	1.84	1.32	12.08	17.15	22.24	4.24	2.36	1.80	1.76	1.20		
7	2.08	1.80	1.56	1.12	8.60	44.50	18.95	4.18	2.36	1.80	1.72	1.20		
8	1.28	1.08	1.48	1.04	7.70	21.60	15.92	4.24	2.32	1.76	1.68	1.16		
9	0.92	0.80	1.40	0.96	27.52	20.00	14.60	5.00	2.28	1.76	1.64	1.24		
10	0.80	0.80	1.36	1.12	21.92	50.00	18.80	4.68	2.28	1.72	1.60	2.28		
11	0.76	0.88	1.20	2.20	10.80	59.60	15.80	4.24	2.24	1.68	1.60	2.48		
12	0.72	0.76	1.12	1.44	8.00	76.00	13.28	3.94	2.24	1.68	1.60	2.04		
13	0.68	0.72	1.00	1.24	6.60	165.60	12.56	3.76	2.20	1.64	1.56	1.68		
14	0.64	1.00	0.92	1.16	6.04	103.20	12.20	3.76	2.20	1.64	1.52	1.68		
15	0.64	4.54	0.84	1.36	6.92	73.00	23.68	3.64	2.20	1.64	1.52	1.64		
16	0.56	2.08	0.92	2.12	17.00	67.60	24.80	3.58	2.16	1.60	1.48	1.60		
17	0.52	1.44	0.88	2.92	27.04	47.60	17.30	3.34	2.12	1.60	1.48	1.56		
18	0.52	1.16	1.04	2.68	38.00	37.20	14.12	3.10	2.12	1.60	1.44	1.52		
19	0.52	1.16	1.04	3.82	33.28	31.36	13.28	3.04	2.08	1.64	1.40	1.48		
20	0.52	2.16	1.08	3.10	53.60	31.04	9.40	2.98	2.08	1.84	1.36	1.40		
21	0.48	1.96	1.04	8.90	44.50	40.00	8.60	2.92	2.08	2.08	1.36	1.76		
22	0.44	1.32	1.04	11.00	52.40	35.84	7.90	2.86	2.04	2.00	1.36	1.32		
23	0.68	1.04	1.00	7.20	34.08	44.20	7.30	2.80	2.00	1.96	1.36	1.28		
24	1.96	0.96	0.96	5.00	20.48	35.52	6.84	2.76	2.00	1.88	1.36	1.24		
25	0.88	0.96	0.92	7.70	16.64	27.68	6.44	2.72	2.00	1.80	1.36	1.20		
26	0.76	1.32	0.96	13.04	13.28	28.48	6.04	2.68	2.00	1.84	1.36	1.20		
27	0.72	3.64	1.04	8.80	12.08	46.80	5.72	2.64	2.00	1.76	1.36	1.16		
28	0.68	14.24	1.04	8.40	11.84	48.00	5.56	2.60	2.00	1.76	1.36	1.16		
29	0.64	19.40	0.96	12.20	14.00	44.50	5.56	2.56	1.96	1.96	1.36	1.20		
30	0.56	8.40	1.12	10.40	22.88	35.84	5.48	2.52	1.96	1.92		1.20		
31		8.40		6.04	19.10		5.40		1.96	1.60		1.20		
Total	23.48	89.70	49.78	135.08	790.06	1288.54	456.01	107.44	67.48	55.40	45.00	44.48	3152.45	CMSDAY
Mean	0.78	2.89	1.66	4.36	25.49	42.95	14.71	3.58	2.18	1.79	1.55	1.43	8.61	CMS
Max	2.08	19.40	6.28	13.04	72.00	165.60	32.16	5.00	2.48	2.08	1.96	2.48	165.60	CMS
Min	0.44	0.72	0.84	0.96	6.04	8.00	5.40	2.52	1.96	1.60	1.36	1.16	0.44	CMS
Runoff	2.03	7.75	4.30	11.67	68.26	111.33	39.40	9.28	5.83	4.79	3.89	3.84	272.37	MCM
Momentary Peak	217.00	CMS, at 244.25 m. (MSL), at 09.00 Hours, on Sep 13, 2011												
Runoff Yield	16.96	Liters/Second/Square KM.				Momentary Peak Yield	427.165	Liters/Second/Square KM.						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.78	1.70	20.10	10.62	8.78	25.94	32.54	16.57	5.90	2.40	4.46	2.50	
2	2.78	1.75	23.19	10.62	9.98	26.05	32.54	16.21	6.22	2.40	4.38	2.40	
3	2.85	2.00	28.91	10.86	11.66	20.50	32.87	15.85	6.46	2.40	4.22	2.35	
4	2.71	2.15	31.88	11.58	15.04	16.30	37.64	15.58	6.70	2.40	4.06	2.30	
5	2.78	2.25	30.89	11.90	11.66	15.40	35.00	15.22	6.94	2.45	3.90	2.20	
6	2.71	3.41	31.77	14.59	9.42	16.30	34.52	14.77	7.26	2.45	3.76	2.20	
7	2.78	7.98	30.78	13.69	5.02	18.90	33.80	14.41	7.66	2.45	3.69	2.15	
8	2.85	14.05	31.44	12.30	3.34	18.10	33.44	14.23	7.98	2.45	3.55	2.10	
9	2.78	16.57	30.45	10.70	2.78	14.68	32.32	13.96	8.30	2.45	3.41	2.05	
10	2.71	16.48	29.68	10.62	2.71	16.48	31.66	13.33	8.54	2.50	3.34	2.00	
11	2.71	16.30	28.14	10.62	2.40	25.61	31.66	12.70	8.70	2.50	3.20	1.95	
12	2.57	16.12	24.40	11.42	2.20	31.33	30.23	12.22	8.78	2.50	3.06	1.90	
13	2.50	15.94	19.30	12.46	2.30	35.00	29.24	11.82	8.94	2.57	2.99	1.80	
14	2.45	15.76	18.00	10.70	2.85	37.28	29.24	11.26	9.10	2.57	2.92	1.70	
15	2.40	15.58	16.48	10.38	3.27	34.76	28.91	10.78	9.18	2.78	2.85	1.60	
16	2.35	15.31	15.49	9.74	3.55	34.28	29.13	10.30	9.34	2.99	2.78	1.50	
17	2.25	15.04	14.59	9.34	3.13	33.68	30.89	9.74	9.42	3.20	2.64	1.42	
18	2.20	14.32	13.96	8.46	2.35	33.20	32.32	9.18	9.50	3.41	2.64	1.34	
19	2.05	13.33	12.54	6.86	4.22	32.87	32.32	8.62	9.58	3.55	2.57	1.26	
20	1.95	12.30	8.78	7.02	8.30	32.10	31.55	8.14	9.74	3.76	2.45	1.18	
21	1.95	10.86	8.14	7.18	11.90	32.21	30.45	7.66	9.66	3.98	2.30	1.10	
22	2.20	8.62	9.42	6.62	15.22	32.98	29.24	7.34	8.06	4.30	2.05	1.04	
23	2.40	5.90	8.94	6.46	14.95	33.09	28.03	7.18	6.46	4.46	1.90	1.01	
24	2.57	3.83	10.62	6.30	12.79	32.98	25.39	7.02	4.86	4.54	2.10	1.01	
25	2.50	3.13	11.18	6.46	13.51	32.87	23.30	6.86	4.06	4.70	2.35	0.98	
26	1.75	4.54	11.82	6.86	15.67	32.32	21.60	6.70	3.34	4.94	2.50	0.98	
27	1.38	5.90	10.46	8.14	14.77	31.88	21.10	6.46	2.57	5.02	2.64	0.98	
28	1.65	7.18	11.18	7.74	10.38	32.21	19.30	6.30	2.45	4.86	2.57	0.92	
29	1.90	8.46	10.46	7.42	9.34	32.65	17.90	6.06	2.45	4.78	3.13	0.95	
30	1.80	9.50	10.62	7.18	11.98	32.65	17.40	5.90	2.40	4.70		0.89	
31		11.10		7.42	22.53		16.57		2.40	4.62		0.89	
Total	71.26	297.36	563.61	292.26	268.00	844.60	892.10	322.37	212.95	105.08	88.41	48.65	4006.65 CMSDAY
Mean	2.38	9.59	18.79	9.43	8.65	28.15	28.78	10.75	6.87	3.39	3.05	1.57	10.95 CMS
Max	2.85	16.57	31.88	14.59	22.53	37.28	37.64	16.57	9.74	5.02	4.46	2.50	37.64 CMS
Min	1.38	1.70	8.14	6.30	2.20	14.68	16.57	5.90	2.40	2.40	1.90	0.89	0.89 CMS
Runoff	6.16	25.69	48.70	25.25	23.16	72.97	77.08	27.85	18.40	9.08	7.64	4.20	346.18 MCM
Momentary Peak	38.72	CMS, at 230.46 m. (MSL), at 14.00 Hours, on Oct 4, 2011											
Runoff Yield	8.99	Liters/Second/Square KM.				Momentary Peak Yield	31.790	Liters/Second/Square KM.					

WATER YEAR : 2011

CHI RIVER BASIN

Lam Phan Chat at Ban Kham Hai , Udon Thani (E.86)

Lat 17 - 05 - 29 N Long 103 - 34 - 16 E

Location : on left bank at Ban Kham Hai.

	Ban	Kham Hai	Amphoe	Wang Sam Mo	Changwat	Udon Thani
Drainage Area	93	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+204.200	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On left bank downstream at the footpath of the bridge.				Elevation	+214.372 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	206.26	206.84	207.24	207.19	207.78	208.11	207.70	206.88	206.56	206.44	206.33	206.26	
2	206.26	206.70	207.56	207.58	207.76	208.04	208.11	206.86	206.54	206.43	206.32	206.26	
3	206.26	206.63	207.60	207.54	207.92	207.63	207.87	206.85	206.53	206.42	206.31	206.26	
4	206.26	206.58	207.56	207.55	207.78	208.06	207.65	206.85	206.50	206.41	206.30	206.26	
5	206.26	206.60	207.48	207.44	207.63	207.94	207.60	206.83	206.50	206.41	206.29	206.26	
6	206.26	206.60	207.44	207.24	207.58	207.99	207.58	206.80	206.49	206.40	206.28	206.26	
7	206.26	206.59	207.66	207.00	207.54	208.38	207.54	206.79	206.49	206.40	206.27	206.26	
8	206.26	206.52	207.64	206.82	207.68	207.76	207.50	206.79	206.48	206.40	206.27	206.26	
9	206.26	206.45	207.56	206.80	207.59	208.35	207.47	206.78	206.48	206.39	206.26	206.26	
10	206.26	206.46	207.49	207.08	207.57	207.78	207.43	206.78	206.47	206.39	206.26	206.26	
11	206.26	206.45	207.34	207.73	207.57	207.71	207.40	206.77	206.47	206.39	206.26	206.26	
12	206.26	206.46	207.14	207.53	207.56	207.79	207.36	206.77	206.47	206.39	206.26	206.26	
13	206.26	207.62	207.10	207.51	207.54	207.68	207.33	206.76	206.46	206.39	206.26	206.26	
14	206.26	207.46	207.14	207.54	207.52	207.69	207.46	206.73	206.46	206.39	206.26	206.26	
15	206.26	207.62	206.98	207.58	207.57	207.72	207.51	206.68	206.46	206.39	206.26	206.26	
16	206.26	207.51	207.14	207.72	207.93	207.64	207.51	206.67	206.45	206.39	206.26	206.26	
17	206.26	207.59	207.59	207.60	207.79	207.61	207.43	206.65	206.44	206.39	206.26	206.26	
18	206.26	207.44	207.89	207.48	207.76	207.67	207.36	206.65	206.44	206.39	206.26	206.26	
19	206.26	207.73	207.39	207.37	207.86	207.67	207.25	206.64	206.44	206.39	206.26	206.26	
20	206.26	207.67	207.27	207.25	208.02	207.74	207.18	206.63	206.45	206.39	206.26	206.26	
21	206.26	207.53	207.26	207.78	207.78	207.97	207.14	206.63	206.45	206.40	206.26	206.26	
22	206.26	207.48	207.69	207.80	207.65	207.88	207.08	206.62	206.46	206.41	206.26	206.26	
23	206.63	207.42	207.51	207.77	207.60	207.77	207.02	206.61	206.46	206.43	206.26	206.26	
24	206.74	207.39	207.41	207.58	207.63	207.70	206.97	206.61	206.46	206.43	206.26	206.26	
25	207.09	207.46	207.34	207.54	207.83	207.66	206.95	206.61	206.47	206.40	206.26	206.26	
26	207.40	207.34	207.54	207.54	207.68	207.62	206.94	206.60	206.47	206.38	206.26	206.26	
27	207.18	207.10	207.46	207.46	207.64	207.60	206.93	206.60	206.48	206.37	206.26	206.26	
28	207.07	207.01	207.38	207.47	207.60	207.60	206.93	206.59	206.48	206.36	206.26	206.26	
29	206.94	206.79	207.29	207.90	207.62	207.59	206.92	206.59	206.47	206.36	206.26	206.26	
30	206.91	206.68	207.20	207.32	207.68	207.58	206.91	206.58	206.47	206.35	206.26	206.26	
31		206.71		208.14	207.77		206.89		206.46	206.34		206.26	
Mean	206.46	207.05	207.41	207.48	207.69	207.80	207.32	206.71	206.47	206.39	206.27	206.26	
Max	207.40	207.73	207.89	208.14	208.02	208.38	208.11	206.88	206.56	206.44	206.33	206.26	208.38
Min	206.26	206.45	206.98	206.80	207.52	207.58	206.89	206.58	206.44	206.34	206.26	206.26	206.26
Annual Max Momentary Gage Height	208.54		m. (MSL.) , at 12.00 Hours, on Sep 9, 2011										
Zero Gage at Bottom Elevation	204.20		m. (MSL.) , River Bed 206.02 m. (MSL)										
Left Bank Elevation	210.91		m. (MSL.) ,										
Right Bank Elevation	212.81		m. (MSL.) , Drainage Area 93 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.24	0.64	0.59	7.04	22.19	4.00	0.28	0.04	0.01	0.00	0.00	
2	0.00	0.10	1.80	2.00	6.28	18.60	22.19	0.26	0.03	0.01	0.00	0.00	
3	0.00	0.07	2.20	1.60	12.92	2.74	10.74	0.25	0.03	0.00	0.00	0.00	
4	0.00	0.04	1.80	1.70	7.04	19.60	3.10	0.25	0.02	0.00	0.00	0.00	
5	0.00	0.05	1.12	0.96	2.74	13.84	2.20	0.23	0.02	0.00	0.00	0.00	
6	0.00	0.05	0.96	0.64	2.00	16.14	2.00	0.20	0.02	0.00	0.00	0.00	
7	0.00	0.05	3.28	0.40	1.60	40.20	1.60	0.19	0.02	0.00	0.00	0.00	
8	0.00	0.03	2.92	0.22	3.64	6.28	1.20	0.19	0.02	0.00	0.00	0.00	
9	0.00	0.01	1.80	0.20	2.10	37.80	1.08	0.18	0.02	0.00	0.00	0.00	
10	0.00	0.01	1.16	0.48	1.90	7.04	0.92	0.18	0.01	0.00	0.00	0.00	
11	0.00	0.01	0.74	5.14	1.90	4.38	0.80	0.17	0.01	0.00	0.00	0.00	
12	0.00	0.01	0.54	1.50	1.80	7.42	0.76	0.17	0.01	0.00	0.00	0.00	
13	0.00	2.56	0.50	1.30	1.60	3.64	0.73	0.16	0.01	0.00	0.00	0.00	
14	0.00	1.04	0.54	1.60	1.40	3.82	1.04	0.13	0.01	0.00	0.00	0.00	
15	0.00	2.56	0.38	2.00	1.90	4.76	1.30	0.09	0.01	0.00	0.00	0.00	
16	0.00	1.30	0.54	4.76	13.38	2.92	1.30	0.08	0.01	0.00	0.00	0.00	
17	0.00	2.10	2.10	2.20	7.42	2.38	0.92	0.07	0.01	0.00	0.00	0.00	
18	0.00	0.96	11.58	1.12	6.28	3.46	0.76	0.07	0.01	0.00	0.00	0.00	
19	0.00	5.14	0.79	0.77	10.32	3.46	0.65	0.07	0.01	0.00	0.00	0.00	
20	0.00	3.46	0.67	0.65	17.60	5.52	0.58	0.07	0.01	0.00	0.00	0.00	
21	0.00	1.50	0.66	7.04	7.04	15.22	0.54	0.07	0.01	0.00	0.00	0.00	
22	0.00	1.12	3.82	7.80	3.10	11.16	0.48	0.06	0.01	0.00	0.00	0.00	
23	0.07	0.88	1.30	6.66	2.20	6.66	0.42	0.05	0.01	0.01	0.00	0.00	
24	0.14	0.79	0.84	2.00	2.74	4.00	0.37	0.05	0.01	0.01	0.00	0.00	
25	0.49	1.04	0.74	1.60	9.06	3.28	0.35	0.05	0.01	0.00	0.00	0.00	
26	0.80	0.74	1.60	1.60	3.64	2.56	0.34	0.05	0.01	0.00	0.00	0.00	
27	0.58	0.50	1.04	1.04	2.92	2.20	0.33	0.05	0.02	0.00	0.00	0.00	
28	0.47	0.41	0.78	1.08	2.20	2.20	0.33	0.05	0.02	0.00	0.00	0.00	
29	0.34	0.19	0.69	12.00	2.56	2.10	0.32	0.05	0.01	0.00	0.00	0.00	
30	0.31	0.09	0.60	0.72	3.64	2.00	0.31	0.04	0.01	0.00		0.00	
31		0.11		23.96	6.66		0.29		0.01	0.00		0.00	
Total	3.20	27.16	48.13	95.33	156.62	277.57	61.95	3.81	0.46	0.04	0.00	0.00	674.27
Mean	0.11	0.88	1.60	3.08	5.05	9.25	2.00	0.13					

WATER YEAR : 2011

CHI RIVER BASIN

Lam Pao at Ban Wang Hin , Kalasin (E.87)

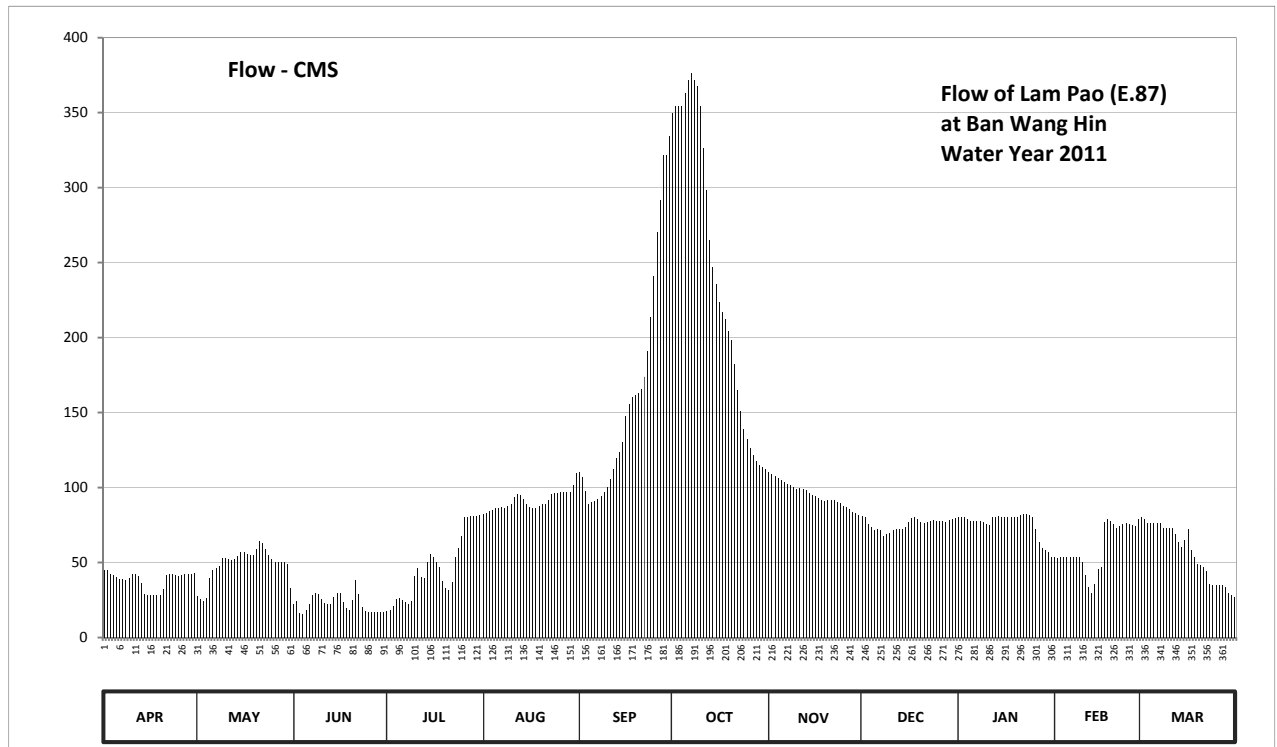
Lat 16 - 20 - 26 N Long 103 - 34 - 36 E

Location : on left bank at Ban Wang Hin.

	Ban	Wang Hin	Amphoe	Kamalasai	Changwat	Kalasin
Drainage Area	7,068	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+128.900	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On left bank downstream at the footpath of the bridge.				Elevation	+140.068 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Rather unstable because of backwater effect.					
Overbank Flow Conditions	Overbank flow starts at elevation +135.760 m.(MSL.), records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 29 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.56	130.89	130.69	130.49	133.51	135.58	138.00	135.58	133.09	132.70	131.88	132.85	
2	131.56	130.82	130.75	130.52	133.69	135.47	138.01	135.53	132.79	132.73	131.86	132.68	
3	131.46	130.76	130.42	130.63	133.86	135.03	138.01	135.49	132.59	132.74	131.87	132.60	
4	131.45	130.85	130.37	130.83	134.00	134.51	138.01	135.43	132.52	132.68	131.87	132.60	
5	131.40	131.37	130.52	130.84	134.17	134.56	138.03	135.38	132.46	132.64	131.87	132.60	
6	131.34	131.58	130.68	130.78	134.20	134.62	138.05	135.32	132.48	132.64	131.87	132.60	
7	131.34	131.61	130.92	130.73	134.21	134.71	138.06	135.26	132.45	132.63	131.87	132.60	
8	131.33	131.66	130.98	130.67	134.20	134.85	138.05	135.21	132.34	132.64	131.87	132.51	
9	131.38	131.86	130.95	130.76	134.30	135.00	138.04	135.15	132.38	132.61	131.87	132.51	
10	131.47	131.86	130.81	131.41	134.52	135.16	138.01	135.10	132.40	132.59	131.76	132.50	
11	131.46	131.83	130.71	131.62	134.78	135.41	137.91	135.13	132.46	132.57	131.45	132.51	
12	131.43	131.80	130.68	131.40	134.90	135.65	137.78	135.11	132.49	132.75	131.14	132.38	
13	131.24	131.83	130.68	131.37	134.86	135.87	137.60	135.05	132.47	133.02	131.00	132.20	
14	130.95	131.91	130.88	131.76	134.70	135.97	137.49	134.96	132.48	133.09	131.22	132.10	
15	130.92	132.01	131.00	131.95	134.47	136.12	137.41	134.88	132.52	133.04	131.60	132.24	
16	130.92	132.00	130.98	131.87	134.28	136.44	137.32	134.81	132.62	132.86	131.64	132.47	
17	130.92	131.95	130.74	131.76	134.16	136.57	137.26	134.76	132.69	132.74	132.61	132.03	
18	130.92	131.93	130.56	131.64	134.17	136.63	137.22	134.68	132.70	132.73	132.67	131.87	
19	130.94	131.92	130.52	131.30	134.31	136.65	137.14	134.64	132.68	132.74	132.63	131.72	
20	131.10	132.06	130.80	131.12	134.48	136.67	137.08	134.65	132.62	132.84	132.59	131.70	
21	131.44	132.23	131.32	131.07	134.51	136.71	136.91	134.65	132.60	133.40	132.50	131.65	
22	131.48	132.19	130.95	131.27	134.68	136.81	136.70	134.65	132.61	133.58	132.53	131.54	
23	131.46	132.06	130.59	131.87	134.91	137.01	136.50	134.60	132.64	133.59	132.58	131.21	
24	131.44	131.92	130.47	132.08	134.94	137.23	136.30	134.54	132.66	133.37	132.60	131.20	
25	131.43	131.82	130.45	132.33	134.97	137.45	136.17	134.33	132.64	132.99	132.58	131.19	
26	131.45	131.77	130.45	132.72	135.00	137.63	136.03	134.21	132.64	132.47	132.55	131.18	
27	131.47	131.75	130.44	132.95	134.99	137.75	135.91	134.06	132.64	132.21	132.54	131.18	
28	131.48	131.75	130.44	133									



Discharge in Cubic Meter per Second , Water Year April 1, 2010 to March 31, 2011

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	44.70	27.40	22.60	17.80	82.10	110.40	350.00	110.40	80.80	80.00	53.60	80.20		
2	44.70	25.70	24.00	18.50	83.10	107.10	354.40	108.90	80.10	80.00	53.10	79.30		
3	42.00	24.20	16.60	21.10	84.20	97.60	354.40	107.70	76.00	80.00	53.40	76.30		
4	41.70	26.40	15.70	25.90	85.00	89.20	354.40	105.90	73.70	79.30	53.40	76.30		
5	40.40	39.60	18.50	26.20	86.40	90.00	363.20	104.60	71.70	77.80	53.40	76.30		
6	38.80	45.20	22.30	24.70	86.60	90.90	372.00	103.40	72.40	77.80	53.40	76.30		
7	38.80	46.10	28.10	23.50	86.70	92.40	376.40	102.20	71.40	77.40	53.40	76.30		
8	38.60	47.50	29.50	22.10	86.60	94.60	372.00	101.20	67.90	77.80	53.40	73.30		
9	39.90	53.10	28.80	24.20	87.40	97.00	367.60	100.00	69.20	76.70	53.40	73.30		
10	42.20	53.10	25.40	40.70	89.30	100.20	354.40	99.00	69.80	76.00	50.30	73.00		
11	42.00	52.20	23.00	46.40	93.50	105.30	326.60	99.60	71.70	75.30	41.70	73.30		
12	41.20	51.40	22.30	40.40	95.40	112.50	298.00	99.20	72.70	80.10	33.60	69.20		
13	36.20	52.20	22.30	39.60	94.80	119.80	265.00	98.00	72.00	80.60	30.00	63.40		
14	28.80	54.50	27.10	50.30	92.20	123.80	246.60	96.40	72.40	80.80	35.70	60.20		
15	28.10	57.30	30.00	55.60	88.80	130.00	235.40	95.10	73.70	80.60	45.80	64.70		
16	28.10	57.00	29.50	53.40	87.20	147.40	223.60	94.00	77.00	80.20	46.90	72.00		
17	28.10	55.60	23.80	50.30	86.30	155.90	216.60	93.20	79.60	80.00	76.70	58.00		
18	28.10	55.00	19.40	46.90	86.40	160.10	212.20	91.90	80.00	80.00	78.90	53.40		
19	28.60	54.80	18.50	37.80	87.50	161.50	204.00	91.20	79.30	80.00	77.40	49.20		
20	32.60	58.90	25.20	33.10	88.80	162.90	198.00	91.40	77.00	80.20	76.00	48.60		
21	41.40	64.40	38.30	31.80	89.20	165.80	181.90	91.40	76.30	81.70	73.00	47.20		
22	42.50	63.10	28.80	37.00	91.90	173.80	165.00	91.40	76.70	82.50	74.00	44.10		
23	42.00	58.90	20.20	53.40	95.60	191.00	151.00	90.60	77.80	82.50	75.60	35.50		
24	41.40	54.80	17.50	59.60	96.00	213.30	139.00	89.60	78.50	81.60	76.30	35.20		
25	41.20	52.00	17.10	67.60	96.50	241.00	132.50	87.60	77.80	80.50	75.60	34.90		
26	41.70	50.60	17.10	80.00	97.00	270.10	126.20	86.70	77.80	72.00	74.70	34.70		
27	42.20	50.00	16.90	80.40	96.80	292.00	121.40	85.50	77.80	63.70	74.30	34.70		
28	42.50	50.00	16.90	80.90	96.70	321.80	117.40	84.00	77.00	59.90	78.90	33.60		
29	42.00	50.00	16.70	81.20	96.70	321.80	114.60	82.70	78.50	58.60	80.10	30.00		
30	42.70	48.90	16.90	81.30	101.60	334.40	113.70	81.80	79.30	56.70		28.30		
31		33.10		81.40	109.20		111.90		79.60	53.90		27.10		
Total	1153.20	1513.00	679.00	1433.10	2825.50	4873.60	7519.40	2864.60	2345.50	2354.20	1756.00	1757.90	31075.00	CMSDAY
Mean	38.40	48.80	22.60	46.20	91.10	162.50	242.60	95.50	75.70	75.90	60.60	56.70	84.90	CMS
Max	44.70	64.40	38.30	81.40	109.20	334.40	376.40	110.40	80.80	82.50	80.10	80.20	376.40	CMS
Min	28.10	24.20	15.70	17.80	82.10	89.20	111.90	81.80	67.90	53.90	30.00	27.10	15.70	CMS
Runoff	99.64	130.72	58.67	123.82	244.12	421.08	649.68	247.50	202.65	203.40	151.72	151.88	2684.88	MCM
Momentary Peak	376.40	CMS, at 138.06 m. (MSL), at 03.00 Hours, on Oct 7, 2011												
Runoff Yield	12.01	Liters/Second/Square KM.			Momentary Peak Yield		53.254	Liters/Second/Square KM.						

WATER YEAR : 2011

CHI RIVER BASIN

Lam Nong Sang at Ban Nong Rew Nung , Kalasin (E.89)

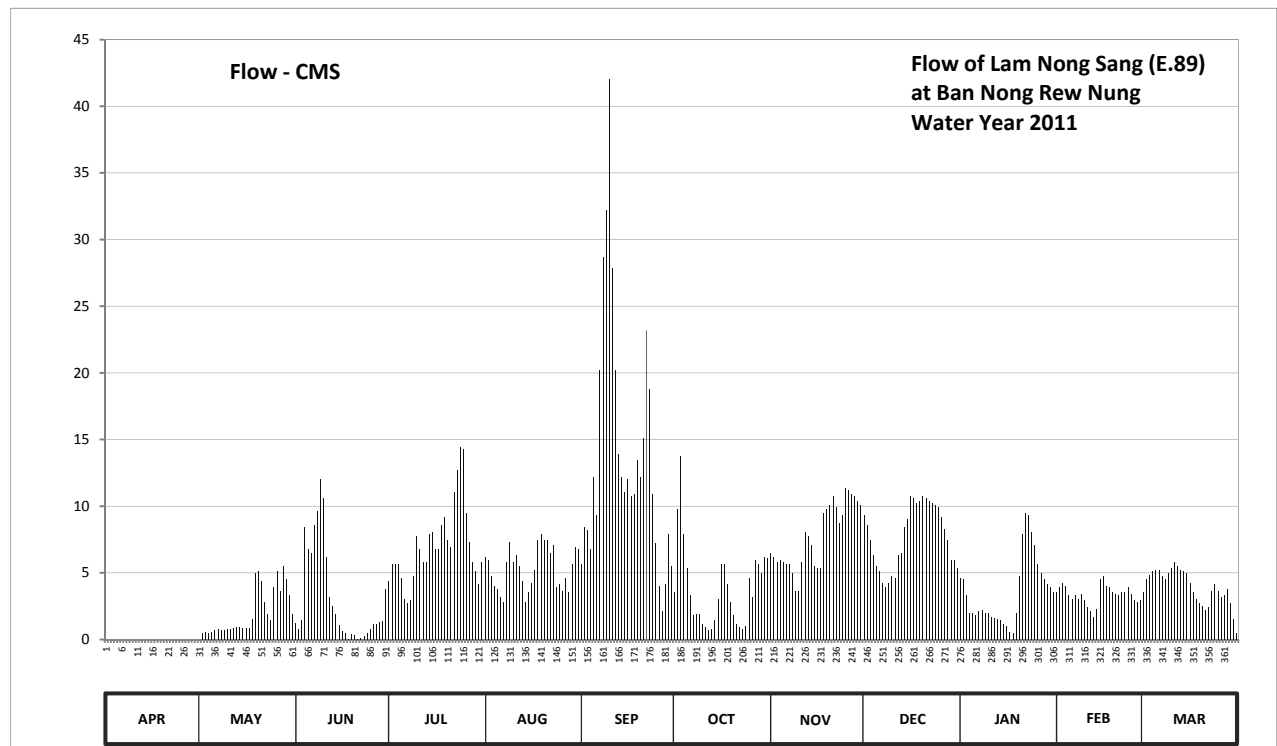
Lat 16 - 40 - 04 N Long 103 - 18 - 16 E

Location : on left bank at Ban Nong Rew Nung.

	Ban	Nong Rew Nung	Amphoe	Nong Kung Si	Changwat	Kalasin
Drainage Area	167	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+170.600	m. (MSL.)				
Bench Mark	B.M.- Highways Dept.					
Location BM	On left bank upstream at the footpath of the bridge.				Elevation	+176.238 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	171.64	171.66	171.93	172.24	172.38	172.34	172.17	172.40	172.60	172.26	172.17	172.17	
2	171.65	171.80	171.86	172.34	172.36	172.54	172.63	172.38	172.55	172.25	172.20	172.25	
3	171.65	171.81	171.96	172.34	172.27	172.52	172.88	172.35	172.47	172.15	172.23	172.28	
4	171.63	171.80	172.54	172.34	172.21	172.42	172.50	172.36	172.39	172.03	172.21	172.30	
5	171.63	171.81	172.42	172.26	172.19	172.78	172.32	172.35	172.33	172.03	172.15	172.31	
6	171.64	171.84	172.40	172.13	172.14	172.60	172.15	172.34	172.30	172.01	172.13	172.31	
7	171.63	171.85	172.55	172.10	172.11	173.25	172.01	172.34	172.23	172.04	172.15	172.27	
8	171.65	171.84	172.62	172.12	172.35	173.68	172.02	172.29	172.20	172.05	172.13	172.25	
9	171.65	171.84	172.77	172.27	172.46	173.84	172.02	172.18	172.23	172.03	172.16	172.29	
10	171.67	171.85	172.68	172.49	172.35	174.28	171.92	172.18	172.27	172.03	172.12	172.32	
11	171.67	171.86	172.38	172.42	172.39	173.64	171.88	172.35	172.26	172.00	172.07	172.35	
12	171.65	171.87	172.14	172.35	172.33	173.25	171.84	172.51	172.39	171.99	172.04	172.33	
13	171.64	171.88	172.08	172.35	172.24	172.89	171.86	172.49	172.40	171.98	172.00	172.31	
14	171.63	171.88	172.02	172.50	172.11	172.78	171.96	172.44	172.54	171.96	172.06	172.30	
15	171.65	171.87	171.91	172.51	172.17	172.71	172.13	172.33	172.58	171.92	172.25	172.29	
16	171.66	171.87	171.83	172.42	172.23	172.77	172.34	172.32	172.69	171.90	172.27	172.23	
17	171.65	171.87	171.79	172.42	172.31	172.69	172.34	172.32	172.68	171.81	172.21	172.17	
18	171.63	171.98	171.71	172.55	172.47	172.70	172.22	172.61	172.66	171.80	172.20	172.13	
19	171.64	172.29	171.78	172.59	172.50	172.86	172.11	172.63	172.67	172.03	172.17	172.10	
20	171.64	172.30	171.76	172.47	172.47	172.78	172.01	172.65	172.69	172.27	172.16	172.08	
21	171.63	172.24	171.71	172.43	172.47	172.96	171.92	172.69	172.68	172.50	172.15	172.05	
22	171.62	172.11	171.72	172.71	172.40	173.41	171.88	172.64	172.67	172.61	172.17	172.07	
23	171.65	172.02	171.75	172.81	172.44	173.17	171.85	172.56	172.66	172.60	172.17	172.18	
24	171.65	171.96	171.80	172.92	172.20	172.70	171.90	172.60	172.65	172.51	172.20	172.22	
25	171.65	172.20	171.86	172.91	172.22	172.45	172.26	172.73	172.64	172.44	172.16	172.18	
26	171.64	172.30	171.92	172.61	172.18	172.21	172.14	172.72	172.59	172.34	172.12	172.14	
27	171.64	172.18	171.92	172.46	172.26	172.04	172.36	172.70	172.53	172.29	172.11	172.15	
28	171.63	172.33	171.94	172									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	1.21	4.38	6.22	5.66	3.54	6.50	9.30	4.62	3.54	3.54		
2	0.00	0.50	0.80	5.66	5.94	8.46	9.78	6.22	8.60	4.50	3.90	4.50		
3	0.00	0.55	1.42	5.66	4.74	8.18	13.78	5.80	7.48	3.30	4.26	4.86		
4	0.00	0.50	8.46	5.66	4.02	6.78	7.90	5.94	6.36	2.00	4.02	5.10		
5	0.00	0.55	6.78	4.62	3.78	12.18	5.38	5.80	5.52	2.00	3.30	5.24		
6	0.00	0.70	6.50	3.06	3.18	9.30	3.30	5.66	5.10	1.80	3.06	5.24		
7	0.00	0.75	8.60	2.70	2.82	20.20	1.80	5.66	4.26	2.10	3.30	4.74		
8	0.00	0.70	9.62	2.94	5.80	28.68	1.90	4.98	3.90	2.20	3.06	4.50		
9	0.00	0.70	12.02	4.74	7.34	32.21	1.90	3.66	4.26	2.00	3.42	4.98		
10	0.00	0.75	10.58	7.76	5.80	42.04	1.14	3.66	4.74	2.00	2.94	5.38		
11	0.00	0.80	6.22	6.78	6.36	27.84	0.90	5.80	4.62	1.70	2.40	5.80		
12	0.00	0.85	3.18	5.80	5.52	20.20	0.70	8.04	6.36	1.63	2.10	5.52		
13	0.00	0.90	2.50	5.80	4.38	13.94	0.80	7.76	6.50	1.56	1.70	5.24		
14	0.00	0.90	1.90	7.90	2.82	12.18	1.42	7.06	8.46	1.42	2.30	5.10		
15	0.00	0.85	1.07	8.04	3.54	11.06	3.06	5.52	9.02	1.14	4.50	4.98		
16	0.00	0.85	0.65	6.78	4.26	12.02	5.66	5.38	10.74	1.00	4.74	4.26		
17	0.00	0.85	0.45	6.78	5.24	10.74	5.66	5.38	10.58	0.55	4.02	3.54		
18	0.00	1.56	0.05	8.60	7.48	10.90	4.14	9.46	10.26	0.50	3.90	3.06		
19	0.00	4.98	0.40	9.16	7.90	13.46	2.82	9.78	10.42	2.00	3.54	2.70		
20	0.00	5.10	0.30	7.48	7.48	12.18	1.80	10.10	10.74	4.74	3.42	2.50		
21	0.00	4.38	0.05	6.92	7.48	15.06	1.14	10.74	10.58	7.90	3.30	2.20		
22	0.00	2.82	0.10	11.06	6.50	23.19	0.90	9.94	10.42	9.46	3.54	2.40		
23	0.00	1.90	0.25	12.66	7.06	18.76	0.75	8.74	10.26	9.30	3.54	3.66		
24	0.00	1.42	0.50	14.42	3.90	10.90	1.00	9.30	10.10	8.04	3.90	4.14		
25	0.00	3.90	0.80	14.26	4.14	7.20	4.62	11.38	9.94	7.06	3.42	3.66		
26	0.00	5.10	1.14	9.46	3.66	4.02	3.18	11.22	9.16	5.66	2.94	3.18		
27	0.00	3.66	1.14	7.34	4.62	2.10	5.94	10.90	8.32	4.98	2.82	3.30		
28	0.00	5.52	1.28	5.80	3.54	4.14	5.66	10.74	7.48	4.50	2.94	3.78		
29	0.00	4.50	1.35	5.10	5.66	7.90	4.98	10.42	5.94	4.14	3.18	2.70		
30	0.00	3.30	3.78	4.14	6.92	5.52	6.22	10.10	5.94	3.90		1.56		
31		1.90		5.80	6.78		6.08		5.38	3.54		0.50		
Total	0.00	61.74	93.10	217.26	164.88	417.00	117.85	231.64	240.74	111.24	97.00	121.86	1874.31	CMSDAY
Mean	0.00	1.99	3.10	7.01	5.32	13.90	3.80	7.72	7.77	3.59	3.34	3.93	5.12	CMS
Max	0.00	5.52	12.02	14.42	7.90	42.04	13.78	11.38	10.74	9.46	4.74	5.80	42.04	CMS
Min	0.00	0.00	0.05	2.70	2.82	2.10	0.70	3.66	3.90	0.50	1.70	0.50	0.00	CMS
Runoff	0.00	5.33	8.04	18.77	14.25	36.03	10.18	20.01	20.80	9.61	8.38	10.53	161.94	MCM
Momentary Peak	45.52	CMS, at 174.43 m. (MSL), at 12.00 Hours, on Sep 10, 2011												
Runoff Yield	30.67	Liters/Second/Square KM.			Momentary Peak Yield		272.575	Liters/Second/Square KM.						

WATER YEAR : 2011

CHI RIVER BASIN

Chi River at Ban Kui Chuak , Maha Sarakham (E.91)

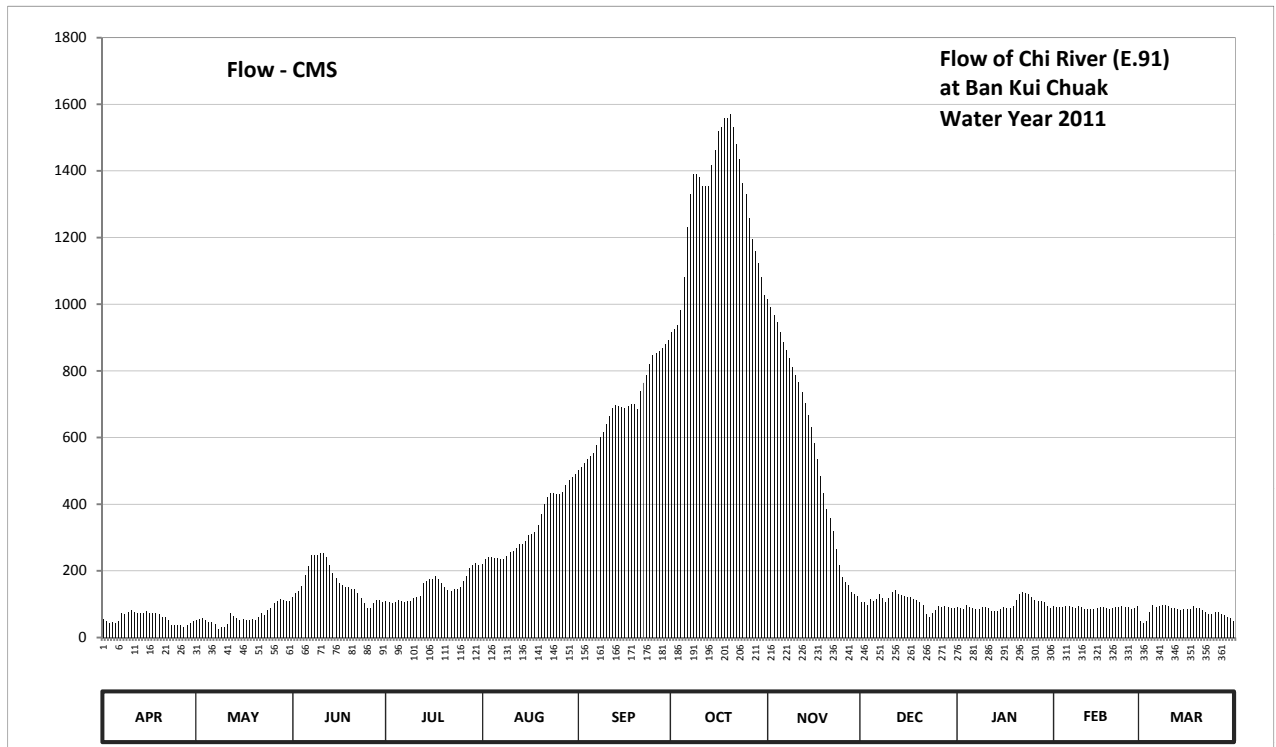
Lat 16 - 21 - 58 N Long 102 - 56 - 59 E

Location : on left bank at Ban Kui Chuak.

	Ban	Kui Chuak	Amphoe	Kosum Phisai	Changwat	Maha Sarakham
Drainage Area	29,265	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+138.000	m. (MSL.)				
Bench Mark	B.M.-	H.D.				
Location BM	On left bank at the abutment of the bridge.				Elevation	+151.082 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2005 to date					
Rating Operation						
Period of Rating	2005 to date					
Rated by Flot	-					
Rated by Current Meter	2005 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +150.010 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.72	140.62	142.00	141.78	143.47	146.80	150.08	150.43	141.76	141.48	141.53	140.57	
2	140.54	140.69	142.17	141.76	143.66	146.90	150.11	150.34	141.76	141.41	141.48	140.44	
3	140.44	140.78	142.25	141.71	143.76	147.04	150.16	150.26	141.61	141.39	141.50	140.56	
4	140.50	140.64	142.52	141.73	143.74	147.16	150.31	150.19	141.90	141.57	141.46	141.16	
5	140.44	140.50	142.99	141.82	143.71	147.24	150.55	150.08	141.77	141.46	141.52	141.57	
6	140.61	140.47	143.40	141.77	143.73	147.34	150.72	149.97	141.88	141.44	141.53	141.46	
7	141.09	140.34	143.84	141.75	143.67	147.59	150.83	149.85	142.11	141.37	141.47	141.56	
8	141.04	139.94	143.84	141.77	143.69	147.85	150.90	149.72	141.93	141.33	141.40	141.59	
9	141.18	140.14	143.84	141.80	143.79	148.02	150.90	149.58	141.75	141.49	141.52	141.61	
10	141.28	140.14	143.90	141.95	143.95	148.26	150.89	149.45	141.95	141.51	141.47	141.55	
11	141.19	140.37	143.91	141.98	144.01	148.52	150.86	149.30	142.22	141.40	141.38	141.44	
12	141.08	141.08	143.76	142.06	144.11	148.72	150.86	149.10	142.32	141.23	141.37	141.41	
13	141.14	140.95	143.43	142.63	144.23	148.80	150.86	148.86	142.12	141.22	141.36	141.33	
14	141.13	140.79	143.10	142.72	144.26	148.78	150.93	148.56	142.07	141.24	141.39	141.31	
15	141.26	140.66	142.86	142.82	144.34	148.75	150.98	148.17	142.03	141.38	141.45	141.34	
16	141.14	140.71	142.64	142.82	144.56	148.74	151.03	147.68	142.00	141.46	141.51	141.33	
17	141.13	140.66	142.57	142.95	144.60	148.77	151.04	147.15	141.99	141.42	141.49	141.38	
18	141.13	140.65	142.46	142.84	144.67	148.84	151.06	146.63	141.88	141.42	141.43	141.53	
19	141.06	140.71	142.45	142.63	144.93	148.83	151.06	146.07	141.85	141.53	141.37	141.45	
20	140.87	140.67	142.39	142.47	145.33	148.71	151.07	145.51	141.72	141.82	141.41	141.41	
21	140.84	140.82	142.39	142.33	145.67	149.13	151.04	145.16	141.61	142.14	141.50	141.28	
22	140.68	141.08	142.18	142.26	145.92	149.29	151.00	144.71	141.06	142.22	141.51	141.19	
23	140.31	140.96	141.95	142.36	146.05	149.44	150.95	144.08	140.85	142.18	141.52	141.03	
24	140.29	141.28	141.67	142.37	146.06	149.63	150.87	143.45	141.08	142.11	141.51	141.07	
25	140.28	141.45	141.44	142.47	146.04	149.76	150.83	142.92	141.29	141.98	141.46	141.20	
26	140.23	141.67	141.44	142.74	146.03	149.79	150.75	142.69	141.52	141.85	141.35	141.19	
27	140.13	141.79	141.68	142.95	146.10	149.82	150.68	142.55	141.51	141.78	141.43	141.03	
28	140.27	141.87	141.82	143									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	55.70	51.30	122.00	108.80	219.90	501.20	915.00	1015.80	107.60	91.00	93.80	49.10		
2	47.80	54.40	132.90	107.60	234.20	510.60	923.70	989.90	107.60	87.70	91.00	43.70		
3	43.70	58.30	138.00	104.60	241.80	523.80	938.10	966.90	98.60	86.70	92.00	48.60		
4	46.00	52.20	155.30	105.80	240.20	535.00	981.30	946.70	116.00	96.20	90.10	75.70		
5	43.70	46.00	186.30	111.20	238.00	542.60	1080.40	915.00	108.20	90.10	93.20	96.20		
6	50.80	44.90	215.00	108.20	239.50	552.00	1231.40	886.20	114.80	89.10	93.80	90.10		
7	72.30	39.90	247.80	107.00	234.90	575.50	1329.00	863.20	129.00	85.80	90.60	95.60		
8	69.90	25.20	247.80	108.20	236.40	599.90	1391.20	838.20	117.80	83.80	87.20	97.40		
9	76.60	32.30	247.80	110.00	244.00	615.90	1391.20	811.40	107.00	91.50	93.20	98.60		
10	81.40	32.30	252.40	119.00	256.20	638.40	1382.30	788.40	119.00	92.60	90.60	95.00		
11	77.10	41.10	253.20	120.80	260.80	663.40	1355.70	765.60	136.10	87.20	86.20	89.10		
12	71.80	71.80	241.80	125.80	269.20	687.00	1355.70	735.20	142.50	79.00	85.80	87.70		
13	74.70	65.80	217.10	162.60	279.30	696.40	1355.70	703.50	129.70	78.60	85.30	83.80		
14	74.20	58.80	194.00	168.50	281.80	694.00	1417.80	668.10	126.50	79.50	86.70	82.90		
15	80.50	53.00	177.80	175.10	288.60	690.50	1462.20	630.00	123.90	86.20	89.60	84.30		
16	74.70	55.20	163.20	175.10	307.00	689.30	1519.00	583.90	122.00	90.10	92.60	83.80		
17	74.20	53.00	158.60	183.70	310.40	692.90	1532.00	534.10	121.40	88.20	91.50	86.20		
18	74.20	52.60	151.40	176.40	316.30	701.10	1558.00	485.20	114.80	88.20	88.60	93.80		
19	70.90	55.20	150.80	162.60	338.10	699.90	1558.00	434.30	113.00	93.80	85.80	89.60		
20	62.30	53.50	147.00	152.10	371.70	685.80	1571.00	386.80	105.20	111.20	87.70	87.70		
21	61.00	60.10	147.00	143.10	400.30	739.80	1532.00	357.40	98.60	131.00	92.00	81.40		
22	53.90	71.80	133.50	138.60	421.30	764.10	1480.00	319.60	70.90	136.10	92.60	77.10		
23	38.80	66.20	119.00	145.00	432.50	786.90	1435.60	266.70	61.40	133.50	93.20	69.40		
24	38.00	81.40	102.20	145.70	433.40	821.00	1364.60	218.50	71.80	129.00	92.60	71.40		
25	37.60	89.60	89.10	152.10	431.60	845.90	1329.00	181.70	81.90	120.80	90.10	77.60		
26	35.70	102.20	89.10	169.80	430.70	851.70	1258.00	166.50	93.20	113.00	84.80	77.10		
27	31.90	109.40	102.80	183.70	437.00	857.40	1195.80	157.30	92.60	108.80	88.60	69.40		
28	37.30	114.20	111.20	207.30	455.90	867.00	1160.30	136.10	93.20	108.20	95.60	67.60		
29	43.30	113.00	111.80	218.50	470.30	878.60	1124.80	129.70	92.60	105.20	71.80	60.50		
30	47.80	109.40	107.60	222.00	481.50	892.00	1080.40	123.30	89.60	95.00		57.00		
31		110.00		218.50	489.90		1027.40		88.60	88.20		48.60		
Total	1747.80	2024.10	4913.50	4637.40	10292.70	2799.60	40236.60	17005.20	3295.10	3045.30	2596.60	2416.00	113009.90	CMSDAY
Mean	58.30	65.30	163.80	149.60	332.00	693.30	1298.00	566.80	106.30	98.20	89.50	77.90	308.80	CMS
Max	81.40	114.20	253.20	222.00	489.90	892.00	1571.00	1015.80	142.50	136.10	95.60	98.60	1571.00	CMS
Min	31.90	25.20	89.10	104.60	219.90	501.20	915.00	123.30	61.40	78.60	71.80	43.70	25.20	CMS
Runoff	151.01	174.88	424.53	400.67	889.29	1797.09	3476.44	1469.25	284.70	263.11	224.35	208.74	9764.06	MCM
Momentary Peak	1571.01 CMS, at 151.07 m. (MSL), at 01.00 Hours, on Oct 20, 2011													
Runoff Yield	10.55	Liters/Second/Square KM.			Momentary Peak Yield		53.682	Liters/Second/Square KM.						

WATER YEAR : 2011

CHI RIVER BASIN

Lam Nam Yang at Ban Tha Ngam , Roi Et (E.92)

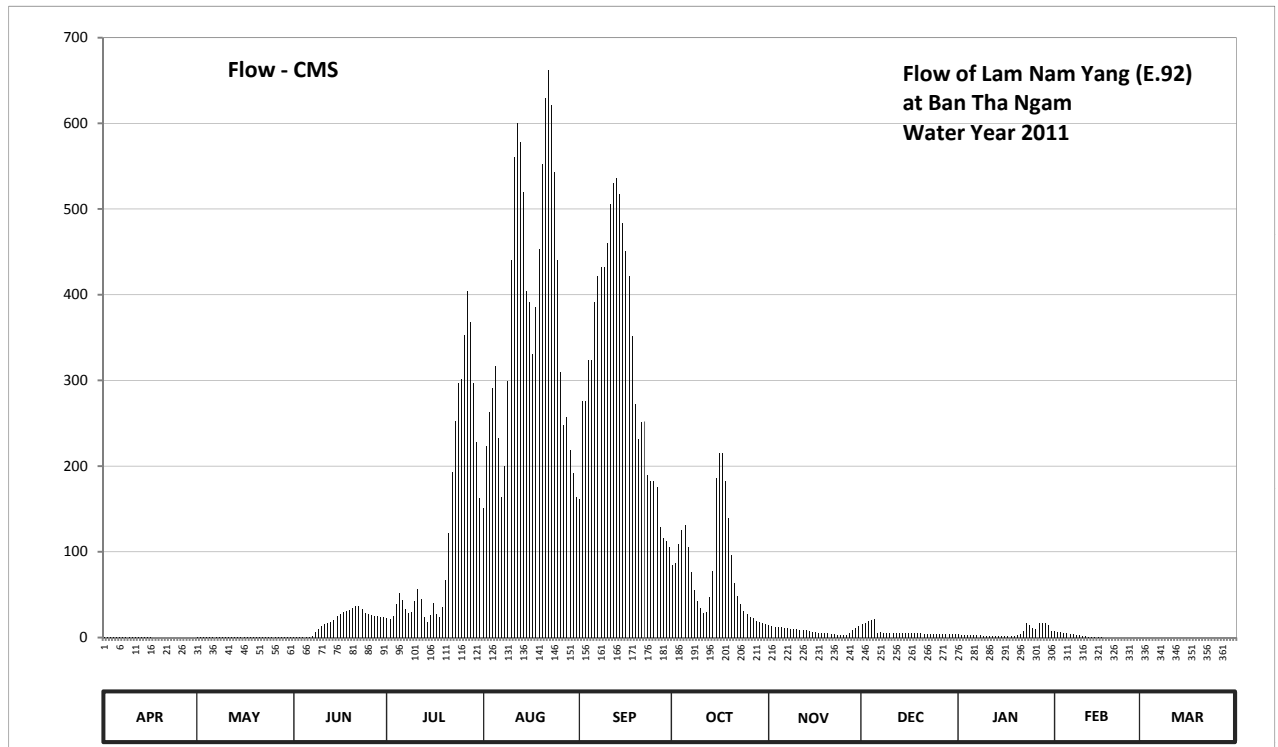
Lat 16 - 06 - 34 N Long 104 - 00 - 40 E

Location : on right bank at the bridge.

	Ban	Tha Ngam	Amphoe	Selaphum	Changwat	Roi Et
Drainage Area	3,359	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+124.500	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On right bank at the footpath of the bridge.				Elevation	+136.964 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	Overbank flow starts at elevation +133.310 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	125.54	125.26	126.36	129.55	132.34	132.46	131.42	128.62	128.80	129.40	129.60	128.64	
2	125.54	125.51	126.35	129.46	133.08	133.54	131.47	128.52	129.00	129.38	129.55	128.60	
3	125.54	125.54	126.35	129.71	133.44	133.54	131.80	128.44	129.19	129.37	129.55	128.72	
4	125.54	125.58	126.34	130.39	133.66	133.87	132.03	128.40	129.32	129.36	129.53	128.69	
5	125.54	125.61	126.39	130.76	133.82	133.87	132.10	128.34	129.43	129.35	129.49	128.76	
6	125.54	125.64	126.59	130.56	133.17	134.26	131.74	128.24	129.51	129.34	129.44	128.73	
7	125.54	125.65	126.97	130.22	132.48	134.42	131.26	128.20	129.55	129.33	129.40	128.73	
8	125.54	125.66	127.64	129.97	132.86	134.47	130.85	128.18	129.54	129.33	129.38	128.74	
9	125.53	125.67	128.16	130.05	133.71	134.47	130.52	128.14	129.54	129.31	129.36	128.75	
10	125.53	125.67	128.52	130.51	134.51	134.60	130.23	128.09	129.53	129.30	129.30	128.77	
11	125.53	125.70	128.86	130.88	135.04	134.81	129.95	127.99	129.53	129.29	129.26	128.79	
12	125.53	125.75	128.93	130.60	135.19	134.92	130.05	127.95	129.53	129.28	129.19	128.79	
13	125.53	125.77	129.11	129.62	135.11	134.94	130.66	127.92	129.52	129.27	129.15	128.75	
14	125.52	125.79	129.33	129.15	134.87	134.86	131.29	127.87	129.51	129.26	129.14	128.72	
15	125.52	125.80	129.68	129.82	134.33	134.71	132.71	127.72	129.51	129.26	129.09	128.71	
16	125.51	125.82	129.86	130.45	134.26	134.56	133.01	127.63	129.50	129.26	129.04	128.70	
17	125.01	125.86	130.01	129.86	133.91	134.42	133.01	127.54	129.50	129.25	128.99	128.70	
18	124.58	125.91	130.10	129.66	134.23	134.03	132.68	127.50	129.50	129.25	128.97	128.72	
19	124.57	125.97	130.15	130.30	134.57	133.52	132.20	127.48	129.50	129.27	128.94	128.80	
20	124.56	125.98	130.24	131.09	135.01	133.16	131.61	127.44	129.47	129.33	128.89	128.88	
21	124.56	125.94	130.34	131.98	135.30	133.33	131.03	127.38	129.45	129.40	128.85	128.95	
22	124.65	125.93	130.32	132.78	135.42	133.34	130.69	127.29	129.45	129.60	128.84	128.98	
23	124.89	126.03	130.22	133.34	135.27	132.75	130.40	127.21	129.45	129.95	128.82	129.00	
24	125.08	126.24	129.94	133.70	134.97	132.68	130.09	127.13	129.42	129.87	128.80	129.00	
25	125.13	126.23	129.85	133.73	134.51	132.68	129.89	127.07	129.41	129.78	128.78	129.00	
26	125.17	126.17	129.79	134.04	133.78	132.61	129.66	127.08	129.40	129.74	128.75	129.00	
27	125.18	126.22	129.74	134.33	133.30	132.07	129.54	127.60	129.40	129.95	128.72	129.00	
28	125.18	126.30	129.69	134									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.07	0.05	0.34	22.70	151.56	161.64	84.68	13.96	15.40	3.50	7.00	0.00	
2	0.07	0.07	0.33	21.60	222.96	275.20	87.38	13.16	17.00	3.20	6.00	0.00	
3	0.07	0.07	0.33	24.94	263.28	275.20	109.40	12.52	18.90	3.05	6.00	0.00	
4	0.07	0.08	0.32	38.70	291.40	324.20	125.52	12.20	20.20	2.90	5.60	0.00	
5	0.07	0.08	0.37	51.40	316.20	324.20	131.40	11.72	21.30	2.75	4.85	0.00	
6	0.07	0.08	0.69	43.80	233.04	390.80	105.32	10.92	5.20	2.60	4.10	0.00	
7	0.07	0.08	1.79	33.60	163.32	422.00	76.04	10.60	6.00	2.45	3.50	0.00	
8	0.07	0.09	6.12	28.58	200.28	432.00	55.00	10.44	5.80	2.45	3.20	0.00	
9	0.07	0.09	10.28	30.00	298.60	432.00	42.60	10.12	5.80	2.15	2.90	0.00	
10	0.07	0.09	13.16	42.30	440.20	460.00	33.90	9.72	5.60	2.00	2.00	0.00	
11	0.07	0.09	15.88	56.20	560.40	506.20	28.30	8.92	5.60	1.88	1.52	0.00	
12	0.07	0.09	16.44	45.00	600.30	530.80	30.00	8.60	5.60	1.76	0.74	0.00	
13	0.07	0.10	18.10	23.68	578.70	535.60	47.40	8.36	5.40	1.64	0.50	0.00	
14	0.07	0.10	20.30	18.50	519.40	517.20	77.66	7.96	5.20	1.52	0.44	0.00	
15	0.07	0.10	24.52	26.48	404.00	484.20	185.58	6.76	5.20	1.52	0.18	0.00	
16	0.07	0.10	27.04	40.50	390.80	451.20	215.12	6.04	5.00	1.52	0.08	0.00	
17	0.02	0.11	29.20	27.04	330.70	422.00	215.12	5.32	5.00	1.40	0.00	0.00	
18	0.00	0.11	31.00	24.24	385.40	351.10	182.64	5.00	5.00	1.40	0.00	0.00	
19	0.00	0.12	32.00	36.00	453.40	272.60	139.80	4.88	5.00	1.64	0.00	0.00	
20	0.00	0.13	34.20	66.86	552.60	231.92	96.48	4.63	4.55	2.45	0.00	0.00	
21	0.00	0.12	37.20	121.64	630.00	250.96	63.62	4.26	4.25	3.50	0.00	0.00	
22	0.00	0.12	36.60	192.44	662.60	252.08	48.60	3.70	4.25	7.00	0.00	0.00	
23	0.01	0.14	33.60	252.08	621.90	189.50	39.00	3.20	4.25	16.50	0.00	0.00	
24	0.03	0.23	28.16	297.00	542.80	182.64	30.80	2.71	3.80	14.10	0.00	0.00	
25	0.03	0.22	26.90	301.80	440.20	182.64	27.46	2.33	3.65	11.40	0.00	0.00	
26	0.04	0.19	26.06	352.80	309.80	175.78	24.24	2.40	3.50	10.20	0.00	0.00	
27	0.04	0.22	25.36	404.00	247.60	128.88	22.56	5.80	3.50	16.50	0.00	0.00	
28	0.04	0.28	24.66	368.10	256.56	115.52	19.60	9.08	3.50	16.50	0.00	0.00	
29	0.04	0.32	24.10	297.00	218.48	112.12	18.30	11.48	3.50	16.50	0.00	0.00	
30	0.04	0.33	23.40	227.44	191.46	105.32	17.20	13.64	3.50	14.10		0.00	
31		0.33		162.48	163.32		15.64		3.50	7.20		0.00	
Total	1.41	4.33	568.45	3678.90	11641.26	9495.50	2396.36	240.43	213.95	177.28	48.61	0.00	28466.48 CMSDAY
Mean	0.05	0.14	18.95	118.67	375.52	316.52	77.30	8.01	6.90	5.72	1.68	0.00	77.78 CMS
Max	0.07	0.33	37.20	404.00	662.60	535.60	215.12	13.96	21.30	16.50	7.00	0.00	662.60 CMS
Min	0.00	0.05	0.32	18.50	151.56	105.32	15.64	2.33	3.50	1.40	0.00	0.00	0.00 CMS
Runoff	0.12	0.37	49.11	317.86	1005.81	820.41	207.05	20.77	18.49	15.32	4.20	0.00	2459.50 MCM
Momentary Peak	668.20 CMS, at 135.44 m. (MSL), at 05.00 Hours, on Aug 22, 2011												
Runoff Yield	23.15		Liters/Second/Square KM.		Momentary Peak Yield		198.928	Liters/Second/Square KM.					

WATER YEAR : 2011

MUN RIVER BASIN

Mun River at Ban Dan Taka, Nakhon Ratchasima (M.2A)

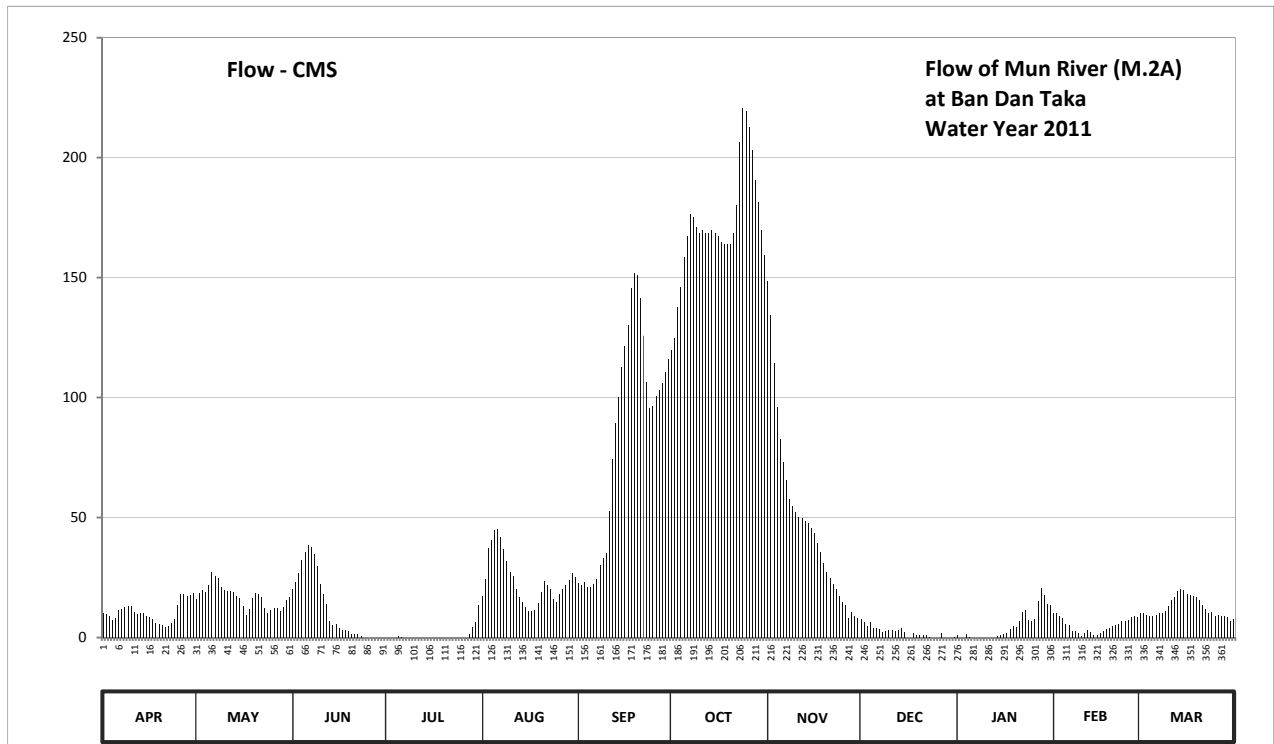
Lat 14 - 57 - 57 N Long 102 - 14 - 38 E

Location : on left bank at Ban Dan Taka.

	Ban	Dan Taka	Amphoe	Chaloem Phra Kiat	Changwat	Nakhon Ratchasima
Drainage Area	4,724	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+161.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank downstream at the footpath.				Elevation	+169.284 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2001 to date					
Rating Operation						
Period of Rating	2001 to date					
Rated by Flot	-					
Rated by Current Meter	2001 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	163.41	163.55	163.65	162.87	163.58	163.72	166.52	167.02	163.32	163.05	163.41	163.41	
2	163.39	163.61	163.73	162.84	163.76	163.70	166.63	166.82	163.28	162.96	163.41	163.40	
3	163.37	163.64	163.82	162.87	164.08	163.73	166.88	166.39	163.23	163.00	163.36	163.38	
4	163.31	163.62	163.96	162.94	164.17	163.68	166.99	165.83	163.28	163.07	163.34	163.36	
5	163.34	163.70	164.04	163.04	164.26	163.68	167.13	165.33	163.20	163.02	163.25	163.37	
6	163.44	163.83	164.11	163.01	164.27	163.71	167.21	164.95	163.19	162.95	163.24	163.38	
7	163.45	163.79	164.09	162.99	164.20	163.76	167.28	164.71	163.17	162.89	163.14	163.40	
8	163.47	163.77	164.02	162.97	164.07	163.90	167.27	164.55	163.12	162.87	163.13	163.40	
9	163.48	163.68	163.89	162.95	163.95	163.98	167.24	164.48	163.14	162.86	163.09	163.43	
10	163.48	163.64	163.71	162.89	163.83	164.03	167.22	164.43	163.16	162.86	163.04	163.48	
11	163.42	163.63	163.60	162.77	163.79	164.44	167.23	164.38	163.15	162.90	163.09	163.54	
12	163.39	163.63	163.50	162.67	163.65	164.99	167.22	164.37	163.13	162.89	163.15	163.57	
13	163.40	163.62	163.29	162.69	163.57	165.60	167.22	164.35	163.15	162.96	163.11	163.63	
14	163.40	163.58	163.24	162.74	163.52	165.97	167.23	164.33	163.19	163.03	163.05	163.66	
15	163.37	163.56	163.26	162.76	163.47	166.35	167.22	164.28	163.12	163.06	163.06	163.64	
16	163.35	163.48	163.19	162.78	163.43	166.55	167.21	164.23	162.87	163.07	163.09	163.60	
17	163.32	163.38	163.15	162.84	163.43	166.74	167.19	164.13	162.97	163.10	163.13	163.59	
18	163.27	163.45	163.16	162.85	163.44	166.98	167.18	164.04	163.09	163.17	163.18	163.58	
19	163.26	163.56	163.13	162.89	163.51	167.06	167.18	163.93	163.06	163.22	163.20	163.57	
20	163.24	163.61	163.08	162.96	163.62	167.05	167.18	163.83	163.05	163.21	163.22	163.54	
21	163.21	163.60	163.07	162.99	163.74	166.93	167.22	163.77	163.05	163.30	163.24	163.49	
22	163.22	163.57	163.07	162.94	163.70	166.65	167.31	163.71	163.05	163.42	163.26	163.45	
23	163.27	163.46	163.03	162.93	163.65	166.17	167.49	163.65	163.02	163.44	163.29	163.41	
24	163.32	163.41	162.89	162.89	163.55	165.82	167.58	163.58	162.92	163.31	163.30	163.42	
25	163.49	163.44	162.86	162.94	163.52	165.84	167.57	163.52	162.91	163.30	163.31	163.37	
26	163.60	163.46	162.84	162.96	163.60	165.98	167.53	163.49	162.94	163.32	163.35	163.38	
27	163.60	163.46	162.84	162.96	163.65	166.07	167.47	163.34	163.10	163.53	163.37	163.37	
28	163.58	163.43	162.96	163									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.40	16.00	20.00	0.00	17.20	22.80	119.90	148.60	7.60	1.00	10.40	10.40	
2	9.70	18.40	23.20	0.00	24.40	22.00	124.85	134.20	6.40	0.00	10.40	10.00	
3	9.10	19.60	26.80	0.00	37.20	23.20	137.80	114.15	4.90	0.00	8.80	9.40	
4	7.30	18.80	32.40	0.00	40.80	21.20	146.20	95.90	6.40	1.40	8.20	8.80	
5	8.20	22.00	35.60	0.80	44.70	21.20	158.30	82.75	4.00	0.40	5.50	9.10	
6	11.60	27.20	38.40	0.20	45.15	22.40	167.30	73.25	3.80	0.00	5.20	9.40	
7	12.00	25.60	37.60	0.00	42.00	24.40	176.40	65.50	3.40	0.00	2.80	10.00	
8	12.80	24.80	34.80	0.00	36.80	30.00	175.10	57.75	2.40	0.00	2.60	10.00	
9	13.20	21.20	29.60	0.00	32.00	33.20	171.20	54.60	2.80	0.00	1.80	11.20	
10	13.20	19.60	22.40	0.00	27.20	35.20	168.60	52.35	3.20	0.00	0.80	13.20	
11	10.80	19.20	18.00	0.00	25.60	52.80	169.90	50.10	3.00	0.00	1.80	15.60	
12	9.70	19.20	14.00	0.00	20.00	74.25	168.60	49.65	2.60	0.00	3.00	16.80	
13	10.00	18.80	6.70	0.00	16.80	89.50	168.60	48.75	3.00	0.00	2.20	19.20	
14	10.00	17.20	5.20	0.00	14.80	100.10	169.90	47.85	3.80	0.60	1.00	20.40	
15	9.10	16.40	5.80	0.00	12.80	112.75	168.60	45.60	2.40	1.20	1.20	19.60	
16	8.50	13.20	3.80	0.00	11.20	121.25	167.30	43.35	0.00	1.40	1.80	18.00	
17	7.60	9.40	3.00	0.00	11.20	130.00	164.90	39.20	0.00	2.00	2.60	17.60	
18	6.10	12.00	3.20	0.00	11.60	145.40	163.80	35.60	1.80	3.40	3.60	17.20	
19	5.80	16.40	2.60	0.00	14.40	151.80	163.80	31.20	1.20	4.60	4.00	16.80	
20	5.20	18.40	1.60	0.00	18.80	151.00	163.80	27.20	1.00	4.30	4.60	15.60	
21	4.30	18.00	1.40	0.00	23.60	141.40	168.60	24.80	1.00	7.00	5.20	13.60	
22	4.60	16.80	1.40	0.00	22.00	125.75	180.30	22.40	1.00	10.80	5.80	12.00	
23	6.10	12.40	0.60	0.00	20.00	106.45	206.40	20.00	0.40	11.60	6.70	10.40	
24	7.60	10.40	0.00	0.00	16.00	95.60	220.80	17.20	0.00	7.30	7.00	10.80	
25	13.60	11.60	0.00	0.00	14.80	96.20	219.20	14.80	0.00	7.00	7.30	9.10	
26	18.00	12.40	0.00	0.00	18.00	100.40	212.80	13.60	0.00	7.60	8.50	9.40	
27	18.00	12.40	0.00	0.00	20.00	103.10	203.20	8.20	2.00	15.20	9.10	9.10	
28	17.20	11.20	0.00	1.40	22.00	106.10	190.70	10.80	0.00	20.80	8.50	8.80	
29	17.60	12.80	0.00	4.30	24.00	110.65	181.60	9.10	0.00	17.60	10.00	8.50	
30	18.40	15.60	0.00	6.40	26.80	115.85	169.90	8.20	0.00	14.00		7.00	
31		16.80		13.60	25.20		159.40		0.20	13.6			

WATER YEAR : 2011

MUN RIVER BASIN

Mun River at Ban Phong Sawai, Surin (M.4)

Lat 15 - 19 - 30 N Long 103 - 40 - 59 E

Location : on left bank at the bridge on highway.

	Ban	Phong Sawai	Amphoe	Tha Tum	Changwat	Surin
Drainage Area	34,654	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+117.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+128.995 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1996-1997, 2005 to date					
Rating Operation						
Period of Rating	1996-1997, 2005 to date					
Rated by Flot	-					
Rated by Current Meter	1996-1997, 2005 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 30 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.67	117.56	118.59	118.30	118.90	121.77	124.44	125.20	121.58	118.11	117.86	117.47	
2	117.67	117.59	118.54	118.11	118.94	121.94	124.53	125.09	121.36	118.10	117.86	117.45	
3	117.66	117.58	118.67	118.00	118.98	122.12	124.60	124.99	121.15	118.09	117.84	117.43	
4	117.66	117.58	118.81	117.94	119.05	122.26	124.68	124.90	120.93	118.09	117.82	117.40	
5	117.66	117.58	118.69	117.90	119.15	122.36	124.77	124.79	120.74	118.09	117.82	117.36	
6	117.66	117.56	118.75	117.86	119.18	122.45	124.86	124.69	120.55	118.07	117.86	117.33	
7	117.66	117.54	118.77	117.82	119.08	122.49	124.94	124.59	120.38	118.07	117.92	117.31	
8	117.65	117.54	118.71	117.77	118.96	122.48	124.99	124.50	120.21	118.06	117.94	117.31	
9	117.65	117.54	118.43	117.72	118.89	122.48	125.02	124.41	120.04	118.06	117.89	117.31	
10	117.64	117.55	118.52	117.69	118.86	122.45	125.04	124.33	119.84	118.03	117.87	117.30	
11	117.63	117.55	118.75	117.70	118.83	122.38	125.04	124.25	119.56	118.02	117.86	117.26	
12	117.63	117.54	118.99	117.70	118.80	122.42	125.04	124.17	119.31	118.01	117.85	117.24	
13	117.62	117.54	119.18	117.70	118.78	122.54	125.09	124.10	119.06	117.98	117.81	117.23	
14	117.62	117.54	119.33	117.69	118.80	122.69	125.13	124.02	118.86	117.98	117.80	117.23	
15	117.62	117.54	119.33	117.70	118.81	122.85	125.20	123.94	118.62	117.98	117.80	117.23	
16	117.62	117.59	119.22	117.72	118.75	122.98	125.23	123.87	118.47	117.98	117.79	117.23	
17	117.61	117.72	119.20	117.79	118.76	123.08	125.30	123.77	118.43	117.98	117.83	117.23	
18	117.61	117.83	119.29	117.86	118.96	123.17	125.33	123.66	118.41	117.98	117.87	117.23	
19	117.61	117.90	119.29	117.92	119.51	123.23	125.35	123.56	118.37	117.96	117.86	117.23	
20	117.61	118.04	119.31	118.03	120.26	123.31	125.37	123.46	118.33	117.95	117.82	117.25	
21	117.61	118.32	119.30	118.18	120.81	123.37	125.37	123.34	118.27	117.95	117.76	117.24	
22	117.60	118.41	119.18	118.33	121.08	123.51	125.42	123.21	118.27	117.96	117.70	117.22	
23	117.60	118.27	118.95	118.46	121.17	123.63	125.48	123.08	118.27	117.96	117.66	117.21	
24	117.58	118.31	118.69	118.59	121.22	123.74	125.54	122.94	118.25	117.95	117.61	117.20	
25	117.58	118.46	118.53	118.76	121.23	123.85	125.58	122.77	118.21	117.94	117.58	117.20	
26	117.58	118.66	118.47	118.92	121.22	123.95	125.59	122.59	118.17	117.94	117.55	117.50	
27	117.59	118.63	118.46	119.04	121.26	124.08	125.56	122.40	118.15	117.93	117.55	117.84	
28	117.57	118.56	118.46	119									

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.40	7.20	53.30	33.50	75.00	359.70	967.00	1486.00	336.00	24.90	14.80	5.40	
2	9.40	7.80	49.80	24.90	77.80	381.00	1025.50	1394.00	309.20	24.50	14.80	5.00	
3	9.20	7.60	58.90	20.00	80.60	404.10	1071.00	1324.50	284.00	24.00	14.20	4.60	
4	9.20	7.60	68.70	17.60	85.50	422.30	1123.00	1266.00	257.60	24.00	13.60	4.00	
5	9.20	7.60	60.30	16.00	92.50	435.30	1181.50	1194.50	238.00	24.00	13.60	3.20	
6	9.20	7.20	64.50	14.80	94.60	447.00	1240.00	1129.50	219.00	23.10	14.80	2.60	
7	9.20	6.80	65.90	13.60	87.60	452.20	1292.00	1064.50	202.00	23.10	16.80	2.20	
8	9.00	6.80	61.70	12.10	79.20	450.90	1324.50	1006.00	185.00	22.70	17.60	2.20	
9	9.00	6.80	42.10	10.60	74.30	450.90	1345.00	947.50	168.00	22.70	15.70	2.20	
10	8.80	7.00	48.40	9.80	72.20	447.00	1359.00	899.00	149.60	21.30	15.10	2.00	
11	8.60	7.00	64.50	10.00	70.10	437.90	1359.00	858.50	124.40	20.90	14.80	1.20	
12	8.60	6.80	81.30	10.00	68.00	443.10	1359.00	822.50	103.80	20.50	14.50	0.80	
13	8.40	6.80	94.60	10.00	66.60	459.10	1394.00	791.00	86.20	19.20	13.30	0.60	
14	8.40	6.80	105.40	9.80	68.00	480.10	1426.50	759.00	72.20	19.20	13.00	0.60	
15	8.40	6.80	105.40	10.00	68.70	502.50	1486.00	730.00	55.40	19.20	13.00	0.60	
16	8.40	7.80	97.40	10.60	64.50	520.70	1511.50	707.00	44.90	19.20	12.70	0.60	
17	8.20	10.60	96.00	12.70	65.20	534.70	1571.00	677.60	42.10	19.20	13.90	0.60	
18	8.20	13.90	102.30	14.80	79.20	548.70	1596.50	647.20	40.70	19.20	15.10	0.60	
19	8.20	16.00	102.30	16.80	119.90	558.80	1613.50	623.00	38.10	18.40	14.80	0.60	
20	8.20	21.80	103.80	21.30	190.00	573.00	1630.50	603.00	35.40	18.00	13.60	1.00	
21	8.20	34.80	103.00	28.10	245.00	585.00	1630.50	579.00	32.10	18.00	11.80	0.80	
22	8.00	40.70	94.60	35.40	275.60	613.00	1673.00	555.30	32.10	18.40	10.00	0.40	
23	8.00	32.10	78.50	44.20	286.40	639.10	1724.00	534.70	32.10	18.40	9.20	0.20	
24	7.60	34.10	60.30	53.30	292.40	669.20	1775.00	515.10	31.20	18.00	8.20	0.00	
25	7.60	44.20	49.10	65.20	293.60	701.00	1809.00	491.30	29.40	17.60	7.60	0.00	
26	7.60	58.20	44.90	76.40	292.40	733.50	1817.50	466.10	27.60	17.60	7.00	6.00	
27	7.80	56.10	44.20	84.80	297.20	783.00	1792.00	440.50	26.70	17.20	7.00	14.20	
28	7.40	51.20	44.20	87.60	308.00	822.50	1749.50	414.50	25.40	16.00	6.80	13.90	
29	7.20	48.40	51.90	82.00	320.00	867.50	1690.00	389.80	24.90	16.00	6.60	13.90	
30	7.20	49.10											

WATER YEAR : 2011

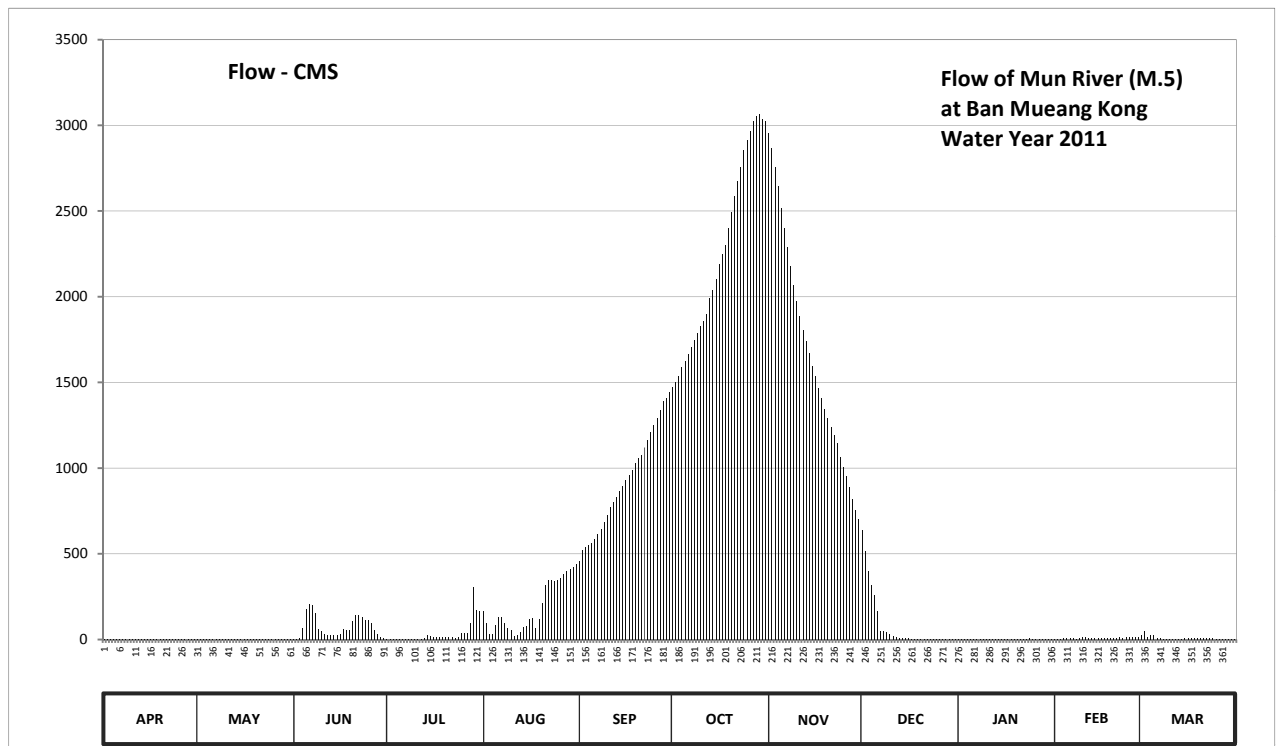
MUN RIVER BASIN

Mun River at Ban Mueang Kong, Si Sa Ket (M.5)

Lat 15 - 20 - 16 N Long 104 - 09 - 21 E

Location : on left bank infront of Amphoe Rasi Salai Office.

	Ban	Mueang Kong		Amphoe	Rasi Salai		Changwat	Si Sa Ket					
Drainage Area	45,295	sq.km.											
Type of Gage	Staff gage.												
Zero Gage at Bottom	+110.000	m. (MSL.)											
Bench Mark	B.M.-H.D.												
Location BM	On left bank downstream side at the footpath of the bridge.						Elevation	+124.814 m. (MSL.)					
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.												
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings												
Period of Available Gage Records	1995 to date												
Rating Operation													
Period of Rating	1972 to date												
Rated by Flot	-												
Rated by Current Meter	1972 to date												
Stability of Channel Regimes	Stable.												
Overbank Flow Conditions	No overbank flow.												
General Description	Records very good. Flow effected by Rasi Salai barrage about 10 kilometers above gage site.												
	Stage-discharge relation defined by 35 discharge measurements made in 2011.												
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.04	110.12	110.11	110.14	112.28	114.99	119.61	121.41	116.24	110.15	110.10	110.57	
2	110.04	110.12	110.10	110.13	111.55	115.46	119.68	121.35	115.44	110.15	110.10	110.95	
3	110.04	110.12	110.32	110.14	110.67	115.59	119.76	121.27	114.48	110.14	110.10	110.45	
4	110.03	110.12	111.24	110.12	110.67	115.69	119.87	121.19	113.74	110.13	110.22	110.63	
5	110.03	110.12	112.35	110.12	111.46	115.78	119.94	121.08	113.16	110.13	110.30	110.62	
6	110.02	110.12	112.64	110.11	111.93	115.92	120.02	120.98	112.29	110.13	110.29	110.33	
7	110.02	110.11	112.60	110.11	111.93	116.10	120.09	120.87	110.96	110.12	110.21	110.30	
8	110.02	110.11	112.13	110.12	111.56	116.27	120.17	120.76	110.97	110.12	110.12	110.13	
9	110.02	110.10	111.20	110.12	111.22	116.50	120.24	120.63	110.84	110.12	110.22	110.13	
10	110.01	110.10	111.01	110.11	111.12	116.77	120.31	120.52	110.68	110.12	110.36	110.13	
11	110.01	110.11	110.64	110.11	110.51	117.05	120.36	120.41	110.51	110.11	110.36	110.12	
12	110.11	110.11	110.57	110.10	110.59	117.19	120.42	120.27	110.38	110.11	110.34	110.12	
13	110.14	110.11	110.54	110.30	110.85	117.33	120.54	120.16	110.35	110.11	110.32	110.12	
14	110.14	110.12	110.59	110.54	111.35	117.48	120.60	120.03	110.31	110.11	110.32	110.19	
15	110.13	110.12	110.57	110.46	111.41	117.63	120.68	119.89	110.27	110.11	110.32	110.25	
16	110.13	110.12	110.71	110.44	111.78	117.78	120.77	119.76	110.21	110.11	110.32	110.23	
17	110.12	110.12	111.19	110.42	111.88	117.92	120.83	119.60	110.17	110.11	110.32	110.22	
18	110.14	110.12	111.14	110.38	111.26	118.04	120.88	119.45	110.13	110.10	110.32	110.23	
19	110.16	110.12	111.15	110.36	111.79	118.21	120.98	119.29	110.12	110.10	110.32	110.25	
20	110.16	110.11	111.69	110.36	112.71	118.34							



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.30	4.00	3.80	4.50	168.00	458.80	1469.50	2954.00	640.60	4.80	3.50	24.90	
2	2.30	4.00	3.50	4.20	95.00	519.80	1501.00	2870.00	517.20	4.80	3.50	48.50	
3	2.30	4.00	9.90	4.50	31.60	537.60	1537.00	2758.00	397.80	4.50	3.50	16.80	
4	2.10	4.00	65.60	4.00	31.60	551.60	1586.50	2648.00	317.70	4.20	6.60	28.90	
5	2.10	4.00	175.00	4.00	86.00	565.80	1622.00	2516.00	256.80	4.20	9.00	28.20	
6	1.90	4.00	204.00	3.80	133.00	588.20	1666.00	2400.00	169.00	4.20	8.70	10.30	
7	1.90	3.80	200.00	3.80	133.00	617.50	1704.50	2290.00	48.80	4.00	6.30	9.00	
8	1.90	3.80	153.00	4.00	96.00	645.50	1748.50	2180.00	49.10	4.00	4.00	4.20	
9	1.90	3.50	62.00	4.00	63.80	683.50	1787.00	2064.00	43.00	4.00	6.60	4.20	
10	1.70	3.50	50.30	3.80	54.80	728.00	1826.00	1976.00	32.30	4.00	11.70	4.20	
11	1.70	3.80	29.60	3.80	20.90	775.00	1856.00	1888.00	20.90	3.80	11.70	4.00	
12	3.80	3.80	24.90	3.50	26.20	802.90	1896.00	1803.50	12.60	3.80	10.80	4.00	
13	4.50	3.80	22.90	9.00	43.60	832.30	1992.00	1743.00	11.20	3.80	9.90	4.00	
14	4.50	4.00	26.20	22.90	75.50	863.80	2040.00	1671.50	9.40	3.80	9.90	5.80	
15	4.20	4.00	24.90	17.50	81.00	895.30	2104.00	1595.50	8.10	3.80	9.90	7.50	
16	4.20	4.00	34.30	16.20	118.00	928.40	2190.00	1537.00	6.30	3.80	9.90	6.90	
17	4.00	4.00	61.10	14.80	128.00	960.60	2250.00	1465.00	5.30	3.80	9.90	6.60	
18	4.50	4.00	56.60	12.60	67.40	988.20	2300.00	1406.20	4.20	3.50	9.90	6.90	
19	5.00	4.00	57.50	11.70	119.00	1027.50	2400.00	1346.50	4.00	3.50	9.90	7.50	
20	5.00	3.80	109.00	11.70	211.00	1060.00	2492.00	1290.50	4.00	3.50	9.40	7.50	
21	5.30	3.50	145.00	11.70	316.70	1077.80	2588.00	1241.20	3.80	3.50	10.30	7.20	
22	5.30	3.50	143.00	11.70	347.20	1120.40	2674.00	1191.00	3.80	3.50	14.80	6.90	
23	5.50	3.50	129.00	10.80	349.40	1164.50	2758.00	1143.80	3.80	4.20	11.20	6.90	
24	5.30	3.80	116.00	12.20	339.70	1208.70	2856.00	1062.50	4.00	7.50	11.70	6.30	
25	5.00	3.80	111.00	35.60	343.90	1250.00	2912.00	1006.60	5.00	5.30	12.20	5.50	
26	5.00	3.50	98.00	36.90	361.50	1290.50	2968.00	953.70	5.00	4.00	12.60	5.30	
27	5.00	3.50	52.70	36.90	383.50	1339.50	3024.00	886.90	5.00	4.00	12.60	5.00	
28	5.00	3.30	30.90	97.00	400.00	1391.30	3052.00	817.60	5.00	3.80	13.00	3.10	
29	4.50	3.30	12.60	304.10	408.40	1406.20	3066.00	757.70	4.80	3.80	13.00	2.90	
30	4.00	3.30	9.40	171.00	421.60	1441.00	303						

WATER YEAR : 2011

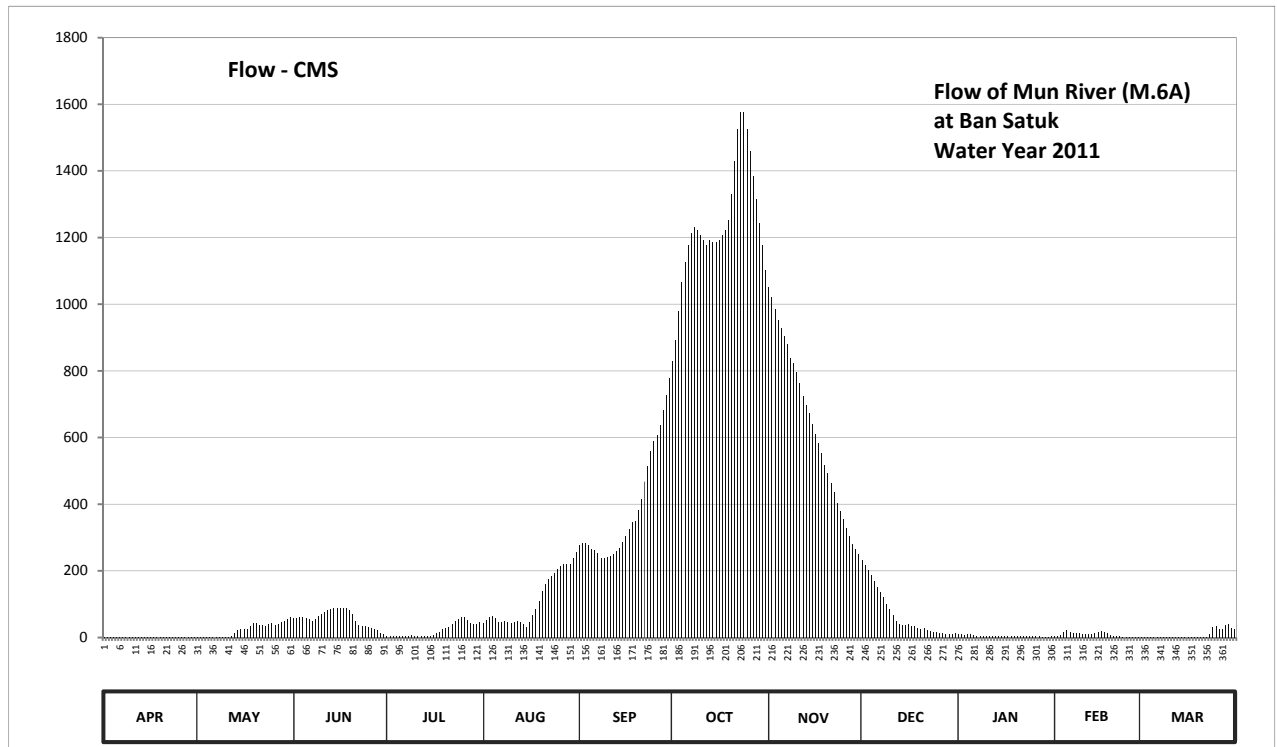
MUN RIVER BASIN

Mun River at Ban Satuk, Buri Ram (M.6A)

Lat 15 - 17 - 53 N Long 103 - 17 - 46 E

Location : on right bank at Satuk.

[illegible]



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	0.60	57.50	5.80	44.50	277.80	828.50	1050.00	232.20	11.00	3.40	1.20		
2	0.60	0.60	58.00	3.70	53.50	284.80	893.00	1021.00	216.00	9.00	3.30	1.00		
3	0.60	0.60	60.50	5.20	62.50	283.40	979.00	986.00	201.00	7.40	6.10	1.00		
4	0.60	0.60	60.50	4.90	65.50	276.40	1065.00	953.00	186.50	9.00	16.60	1.00		
5	0.60	0.60	59.00	5.80	59.00	265.40	1125.00	929.00	170.30	9.00	21.00	1.00		
6	0.60	0.60	55.00	5.20	47.00	261.50	1177.50	905.00	152.60	7.40	17.00	1.00		
7	0.60	0.60	49.50	3.60	45.50	255.00	1215.00	881.00	137.20	5.80	12.20	1.00		
8	0.60	0.60	56.00	4.30	51.00	239.40	1230.00	839.50	119.70	5.20	13.00	1.00		
9	0.60	0.70	64.50	6.70	46.50	239.40	1222.50	823.00	101.40	4.30	13.80	0.90		
10	0.60	0.70	71.50	5.80	44.50	243.00	1207.50	795.50	84.60	3.70	11.00	0.90		
11	0.60	0.80	77.40	4.00	46.00	245.40	1192.50	763.50	67.50	3.60	9.00	0.90		
12	0.60	3.60	82.20	3.40	48.00	251.40	1177.50	724.10	48.50	3.40	10.60	0.90		
13	0.60	13.40	84.00	3.30	47.50	258.90	1192.50	698.30	41.50	3.40	10.60	0.90		
14	0.60	21.40	87.60	4.00	39.50	269.40	1185.00	672.50	37.50	3.40	13.40	0.90		
15	0.60	27.00	89.40	5.80	31.80	287.60	1185.00	640.20	37.50	3.60	17.00	0.90		
16	0.60	27.00	89.40	8.20	45.50	305.00	1192.50	611.40	41.50	4.00	18.20	0.90		
17	0.60	25.80	88.20	12.60	66.50	326.20	1207.50	582.60	34.60	4.00	16.60	0.90		
18	0.60	33.80	88.80	17.00	84.00	347.10	1222.50	553.40	33.40	4.00	12.20	0.90		
19	0.60	42.00	82.80	25.80	109.90	349.00	1252.50	518.20	27.40	3.80	7.80	0.90		
20	0.60	44.00	70.00	29.80	140.00	381.30	1332.00	492.60	26.20	3.70	5.20	0.90		
21	0.60	39.00	50.00	31.80	159.50	415.60	1430.00	461.80	29.00	3.60	3.80	0.90		
22	0.60	36.50	38.50	39.50	176.60	467.40	1525.00	436.60	23.40	3.40	3.10	1.00		
23	0.60	34.20	35.50	48.00	185.60	515.00	1577.50	402.40	18.20	3.70	2.50	11.00		
24	0.60	40.00	33.80	56.00	193.70	559.80	1577.50	379.40	16.20	4.00	1.90	30.20		
25	0.60	42.00	31.40	60.50	204.00	589.80	1525.00	354.70	15.40	3.80	1.70	35.00		
26	0.60	38.00	28.60	60.00	215.00	607.80	1458.50	330.00	13.80	3.70	1.60	27.00		
27	0.60	41.00	26.60	53.50	220.00	636.60	1385.00	305.00	12.20	3.10	1.40	26.20		
28	0.60	46.50	23.00	44.50	221.10	681.10	1316.00	282.00	11.40	2.30	1.30	37.50		
29	0.60	51.00	15.00	41.00	221.10	728.40	1245.00	265.40	10.60	2.20	1.20	41.00		
30	0.60	56.50	9.00	41.50	239.40	779.40	1177.50	250.20	9.80	2.70		29.80		
31		60.00		46.50	257.60		1102.50		12.20	3.60		24.20		
Total	18.00	729.70	1723.20	687.70	3471.80	11628.30	38402.00	18907.30	2169.30	144.80	256.50	282.80	78421.40	CMSDAY
Mean	0.60	23.50	57.40	22.20	112.00	387.60	1238.80	630.20	70.00	4.70	8.80	9.10	214.30	CMS
Max	0.60	60.00	89.40	60.50	257.60	779.40	1577.50	1050.00	232.20	11.00	21.00	41.00	1577.50	CMS
Min	0.60	0.60	9.00	3.30	31.80	239.40	828.50	250.20	9.80	2.20	1.20	0.90	0.60	CMS
Runoff	1.56	63.05	148.88	59.42	299.96	1004.69	3317.93	1633.59	187.43	12.51	22.16	24.43	6775.61	MCM
Momentary Peak	1588.01 CMS. at 130.96 m. (MSL.) at 12.00 Hours , on Oct 23, 2011													
Runoff Yield	7.53	Liters/Second/Square KM.					Momentary Peak Yield	55,802	Liters/Second/Square KM.					

WATER YEAR : 2011

MUN RIVER BASIN

Mun River at Ban Chumchondee, Ubon Ratchathani (M.7)

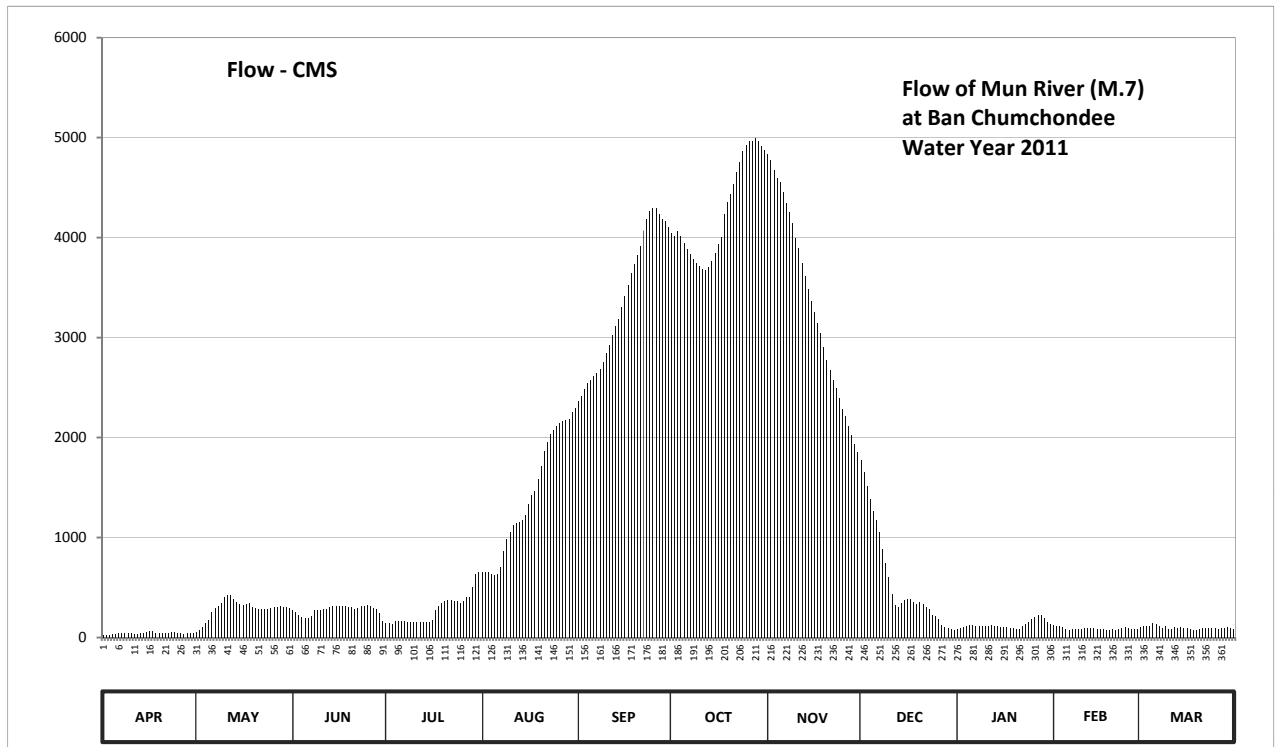
Lat 15 - 13 - 15 N Long 104 - 51 - 41 E

Location : on left bank at Seri Prachathipatai Bridge.

	Ban	Chumchondee	Amphoe	Mueang	Changwat	Ubon Ratchathani
Drainage Area	107,345	sq.km.				
Type of Gage	Water - stage recoder					
Zero Gage at Bottom	+105.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of 200 years Krung Ratanakosin				Elevation	+121.152 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1944 to date					
Rating Operation						
Period of Rating	1956 - 1958, 1964 - 1981, 1983 to date					
Rated by Flot	-					
Rated by Current Meter	1956 - 1958, 1964 - 1981, 1983 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +113.520 m.(MSL.), records are channel flow only.					
General Description	Records very good. Pak Mun barrage situated about 90 kilometers downstream from the gage site. Stage-discharge relation defined by 38 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.52	106.82	107.65	107.19	108.74	112.00	114.08	114.69	111.03	106.93	107.09	107.01	
2	106.51	106.91	107.61	107.16	108.74	112.08	114.06	114.64	110.82	106.97	107.07	107.06	
3	106.54	107.02	107.50	107.13	108.73	112.20	114.10	114.57	110.58	107.01	107.05	107.04	
4	106.70	107.19	107.42	107.25	108.69	112.30	114.06	114.50	110.33	107.06	107.02	107.06	
5	106.72	107.29	107.36	107.27	108.65	112.36	114.00	114.47	110.09	107.09	106.96	107.17	
6	106.74	107.60	107.36	107.27	108.69	112.42	113.94	114.40	109.91	107.10	106.91	107.15	
7	106.76	107.74	107.45	107.24	108.85	112.48	113.89	114.31	109.68	107.07	106.92	107.04	
8	106.77	107.79	107.67	107.21	109.26	112.54	113.84	114.24	109.32	107.06	106.94	106.97	
9	106.78	107.89	107.67	107.23	109.53	112.64	113.80	114.16	108.96	107.07	106.96	107.06	
10	106.75	108.10	107.67	107.23	109.67	112.75	113.77	114.04	108.60	107.07	106.96	106.93	
11	106.72	108.15	107.68	107.22	109.80	112.86	113.74	113.95	108.18	107.06	106.97	106.95	
12	106.72	108.14	107.71	107.20	109.85	112.98	113.73	113.80	107.83	107.09	106.97	107.00	
13	106.76	108.02	107.75	107.20	109.87	113.09	113.76	113.67	107.76	107.06	106.97	106.99	
14	106.80	107.94	107.79	107.20	109.92	113.18	113.82	113.54	107.91	107.04	106.97	107.00	
15	106.82	107.86	107.80	107.21	110.01	113.33	113.90	113.41	108.01	107.01	106.95	106.99	
16	106.85	107.84	107.79	107.31	110.23	113.47	113.99	113.27	108.04	107.03	106.93	106.97	
17	106.85	107.87	107.80	107.66	110.41	113.58	114.05	113.13	108.04	107.02	106.93	106.93	
18	106.80	107.91	107.81	107.80	110.49	113.70	114.23	113.00	107.94	106.99	106.90	106.90	
19	106.76	107.78	107.78	107.91	110.70	113.79	114.32	112.83	107.87	106.97	106.91	106.89	
20	106.74	107.73	107.76	107.97	110.92	113.88	114.38	112.67	107.92	106.96	106.93	106.96	
21	106.76	107.71	107.71	108.00	111.17	113.97	114.46	112.52	107.86	106.96	106.91	106.97	
22	106.77	107.68	107.74	107.99	111.33	114.10	114.55	112.36	107.77	107.04	106.94	106.97	
23	106.83	107.68	107.79	107.95	111.45	114.19	114.63	112.22	107.68	107.13	106.99	106.97	
24	106.81	107.68	107.80	107.96	111.53	114.25	114.71	112.05	107.51	107.21	107.00	106.98	
25	106.78	107.72	107.82	107.91	111.59	114.27	114.76	111.87	107.47	107.33	106.98	106.97	
26	106.74	107.78	107.80	107.97	111.64	114.27	114.79	111.75	107.35	107.43	106.96	106.96	
27	106.72	107.78	107.74	108.07	111.67	114.23	114.79	111.59	107.09	107.50	106.92	106.98	
28	106.76	107.79	107.70	108									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.00	55.00	270.00	147.50	656.00	2360.00	4044.00	4837.00	1778.00	82.50	122.50	102.50	
2	20.50	77.50	258.00	140.00	656.00	2408.00	4018.00	4772.00	1652.00	92.50	117.50	115.00	
3	22.00	105.00	225.00	132.50	652.00	2480.00	4070.00	4681.00	1510.00	102.50	112.50	110.00	
4	35.00	147.50	205.00	162.50	636.00	2540.00	4018.00	4590.00	1385.00	115.00	105.00	115.00	
5	38.00	172.50	190.00	167.50	620.00	2576.00	3940.00	4551.00	1265.00	122.50	90.00	142.50	
6	41.00	255.00	190.00	167.50	636.00	2612.00	3880.00	4460.00	1175.00	125.00	77.50	137.50	
7	44.00	297.00	212.50	160.00	700.00	2648.00	3830.00	4343.00	1060.00	117.50	80.00	110.00	
8	45.50	312.00	276.00	152.50	864.00	2684.00	3780.00	4252.00	888.00	115.00	85.00	92.50	
9	47.00	342.00	276.00	157.50	985.00	2752.00	3740.00	4148.00	744.00	117.50	90.00	115.00	
10	42.50	410.00	276.00	157.50	1055.00	2840.00	3710.00	3992.00	600.00	117.50	90.00	82.50	
11	38.00	427.50	279.00	155.00	1120.00	2928.00	3680.00	3890.00	438.00	115.00	92.50	87.50	
12	38.00	424.00	288.00	150.00	1145.00	3024.00	3670.00	3740.00	324.00	122.50	92.50	100.00	
13	44.00	382.00	300.00	150.00	1155.00	3112.00	3700.00	3610.00	303.00	115.00	92.50	97.50	
14	50.00	357.00	312.00	150.00	1180.00	3184.00	3760.00	3480.00	348.00	110.00	92.50	100.00	
15	55.00	333.00	315.00	152.50	1225.00	3304.00	3840.00	3368.00	378.50	102.50	87.50	97.50	
16	62.50	327.00	312.00	177.50	1335.00	3416.00	3930.00	3256.00	389.00	107.50	82.50	92.50	
17	62.50	336.00	315.00	273.00	1425.00	3520.00	4005.00	3144.00	389.00	105.00	82.50	82.50	
18	50.00	348.00	318.00	315.00	1465.00	3640.00	4239.00	3040.00	357.00	97.50	75.00	75.00	
19	44.00	309.00	309.00	348.00	1580.00	3730.00	4356.00	2904.00	336.00	92.50	77.50	72.50	
20	41.00	294.00	303.00	366.00	1712.00	3820.00	4434.00	2776.00	351.00	90.00	82.50	90.00	
21	44.00	288.00	288.00	375.00	1862.00	3910.00	4538.00	2672.00	333.00	90.00	77.50	92.50	
22	45.50	279.00	297.00	372.00	1958.00	4070.00	4655.00	2576.00	306.00	110.00	85.00	92.50	
23	57.50	279.00	312.00	360.00	2030.00	4187.00	4759.00	2492.00	279.00	132.50	97.50	92.50	
24	52.50	279.00	315.00	363.00	2078.00	4265.00	4863.00	2390.00	228.00	152.50	100.00	95.00	
25	47.00	291.00	321.00	348.00	2114.00	4291.00	4928.00	2282.00	217.50	182.50	95.00	92.50	
26	41.00	309.00	315.00	366.00	2144.00	4291.00	4967.00	2210.00	187.50	207.50	90.00	90.00	
27	38.00	309.00	297.00	399.50	2162.00	4239.00	4967.00	2114.00	122.50	225.00	80.00	95.00	
28	44.0												

WATER YEAR : 2011

MUN RIVER BASIN

Huai Samran at Ban Nongyaplong, Si Sa ket (M.9)

Lat 15 - 06 - 58 N Long 104 - 19 - 21 E

Location : on right bank at the bridge on Highway.

[illegible]

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.54	0.54	0.54	0.78	0.79	22.40	189.80	224.20	4.79	0.64	0.54	0.46	
2	0.54	0.54	0.54	0.74	0.76	32.80	189.40	203.30	3.66	0.63	0.56	0.47	
3	0.54	0.54	0.52	0.71	0.65	41.90	192.60	179.60	6.37	0.62	0.56	0.47	
4	0.54	0.54	0.52	0.64	0.64	47.00	196.00	158.60	3.85	0.61	0.56	0.47	
5	0.53	0.54	0.52	0.57	0.64	48.20	197.50	131.00	2.33	0.61	0.56	0.47	
6	0.52	0.54	0.61	0.57	0.65	50.30	198.50	112.70	1.67	0.62	0.56	0.47	
7	0.52	0.52	0.68	0.57	0.73	58.70	201.00	97.00	1.21	0.68	0.54	0.47	
8	0.52	0.52	0.66	0.56	0.86	62.60	201.50	84.80	0.98	0.68	0.54	0.47	
9	0.52	0.52	0.52	0.54	0.91	74.20	201.00	74.00	0.79	0.64	0.53	0.47	
10	0.52	0.52	0.52	0.52	0.91	94.20	201.50	63.20	0.72	0.66	0.53	0.47	
11	0.52	0.52	0.52	0.49	0.98	113.40	203.50	54.40	0.69	0.59	0.53	0.45	
12	0.52	0.52	0.53	0.45	1.02	130.20	212.50	46.40	0.68	0.58	0.53	0.39	
13	0.53	0.54	0.61	0.44	1.06	147.00	215.00	39.60	0.68	0.57	0.52	0.38	
14	0.53	0.55	0.68	0.44	1.05	155.00	222.50	35.00	0.68	0.57	0.51	0.38	
15	0.53	0.54	0.59	0.43	1.25	154.60	230.50	29.80	0.68	0.58	0.50	0.44	
16	0.53	0.54	0.52	0.42	1.25	153.80	240.50	25.10	0.67	0.59	0.49	0.43	
17	0.53	0.54	0.52	0.42	1.42	154.20	254.00	20.93	0.66	0.59	0.48	0.43	
18	0.53	0.54	0.52	0.42	1.48	153.00	266.10	19.98	0.65	0.59	0.48	0.43	
19	0.53	0.54	0.52	0.42	1.75	152.60	277.40	18.94	0.64	0.59	0.48	0.43	
20	0.53	0.54	0.52	0.42	2.85	153.00	284.60	17.55	0.64	0.59	0.48	0.45	
21	0.53	0.53	0.52	0.43	4.65	154.20	289.00	16.15	0.64	0.59	0.47	0.40	
22	0.53	0.52	0.52	0.43	5.97	162.60	297.00	14.95	0.63	0.59	0.47	0.38	
23	0.53	0.52	0.52	0.43	6.65	172.60	305.40	13.75	0.63	0.58	0.47	0.42	
24	0.53	0.54	0.56	0.43	6.65	182.20	316.80	12.50	0.62	0.57	0.47	0.43	
25	0.54	0.54	0.89	0.47	6.85	187.80	326.20	11.20	0.62	0.57	0.47	0.43	
26	0.54	0.52	0.93	0.52	7.05	190.60	333.20	9.80	0.63	0.57	0.47	0.43	
27	0.54	0.52	0.88	0.52	8.20	193.40	331.80	8.50	0.66	0.57	0.47	0.43	
28	0.54	0.52	0.87	0.54	9.50	193.80	310.40	7.49	0.67	0.57	0.45	0.43	
29	0.54	0.52	0.81	0.82	10.70	192.60	289.00	6.68	0.63	0.56	0.45	0.43	
30	0.54	0.52	0.79	0.93	12.10	191.00	271.00	5.81	0.63	0.55		0.46	
31		0.53		0.79	14.80		244.00		0.65	0.55		0.44	
Total	15.93	16.47	18.45	16.86	114.77	3819.90	7689.20	174					

WATER YEAR : 2011

MUN RIVER BASIN

Mun River at Ban Pho Tak, Ubon Ratchathani (M.11B)

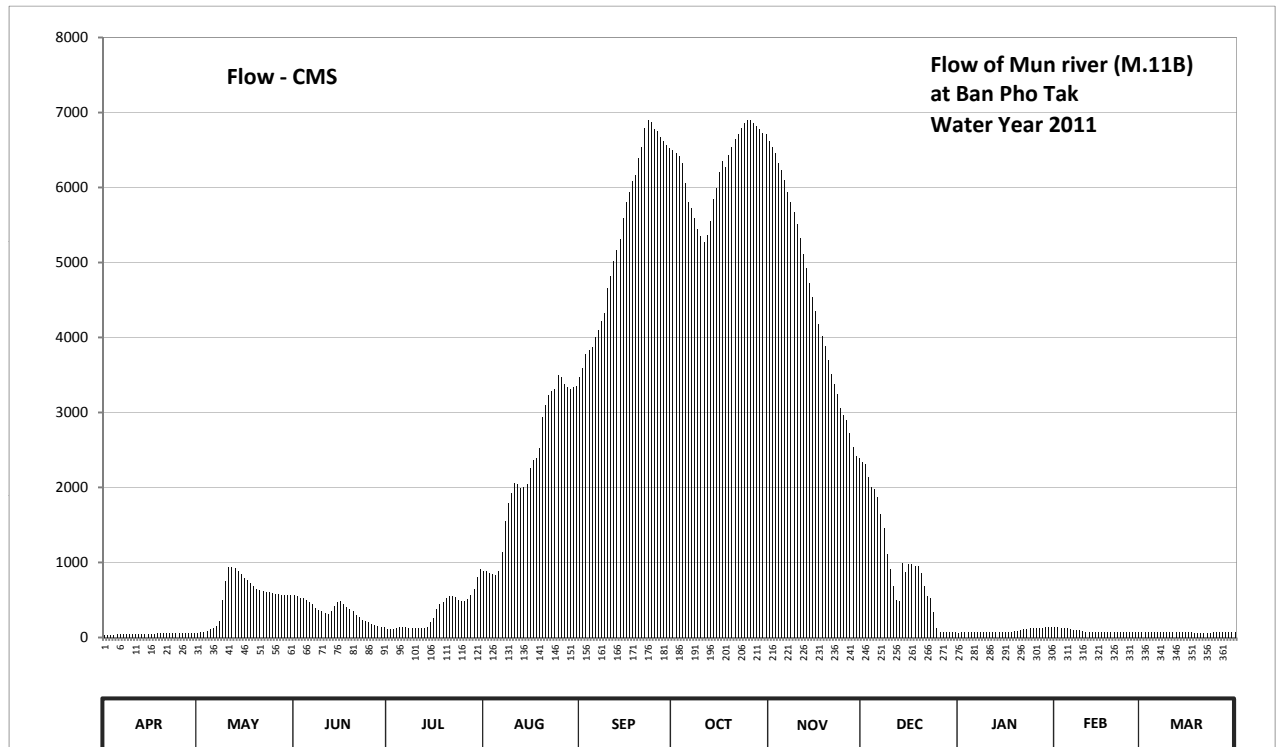
Lat 15 - 15 - 11 N Long 105 - 13 - 53 E

Location : on right bank at the bridge on road.

	Ban	Pho Tak	Amphoe	Phibul Mangsahan	Changwat	Ubon Ratchathani
Drainage Area	115,687	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+104.00	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the footpath of the bridge.				Elevation	+113.192 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 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 2011.					

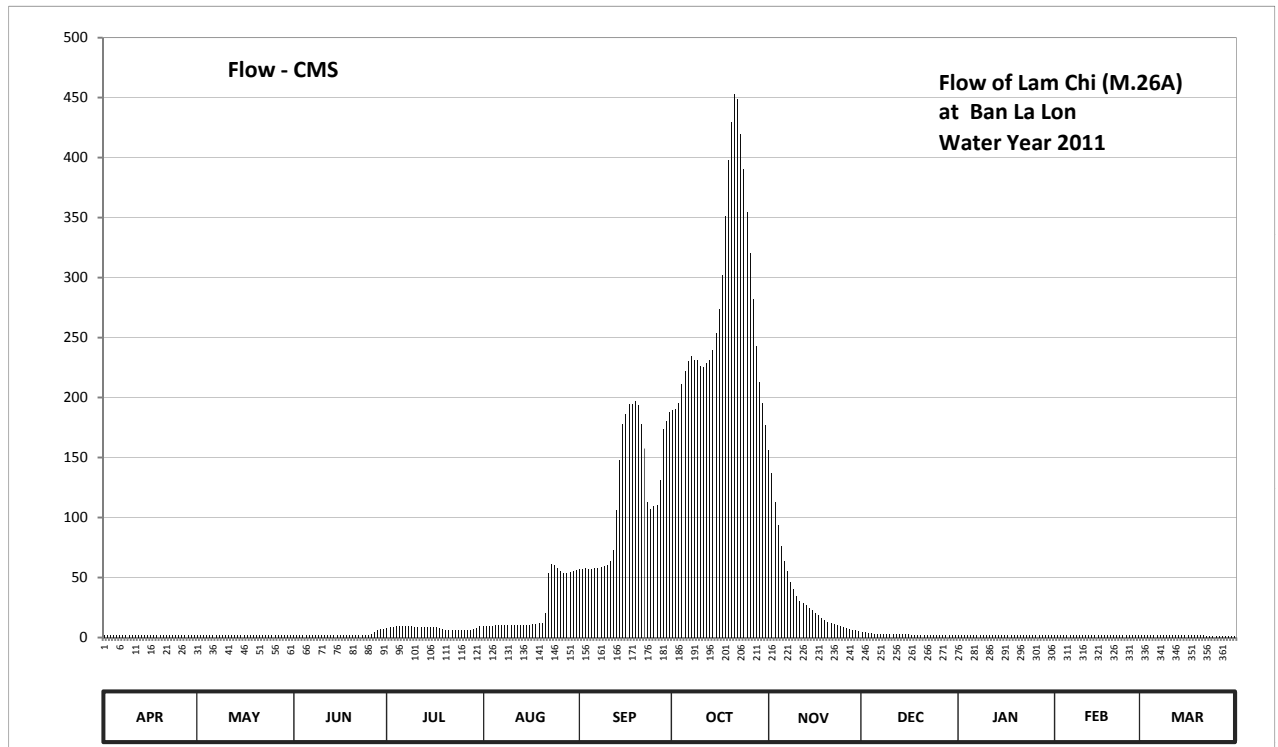
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.35	106.61	107.46	106.89	107.79	109.81	111.40	111.46	109.04	106.66	106.95	106.72	
2	106.35	106.67	107.45	106.88	107.78	109.89	111.38	111.42	109.01	106.67	106.95	106.72	
3	106.36	106.73	107.43	106.88	107.76	110.00	111.36	111.38	108.88	106.67	106.93	106.72	
4	106.37	106.81	107.42	106.92	107.75	110.03	111.32	111.32	108.78	106.68	106.91	106.71	
5	106.40	106.87	107.40	106.95	107.73	110.05	111.19	111.27	108.75	106.68	106.90	106.71	
6	106.42	106.93	107.37	106.95	107.78	110.13	111.07	111.21	108.67	106.69	106.88	106.71	
7	106.43	106.98	107.34	106.94	108.02	110.19	111.03	111.13	108.48	106.69	106.86	106.70	
8	106.45	107.10	107.29	106.91	108.40	110.25	110.96	111.07	108.31	106.70	106.85	106.70	
9	106.46	107.40	107.26	106.90	108.60	110.31	110.89	111.00	107.99	106.70	106.83	106.70	
10	106.47	107.65	107.24	106.91	108.71	110.48	110.84	110.92	107.81	106.71	106.82	106.69	
11	106.47	107.83	107.22	106.91	108.82	110.57	110.80	110.83	107.58	106.72	106.79	106.69	
12	106.48	107.84	107.20	106.90	108.81	110.67	110.85	110.72	107.40	106.72	106.78	106.69	
13	106.48	107.82	107.24	106.91	108.77	110.75	110.94	110.62	107.39	106.73	106.76	106.68	
14	106.49	107.78	107.32	106.96	108.78	110.82	111.09	110.52	107.88	106.74	106.74	106.68	
15	106.49	107.74	107.37	107.07	108.81	110.96	111.16	110.42	107.77	106.75	106.72	106.68	
16	106.50	107.69	107.39	107.14	108.97	111.07	111.26	110.32	107.87	106.75	106.70	106.67	
17	106.51	107.67	107.34	107.27	109.06	111.13	111.33	110.23	107.87	106.76	106.70	106.67	
18	106.52	107.63	107.30	107.34	109.08	111.20	111.29	110.14	107.85	106.78	106.69	106.66	
19	106.52	107.58	107.27	107.37	109.17	111.24	111.37	110.06	107.85	106.81	106.69	106.66	
20	106.53	107.54	107.24	107.42	109.47	111.35	111.42	109.95	107.76	106.82	106.68	106.66	
21	106.55	107.53	107.19	107.45	109.58	111.42	111.47	109.84	107.58	106.85	106.68	106.66	
22	106.56	107.52	107.16	107.45	109.66	111.54	111.50	109.75	107.45	106.87	106.69	106.66	
23	106.58	107.51	107.12	107.44	109.70	111.59	111.54	109.67	107.42	106.89	106.69	106.66	
24	106.59	107.50	107.09	107.40	109.71	111.58	111.57	109.55	107.23	106.90	106.70	106.67	
25	106.59	107.49	107.07	107.38	109.83	111.53	111.59	109.49	106.93	106.90	106.70	106.67	
26	106.59	107.48	107.04	107.38	109.81	111.52	111.59	109.44	106.75	106.91	106.70	106.67	
27	106.59	107.48	107.01	107.41	109.75	111.48	111.57	109.32	106.70	106.92	106.72	106.67	
28	106.59	107.47	106.99	107									



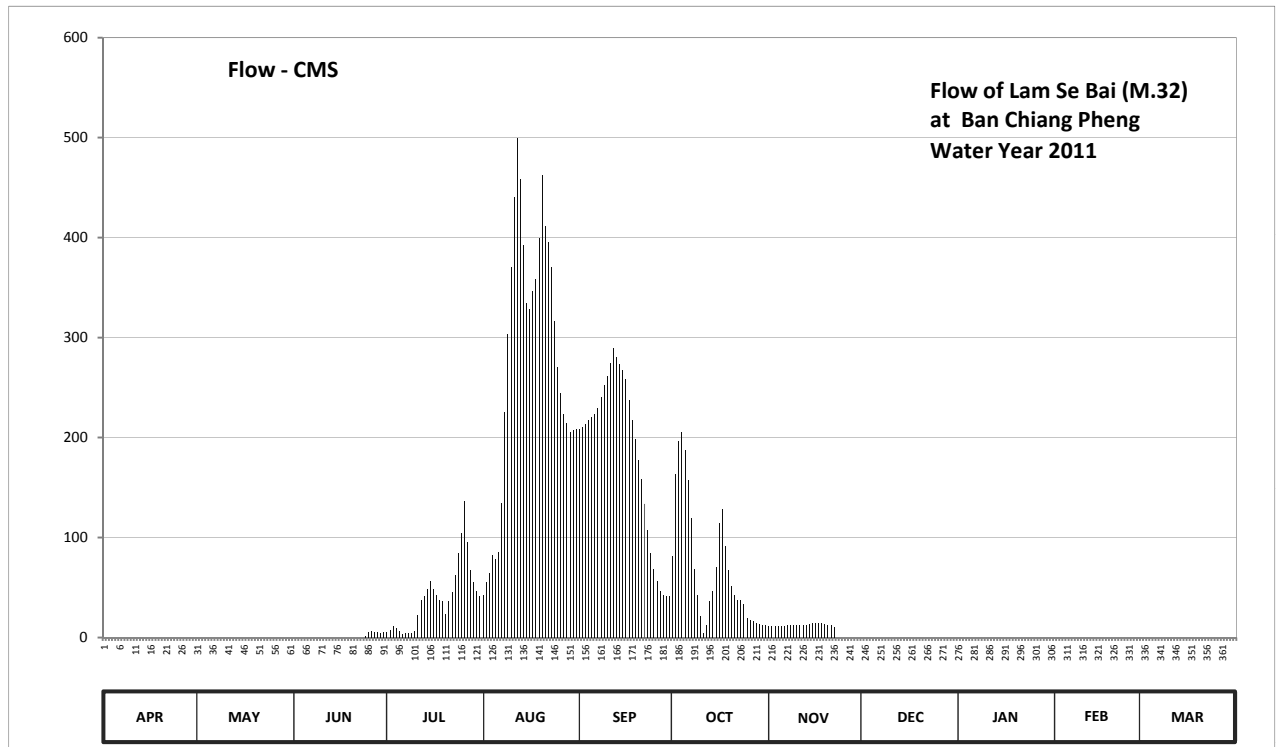
Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.00	61.00	560.00	116.00	890.00	3466.00	6500.00	6626.00	2342.00	66.00	140.00	72.00	
2	35.00	67.00	550.00	112.00	880.00	3594.00	6458.00	6542.00	2303.00	67.00	140.00	72.00	
3	36.00	73.00	530.00	112.00	860.00	3780.00	6416.00	6458.00	2134.00	67.00	132.00	72.00	
4	37.00	84.00	520.00	128.00	850.00	3831.00	6332.00	6332.00	2006.00	68.00	124.00	71.00	
5	40.00	108.00	500.00	140.00	830.00	3865.00	6059.00	6227.00	1970.00	68.00	120.00	71.00	
6	42.00	132.00	470.00	140.00	880.00	4001.00	5810.00	6101.00	1874.00	69.00	112.00	71.00	
7	43.00	152.00	440.00	136.00	1142.00	4103.00	5730.00	5933.00	1648.00	69.00	104.00	70.00	
8	45.00	220.00	391.00	124.00	1560.00	4215.00	5590.00	5810.00	1461.00	70.00	100.00	70.00	
9	46.00	500.00	364.00	120.00	1790.00	4329.00	5450.00	5670.00	1109.00	70.00	92.00	70.00	
10	47.00	750.00	346.00	124.00	1922.00	4652.00	5350.00	5510.00	911.00	71.00	88.00	69.00	
11	47.00	933.00	328.00	124.00	2056.00	4823.00	5270.00	5330.00	680.00	72.00	79.00	69.00	
12	48.00	944.00	310.00	120.00	2043.00	5013.00	5370.00	5110.00	500.00	72.00	78.00	69.00	
13	48.00	922.00	346.00	124.00	1994.00	5170.00	5550.00	4918.00	490.00	73.00	76.00	68.00	
14	49.00	880.00	420.00	144.00	2006.00	5310.00	5850.00	4728.00	988.00	74.00	74.00	68.00	
15	49.00	840.00	470.00	202.00	2043.00	5590.00	5996.00	4538.00	870.00	75.00	72.00	68.00	
16	50.00	790.00	490.00	256.00	2251.00	5810.00	6206.00	4348.00	977.00	75.00	70.00	67.00	
17	51.00	770.00	440.00	373.00	2368.00	5933.00	6353.00	4177.00	977.00	76.00	70.00	67.00	
18	52.00	730.00	400.00	440.00	2394.00	6080.00	6269.00	4018.00	955.00	78.00	69.00	66.00	
19	52.00	680.00	373.00	470.00	2518.00	6164.00	6437.00	3882.00	955.00	84.00	69.00	66.00	
20	53.00	640.00	346.00	520.00	2938.00	6395.00	6542.00	3695.00	860.00	88.00	68.00	66.00	
21	55.00	630.00	301.00	550.00	3100.00	6542.00	6647.00	3514.00	680.00	100.00	68.00	66.00	
22	56.00	620.00	274.00	550.00	3226.00	6794.00	6710.00	3370.00	550.00	108.00	69.00	66.00	
23	58.00	610.00	238.00	540.00	3290.00	6899.00	6794.00	3242.00	520.00	116.00	69.00	66.00	
24	59.00	600.00	214.00	500.00	3306.00	6878.00	6857.00	3055.00	337.00	120.00	70.00	67.00	
25	59.00	590.00	202.00	480.00	3498.00	6773.00	6899.00	2966.00	132.00	120.00	70.00	67.00	
26	59.00	580.00	184.00	480.00	3466.00	6752.00	6899.00	2896.00	75.00	124.00	70.00	67.00	
27	59.00	580.00	166.00	510.00	3370.00	6668.00	6857.00	2728.00	70.00	128.00	72.00	67.00	
28	59.00	570.00	156.00	560.00	3338.00	6626.00	6815.00	2532.00	69.00	132.00	73.00	67.00	
29	59.00	570.00	144.00	650.00	3306.00	6563.00	6773.00	2420.00	69.00	136.00	73.00	67.00	
30	59.00	560.00	136.00	810.00	3338.00	6521.00	6731.00	2394.00	69.00	136.00		68.00	
31	560.00			911.00	3354.00		6710.00		67.00	140.00		68.00	
Total	1487.00	16746.00	10609.00	10566.00	70807.00	163140.00	194230.00	135070.00	28648.00	2812.00	2511.00	2118.00	638744.00 CMSDAY
Mean	49.60	540.20	353.60	340.80	2284.10	5438.00	6265.50	4502.30	924.10	90.70	86.60	68.30	1745.20 CMS
Max	59.00	944.00	560.00	911.00	3498.00	6899.00	6899.00	6626.00	2342.00	140.00	140.00	72.00	6899.00 CMS
Min	35.00	61.00	136.00	112.00	830.00	3466.00	5270.00	2394.00	67.00	66.00	68.00	66.00	35.00 CMS
Runoff	128.48	1446.85	916.62	912.90	6117.73	14095.30	16781.47	11670.05	2475.19	242.96	216.95	183.00	55187.48 MCM
Momentary Peak	6920.00 CMS. at 111.60 m. (MSL.) at 06.00 Hours , on Sep 23 , 2011												
Runoff Yield	15.09	Liters/Second/Square KM.			Momentary Peak Yield			59.817	Liters/Second/Square KM.				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.66	1.66	1.74	7.80	9.50	57.00	189.50	156.30	4.70	2.11	1.99	1.78	
2	1.66	1.66	1.78	8.80	9.50	57.40	190.25	137.25	4.30	2.07	1.99	1.78	
3	1.66	1.66	1.78	8.90	9.70	57.60	195.50	113.10	4.10	2.07	1.99	1.78	
4	1.66	1.66	1.78	9.30	9.80	57.40	211.30	93.60	3.70	2.07	1.99	1.78	
5	1.66	1.66	1.78	9.30	10.00	57.40	222.00	76.00	3.14	2.03	1.99	1.78	
6	1.66	1.66	1.82	9.30	10.00	57.60	230.00	63.40	3.14	1.99	1.99	1.78	
7	1.66	1.66	1.82	9.30	10.10	58.00	234.20	55.40	3.10	1.99	1.99	1.78	
8	1.66	1.66	1.82	9.30	10.10	58.40	231.00	46.20	3.14	1.99	1.99	1.78	
9	1.66	1.66	1.82	9.30	10.20	59.20	231.00	40.10	3.14	1.99	1.86	1.78	
10	1.66	1.66	1.82	9.00	10.20	60.00	226.00	34.50	3.10	1.99	1.78	1.78	
11	1.66	1.66	1.82	8.80	10.30	63.80	225.00	30.54	2.98	1.99	1.78	1.78	
12	1.66	1.66	1.82	8.80	10.60	72.75	229.00	28.92	2.69	1.99	1.78	1.78	
13	1.66	1.66	1.82	8.80	10.60	106.34	231.00	26.60	2.61	1.99	1.78	1.78	
14	1.66	1.66	1.82	8.80	10.60	148.10	239.70	24.64	2.49	1.99	1.78	1.78	
15	1.66	1.66	1.82	8.80	10.60	177.55	254.00	22.68	2.49	1.99	1.78	1.78	
16	1.66	1.66	1.82	8.80	10.70	186.50	273.60	20.44	2.44	1.99	1.78	1.78	
17	1.66	1.66	1.82	8.80	11.00	194.00	302.40	18.76	2.32	1.99	1.78	1.78	
18	1.66	1.66	1.82	8.30	11.40	194.75	351.20	16.52	2.32	1.99	1.78	1.78	
19	1.66	1.66	1.82	6.80	11.80	197.00	398.00	14.28	2.32	1.99	1.78	1.78	
20	1.66	1.66	1.86	5.80	12.40	193.25	429.30	12.70	2.32	1.99	1.78	1.78	
21	1.66	1.66	1.86	5.80	20.72	178.00	453.00	11.90	2.28	1.99	1.78	1.66	
22	1.66	1.66	1.99	5.80	54.00	157.50	449.00	11.10	2.28	2.07	1.78	1.49	
23	1.66	1.66	2.28	5.80	61.20	112.58	419.80	10.10	2.24	2.03	1.78	1.49	
24	1.66	1.66	2.28	5.80	60.60	106.86	390.80	9.50	2.15	1.99	1.78	1.49	
25	1.66	1.66	2.28	5.80	57.60	109.46	354.80	8.60	2.15	1.99	1.78	1.49	
26	1.66	1.66	2.57	6.10	55.40	110.50	320.00	7.80	2.15	1.99	1.78	1.49	
27	1.66	1.66	4.30	6.30	53.40	131.40	282.00	6.70	2.15	1.99	1.78	1.49	
28	1.66	1.66	6.40	6.30	54.00	173.50	243.00	5.90	2.15	1.99	1.78	1.49	
29	1.66	1.66	6.80	6.70	54.40	180.20	213.00	5.90	2.15	1.99	1.78	1.49	
30	1.66	1.66	7.30	7.70	55.60	187.70	195.50	5.10	2.11	1.99		1.49	
31		1.66		9.30	56.40		176.65		2.11	1.99		1.49	
Total	49.80	51.46	74.26	244.20	792.42	3561.74	8591.50	1114.53	84.46	62.21	53.38	52.16	14732.12 CMSDAY
Mean	1.66	1.66	2.48	7.88	25.56	118.72	277.15	37.15	2.72	2.01	1.84	1.68	40.25 CMS
Max	1.66	1.66	7.30	9.30	61.20	197.00	453.00	156.30	4.70	2.11	1.99	1.78	453.00 CMS
Min	1.66	1.66	1.74	5.80	9.50	57.00	176.65	5.10	2.11	1.99	1.78	1.49	1.49 CMS
Runoff	4.30	4.45	6.42	21.10	68.47	307.73	742.31	96.30	7.30	5.38	4.61	4.51	1272.86 MCM
Momentary Peak	463.00 CMS. at 138.84 m. (MSL.) at 06.00 Hours , on Oct 22 , 2011												
Runoff Yield	13.16 Liters/Second/Square KM.			Momentary Peak Yield				151.406 Liters/Second/Square KM.					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	5.50	42.70	208.50	81.20	11.50	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	7.00	55.00	210.00	163.50	11.50	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	11.50	64.60	213.00	196.50	11.50	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	9.40	82.00	217.50	205.50	11.50	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	6.50	78.00	220.50	187.50	11.50	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	3.00	86.00	223.50	157.00	11.50	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	5.00	134.90	229.50	119.30	12.20	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	5.00	225.00	240.00	68.40	12.20	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	4.50	303.00	252.00	42.10	12.20	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	6.00	370.40	261.00	21.30	12.20	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	22.20	440.10	274.50	5.00	12.90	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	37.20	499.60	289.50	12.20	12.90	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	41.80	458.80	280.50	37.00	12.90	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	49.00	392.50	273.00	46.60	13.60	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	57.00	334.70	267.00	70.00	14.30	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	48.70	328.50	258.00	114.10	14.30	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	42.70	346.60	237.00	128.40	14.30	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	37.90	358.50	217.50	91.00	14.30	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	36.00	399.30	198.00	67.60	13.60	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	23.10	462.20	177.80	51.50	12.90	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	36.20	411.20	158.30	42.70	12.90	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	45.40	395.90	133.60	37.80	10.80	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	62.50	370.40	107.60	37.20	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	1.25	85.00	316.50	84.00	33.60	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	5.50	105.00	270.00	68.40	19.50	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	6.00	136.20	244.50	56.00	17.70	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	5.50	95.90	223.50	46.90	15.90	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	5.50	67.60	214.50	42.40	14.30	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	5.00	55.00	205.50	41.80	13.60	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	5.50	46.90	207.00	41.80	12.90	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	41.80	208.50			12.20		0.00	0.00		0.00	
Total	0.00	0.00	34.25	1236.50	8529.90	5529.10	2123.10	277.50	0.00	0.00	0.00	0.00	17730.35 CMSDAY
Mean	0.00	0.00	1.14	39.89	275.16	184.30	68.49	9.25	0.00	0.00	0.00	0.00	48.44 CMS
Max	0.00	0.00	6.00	136.20	499.60	289.50	205.50	14.30	0.00	0.00	0.00	0.00	499.60 CMS
Min	0.00	0.00	0.00	3.00	42.70	41.80	5.00	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.00	2.96	106.83	736.98	477.71	183.44	23.98	0.00	0.00	0.00	0.00	1531.90 MCM
Momentary Peak CMS. at 128.09 m. (MSL.) at 15.00 Hours , on Aug 12 , 2011													
Runoff Yield	29.43	Liters/Second/Square KM.			Momentary Peak Yield			314.885	Liters/Second/Square KM.				

WATER YEAR : 2011**MUN RIVER BASIN****Lam Takhong at Ban Tha Maprang, Nakhon Ratchasima (M.43A)**

Lat 14 - 30 - 43 N Long 101 - 22 - 49 E

Location : on left bank about 2 kilometers downstream from M.43

	Ban Tha Maprang	Amphoe Pak Chong	Changwat Nakhon Ratchasima
Drainage Area	153 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+372.540 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank downstream at the footpath of the bridge.	Elevation	+378.675 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1989 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Flot	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. The weir situated above gage site. Stage-discharge relation defined by 40 discharge measurements made in 2011.		

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	372.39	372.68	372.98	373.01	373.64	372.97	373.12	372.60	372.43	372.44	372.41	372.21	
2	372.38	372.75	372.86	372.87	373.75	373.12	373.01	372.59	372.44	372.44	372.46	372.19	
3	372.37	372.56	372.76	372.81	373.51	372.92	373.06	372.57	372.44	372.44	372.52	372.20	
4	372.43	372.58	372.76	372.82	373.26	373.01	373.24	372.54	372.44	372.44	372.51	372.23	
5	372.44	372.79	372.73	372.74	373.15	372.88	373.11	372.54	372.44	372.44	372.49	372.22	
6	372.45	372.60	372.74	372.69	373.05	372.92	373.54	372.54	372.47	372.44	372.44	372.22	
7	372.52	372.53	372.71	372.62	372.97	372.99	373.20	372.53	372.49	372.43	372.41	372.19	
8	372.46	372.53	372.66	372.59	372.91	372.93	373.08	372.53	372.48	372.42	372.37	372.17	
9	372.44	372.54	372.70	372.63	372.87	372.98	373.02	372.53	372.48	372.41	372.34	372.15	
10	372.45	372.60	372.91	372.90	372.90	373.63	373.31	372.55	372.49	372.42	372.34	372.23	
11	372.40	372.93	372.92	373.12	372.95	374.03	373.60	372.52	372.49	372.40	372.34	372.43	
12	372.40	372.83	372.85	372.90	372.84	374.34	373.33	372.49	372.48	372.39	372.34	372.40	
13	372.45	372.82	372.85	372.81	372.85	374.06	373.26	372.49	372.48	372.39	372.33	372.37	
14	372.50	372.79	372.76	373.06	372.90	373.74	373.14	372.46	372.47	372.39	372.31	372.32	
15	372.50	372.77	372.72	373.29	372.96	373.39	373.09	372.44	372.47	372.40	372.30	372.27	
16	372.49	372.80	372.72	373.04	373.00	373.25	373.12	372.44	372.47	372.41	372.31	372.24	
17	372.46	372.70	372.75	373.17	372.89	373.23	373.14	372.44	372.47	372.41	372.31	372.24	
18	372.43	372.75	372.72	373.04	373.12	373.19	373.06	372.42	372.47	372.42	372.30	372.20	
19	372.41	372.72	372.72	373.20	373.32	373.10	372.99	372.42	372.46	372.42	372.30	372.17	
20	372.40	372.71	373.08	373.57	373.15	373.19	372.93	372.42	372.45	372.40	372.30	372.14	
21	372.46	372.66	372.87	373.40	373.02	373.09	372.89	372.41	372.45	372.40	372.28	372.13	
22	372.45	372.64	372.86	373.33	372.94	373.05	372.85	372.42	372.43	372.41	372.26	372.13	
23	372.44	372.58	372.82	373.10	372.87	373.10	372.81	372.42	372.42	372.46	372.26	372.13	
24	372.65	372.54	372.75	373.02	372.93	373.63	372.78	372.42	372.42	372.42	372.26	372.12	
25	372.59	372.56	372.72	373.04	372.86	373.45	372.70	372.41	372.42	372.39	372.27	372.10	
26	372.52	372.55	372.87	373.12	372.78	373.29	372.67	372.41	372.43	372.45	372.29	372.09	
27	372.50	372.59	374.35	372.95	372.82	373.56	372.66	372.41	372.43	372.47	372.27	372.06	
28	372.65	372.65	373.63	372.92	372.81	373.39	372.65	372.40	372.42	372.41	372.24	372.04	
29	372.68	372.67	373.06	372.93	372.89	373.20	372.64	372.39	372.42	372.39	372.24	372.03	
30	372.57	372.68	373.47	373.20	372.88	373.20	372.62	372.39	372.42	372.37		372.01	
31		372.64		373.18	372.84		372.62		372.42	372.39		371.99	
Mean	372.48	372.67	372.91	373.00	373.02	373.29	373.01	372.47	372.45	372.42	372.34	372.18	
Max	372.68	372.93	374.35	373.57	373.75	374.34	373.60	372.60	372.49	372.47	372.52	372.43	374.35
Min	372.37	372.53	372.66	372.59	372.78	372.88	372.62	372.39	372.42	372.37	372.24	371.99	371.99
Annual Max Momentary Gage Height		375.04	m. (MSL.) ,				at 06.00 Hours , on Jun 27 , 2011						
Zero Gage at Bottom Elevation		372.54	m. (MSL.) ,			River Bed	372.54	m. (MSL)					
Left Bank Elevation			378.39	m. (MSL.) ,									
Right Bank Elevation		378.40	m. (MSL.) ,			Drainage Area	153	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.37	3.20	9.90	10.80	31.84	9.60	14.10	2.00	0.58	0.64	0.46	0.02		
2	0.33	4.50	6.70	6.90	36.90	14.10	10.80	1.90	0.64	0.64	0.76	0.02		
3	0.30	1.60	4.70	5.70	26.85	8.10	12.30	1.70	0.64	0.64	1.20	0.02		
4	0.58	1.80	4.70	5.90	18.30	10.80	17.70	1.40	0.64	0.64	1.10	0.03		
5	0.64	5.30	4.10	4.30	15.00	7.10	13.80	1.40	0.64	0.64	0.94	0.03		
6	0.70	2.00	4.30	3.35	12.00	8.10	27.90	1.40	0.82	0.64	0.64	0.03		
7	1.20	1.30	3.70	2.30	9.60	10.20	16.50	1.30	0.94	0.58	0.46	0.02		
8	0.76	1.30	2.90	1.90	7.80	8.40	12.90	1.30	0.88	0.52	0.30	0.01		
9	0.64	1.40	3.50	2.45	6.90	9.90	11.10	1.30	0.88	0.46	0.20	0.01		
10	0.70	2.00	7.80	7.50	7.50	31.38	19.85	1.50	0.94	0.52	0.20	0.03		
11	0.40	8.40	8.10	14.10	9.00	49.78	30.00	1.20	0.94	0.40	0.20	0.58		
12	0.40	6.10	6.50	7.50	6.30	66.20	20.55	0.94	0.88	0.37	0.20	0.40		
13	0.70	5.90	6.50	5.70	6.50	51.16	18.30	0.94	0.88	0.37	0.16	0.30		
14	1.00	5.30	4.70	12.30	7.50	36.44	14.70	0.76	0.82	0.37	0.09	0.13		
15	1.00	4.90	3.90	19.20	9.30	22.65	13.20	0.64	0.82	0.40	0.06	0.05		
16	0.94	5.50	3.90	11.70	10.50	18.00	14.10	0.64	0.82	0.46	0.09	0.04		
17	0.76	3.50	4.50	15.60	7.30	17.40	14.70	0.64	0.82	0.46	0.09	0.04		
18	0.58	4.50	3.90	11.70	14.10	16.20	12.30	0.52	0.82	0.52	0.06	0.02		
19	0.46	3.90	3.90	16.50	20.20	13.50	10.20	0.52	0.76	0.52	0.06	0.01		
20	0.40	3.70	12.90	28.95	15.00	16.20	8.40	0.52	0.70	0.40	0.06	0.01		
21	0.76	2.90	6.90	23.00	11.10	13.20	7.30	0.46	0.70	0.40	0.05	0.01		
22	0.70	2.60	6.70	20.55	8.70	12.00	6.50	0.52	0.58	0.46	0.04	0.01		
23	0.64	1.80	5.90	13.50	6.90	13.50	5.70	0.52	0.52	0.76	0.04	0.01		
24	2.75	1.40	4.50	11.10	8.40	31.38	5.10	0.52	0.52	0.52	0.04	0.00		
25	1.90	1.60	3.90	11.70	6.70	24.75	3.50	0.46	0.52	0.37	0.05	0.00		
26	1.20	1.50	6.90	14.10	5.10	19.20	3.05	0.46	0.58	0.70	0.06	0.00		
27	1.00	1.90	66.75	9.00	5.90	28.60	2.90	0.46	0.58	0.82	0.05	0.00		
28	2.75	2.75	31.38	8.10	5.70	22.65	2.75	0.40	0.52	0.46	0.04	0.00		
29	3.20	3.05	12.30	8.40	7.30	16.50	2.60	0.37	0.52	0.37	0.04	0.00		
30	1.70	3.20	25.45	16.50	7.10	16.50	2.30	0.37	0.52	0.30		0.00		
31		2.60		15.90	6.30		2.30		0.52	0.37		0.00		
Total	29.46	101.40	281.78	346.20	357.59	623.49	357.40	27.06	21.94	15.72	7.74	1.83	2171.61	CMSDAY
Mean														

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	292.27	292.70	292.69	293.76	293.36	292.91	293.60	292.75	292.42	292.39	292.35	292.28	
2	292.27	292.73	293.46	292.99	294.00	293.01	293.37	292.73	292.42	292.38	292.34	292.30	
3	292.27	292.59	293.59	292.81	294.13	293.06	294.08	292.71	292.42	292.37	292.34	292.36	
4	292.27	292.57	293.14	292.75	293.72	292.87	294.56	292.69	292.42	292.37	292.35	292.30	
5	292.27	292.55	292.93	292.74	293.30	292.91	293.77	292.67	292.42	292.37	292.36	292.28	
6	292.34	292.52	292.74	292.64	293.09	292.80	294.19	292.65	292.42	292.36	292.36	292.28	
7	292.51	292.54	292.65	292.59	292.94	292.90	294.40	292.64	292.42	292.36	292.34	292.28	
8	292.44	292.47	292.62	292.54	292.84	292.88	293.68	292.69	292.42	292.35	292.33	292.30	
9	292.44	292.43	292.57	292.50	292.77	292.94	293.50	292.80	292.42	292.35	292.32	292.30	
10	292.40	292.42	292.53	292.53	292.75	293.94	293.38	292.77	292.42	292.34	292.35	292.31	
11	292.37	292.42	292.76	293.09	292.79	296.00	294.37	292.69	292.42	292.34	292.34	292.34	
12	292.37	292.75	292.75	293.09	292.77	296.32	294.52	292.63	292.42	292.34	292.32	292.31	
13	292.37	292.86	292.67	292.81	292.68	295.66	294.70	292.60	292.42	292.34	292.32	292.30	
14	292.43	292.82	292.67	292.75	292.77	295.32	294.01	292.58	292.42	292.34	292.32	292.31	
15	292.42	292.82	292.53	293.14	293.14	294.47	293.69	292.57	292.42	292.34	292.31	292.30	
16	292.42	292.82	292.55	293.21	293.23	293.79	293.89	292.56	292.42	292.34	292.31	292.30	
17	292.42	292.82	292.53	293.05	292.97	293.61	293.98	292.55	292.42	292.34	292.31	292.30	
18	292.37	292.73	292.52	293.07	292.93	293.52	293.83	292.53	292.42	292.34	292.29	292.29	
19	292.37	292.72	292.52	293.03	293.26	293.57	293.57	292.52	292.42	292.34	292.29	292.30	
20	292.33	292.63	292.54	293.43	293.30	293.25	293.38	292.51	292.42	292.34	292.24	292.28	
21	292.37	292.62	292.76	293.71	293.09	293.35	293.25	292.52	292.41	292.34	292.25	292.29	
22	292.51	292.57	292.67	293.52	292.94	293.17	293.15	292.52	292.38	292.34	292.30	292.29	
23	292.39	292.52	292.53	293.34	292.83	293.21	293.07	292.52	292.38	292.34	292.29	292.28	
24	292.33	292.50	292.52	293.06	292.75	294.15	293.01	292.52	292.38	292.34	292.28	292.28	
25	292.32	292.71	292.52	292.99	292.87	295.48	292.96	292.50	292.38	292.34	292.30	292.28	
26	292.35	292.57	292.49	293.07	292.73	294.22	292.91	292.49	292.38	292.34	292.30	292.28	
27	292.37	292.71	292.54	293.06	292.68	296.56	292.88	292.49	292.38	292.34	292.28	292.27	
28	292.42	292.68	294.52	292.88	292.76	294.96	292.86	292.48	292.38	292.34	292.27	292.27	
29	292.65	292.81	293.36	292.90	292.78	294.08	292.84	292.48	292.38	292.34	292.27	292.26	
30	292.97	292.82	293.04	293.02	292.82	293.74	292.80	292.47	292.37	292.34		292.26	
31		292.70		293.08	292.81		292.78		292.37	292.34		292.26	
Mean	292.40	292.65	292.80	293.00	293.03	293.96	293.58	292.59	292.41	292.35	292.31	292.29	
Max	292.97	292.86	294.52	293.76	294.13	296.56	294.70	292.80	292.42	292.39	292.36	292.36	296.56
Min	292.27	292.42	292.49	292.50	292.68	292.80	292.78	292.47	292.37	292.34	292.24	292.26	292.24
Annual Max Momentary Gage Height	296.89		m. (MSL.) ,		at 13.00 Hours , on Sep 27, 2011								
Zero Gage at Bottom Elevation	290.92		m. (MSL.) ,		River Bed	291.01		m. (MSL)					
Left Bank Elevation	299.98		m. (MSL.) ,										
Right Bank Elevation	300.00		m. (MSL.) ,		Drainage Area	713	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.38	7.50	7.47	29.00	20.70	11.70	25.50	8.50	6.77	6.69	6.59	6.41	
2	6.38	8.10	22.70	13.30	35.00	13.70	20.90	8.10	6.77	6.67	6.56	6.46	
3	6.38	7.21	25.30	9.70	38.25	14.70	37.00	7.70	6.77	6.64	6.56	6.62	
4	6.38	7.16	16.30	8.50	28.00	10.90	49.00	7.47	6.77	6.64	6.59	6.46	
5	6.38	7.11	12.10	8.30	19.50	11.70	29.25	7.42	6.77	6.64	6.62	6.41	
6	6.56	7.03	8.30	7.34	15.30	9.50	39.75	7.37	6.77	6.62	6.62	6.41	
7	7.01	7.08	7.37	7.21	12.30	11.50	45.00	7.34	6.77	6.62	6.56	6.41	
8	6.82	6.90	7.29	7.08	10.30	11.10	27.10	7.47	6.77	6.59	6.54	6.46	
9	6.82	6.80	7.16	6.98	8.90	12.30	23.50	9.50	6.77	6.59	6.51	6.46	
10	6.72	6.77	7.06	7.06	8.50	33.50	21.10	8.90	6.77	6.56	6.59	6.49	
11	6.64	6.77	8.70	15.30	9.30	92.50	44.25	7.47	6.77	6.56	6.56	6.56	
12	6.64	8.50	8.50	15.30	8.90	103.70	48.00	7.32	6.77	6.56	6.51	6.49	
13	6.64	10.70	7.42	9.70	7.45	80.80	52.50	7.24	6.77	6.56	6.51	6.46	
14	6.80	9.90	7.42	8.50	8.90	70.60	35.25	7.19	6.77	6.56	6.51	6.49	
15	6.77	9.90	7.06	16.30	16.30	46.75	27.30	7.16	6.77	6.56	6.49	6.46	
16	6.77	9.90	7.11	17.70	18.10	29.75	32.25	7.14	6.77	6.56	6.49	6.46	
17	6.77	9.90	7.06	14.50	12.90	25.70	34.50	7.11	6.77	6.56	6.49	6.46	
18	6.64	8.10	7.03	14.90	12.10	23.90	30.75	7.06	6.77	6.56	6.43	6.43	
19	6.64	7.90	7.03	14.10	18.70	24.90	24.90	7.03	6.77	6.56	6.43	6.46	
20	6.54	7.32	7.08	22.10	19.50	18.50	21.10	7.01	6.77	6.56	6.30	6.41	
21	6.64	7.29	8.70	27.75	15.30	20.50	18.50	7.03	6.75	6.56	6.33	6.43	
22	7.01	7.16	7.42	23.90	12.30	16.90	16.50	7.03	6.67	6.56	6.46	6.43	
23	6.69	7.03	7.06	20.30	10.10	17.70	14.90	7.03	6.67	6.56	6.43	6.41	
24	6.54	6.98	7.03	14.70	8.50	38.75	13.70	7.03	6.67	6.56	6.41	6.41	
25	6.51	7.70	7.03	13.30	10.90	75.40	12.70	6.98	6.67	6.56	6.46	6.41	
26	6.59	7.16	6.95	14.90	8.10	40.50	11.70	6.95	6.67	6.56	6.46	6.41	
27	6.64	7.70	7.08	14.70	7.45	112.10	11.10	6.95	6.67	6.56	6.41	6.38	
28	6.77	7.45	48.00	11.10	8.70	59.80	10.70	6.93	6.67	6.56	6.38	6.38	
29	7.37	9.70	20.70	11.50	9.10	37.00	10.30	6.93	6.67	6.56	6.38	6.36	
30	12.90	9.90	14.30	13.90	9.90	28.50	9.50	6.90	6.64	6.56		6.36	
31		7.50		15.10	9.70		9.10		6.64	6.56		6.36	
Total	206.34	246.12	329.73	434.02	438.95	1104.85	807.60	221.26	208.79	204.02	188.1		

WATER YEAR : 2011**MUN RIVER BASIN****Lam Sieo Yai at Ban Ku, Roi Et. (M.95)**

Lat 15 - 34 - 12 N Long 103 - 49 - 27 E

Location : on left bank at the bridge on Highway.

	Ban	Ku	Amphoe	Suwannaphum	Changwat	Roi Et
Drainage Area	28,458	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+118.100	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+124.511 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1978 - 1989, 2005 to date					
Rating Operation						
Period of Rating	1978 - 1989, 2005 to date					
Rated by Flot	-					
Rated by Current Meter	1978 - 1989, 2005 to date					
Stability of Channel Regimes	Fairly stable					
Overbank Flow Conditions	No overbank flow					
General Description	Records fair. Stage-discharge relation defined by 9 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	119.04	118.66	119.00	119.20	119.49	121.00	122.45	122.17	120.78	120.57	120.45	120.05	
2	119.00	118.66	119.01	119.22	119.63	120.94	122.49	122.13	120.83	119.88	120.44	120.03	
3	118.97	118.65	119.02	119.23	119.68	120.90	122.52	122.09	120.79	120.54	120.43	120.01	
4	118.94	118.71	119.04	119.27	119.71	120.90	122.53	122.05	120.76	120.52	120.42	120.00	
5	118.90	118.72	119.06	119.27	119.74	120.91	122.50	122.00	120.73	120.52	120.41	119.98	
6	118.90	118.72	119.07	119.26	119.75	120.96	122.47	121.91	120.71	120.52	120.40	119.96	
7	118.89	118.72	119.06	119.25	119.75	121.05	122.45	121.87	120.70	120.51	120.39	119.95	
8	118.65	118.72	119.06	119.25	119.76	121.21	122.42	121.80	120.70	120.50	120.38	119.95	
9	118.87	118.73	119.05	119.25	119.78	121.22	122.41	121.72	120.69	120.49	120.37	119.94	
10	118.85	118.73	119.06	119.26	119.79	121.38	122.38	121.65	120.68	120.48	120.36	119.93	
11	118.83	118.72	119.06	119.27	119.80	121.65	122.36	121.54	120.68	120.47	120.33	119.90	
12	118.82	118.71	119.05	119.27	119.80	121.74	122.34	121.48	120.67	120.45	120.32	119.89	
13	118.80	118.76	119.04	119.26	119.79	121.79	122.32	121.44	120.66	120.44	120.31	119.88	
14	118.79	118.88	119.03	119.28	119.75	121.83	122.32	121.37	120.65	120.43	120.30	119.86	
15	118.78	118.92	119.03	119.28	119.77	121.90	122.31	121.31	120.64	120.42	120.29	119.84	
16	118.78	118.92	119.02	119.30	119.84	121.96	122.30	121.22	120.63	120.42	120.26	119.83	
17	118.77	118.93	119.02	119.30	119.91	121.99	122.30	121.05	120.63	120.42	120.24	119.81	
18	118.74	118.93	119.02	119.30	119.97	122.01	122.31	120.90	120.62	120.42	120.21	119.80	
19	118.75	118.93	119.05	119.29	120.13	122.02	122.30	120.77	120.62	120.42	120.20	119.80	
20	118.76	118.94	119.20	119.29	120.33	122.03	122.30	121.07	120.62	120.41	120.17	119.78	
21	118.74	118.95	119.24	119.29	120.61	122.05	122.30	121.13	120.62	120.41	120.16	119.78	
22	118.74	118.94	119.20	119.30	120.70	122.12	122.30	121.13	120.63	120.41	120.15	119.77	
23	118.73	118.95	119.20	119.30	120.94	122.16	122.30	121.09	120.63	120.46	120.14	119.76	
24	118.72	118.96	119.21	119.30	120.97	122.21	122.30	121.01	120.62	120.45	120.13	119.75	
25	118.72	118.96	119.21	119.32	120.98	122.25	122.32	120.96	120.61	120.44	120.11	119.73	
26	118.70	118.97	119.21	119.35	121.03	122.29	122.32	120.95	120.61	120.45	120.10	119.72	
27	118.69	118.96	119.22	119.38	121.03	122.33	122.30	120.91	120.60	120.46	120.08	119.70	
28	118.68	118.96	119.21	119.41	120.96	122.37	122.29	120.85	120.58	120.46	120.07	119.69	
29	118.67	118.95	119.21	119.44	120.95	122.40	122.28	120.84	120.58	120.45	120.06	119.67	
30	118.66	118.95	119.21	119.43	120.96	122.42	122.24	120.80	120.57	120.45		119.66	
31		118.99		119.46	121.00		122.19		120.56	120.44		119.64	
Mean	118.80	118.85	119.10	119.30	120.20	121.73	122.35	121.37	120.66	120.44	120.26	119.84	
Max	119.04	118.99	119.24	119.46	121.03	122.42	122.53	122.17	120.83	120.57	120.45	120.05	122.53
Min	118.65	118.65	119.00	119.20	119.49	120.90	122.19	120.77	120.56	119.88	120.06	119.64	118.65
Annual Max Momentary Gage Height	122.55		m. (MSL.) ,			at 06.00 Hours , on Oct 4, 2011							
Zero Gage at Bottom Elevation	118.10		m. (MSL.) ,			River Bed	117.39	m. (MSL)					
Left Bank Elevation	124.29		m. (MSL.) ,										
Right Bank Elevation	123.93		m. (MSL.) ,			Drainage Area	28458	Square Kilometers					

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	27.00	193.00	148.80	14.20	6.10	3.25	0.13	
2	0.00	0.00	0.00	0.00	0.00	23.40	199.40	143.20	16.80	0.00	3.10	0.07	
3	0.00	0.00	0.00	0.00	0.00	21.00	204.20	137.65	14.60	5.20	2.95	0.03	
4	0.00	0.00	0.00	0.00	0.00	21.00	205.80	132.25	13.40	4.60	2.80	0.00	
5	0.00	0.00	0.00	0.00	0.00	21.60	201.00	125.50	12.20	4.60	2.65	0.00	
6	0.00	0.00	0.00	0.00	0.00	24.60	196.20	114.25	11.40	4.60	2.50	0.00	
7	0.00	0.00	0.00	0.00	0.00	30.25	193.00	109.25	11.00	4.30	2.35	0.00	
8	0.00	0.00	0.00	0.00	0.00	41.80	188.20	100.50	11.00	4.00	2.20	0.00	
9	0.00	0.00	0.00	0.00	0.00	42.60	186.60	90.50	10.60	3.85	2.05	0.00	
10	0.00	0.00	0.00	0.00	0.00	56.20	181.80	83.00	10.20	3.70	1.90	0.00	
11	0.00	0.00	0.00	0.00	0.00	83.00	178.60	72.00	10.20	3.55	1.45	0.00	
12	0.00	0.00	0.00	0.00	0.00	93.00	175.40	66.00	9.80	3.25	1.30	0.00	
13	0.00	0.00	0.00	0.00	0.00	99.25	172.20	62.00	9.40	3.10	1.15	0.00	
14	0.00	0.00	0.00	0.00	0.00	104.25	172.20	55.30	9.00	2.95	1.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	113.00	170.60	49.90	8.60	2.80	0.95	0.00	
16	0.00	0.00	0.00	0.00	0.00	120.50	169.00	42.60	8.20	2.80	0.80	0.00	
17	0.00	0.00	0.00	0.00	0.00	124.25	169.00	30.25	8.20	2.80	0.70	0.00	
18	0.00	0.00	0.00	0.00	0.00	126.85	170.60	21.00	7.80	2.80	0.55	0.00	
19	0.00	0.00	0.00	0.00	0.32	128.20	169.00	13.80	7.80	2.80	0.50	0.00	
20	0.00	0.00	0.00	0.00	1.45	129.55	169.00	31.55	7.80	2.65	0.43	0.00	
21	0.00	0.00	0.00	0.00	7.40	132.25	169.00	35.75	7.80	2.65	0.40	0.00	
22	0.00	0.00	0.00	0.00	11.00	141.80	169.00	35.75	8.20	2.65	0.38	0.00	
23	0.00	0.00	0.00	0.00	23.40	147.40	169.00	32.85	8.20	3.40	0.35	0.00	
24	0.00	0.00	0.00	0.00	25.20	154.60	169.00	27.65	7.80	3.25	0.32	0.00	
25	0.00	0.00	0.00	0.00	25.80	161.00	172.20	24.60	7.40	3.10	0.28	0.00	
26	0.00	0.00	0.00	0.00	28.95	167.40	172.20	24.00	7.40	3.25	0.25	0.00	
27	0.00	0.00	0.00	0.00	28.95	173.80	169.00	21.60	7.00	3.40	0.20	0.00	
28	0.00	0.00	0.00	0.00	24.60	180.20	167.40	18.00	6.40	3.40	0.18	0.00	
29	0.00	0.00	0.00	0.00	24.00	185.00	165.80	17.40	6.40	3.25	0.15	0.00	
30	0.00	0.00	0.00	0.00	24.60	188.20	159.40	15.00	6.10	3.25		0.00	
31		0.00		0.00	27.00		151.60		5.80	3.10		0.00	
Total	0.00	0.00	0.00	0.00	252.67	3062.95							

WATER YEAR : 2011

MUN RIVER BASIN

Mun River at Ban Wang Prat, Buri Ram (M.104)

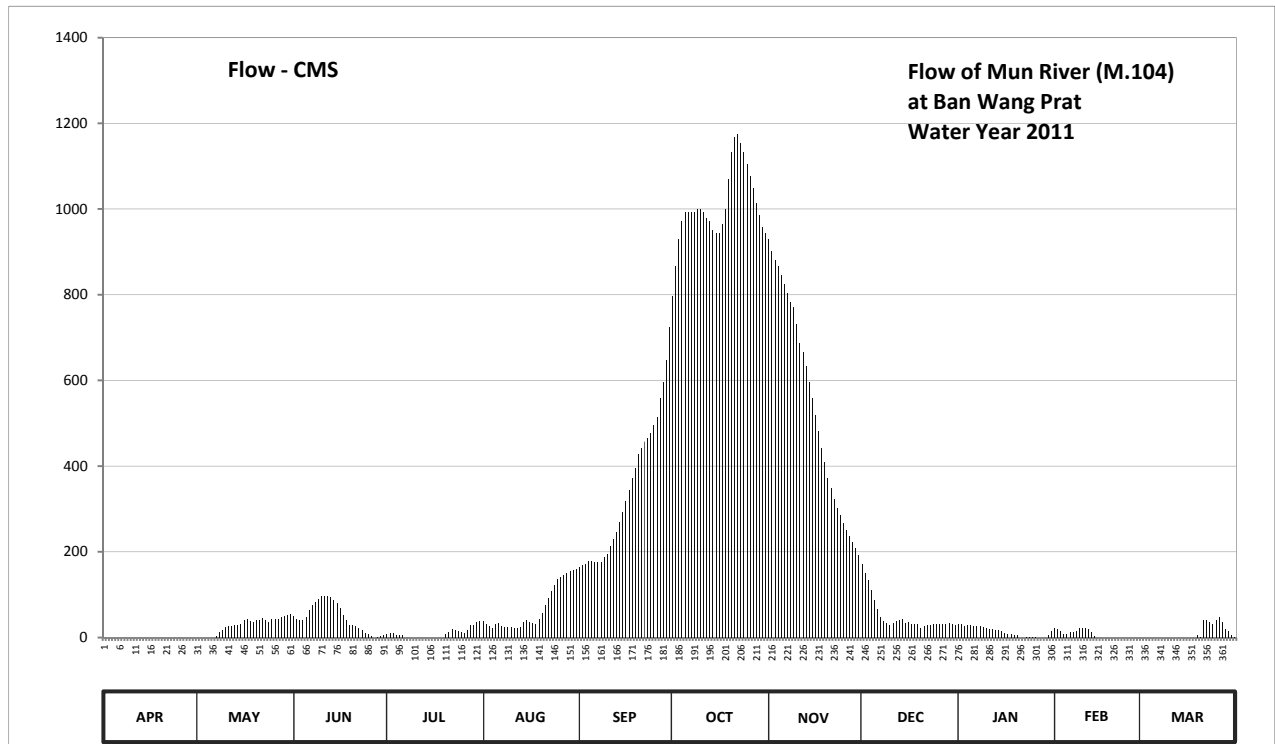
Lat 15 - 26 - 02 N Long 103 - 00 - 59 E

Location : on left bank at the bridge.

	Ban	Wang Prat	Amphoe	Khu Mueang	Changwat	Buri Ram
Drainage Area	24,841	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+129.760	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the footpath of the bridge.				Elevation	+140.339 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2005 to date					
Rating Operation						
Period of Rating	2005 to date					
Rated by Flot	-					
Rated by Current Meter	2005 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow					
General Description	Records very good. Stage-discharge relation defined by 25 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.53	130.74	132.39	131.60	132.19	133.77	135.91	136.10	133.83	132.05	131.85	131.19	
2	130.53	130.76	132.29	131.63	132.05	133.79	136.01	136.06	133.64	132.03	131.84	131.20	
3	130.52	130.78	132.22	131.61	131.94	133.82	136.10	136.03	133.49	131.96	131.74	131.20	
4	130.51	130.81	132.25	131.52	131.87	133.87	136.16	136.01	133.22	131.99	131.58	131.19	
5	130.50	130.94	132.37	131.55	132.04	133.87	136.19	135.98	132.94	132.01	131.58	131.19	
6	130.49	131.30	132.61	131.52	132.08	133.86	136.19	135.95	132.64	131.97	131.68	131.17	
7	130.51	131.51	132.76	131.38	131.97	133.86	136.19	135.92	132.38	131.96	131.68	131.15	
8	130.49	131.67	132.87	131.21	131.90	133.86	136.19	135.89	132.20	131.94	131.72	131.10	
9	130.49	131.76	132.97	131.19	131.89	133.95	136.20	135.87	132.08	131.89	131.86	131.07	
10	130.48	131.91	133.06	131.19	131.89	134.02	136.20	135.81	132.01	131.86	131.87	131.07	
11	130.48	131.96	133.07	131.18	131.87	134.16	136.19	135.74	132.09	131.81	131.86	131.06	
12	130.48	131.96	133.06	131.17	131.85	134.28	136.17	135.71	132.17	131.79	131.84	131.05	
13	130.47	131.98	133.02	131.19	131.91	134.40	136.16	135.66	132.23	131.76	131.69	131.06	
14	130.47	132.00	132.93	131.26	132.14	134.56	136.13	135.60	132.26	131.75	131.50	131.06	
15	130.46	132.04	132.83	131.25	132.23	134.73	136.12	135.54	132.08	131.73	131.38	131.06	
16	130.46	132.25	132.66	131.21	132.16	134.87	136.12	135.47	132.13	131.63	131.19	131.06	
17	130.45	132.28	132.45	131.17	132.08	134.98	136.15	135.39	132.05	131.59	131.19	131.14	
18	130.45	132.19	132.25	131.25	132.06	135.09	136.20	135.29	132.07	131.57	131.21	131.35	
19	130.46	132.15	132.01	131.38	132.27	135.16	136.30	135.20	132.04	131.55	131.23	131.53	
20	130.46	132.24	132.01	131.56	132.51	135.25	136.39	135.09	131.88	131.52	131.25	131.43	
21	130.45	132.25	131.96	131.68	132.76	135.29	136.44	134.99	131.94	131.40	131.26	132.25	
22	130.51	132.33	131.86	131.79	133.00	135.33	136.45	134.89	132.00	131.40	131.25	132.24	
23	130.53	132.25	131.76	131.78	133.20	135.35	136.42	134.79	132.00	131.41	131.24	132.13	
24	130.55	132.16	131.65	131.74	133.35	135.38	136.39	134.67	132.03	131.41	131.24	132.06	
25	130.54	132.27	131.58	131.69	133.51	135.42	136.35	134.55	132.03	131.42	131.24	132.23	
26	130.53	132.26	131.51	131.63	133.56	135.46	136.31	134.43	132.05	131.41	131.22	132.36	
27	130.53	132.26	131.39	131.77	133.60	135.54	136.27	134.32	132.06	131.40	131.21	132.13	
28	130.54	132.36	131.41	131.98	133.65	135.60	136.22	134.22	132.07	131.36	131.20	131.79	
29	130.55	132.41	131.47	132.01	133.68	135.68	136.18	134.12	132.09	131.37	131.18	131.70	
30	130.57	132.45	131.55	132.15	133.71	135.80	136.14	134.00	132.04	131.53		131.55	
31		132.46		132.18	133.73		136.12		132.01	131.74		131.44	
Mean	130.50	131.89	132.27	131.53	132.54	134.70	136.21	135.31	132.31	131.68	131.48	131.46	
Max	130.57	132.46	133.07	132.18	133.73	135.80	136.45	136.10	133.83	132.05	131.87	132.36	136.45
Min	130.45	130.74	131.39	131.17	131.85	133.77	135.91	134.00	131.88	131.36	131.18	131.05	130.45
Annual Max Momentary Gage Height	136.45		m. (MSL.) ,		at 06.00 Hours , on Oct 22 , 2011								
Zero Gage at Bottom Elevation	129.76		m. (MSL.) ,		River Bed	125.55		m. (MSL)					
Left Bank Elevation	140.11		m. (MSL.) ,										
Right Bank Elevation	140.10		m. (MSL.) ,		Drainage Area	24841		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	49.40	9.00	38.50	165.40	797.01	930.01	172.60	31.50	21.50	0.00		
2	0.00	0.00	43.50	10.50	31.50	167.80	867.00	902.00	149.80	30.50	21.00	0.00		
3	0.00	0.00	40.00	9.50	26.00	171.40	930.01	881.00	135.10	27.00	16.00	0.00		
4	0.00	0.00	41.50	5.00	22.50	177.40	972.01	867.00	110.80	28.50	8.00	0.00		
5	0.00	0.00	48.20	6.50	31.00	177.40	993.00	846.00	87.80	29.50	8.00	0.00		
6	0.00	0.00	64.70	5.00	33.00	176.20	993.00	825.00	66.80	27.50	13.00	0.00		
7	0.00	4.50	75.20	0.00	27.50	176.20	993.00	804.00	48.80	27.00	13.00	0.00		
8	0.00	12.50	82.90	0.00	24.00	176.20	993.00	783.50	39.00	26.00	15.00	0.00		
9	0.00	17.00	89.90	0.00	23.50	187.00	1000.00	770.50	33.00	23.50	22.00	0.00		
10	0.00	24.50	96.80	0.00	23.50	195.40	1000.00	731.50	29.50	22.00	22.50	0.00		
11	0.00	27.00	97.60	0.00	22.50	213.40	993.00	686.00	33.50	19.50	22.00	0.00		
12	0.00	27.00	96.80	0.00	21.50	230.20	979.00	666.50	37.50	18.50	21.00	0.00		
13	0.00	28.00	93.60	0.00	24.50	247.00	972.01	634.00	40.50	17.00	13.50	0.00		
14	0.00	29.00	87.10	0.00	36.00	269.40	951.01	595.00	42.00	16.50	4.00	0.00		
15	0.00	31.00	80.10	0.00	40.50	293.20	944.00	558.99	33.00	15.50	0.00	0.00		
16	0.00	41.50	68.20	0.00	37.00	318.40	944.00	520.00	35.50	10.50	0.00	0.00		
17	0.00	43.00	53.50	0.00	33.00	345.00	965.00	481.00	31.50	8.50	0.00	0.00		
18	0.00	38.50	41.50	0.00	32.00	372.50	1000.00	441.50	32.50	7.50	0.00	0.00		
19	0.00	36.50	29.50	0.00	42.50	396.00	1070.00	410.00	31.00	6.50	0.00	5.50		
20	0.00	41.00	29.50	7.00	57.70	427.50	1133.00	372.50	23.00	5.00	0.00	1.20		
21	0.00	41.50	27.00	13.00	75.20	441.50	1168.00	347.50	26.00	0.00	0.00	41.50		
22	0.00	45.80	22.00	18.50	92.00	457.00	1175.00	322.80	29.00	0.00	0.00	41.00		
23	0.00	41.50	17.00	18.00	109.00	465.00	1154.00	301.60	29.00	0.40	0.00	35.50		
24	0.00	37.00	11.50	16.00	122.50	477.00	1133.00	284.80	30.50	0.40	0.00	32.00		
25	0.00	42.50	8.00	13.50	136.90	495.00	1105.01	268.00	30.50	0.80	0.00	40.50		
26	0.00	42.00	4.50	10.50	141.40	515.00	1077.00	251.20	31.50	0.40	0.00	47.60		
27	0.00	42.00	0.00	17.50	145.00	558.99	1049.00	235.80	32.00	0.00	0.00	35.50		
28	0.00	47.60	0.40	28.00	151.00	595.00	1014.00	221.80	32.50	0.00	0.00	18.50		
29	0.00	50.70	2.80	29.50	154.60	646.99	986.00	207.80	33.50	0.00	0.00	14.00		
30	0.00	53.50	6.50	36.50	158.20	725.00	958.00	193.00	31.00	5.50		6.50		
31		54.20		38.00	160.60		944.00		29.50	16.00		1.60		
Total	0.00	899.30	1409.20	291.50	2074.60	10259.48	31252.06	16340.30	1548.20	421.50	220.50	320.90	65037.54	CMSDAY
Mean	0.00	29.01	46.97	9.40	66.92	341.98	1008.13	544.68	49.94	13.60	7.60	10.35	177.70	CMS
Max	0.00	54.20	97.60	38.00	160.60	725.00	1175.00	930.01	172.60	31.50	22.50	47.60	1175.00	CMS
Min	0.00	0.00	0.00	0.00	21.50	165.40	797.01	193.00	23.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	77.70	121.76	25.19	179.25	886.42	2700.18	1411.80	133.76	36.42	19.05	27.73	5619.24	MCM
Momentary Peak	1175.00 CMS. at 136.45 m. (MSL.) at 06.00 Hours , on Oct 22, 2011													
Runoff Yield	7.15	Liters/Second/Square KM.				Momentary Peak Yield		47.301	Liters/Second/Square KM.					

WATER YEAR : 2011**MUN RIVER BASIN****Huai Tunglung at Ban Kud Sombun, Ubon Ratchathani (M.110)**

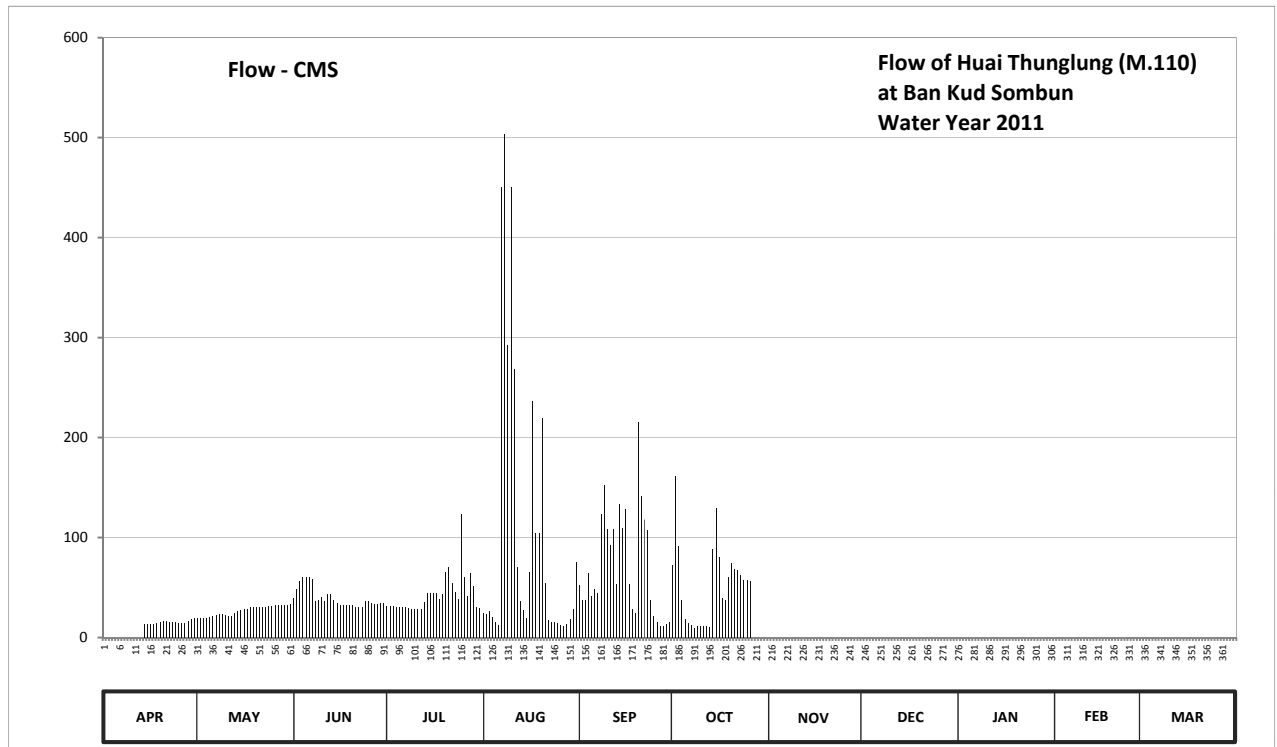
Lat 15 - 26 - 36 N Long 105 - 18 - 30 E

Location : on left bank at the bridge on trakan Phutphon - Khong Chiam Highway.

	Ban	Kud Sombun	Amphoe	Si Mueang Mai	Changwat	Ubon Ratchathani
Drainage Area	570	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+120.070	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the footpath of the bridge.				Elevation	+130.465 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1982 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. The weirs situated about 10 kilometers upstream and downstream from the gage site. Stage-discharge relation defined by 18 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	121.42	121.08	121.39	121.29	121.17	121.56	121.80	121.77	122.16	122.57	122.53	122.51	
2	121.41	121.08	121.50	121.29	121.16	121.37	122.65	121.77	122.32	122.57	122.53	122.51	
3	121.41	121.08	121.61	121.29	121.20	121.37	121.98	121.74	122.35	122.57	122.53	122.51	
4	121.40	121.08	121.65	121.28	121.10	121.71	121.37	121.74	122.39	122.57	122.53	122.50	
5	121.40	121.11	121.65	121.28	121.00	121.42	121.06	121.73	122.42	122.57	122.53	122.50	
6	121.39	121.13	121.65	121.28	120.95	121.51	120.99	121.73	122.48	122.57	122.53	122.50	
7	121.39	121.14	121.63	121.27	124.74	121.45	120.93	121.73	122.52	122.57	122.53	122.50	
8	121.33	121.15	121.36	121.26	125.07	122.30	120.87	121.72	122.53	122.57	122.53	122.50	
9	121.19	121.16	121.37	121.25	123.69	122.57	120.91	121.72	122.55	122.57	122.53	122.49	
10	121.13	121.14	121.41	121.24	124.74	122.15	120.90	121.72	122.55	122.57	122.52	122.49	
11	121.06	121.13	121.35	121.24	123.52	121.99	120.90	121.74	122.56	122.56	122.52	122.49	
12	121.02	121.12	121.44	121.25	121.77	122.15	120.90	121.78	122.57	122.56	122.52	122.48	
13	120.97	121.17	121.44	121.34	121.35	121.57	120.88	121.86	122.57	122.56	122.52	122.48	
14	120.96	121.21	121.37	121.46	121.22	122.40	121.95	121.91	122.58	122.56	122.52	122.48	
15	120.96	121.23	121.33	121.46	121.09	122.17	122.36	121.99	122.59	122.56	122.52	122.48	
16	120.96	121.24	121.30	121.46	121.72	122.35	121.87	122.02	122.60	122.56	122.52	122.47	
17	120.97	121.25	121.30	121.46	123.27	121.57	121.39	121.89	122.60	122.56	122.52	122.46	
18	120.99	121.27	121.30	121.38	122.12	121.24	121.37	121.65	122.60	122.55	122.52	122.46	
19	121.00	121.27	121.30	121.44	122.12	121.18	121.66	121.62	122.59	122.55	122.52	122.46	
20	121.02	121.27	121.30	121.72	123.14	123.10	121.81	121.62	122.59	122.55	122.51	122.45	
21	121.02	121.28	121.28	121.77	121.58	122.47	121.75	121.72	122.58	122.55	122.51	122.45	
22	121.00	121.28	121.27	121.58	121.05	122.25	121.74	121.97	122.58	122.55	122.51	122.44	
23	121.00	121.28	121.27	121.47	121.01	122.14	121.68	122.11	122.58	122.55	122.51	122.44	
24	121.00	121.29	121.36	121.38	121.00	121.37	121.62	122.15	122.58	122.55	122.51	122.44	
25	120.99	121.29	121.36	122.30	120.99	121.12	121.62	122.22	122.58	122.55	122.51	122.43	
26	120.99	121.30	121.33	121.66	120.95	121.01	121.61	122.29	122.58	122.55	122.51	122.43	
27	120.99	121.30	121.32	121.42	120.92	120.92	121.63	122.32	122.58	122.54	122.51	122.43	
28	121.02	121.31	121.32	121.71	120.97	120.92	121.77	122.35	122.58	122.54	122.51	122.43	
29	121.07	121.31	121.33	121.54	121.07	120.96	121.77	122.38	122.58	122.54	122.51	122.43	
30	121.08	121.31	121.33	121.27	121.25	121.01	121.77	122.39	122.58	122.54		122.43	
31		121.32		121.26	121.82		121.77		122.58	122.54		122.43	
Mean	121.12	121.21	121.39	121.43	121.90	121.71	121.53	121.91	122.53	122.56	122.52	122.47	
Max	121.42	121.32	121.65	122.30	125.07	123.10	122.65	122.39	122.60	122.57	122.53	122.51	125.07
Min	120.96	121.08	121.27	121.24	120.92	120.92	120.87	121.62	122.16	122.54	122.51	122.43	120.87
Annual Max Momentary Gage Height	126.57		m. (MSL.) ,			at 18.00 Hours , on Aug 7, 2011							
Zero Gage at Bottom Elevation	120.07		m. (MSL.) ,			River Bed	118.70	m. (MSL)					
Left Bank Elevation		130.19		m. (MSL.) ,									
Right Bank Elevation		130.22		m. (MSL.) ,		Drainage Area	570	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	19.00	39.20	31.40	24.20	52.80	73.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	19.00	48.00	31.40	23.60	37.60	161.50	0.00	0.00	0.00	0.00	0.00	
3	0.00	19.00	56.80	31.40	26.00	37.60	91.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	19.00	60.00	30.80	20.00	64.90	37.60	0.00	0.00	0.00	0.00	0.00	
5	0.00	20.60	60.00	30.80	15.00	41.60	18.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	21.80	60.00	30.80	13.00	48.80	14.60	0.00	0.00	0.00	0.00	0.00	
7	0.00	22.40	58.40	30.20	450.40	44.00	12.20	0.00	0.00	0.00	0.00	0.00	
8	0.00	23.00	36.80	29.60	503.20	123.00	9.80	0.00	0.00	0.00	0.00	0.00	
9	0.00	23.60	37.60	29.00	292.60	152.70	11.40	0.00	0.00	0.00	0.00	0.00	
10	0.00	22.40	40.80	28.40	450.40	108.00	11.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	21.80	36.00	28.40	268.80	92.00	11.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	21.20	43.20	29.00	70.30	108.00	11.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	24.20	43.20	35.20	36.00	53.60	10.20	0.00	0.00	0.00	0.00	0.00	
14	13.40	26.60	37.60	44.80	27.20	134.00	88.00	0.00	0.00	0.00	0.00	0.00	
15	13.40	27.80	34.40	44.80	19.50	110.00	129.60	0.00	0.00	0.00	0.00	0.00	
16	13.40	28.40	32.00	44.80	65.80	128.50	80.00	0.00	0.00	0.00	0.00	0.00	
17	13.80	29.00	32.00	44.80	236.10	53.60	39.20	0.00	0.00	0.00	0.00	0.00	
18	14.60	30.20	32.00	38.40	105.00	28.40	37.60	0.00	0.00	0.00	0.00	0.00	
19	15.00	30.20	32.00	43.20	105.00	24.80	60.80	0.00	0.00	0.00	0.00	0.00	
20	16.00	30.20	32.00	65.80	219.80	215.00	74.00	0.00	0.00	0.00	0.00	0.00	
21	16.00	30.80	30.80	70.30	54.40	141.70	68.50	0.00	0.00	0.00	0.00	0.00	
22	15.00	30.80	30.20	54.40	17.50	118.00	67.60	0.00	0.00	0.00	0.00	0.00	
23	15.00	30.80	30.20	45.60	15.50	107.00	62.40	0.00	0.00	0.00	0.00	0.00	
24	15.00	31.40	36.80	38.40	15.00	37.60	57.60	0.00	0.00	0.00	0.00	0.00	
25	14.60	31.40	36.80	123.00	14.60	21.20	57.60	0.00	0.00	0.00	0.00	0.00	
26	14.60	32.00	34.40	60.80	13.00	15.50	56.80	0.00	0.00	0.00	0.00	0.00	
27	14.60	32.00	33.60	41.60	11.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	
28	16.00	32.80	33.60	64.90	13.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	
29	18.50	32.80	34.40	51.20	18.50	13.40	0.00	0.00	0.00	0.00	0.00	0.00	
30	19.00	32.80	34.40	30.20	29.00	15.50	0.00	0.00	0.00	0.00		0.00	
31		33.60		29.60	75.00		0.00		0.00	0.00		0.00	
Total	257.90	830.60	1187.20	1333.00	3250.00	2152.40	1352.00	0.00	0.00	0.00	0.00	0.00	10363.10
Mean	8.60	26.80	39.60	43.00	104.80	71.70	43.60	0.00	0.00	0.00	0.00	0.00	28.30
Max	19.00	33.60	60.00	123.00	503.20	215.00	161.50	0.00	0.00	0.00	0.00	0.00	503.20
Min	0.00	19.00	30.20	28.40	11.80	11.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Runoff	22.28	71.76	102.57	115.17	280.80	185.97	116.81	0.00	0.00	0.00	0.00	0.00	895.37
Momentary Peak	CMS. at 126.57 m. (MSL.) at 18.00 Hours , on Aug 7, 2011												
Runoff Yield	49.67	Liters/Second/Square KM.			Momentary Peak Yield			1315.614	Liters/Second/Square KM.				

WATER YEAR : 2011

MUN RIVER BASIN

Huai Takhong at Ban Khok Yai, Buri Ram (M.112)

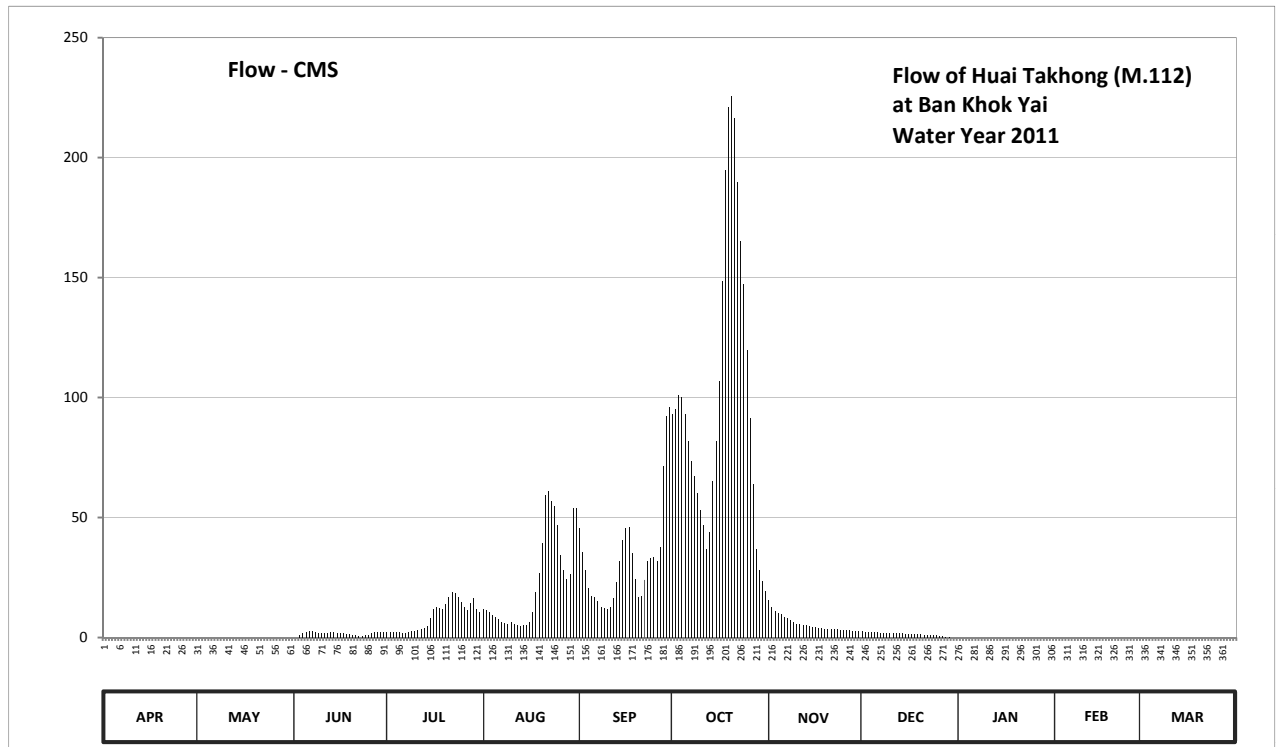
Lat 15 - 11 - 46 N Long 103 - 12 - 22 E

Location : on left bank at the bridge on highway at Ban Khok Yai.

	Ban	Khok Yai	Amphoe	Satuk	Changwat	Buri Ram
Drainage Area	1,232	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+131.180	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 5 meters from the gage site.				Elevation	+140.197 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00,09.00, 12.00,15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1982 to date					
Rating Operation						
Period of Rating	1983 - 1987, 1998 to date					
Rated by Flot	-					
Rated by Current Meter	1983 - 1987, 1998 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Ban Don Mon weir situated downstream from the gage site.					
	Stage-discharge relation defined by 23 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	134.14	133.81	135.51	135.82	136.19	136.85	137.51	136.29	135.83	135.68	135.43	135.04	
2	134.12	133.80	135.63	135.82	136.18	136.71	137.53	136.22	135.82	135.66	135.43	135.02	
3	134.11	133.79	135.76	135.82	136.15	136.56	137.59	136.17	135.81	135.65	135.42	134.98	
4	134.10	133.78	135.80	135.82	136.11	136.41	137.58	136.14	135.81	135.64	135.42	134.97	
5	134.08	133.78	135.81	135.81	136.08	136.33	137.51	136.13	135.81	135.63	135.41	134.95	
6	134.07	133.77	135.84	135.80	136.05	136.32	137.37	136.09	135.81	135.62	135.41	134.92	
7	134.06	133.77	135.83	135.80	136.02	136.28	137.25	136.07	135.80	135.61	135.39	134.90	
8	134.05	133.76	135.81	135.82	136.00	136.22	137.16	136.04	135.80	135.60	135.38	134.88	
9	134.04	133.75	135.80	135.83	135.99	136.21	137.06	136.01	135.80	135.59	135.37	134.86	
10	134.04	133.72	135.79	135.84	136.01	136.20	136.96	135.99	135.80	135.59	135.36	134.84	
11	134.03	133.69	135.79	135.86	135.99	136.22	136.87	135.99	135.79	135.58	135.35	134.83	
12	134.00	133.69	135.79	135.88	135.96	136.31	136.73	135.97	135.79	135.57	135.34	134.82	
13	133.99	133.70	135.81	135.90	135.94	136.46	136.83	135.95	135.79	135.56	135.32	134.81	
14	133.98	133.73	135.81	135.94	135.96	136.64	137.13	135.93	135.79	135.55	135.30	134.79	
15	133.96	133.76	135.80	136.07	135.97	136.78	137.37	135.92	135.78	135.54	135.28	134.78	
16	133.94	133.76	135.79	136.20	136.01	136.85	137.65	135.91	135.78	135.53	135.26	134.77	
17	133.92	133.76	135.79	136.22	136.15	136.86	138.03	135.90	135.77	135.53	135.24	134.77	
18	133.91	133.82	135.78	136.21	136.37	136.70	138.40	135.89	135.77	135.51	135.23	134.76	
19	133.94	133.96	135.77	136.19	136.54	136.49	138.58	135.88	135.77	135.50	135.21	134.75	
20	133.93	134.08	135.76	136.25	136.76	136.32	138.61	135.88	135.77	135.49	135.19	134.74	
21	133.91	134.11	135.75	136.32	137.05	136.33	138.55	135.88	135.76	135.50	135.17	134.73	
22	133.90	134.12	135.74	136.37	137.07	136.48	138.36	135.87	135.76	135.51	135.14	134.71	
23	133.89	134.14	135.73	136.36	137.01	136.64	138.17	135.87	135.76	135.51	135.12	134.69	
24	133.88	134.15	135.75	136.32	136.98	136.66	138.02	135.86	135.75	135.51	135.11	134.68	
25	133.87	134.18	135.76	136.27	136.87	136.67	137.77	135.86	135.75	135.50	135.10	134.66	
26	133.85	134.21	135.79	136.22	136.69	136.64	137.49	135.85	135.74	135.49	135.09	134.65	
27	133.85	134.29	135.81	136.18	136.56	136.74	137.11	135.85	135.73	135.48	135.09	134.64	
28	133.84	134.34	135.81	136.26	136.49	137.22	136.73	135.84	135.72	135.47	135.08	134.62	
29	133.83	134.50	135.82	136.31	136.53	137.50	136.56	135.83	135.71	135.46	135.07	134.61	
30	133.82	134.78	135.82	136.19	136.97	137.54	136.47	135.83	135.70	135.45		134.59	
31		135.31		136.15	136.97		136.38		135.69	135.44		134.59	
Mean	133.97	133.99	135.78	136.06	136.37	136.60	137.46	135.96	135.77	135.55	135.27	134.79	
Max	134.14	135.31	135.84	136.37	137.07	137.54	138.61	136.29	135.83	135.68	135.43	135.04	138.61
Min	133.82	133.69	135.51	135.80	135.94	136.20	136.38	135.83	135.69	135.44	135.07	134.59	133.69
Annual Max Momentary Gage Height	138.63		m. (MSL.) ,		at 06.00 Hours , on Oct 20, 2011								
Zero Gage at Bottom Elevation	131.18		m. (MSL.) ,		River Bed	133.41	m. (MSL)						
Left Bank Elevation	140.17		m. (MSL.) ,										
Right Bank Elevation	140.19		m. (MSL.) ,		Drainage Area	1232	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	2.40	11.70	45.50	93.00	15.60	2.60	0.00	0.00	0.00	
2	0.00	0.00	0.00	2.40	11.40	35.70	95.00	12.80	2.40	0.00	0.00	0.00	
3	0.00	0.00	1.20	2.40	10.50	28.00	101.00	11.10	2.20	0.00	0.00	0.00	
4	0.00	0.00	2.00	2.40	9.30	20.50	100.00	10.20	2.20	0.00	0.00	0.00	
5	0.00	0.00	2.20	2.20	8.40	17.20	93.00	9.90	2.20	0.00	0.00	0.00	
6	0.00	0.00	2.80	2.00	7.50	16.80	81.90	8.70	2.20	0.00	0.00	0.00	
7	0.00	0.00	2.60	2.00	6.60	15.20	73.50	8.10	2.00	0.00	0.00	0.00	
8	0.00	0.00	2.20	2.40	6.00	12.80	67.20	7.20	2.00	0.00	0.00	0.00	
9	0.00	0.00	2.00	2.60	5.80	12.40	60.20	6.30	2.00	0.00	0.00	0.00	
10	0.00	0.00	1.80	2.80	6.30	12.00	53.20	5.80	2.00	0.00	0.00	0.00	
11	0.00	0.00	1.80	3.20	5.80	12.80	46.90	5.80	1.80	0.00	0.00	0.00	
12	0.00	0.00	1.80	3.60	5.20	16.40	37.10	5.40	1.80	0.00	0.00	0.00	
13	0.00	0.00	2.20	4.00	4.80	23.00	44.10	5.00	1.80	0.00	0.00	0.00	
14	0.00	0.00	2.20	4.80	5.20	32.00	65.10	4.60	1.80	0.00	0.00	0.00	
15	0.00	0.00	2.00	8.10	5.40	40.60	81.90	4.40	1.60	0.00	0.00	0.00	
16	0.00	0.00	1.80	12.00	6.30	45.50	107.00	4.20	1.60	0.00	0.00	0.00	
17	0.00	0.00	1.80	12.80	10.50	46.20	148.30	4.00	1.40	0.00	0.00	0.00	
18	0.00	0.00	1.60	12.40	18.80	35.00	195.00	3.80	1.40	0.00	0.00	0.00	
19	0.00	0.00	1.40	11.70	27.00	24.50	221.00	3.60	1.40	0.00	0.00	0.00	
20	0.00	0.00	1.20	14.00	39.20	16.80	225.60	3.60	1.40	0.00	0.00	0.00	
21	0.00	0.00	1.00	16.80	59.50	17.20	216.50	3.60	1.20	0.00	0.00	0.00	
22	0.00	0.00	0.80	18.80	60.90	24.00	189.80	3.40	1.20	0.00	0.00	0.00	
23	0.00	0.00	0.60	18.40	56.70	32.00	165.10	3.40	1.20	0.00	0.00	0.00	
24	0.00	0.00	1.00	16.80	54.60	33.00	147.20	3.20	1.00	0.00	0.00	0.00	
25	0.00	0.00	1.20	14.80	46.90	33.50	119.70	3.20	1.00	0.00	0.00	0.00	
26	0.00	0.00	1.80	12.80	34.50	32.00	91.20	3.00	0.80	0.00	0.00	0.00	
27	0.00	0.00	2.20	11.40	28.00	37.80	63.70	3.00	0.60	0.00	0.00	0.00	
28	0.00	0.00	2.20	14.40	24.50	71.40	37.10	2.80	0.40	0.00	0.00	0.00	
29	0.00	0.00	2.40	16.40	26.50	92.00	28.00	2.60	0.20	0.00	0.00	0.00	
30	0.00	0.00	2.40	11.70	53.90	96.00	23.50	2.60	0.00	0.00		0.00	
31		0.00		10.50	53.90		19.20		0.00	0.00		0.00	
Total	0.00	0.00	50.20	273.00	711.60	977.80	3091.00	170.90	45.40	0.00	0.00	0.00	5319.90
Mean	0.00	0.00	1.67	8.81	22.95	32.59	99.71	5.70	1.46	0.00	0.00	0.00	14.54
Max	0.00	0.00	2.80	18.80	60.90	96.00	225.60	15.60	2.60	0.00	0.00	0.00	225.60
Min	0.00	0.00	0.00	2.00	4.80	12.00	19.20	2.60	0.00	0.00	0.00	0.00	0.00
Runoff	0.00	0.00	4.34	23.59	61.48	84.48	267.06	14.77	3.92	0.00	0.00	0.00	459.64
Momentary Peak	CMS. at 138.63 m. (MSL.) at 06.00 Hours , on Oct 20 , 2011												
Runoff Yield	11.80	Liters/Second/Square KM.			Momentary Peak Yield		185.714	Liters/Second/Square KM.					

WATER YEAR : 2011

MUN RIVER BASIN

Huai Ta Thieo at Ban Na Hai, Ubon Ratchathani (M.127)

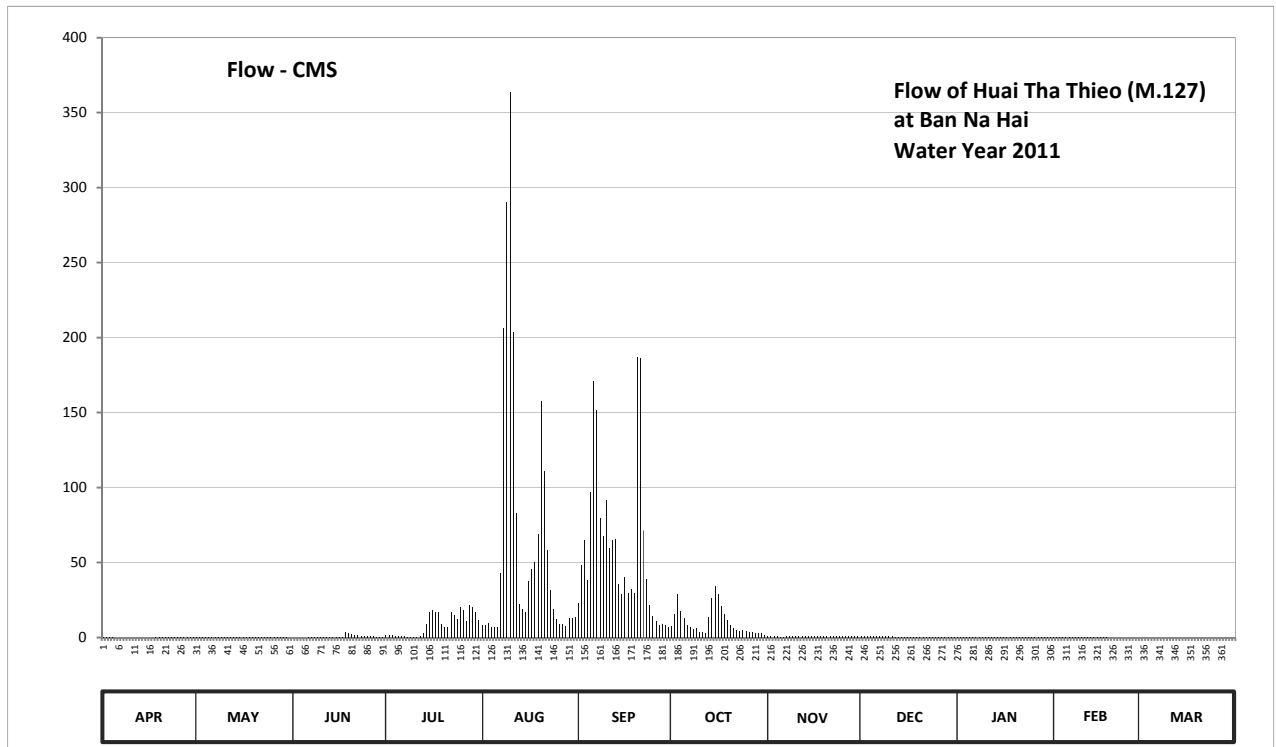
Lat 15 - 38 - 37 N Long 104 - 55 - 57 E

Location : on left bank at the bridge on road.

	Ban	Na Hai	Amphoe	Trakan Phutphon	Changwat	Ubon Ratchathani
Drainage Area	424	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+115.340	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank downstream side at the abutment of the bridge.				Elevation	+126.877 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 to date					
Stability of Channel Regimes	Rather unstable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. The weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 27 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.54	116.58	116.50	116.74	117.23	117.78	117.17	116.69	116.65	116.61	116.56	116.46	
2	116.52	116.57	116.50	116.76	117.23	118.70	117.50	116.68	116.64	116.61	116.56	116.46	
3	116.51	116.57	116.50	116.79	117.28	119.26	118.01	116.66	116.64	116.61	116.56	116.46	
4	116.51	116.57	116.50	116.72	117.16	118.34	117.59	116.64	116.64	116.61	116.56	116.46	
5	116.50	116.58	116.50	116.70	117.16	120.21	117.40	116.63	116.64	116.61	116.56	116.46	
6	116.50	116.58	116.53	116.65	117.15	121.86	117.21	116.63	116.64	116.61	116.55	116.45	
7	116.49	116.59	116.59	116.64	118.53	121.49	117.14	116.64	116.64	116.60	116.55	116.45	
8	116.49	116.60	116.58	116.63	122.37	119.71	117.07	116.64	116.64	116.60	116.54	116.44	
9	116.49	116.59	116.57	116.62	123.12	119.36	117.13	116.64	116.64	116.59	116.54	116.44	
10	116.48	116.58	116.56	116.62	123.53	120.06	116.97	116.64	116.64	116.58	116.54	116.44	
11	116.47	116.58	116.54	116.62	122.34	119.09	116.94	116.69	116.64	116.57	116.53	116.43	
12	116.47	116.59	116.55	116.65	119.82	119.26	116.93	116.68	116.63	116.57	116.53	116.43	
13	116.46	116.59	116.63	116.86	117.76	119.29	117.44	116.68	116.63	116.57	116.53	116.42	
14	116.46	116.60	116.62	117.26	117.62	118.24	117.90	116.68	116.63	116.57	116.52	116.42	
15	116.45	116.58	116.60	117.57	117.57	118.01	118.19	116.68	116.63	116.57	116.52	116.41	
16	116.44	116.58	116.60	117.61	118.33	118.41	117.99	116.67	116.63	116.57	116.52	116.41	
17	116.43	116.58	116.61	117.57	118.63	118.04	117.70	116.67	116.63	116.57	116.52	116.40	
18	116.54	116.58	116.98	117.55	118.77	118.12	117.51	116.67	116.63	116.57	116.51	116.40	
19	116.57	116.58	116.89	117.26	119.40	118.04	117.35	116.67	116.63	116.57	116.50	116.40	
20	116.57	116.56	116.82	117.16	121.61	122.11	117.23	116.67	116.63	116.57	116.49	116.39	
21	116.57	116.52	116.77	117.16	120.58	122.10	117.13	116.66	116.63	116.57	116.49	116.39	
22	116.57	116.52	116.75	117.57	119.05	119.48	117.06	116.66	116.62	116.58	116.49	116.41	
23	116.57	116.52	116.73	117.49	118.10	118.37	117.02	116.66	116.62	116.58	116.48	116.41	
24	116.56	116.52	116.69	117.38	117.63	117.74	117.04	116.66	116.62	116.58	116.48	116.40	
25	116.56	116.52	116.66	117.67	117.39	117.47	117.02	116.66	116.62	116.59	116.48	116.40	
26	116.54	116.53	116.64	117.61	117.24	117.34	116.98	116.65	116.62	116.59	116.47	116.39	
27	116.53	116.53	116.64	117.34	117.26	117.21	116.94	116.65	116.62	116.58	116.47	116.39	
28	116.53	116.52	116.62	117.73	117.17	117.24	116.91	116.65	116.62	116.58	116.47	116.38	
29	116.57	116.51	116.62	117.67	117.42	117.21	116.89	116.65	116.62	116.58	116.47	116.38	
30	116.59	116.51	116.62	117.57	117.41	117.16	116.87	116.65	116.62	116.57		116.38	
31		116.50		117.35	117.43		116.77		116.62	116.57		116.38	
Mean	116.52	116.56	116.63	117.15	118.69	118.89	117.26	116.66	116.63	116.58	116.52	116.42	
Max	116.59	116.60	116.98	117.73	123.53	122.11	118.19	116.69	116.65	116.61	116.56	116.46	123.53
Min	116.43	116.50	116.50	116.62	117.15	117.16	116.77	116.63	116.62	116.57	116.47	116.38	116.38
Annual Max Momentary Gage Height	123.47		m. (MSL.) ,		at 12.00 Hours , on Aug 10, 2011								
Zero Gage at Bottom Elevation	115.34		m. (MSL.) ,		River Bed	114.56		m. (MSL)					
Left Bank Elevation	126.62		m. (MSL.) ,										
Right Bank Elevation	126.60		m. (MSL.) ,		Drainage Area	424		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	0.40	0.00	1.40	8.60	22.96	7.40	0.95	0.75	0.55	0.30	0.00		
2	0.10	0.35	0.00	1.60	8.60	48.00	15.40	0.90	0.70	0.55	0.30	0.00		
3	0.05	0.35	0.00	1.90	9.60	64.80	29.17	0.80	0.70	0.55	0.30	0.00		
4	0.05	0.35	0.00	1.20	7.20	38.08	17.83	0.70	0.70	0.55	0.30	0.00		
5	0.00	0.40	0.00	1.00	7.20	96.85	12.70	0.65	0.70	0.55	0.30	0.00		
6	0.00	0.40	0.15	0.75	7.00	170.80	8.20	0.65	0.70	0.55	0.25	0.00		
7	0.00	0.45	0.45	0.70	43.21	151.50	6.80	0.70	0.70	0.50	0.25	0.00		
8	0.00	0.50	0.40	0.65	206.30	79.35	5.40	0.70	0.70	0.50	0.20	0.00		
9	0.00	0.45	0.35	0.60	290.20	67.80	6.60	0.70	0.70	0.45	0.20	0.00		
10	0.00	0.40	0.30	0.60	363.90	91.60	3.70	0.70	0.70	0.40	0.20	0.00		
11	0.00	0.40	0.20	0.60	203.60	59.70	3.40	0.95	0.70	0.35	0.15	0.00		
12	0.00	0.45	0.25	0.75	83.20	64.80	3.30	0.90	0.65	0.35	0.15	0.00		
13	0.00	0.45	0.65	2.60	22.42	65.70	13.78	0.90	0.65	0.35	0.15	0.00		
14	0.00	0.50	0.60	9.20	18.64	35.38	26.20	0.90	0.65	0.35	0.10	0.00		
15	0.00	0.40	0.50	17.29	17.29	29.17	34.03	0.90	0.65	0.35	0.10	0.00		
16	0.00	0.40	0.50	18.37	37.81	39.97	28.63	0.85	0.65	0.35	0.10	0.00		
17	0.00	0.40	0.55	17.29	45.97	29.98	20.80	0.85	0.65	0.35	0.10	0.00		
18	0.20	0.40	3.80	16.75	50.10	32.14	15.67	0.85	0.65	0.35	0.05	0.00		
19	0.35	0.40	2.90	9.20	69.00	29.98	11.35	0.85	0.65	0.35	0.00	0.00		
20	0.35	0.30	2.20	7.20	157.50	186.70	8.60	0.85	0.65	0.35	0.00	0.00		
21	0.35	0.10	1.70	7.20	111.20	186.00	6.60	0.80	0.65	0.35	0.00	0.00		
22	0.35	0.10	1.50	17.29	58.50	71.40	5.20	0.80	0.60	0.40	0.00	0.00		
23	0.35	0.10	1.30	15.13	31.60	38.89	4.40	0.80	0.60	0.40	0.00	0.00		
24	0.30	0.10	0.95	12.16	18.91	21.88	4.80	0.80	0.60	0.40	0.00	0.00		
25	0.30	0.10	0.80	19.99	12.43	14.59	4.40	0.80	0.60	0.45	0.00	0.00		
26	0.20	0.15	0.70	18.37	8.80	11.08	3.80	0.75	0.60	0.45	0.00	0.00		
27	0.15	0.15	0.70	11.08	9.20	8.20	3.40	0.75	0.60	0.40	0.00	0.00		
28	0.15	0.10	0.60	21.61	7.40	8.80	3.10	0.75	0.60	0.40	0.00	0.00		
29	0.35	0.05	0.60	19.99	13.24	8.20	2.90	0.75	0.60	0.40	0.00	0.00		
30	0.45	0.05	0.60	17.29	12.97	7.20	2.70	0.75	0.60	0.35		0.00		
31		0.00		11.35	13.51		1.70		0.60	0.35		0.00		
Total	4.25	9.15	23.25	281.11	1955.10	1781.50	321.96	24.00	20.25	13.00	3.50	0.00	4437.07	CMSDAY
Mean	0.14	0.30	0.78	9.07	63.07	59.38	10.39	0.80	0.65	0.42	0.12	0.00	12.12	CMS
Max	0.45	0.50	3.80	21.61	363.90	186.70	34.03	0.95	0.75	0.55	0.30	0.00	363.90	CMS
Min	0.00	0.00	0.00	0.60	7.00	7.20	1.70	0.65	0.60	0.35	0.00	0.00	0.00	CMS
Runoff	0.37	0.79	2.01	24.29	168.92	153.92	27.82	2.07	1.75	1.12	0.30	0.00	383.36	MCM
Momentary Peak	351.00	CMS, at 123.47 m. (MSL) , at 12.00 Hours , on Aug 10, 2011												
Runoff Yield	28.59	Liters/Second/Square KM.		Momentary Peak Yield		827.830	Liters/Second/Square KM.							

WATER YEAR : 2011

MUN RIVER BASIN

Lam Phra Phloeng at Ban Wang Ka Lo, Nakhon Ratchasima (M.145)

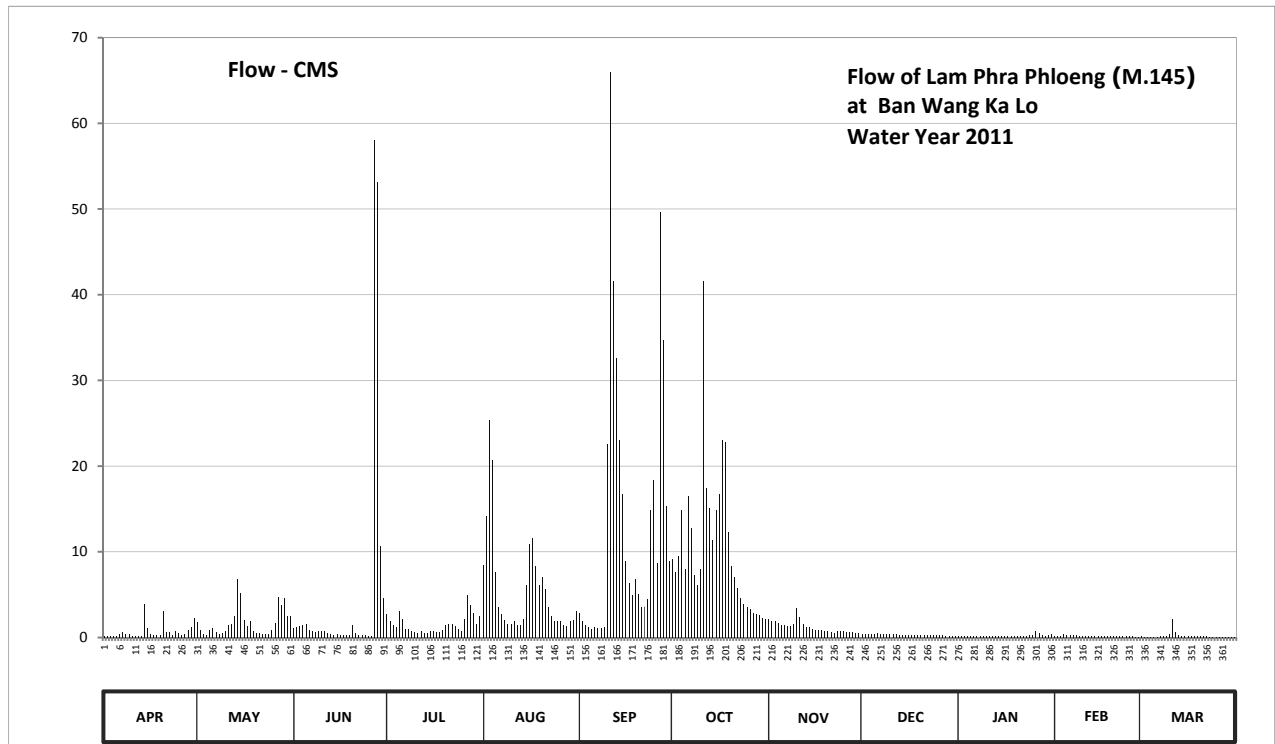
Lat 14 - 29 - 24 N Long 101 - 41 - 14 E

Location : on right bank at Ban Wang Ka Lo.

	Ban	Wang Ka Lo	Amphoe	Pak Chong	Changwat	Nakhon Ratchasima
Drainage Area	335	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+382.990	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 12 meters from the top staff gage.				Elevation	+390.970 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1990 to date					
Rating Operation						
Period of Rating	1990 to date					
Rated by Flot	-					
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 57 discharge measurements made in 2011.					

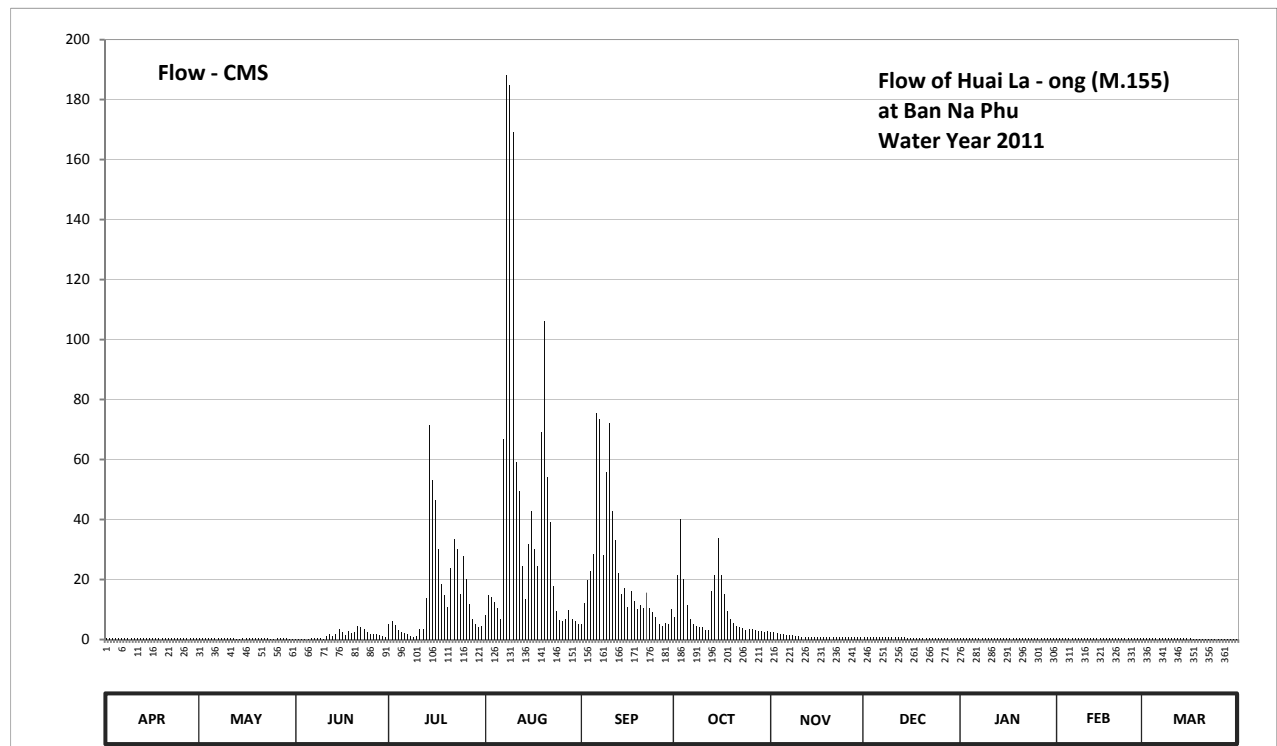
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	386.24	386.58	386.51	386.67	387.10	386.68	387.14	386.61	386.37	386.30	386.23	386.22	
2	386.23	386.47	386.52	386.59	387.38	386.59	387.04	386.59	386.37	386.29	386.29	386.19	
3	386.23	386.38	386.53	386.54	387.86	386.55	387.17	386.59	386.36	386.29	386.29	386.17	
4	386.27	386.33	386.54	386.52	387.66	386.52	387.41	386.57	386.36	386.29	386.38	386.17	
5	386.27	386.48	386.56	386.71	387.04	386.50	387.07	386.55	386.36	386.29	386.31	386.19	
6	386.35	386.51	386.48	386.61	386.75	386.52	387.48	386.54	386.40	386.29	386.31	386.19	
7	386.42	386.42	386.45	386.49	386.67	386.51	387.32	386.53	386.38	386.28	386.31	386.25	
8	386.36	386.38	386.42	386.49	386.60	386.51	387.02	386.53	386.37	386.28	386.34	386.25	
9	386.35	386.41	386.44	386.44	386.56	386.52	386.94	386.56	386.37	386.28	386.29	386.24	
10	386.30	386.44	386.44	386.42	386.56	387.74	387.07	386.74	386.37	386.30	386.29	386.36	
11	386.27	386.54	386.45	386.41	386.59	389.06	388.49	386.64	386.37	386.28	386.27	386.61	
12	386.27	386.56	386.39	386.44	386.55	388.49	387.52	386.56	386.37	386.26	386.25	386.42	
13	386.27	386.65	386.37	386.40	386.55	388.17	387.42	386.52	386.33	386.26	386.24	386.34	
14	386.79	386.99	386.34	386.39	386.62	387.76	387.26	386.52	386.33	386.26	386.24	386.29	
15	386.51	386.88	386.35	386.44	386.94	387.49	387.41	386.49	386.33	386.26	386.24	386.26	
16	386.35	386.60	386.33	386.44	387.24	387.13	387.49	386.48	386.33	386.26	386.23	386.24	
17	386.33	386.53	386.33	386.43	387.27	386.96	387.76	386.48	386.33	386.26	386.23	386.23	
18	386.31	386.59	386.32	386.43	387.09	386.86	387.75	386.48	386.33	386.27	386.22	386.22	
19	386.33	386.46	386.32	386.47	386.94	386.99	387.30	386.44	386.33	386.28	386.22	386.23	
20	386.71	386.40	386.55	386.55	387.00	386.87	387.09	386.44	386.33	386.30	386.22	386.22	
21	386.43	386.40	386.39	386.56	386.91	386.75	387.00	386.42	386.33	386.29	386.22	386.28	
22	386.43	386.36	386.34	386.56	386.75	386.76	386.92	386.41	386.32	386.27	386.22	386.22	
23	386.34	386.38	386.33	386.53	386.65	386.83	386.84	386.44	386.32	386.28	386.22	386.19	
24	386.46	386.37	386.31	386.50	386.59	387.41	386.79	386.45	386.31	386.32	386.22	386.18	
25	386.39	386.47	386.29	386.46	386.59	387.56	386.75	386.44	386.32	386.32	386.24	386.17	
26	386.34	386.57	386.29	386.62	386.59	387.11	386.73	386.43	386.32	386.45	386.23	386.16	
27	386.36	386.85	388.90	386.86	386.55	388.69	386.69	386.42	386.31	386.39	386.21	386.16	
28	386.48	386.78	388.78	386.78	386.53	388.26	386.67	386.42	386.30	386.33	386.19	386.15	
29	386.52	386.84	387.23	386.68	386.59	387.43	386.66	386.40	386.30	386.30	386.22	386.14	
30	386.63	386.65	386.84	386.56	386.60	387.13	386.63	386.40	386.30	386.31		386.14	
31		386.65		386.65	386.71		386.62		386.30	386.37		386.13	
Mean	386.38	386.55	386.61	386.54	386.84	387.21	387.14	386.50	386.34	386.30	386.25	386.23	
Max	386.79	386.99	388.90	386.86	387.86	389.06	388.49	386.74	386.40	386.45	386.38	386.61	389.06
Min	386.23	386.33	386.29	386.39	386.53	386.50	386.62	386.40	386.30	386.26	386.19	386.13	386.13
Annual Max Momentary Gage Height	390.29		m. (MSL.) , at 24.00 Hours , on Jun 27, 2011										
Zero Gage at Bottom Elevation	382.99		m. (MSL.) , River Bed 384.92 m. (MSL)										
Left Bank Elevation	392.97		m. (MSL.) ,										
Right Bank Elevation	391.06		m. (MSL.) , Drainage Area 335 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

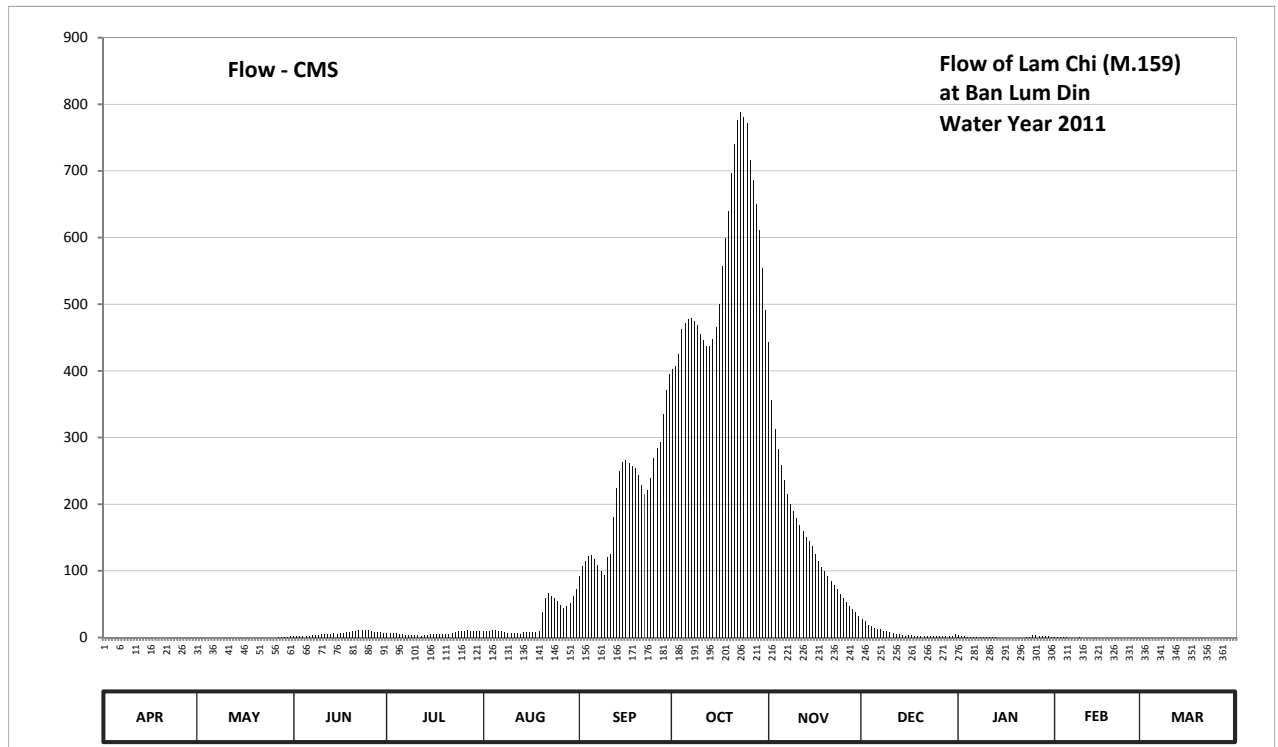
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.14	1.80	1.10	2.70	8.50	2.80	9.10	2.10	0.41	0.20	0.13	0.12		
2	0.13	0.85	1.20	1.90	14.20	1.90	7.60	1.90	0.41	0.19	0.19	0.09		
3	0.13	0.44	1.30	1.40	25.40	1.50	9.55	1.90	0.38	0.19	0.19	0.07		
4	0.17	0.29	1.40	1.20	20.73	1.20	14.90	1.70	0.38	0.19	0.44	0.07		
5	0.17	0.90	1.60	3.10	7.60	1.00	8.05	1.50	0.38	0.19	0.23	0.09		
6	0.35	1.10	0.90	2.10	3.50	1.20	16.53	1.40	0.50	0.19	0.23	0.09		
7	0.60	0.60	0.75	0.95	2.70	1.10	12.80	1.30	0.44	0.18	0.23	0.15		
8	0.38	0.44	0.60	0.95	2.00	1.10	7.30	1.30	0.41	0.18	0.32	0.15		
9	0.35	0.55	0.70	0.70	1.60	1.20	6.10	1.60	0.41	0.18	0.19	0.14		
10	0.20	0.70	0.70	0.60	1.60	22.60	8.05	3.40	0.41	0.20	0.19	0.38		
11	0.17	1.40	0.75	0.55	1.90	66.00	41.60	2.40	0.41	0.18	0.17	2.10		
12	0.17	1.60	0.47	0.70	1.50	41.60	17.47	1.60	0.41	0.16	0.15	0.60		
13	0.17	2.50	0.41	0.50	1.50	32.63	15.13	1.20	0.29	0.16	0.14	0.32		
14	3.90	6.85	0.32	0.47	2.20	23.07	11.40	1.20	0.29	0.16	0.14	0.19		
15	1.10	5.20	0.35	0.70	6.10	16.77	14.90	0.95	0.29	0.16	0.14	0.16		
16	0.35	2.00	0.29	0.70	10.93	8.95	16.77	0.90	0.29	0.16	0.13	0.14		
17	0.29	1.30	0.29	0.65	11.63	6.40	23.07	0.90	0.29	0.16	0.13	0.13		
18	0.23	1.90	0.26	0.65	8.35	4.90	22.83	0.90	0.29	0.17	0.12	0.12		
19	0.29	0.80	0.26	0.85	6.10	6.85	12.33	0.70	0.29	0.18	0.12	0.13		
20	3.10	0.50	1.50	1.50	7.00	5.05	8.35	0.70	0.29	0.20	0.12	0.12		
21	0.65	0.50	0.47	1.60	5.65	3.50	7.00	0.60	0.29	0.19	0.12	0.18		
22	0.65	0.38	0.32	1.60	3.50	3.60	5.80	0.55	0.26	0.17	0.12	0.12		
23	0.32	0.44	0.29	1.30	2.50	4.45	4.60	0.70	0.26	0.18	0.12	0.09		
24	0.80	0.41	0.23	1.00	1.90	14.90	3.90	0.75	0.23	0.26	0.12	0.08		
25	0.47	0.85	0.19	0.80	1.90	18.40	3.50	0.70	0.26	0.26	0.14	0.07		
26	0.32	1.70	0.19	2.20	1.90	8.65	3.30	0.65	0.26	0.75	0.13	0.06		
27	0.38	4.75	58.00	4.90	1.50	49.60	2.90	0.60	0.23	0.47	0.11	0.06		
28	0.90	3.80	53.20	3.80	1.30	34.73	2.70	0.60	0.20	0.29	0.09	0.05		
29	1.20	4.60	10.70	2.80	1.90	15.37	2.60	0.50	0.20	0.20	0.12	0.04		
30	2.30	2.50	4.60	1.60	2.00	8.95	2.30	0.50	0.20	0.23		0.04		
31		2.50		2.50	3.10		2.20		0.20	0.41		0.03		
Total	20.38	54.15	143.34	46.97	172.19	409.97	324.63	35.70	9.86	6.99	4.77	6.18	1235.13	CMSDAY
Mean	0.68	1.75	4.78	1.52	5.55	13.67	10.47	1.19	0.32	0.23	0.16	0.20	3.37	CMS
Max	3.90	6.85	58.00	4.90	25.40	66.00	41.60	3.40	0.50	0.75	0.44	2.10	66.00	CMS
Min	0.13	0.29	0.19	0.47	1.30	1.00	2.20	0.50	0.20	0.16	0.09	0.03	0.03	CMS
Runoff	1.76	4.68	12.39	4.06	14.88	35.42	28.05	3.08	0.85	0.60	0.41	0.53	106.72	MCM
Momentary Peak	146.20 CMS, at 390.29 m. (MSL) , at 24.00 Hours , on Jun 27 , 2011													
Runoff Yield	10.07	Liters/Second/Square KM.			Momentary Peak Yield 436.418			Liters/Second/Square KM.						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

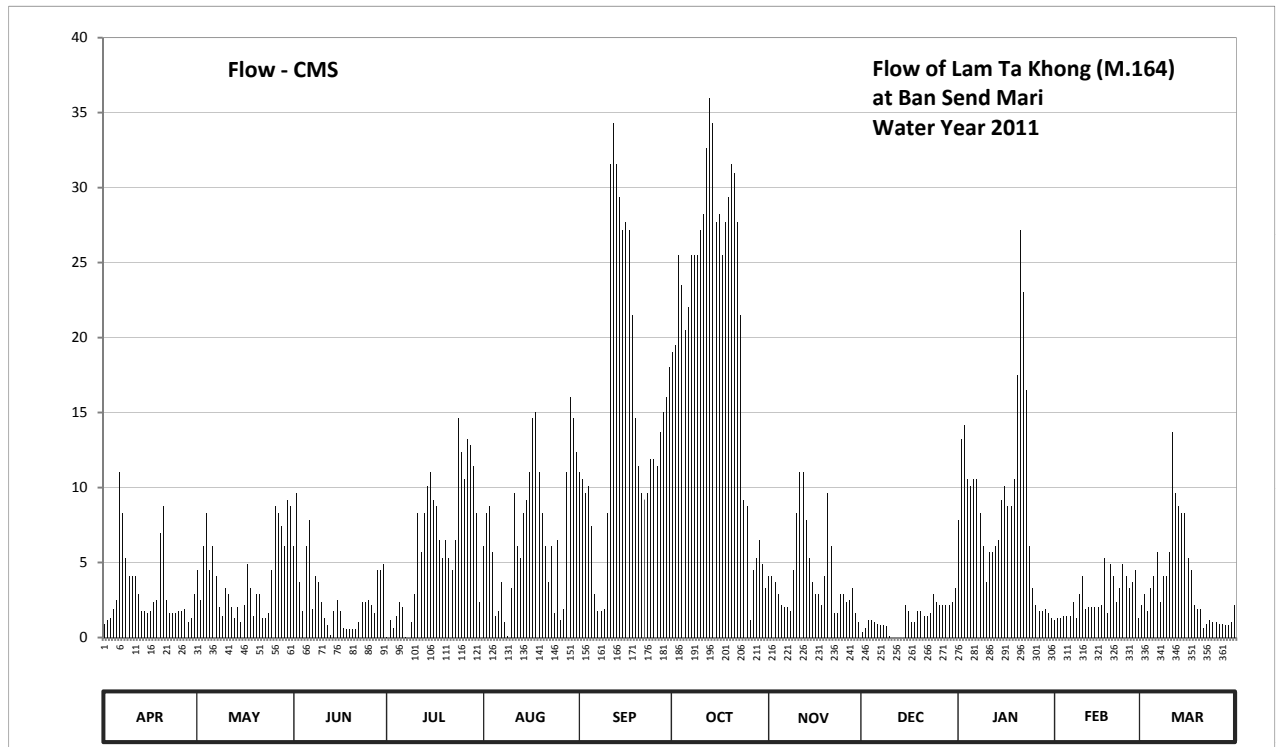
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	0.40	0.30	5.25	8.04	5.00	7.35	2.62	0.72	0.47	0.47	0.43		
2	0.40	0.40	0.30	6.25	14.95	12.18	21.51	2.37	0.72	0.47	0.47	0.43		
3	0.40	0.40	0.28	4.75	14.25	19.78	40.16	2.12	0.72	0.47	0.45	0.43		
4	0.40	0.40	0.30	3.12	12.53	22.89	20.13	1.90	0.72	0.47	0.45	0.43		
5	0.40	0.40	0.32	2.50	10.45	28.42	11.49	1.70	0.72	0.45	0.45	0.43		
6	0.40	0.40	0.37	2.25	6.75	75.62	6.75	1.50	0.72	0.45	0.45	0.40		
7	0.40	0.40	0.40	1.90	66.70	73.50	5.00	1.40	0.72	0.45	0.45	0.37		
8	0.40	0.40	0.40	1.10	188.13	28.07	4.37	1.30	0.72	0.45	0.45	0.40		
9	0.40	0.43	0.47	0.85	184.80	55.80	4.25	1.10	0.72	0.45	0.45	0.45		
10	0.37	0.40	0.20	0.98	169.13	72.22	4.00	0.98	0.72	0.45	0.45	0.45		
11	0.37	0.40	1.10	3.62	59.00	42.93	3.12	0.93	0.70	0.45	0.45	0.43		
12	0.37	0.40	1.70	3.50	49.40	33.25	3.25	0.87	0.70	0.45	0.45	0.43		
13	0.37	0.22	1.10	13.91	24.62	22.20	16.33	0.82	0.67	0.45	0.45	0.40		
14	0.37	0.30	1.90	71.37	13.56	15.29	21.51	0.80	0.67	0.45	0.45	0.37		
15	0.37	0.60	3.38	53.00	31.87	17.02	33.95	0.78	0.65	0.45	0.45	0.37		
16	0.37	0.55	2.62	46.60	42.93	10.80	21.51	0.80	0.65	0.45	0.43	0.35		
17	0.37	0.43	1.30	30.15	30.15	16.33	15.29	0.78	0.65	0.45	0.43	0.30		
18	0.43	0.40	2.87	18.40	24.62	12.87	9.42	0.75	0.65	0.45	0.43	0.28		
19	0.43	0.43	2.00	14.95	69.25	10.11	6.75	0.75	0.65	0.45	0.43	0.22		
20	0.40	0.40	2.37	10.80	106.23	11.49	5.50	0.72	0.65	0.45	0.43	0.22		
21	0.40	0.40	4.37	23.93	54.20	10.45	4.50	0.72	0.65	0.45	0.43	0.25		
22	0.43	0.40	4.13	33.60	39.13	15.64	4.13	0.70	0.65	0.45	0.43	0.25		
23	0.45	0.40	3.62	30.15	17.71	10.45	3.75	0.82	0.65	0.45	0.43	0.25		
24	0.40	0.20	2.50	15.29	9.42	9.07	3.25	0.90	0.65	0.45	0.43	0.25		
25	0.40	0.20	1.90	27.73	6.50	7.35	3.50	0.80	0.63	0.45	0.43	0.25		
26	0.40	0.43	1.80	20.13	6.25	5.25	3.62	0.80	0.52	0.45	0.43	0.28		
27	0.40	0.43	1.80	11.84	7.00	4.50	3.25	0.75	0.47	0.45	0.43	0.32		
28	0.40	0.40	1.40	6.75	9.76	5.50	3.00	0.70	0.47	0.45	0.43	0.30		
29	0.40	0.35	0.98	5.25	7.00	5.25	2.75	0.67	0.47	0.45	0.43	0.30		
30	0.40	0.32	0.93	4.25	6.00	10.11	2.50	0.72	0.45	0.50		0.28		
31		0.30		4.37	5.25		2.75		0.45	0.47		0.25		
Total	11.90	11.99	47.11	478.54	1295.58	669.34	298.64	32.57	19.90	14.10	12.81	10.57	2903.05	CMSDAY
Mean	0.40	0.39	1.57	15.44	41.79	22.31	9.63	1.09	0.64	0.45	0.44	0.34	7.93	CMS
Max	0.45	0.60	4.37	71.37	188.13	75.62	40.16	2.62	0.72	0.50	0.47	0.45	188.13	CMS
Min	0.37	0.20	0.20	0.85	5.25	4.50	2.50	0.67	0.45	0.45	0.43	0.22	0.20	CMS
Runoff	1.03	1.04	4.07	41.35	111.94	57.83	25.80	2.81	1.72	1.22	1.11	0.91	250.82	MCM
Momentary Peak	CMS, at 201.90 m. (MSL), at 18.00 Hours, on Aug 9, 2011													
Runoff Yield	36.22	Liters/Second/Square KM.			Momentary Peak Yield			921.918	Liters/Second/Square KM.					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.25	0.55	0.93	0.77	0.30	0.47	0.38	0.00	0.33	0.00		
2	0.00	0.00	0.22	0.65	1.80	1.25	2.40	0.45	0.38	0.00	0.33	0.00		
3	0.00	0.00	0.20	0.57	1.00	1.25	3.45	0.42	0.38	0.00	0.30	0.00		
4	0.00	0.00	0.18	0.53	0.90	0.65	1.30	0.40	0.38	0.00	0.30	0.00		
5	0.00	0.00	0.25	0.47	0.80	2.70	0.93	0.38	0.38	0.00	0.27	0.00		
6	0.00	0.00	0.30	0.42	0.75	7.05	0.82	0.38	0.38	0.00	0.25	0.00		
7	0.00	0.00	0.30	0.42	11.55	9.30	0.73	0.38	0.35	0.00	0.22	0.00		
8	0.00	0.00	0.00	0.40	35.58	3.75	0.70	0.38	0.35	0.00	0.20	0.00		
9	0.00	0.00	0.33	0.40	34.86	11.25	0.67	0.38	0.35	0.00	0.18	0.00		
10	0.00	0.00	0.00	0.57	16.70	9.15	0.65	0.35	0.33	0.00	0.15	0.00		
11	0.00	0.00	0.53	0.77	4.65	4.05	0.57	0.35	0.33	0.00	0.13	0.00		
12	0.00	0.00	0.47	0.62	8.55	3.60	0.57	0.35	0.30	0.00	0.10	0.00		
13	0.00	0.00	0.42	1.20	3.30	1.85	2.00	0.35	0.30	0.00	0.07	0.00		
14	0.00	0.00	0.22	18.50	1.40	1.35	1.85	0.35	0.30	0.00	0.05	0.00		
15	0.00	0.00	0.73	10.80	8.85	0.70	2.50	0.35	0.27	0.00	0.03	0.00		
16	0.00	0.00	0.67	6.75	9.30	0.73	1.70	0.35	0.27	0.00	0.00	0.00		
17	0.00	0.13	0.13	3.00	2.60	1.25	1.50	0.35	0.27	0.00	0.00	0.00		
18	0.00	0.05	0.67	1.50	1.70	0.93	1.00	0.35	0.25	0.00	0.03	0.00		
19	0.00	0.00	0.57	1.10	15.75	0.80	0.93	0.35	0.22	0.00	0.13	0.00		
20	0.00	0.07	0.62	0.90	10.05	0.75	0.87	0.30	0.22	0.00	0.18	0.00		
21	0.00	0.05	0.70	6.75	3.60	0.93	0.82	0.30	0.20	0.00	0.15	0.00		
22	0.00	0.03	0.67	7.35	1.95	1.35	0.73	0.27	0.20	0.00	0.13	0.00		
23	0.00	0.07	0.60	4.05	1.20	0.97	0.70	0.35	0.18	0.00	0.10	0.00		
24	0.00	0.00	0.53	1.60	0.93	0.85	0.67	0.35	0.18	0.00	0.07	0.00		
25	0.00	0.00	0.50	22.04	0.80	0.75	0.65	0.35	0.18	0.00	0.05	0.00		
26	0.00	0.33	0.45	4.20	0.67	0.70	0.62	0.33	0.15	0.00	0.00	0.00		
27	0.00	0.30	0.42	1.60	0.65	0.67	0.60	0.33	0.15	0.00	0.00	0.00		
28	0.00	0.27	0.38	0.95	1.15	0.75	0.57	0.33	0.15	0.00	0.00	0.00		
29	0.00	0.27	0.40	0.82	0.90	0.35	0.55	0.33	0.15	0.00	0.00	0.00		
30	0.00	0.25	0.42	0.70	0.82	0.62	0.53	0.33	0.15	0.00		0.00		
31		0.25		0.73	0.75		0.50		0.15	0.00		0.00		
Total	0.00	2.07	12.13	10.91	184.44	71.07	32.38	10.71	8.23	0.00	3.75	0.00	425.69	CMSDAY
Mean	0.00	0.07	0.40	3.26	5.95	2.37	1.04	0.36						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.70	7.10	9.20	92.60	402.50	443.20	28.30	3.00	0.55	0.00	
2	0.00	0.00	2.10	6.80	9.30	107.00	406.90	355.20	24.40	2.20	0.34	0.00	
3	0.00	0.00	2.30	6.30	9.20	114.00	424.50	312.90	19.30	1.50	0.18	0.00	
4	0.00	0.00	2.50	5.90	10.50	122.25	461.90	283.10	16.40	0.95	0.12	0.00	
5	0.00	0.00	2.80	5.10	10.70	123.00	471.80	259.10	14.40	0.90	0.08	0.00	
6	0.00	0.00	2.90	4.60	9.60	117.75	477.30	236.70	13.30	0.65	0.00	0.00	
7	0.00	0.00	3.20	4.30	9.90	108.40	479.50	215.10	12.00	0.46	0.00	0.00	
8	0.00	0.00	3.60	4.00	8.90	99.80	475.10	199.90	10.30	0.50	0.00	0.00	
9	0.00	0.00	4.30	3.70	7.50	94.40	468.50	190.30	9.30	0.46	0.08	0.00	
10	0.00	0.00	5.40	3.50	7.40	120.75	455.30	178.50	8.20	0.44	0.00	0.00	
11	0.00	0.00	5.70	3.10	6.70	124.50	446.50	168.00	7.00	0.42	0.00	0.00	
12	0.00	0.00	5.80	2.90	6.20	180.00	437.70	159.75	5.70	0.42	0.00	0.00	
13	0.00	0.00	5.80	3.10	5.20	223.90	436.60	150.75	4.40	0.30	0.00	0.00	
14	0.00	0.00	5.90	3.60	7.60	249.50	447.60	144.00	3.50	0.00	0.00	0.00	
15	0.00	0.00	5.80	4.50	8.10	262.30	465.20	137.25	2.90	0.00	0.00	0.00	
16	0.00	0.00	6.30	5.10	8.50	265.50	499.60	125.25	3.00	0.02	0.00	0.00	
17	0.00	0.00	7.20	5.60	8.30	261.50	556.70	115.50	3.00	0.02	0.00	0.00	
18	0.00	0.00	7.90	5.60	8.70	257.50	598.60	105.80	2.80	0.00	0.00	0.00	
19	0.00	0.00	8.70	5.50	9.50	254.30	640.20	99.80	2.20	0.00	0.00	0.00	
20	0.00	0.00	9.60	5.50	37.60	243.90	697.20	92.60	1.90	0.00	0.00	0.00	
21	0.00	0.00	10.20	5.50	59.00	227.90	740.00	84.80	2.30	0.00	0.00	0.00	
22	0.00	0.00	11.10	7.10	66.00	215.10	776.80	78.80	2.00	0.00	0.00	0.00	
23	0.00	0.00	11.60	8.40	62.50	221.50	788.30	72.80	2.40	0.18	0.00	0.00	
24	0.00	0.00	11.30	9.00	59.50	239.10	781.40	65.50	2.30	0.34	0.00	0.00	
25	0.00	0.00	10.90	9.50	55.50	269.50	772.20	58.50	2.30	3.50	0.00	0.00	
26	0.00	0.00	9.20	10.00	48.20	283.95	717.00	53.50	2.30	3.00	0.00	0.00	
27	0.00	0.14	8.80	10.80	44.60	293.30	686.40	47.40	2.20	2.80	0.00	0.00	
28	0.00	0.40	8.50	9.10	47.00	334.50	650.40	42.70	2.70	2.60	0.00	0.00	
29	0.00	0.90	7.80	9.70	51.00	371.00	612.00	37.60	2.70	2.30	0.00	0.00	
30	0.00	1.30	7.30	9.90	62.00	395.00	554.10	32.80	1.90	1.60		0.00	
31		1.50		10.20	73.40		490.50		4.50	0.95		0.00	
Total	0.00	4.24	196.20	195.00	827.30	6273.70	17318.30	4547.10	219.90	29.51	1.35	0.00	29612.60 CMSDAY
Mean	0.00	0.14	6.54	6.29	26.69	209.12	558.65	151.57	7.09	0.95	0.05	0.00	80.91 CMS
Max	0.00	1.50	11.60	10.80	73.40	395.00	788.30	443.20	28.30	3.50	0.55	0.00	788.30 CMS
Min	0.00	0.00	1.70	2.90	5.20	92.60	402.50	32.80	1.90	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	0.37	16.95	16.85	71.48	542.05	1496.30	392.87	19.00	2.55	0.12	0.00	2558.53 MCM
Momentary Peak	788.30 CMS, at 131.81 m. (MSL), at 06.00 Hours, on Oct 23, 2011												
Runoff Yield	16.83 Liters/Second/Square KM.			Momentary Peak Yield			164.024	Liters/Second/Square KM.					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.91	4.50	6.10	0.06	6.10	11.00	19.00	4.10	0.37	7.85	1.15	2.20		
2	1.15	2.50	9.65	1.15	8.30	10.55	19.50	4.10	0.64	13.25	1.30	2.90		
3	1.30	6.10	3.70	0.64	8.75	9.65	25.50	3.70	1.15	14.15	1.30	1.75		
4	1.90	8.30	1.75	1.45	5.70	10.10	23.50	2.90	1.15	10.55	1.45	3.30		
5	2.50	4.50	6.10	2.35	1.45	7.40	20.50	2.20	1.00	10.10	1.45	4.10		
6	11.00	6.10	7.85	2.05	1.75	2.90	22.00	2.05	0.91	10.55	1.45	5.70		
7	8.30	4.10	1.90	0.05	3.70	1.75	25.50	2.05	0.82	10.55	2.35	2.35		
8	5.30	2.05	4.10	0.00	1.00	1.75	25.50	1.75	0.82	8.30	1.30	4.10		
9	4.10	1.45	3.70	1.00	0.10	1.90	25.50	4.50	0.73	6.10	2.90	4.10		
10	4.10	3.30	2.35	2.90	3.30	8.30	27.15	8.30	0.09	3.70	4.10	5.70		
11	4.10	2.90	1.30	8.30	9.65	31.55	28.25	11.00	0.00	5.70	1.90	13.70		
12	2.90	2.05	0.82	5.70	6.10	34.30	32.65	11.00	0.00	5.70	2.05	9.65		
13	1.75	1.30	0.19	8.30	5.30	31.55	35.95	7.85	0.00	6.10	2.05	8.75		
14	1.75	2.05	1.75	10.10	8.30	29.35	34.30	5.30	0.00	6.50	2.05	8.30		
15	1.60	1.00	2.50	11.00	9.20	27.15	27.70	3.70	2.20	9.20	2.05	8.30		
16	1.75	2.20	1.75	9.20	11.00	27.70	28.25	2.90	1.75	10.10	2.20	5.30		
17	2.35	4.90	0.64	8.75	14.60	27.15	25.50	2.90	1.00	8.75	5.30	4.50		
18	2.50	3.30	0.55	6.50	15.05	21.50	27.70	2.20	1.00	8.75	1.60	2.20		
19	6.95	1.45	0.55	5.30	11.00	14.60	29.35	4.10	1.75	10.55	4.90	1.90		
20	8.75	2.90	0.55	6.50	8.30	11.45	31.55	9.65	1.75	17.50	4.10	1.90		
21	2.50	2.90	0.55	5.30	6.10	9.65	31.00	6.10	1.45	27.15	2.35	0.64		
22	1.60	1.30	1.00	4.50	3.70	9.20	27.70	1.60	1.45	23.00	3.30	0.91		
23	1.60	1.30	2.35	6.50	6.10	9.65	21.50	1.60	1.60	16.50	4.90	1.15		
24	1.60	1.60	2.35	14.60	1.60	11.90	9.20	2.90	2.90	6.10	4.10	1.00		
25	1.75	4.50	2.50	12.35	6.50	11.90	8.75	2.90	2.35	3.30	3.30	1.00		
26	1.75	8.75	2.20	10.55	1.15	11.45	1.15	2.35	2.20	2.20	3.70	0.91		
27	1.90	8.30	1.60	13.25	1.90	13.70	4.50	2.50	2.20	1.75	4.50	0.91		
28	1.00	7.40	4.50	12.80	11.00	15.05	5.30	3.30	2.20	1.75	1.30	0.82		
29	1.30	6.10	4.50	11.45	16.00	16.00	6.50	1.60	2.20	1.90	1.30	0.82		
30	2.90	9.20	4.90	8.30	14.60	18.00	4.90	1.00	2.35	1.60		1.00		
31		8.75		2.35	12.35		3.30		3.30	1.30		2.20		
Total	92.86	127.05	84.25	193.25	219.65	448.10	658.65	122.10	41.33	270.50	75.70	112.06	2445.50	CMSDAY
Mean	3.10	4.10	2.81	6.23	7.09	14.94	21.25	4.07	1.33	8.73	2.61	3.61	6.68	CMS
Max	11.00	9.20	9.65	14.60	16.00	34.30	35.95	11.00	3.30	27.15	5.30	13.70	35.95	CMS
Min	0.91	1.00	0.19	0.00	0.10	1.75	1.15	1.00	0.00	1.30	1.15	0.64	0.00	CMS
Runoff	8.02	10.98	7.28	16.70	18.98	38.72	56.91	10.55	3.57	23.37	6.54	9.68	211.29	MCM
Momentary Peak	40.10	CMS, at 177.16 m. (MSL), at 21.00 Hours, on Oct 13, 2011												
Runoff Yield	2.22	Liters/Second/Square KM.			Momentary Peak Yield			13.313	Liters/Second/Square KM.					

WATER YEAR : 2011**MUN RIVER BASIN****Lam Dom Yai at Ban Kham Samran, Ubon Ratehathani (M.170)**

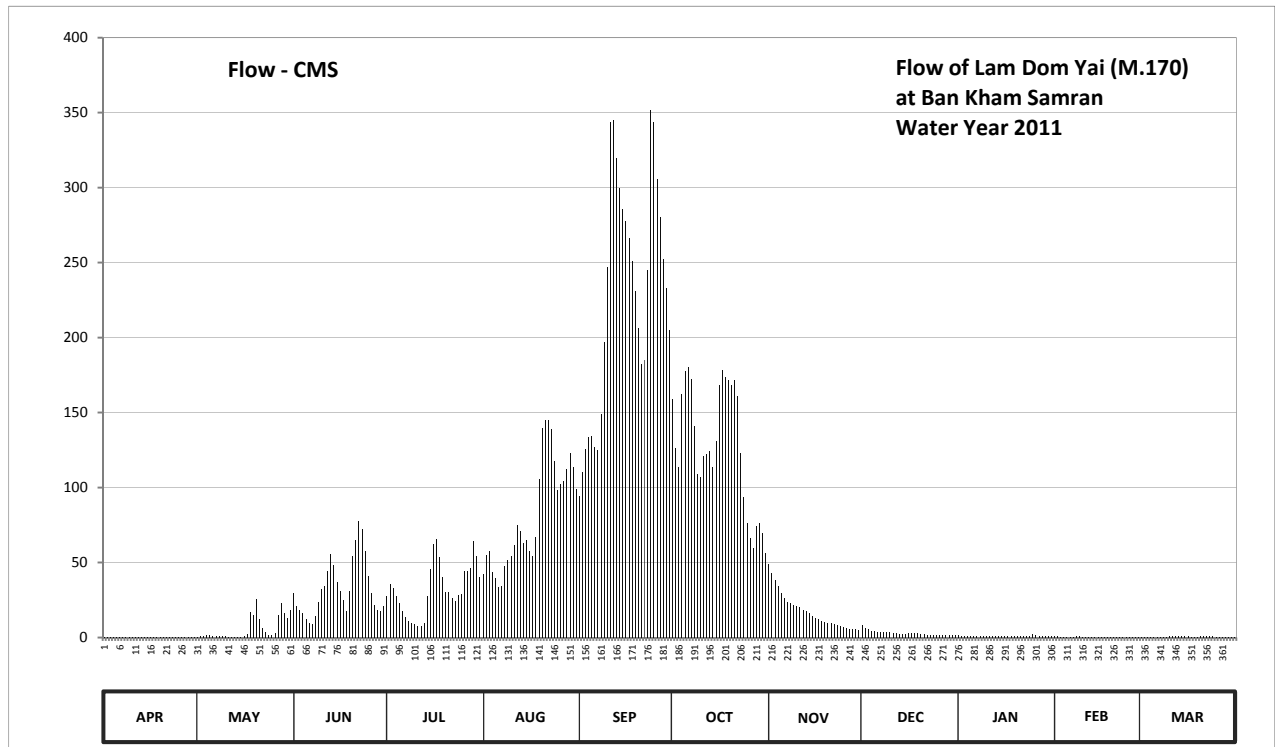
Lat 14 - 47 - 19 N Long 105 - 06 - 10 E

Location : on right bank at the bridge

	Ban	Kham Samran	Amphoe	Det Udom	Changwat	Ubon Ratchathani
Drainage Area	1,745	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+123.340	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank upstream at the footpath				Elevation	+133.374 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2001 to date					
Rating Operation						
Period of Rating	2001 to date					
Rated by Flot	-					
Rated by Current Meter	2001 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 35 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

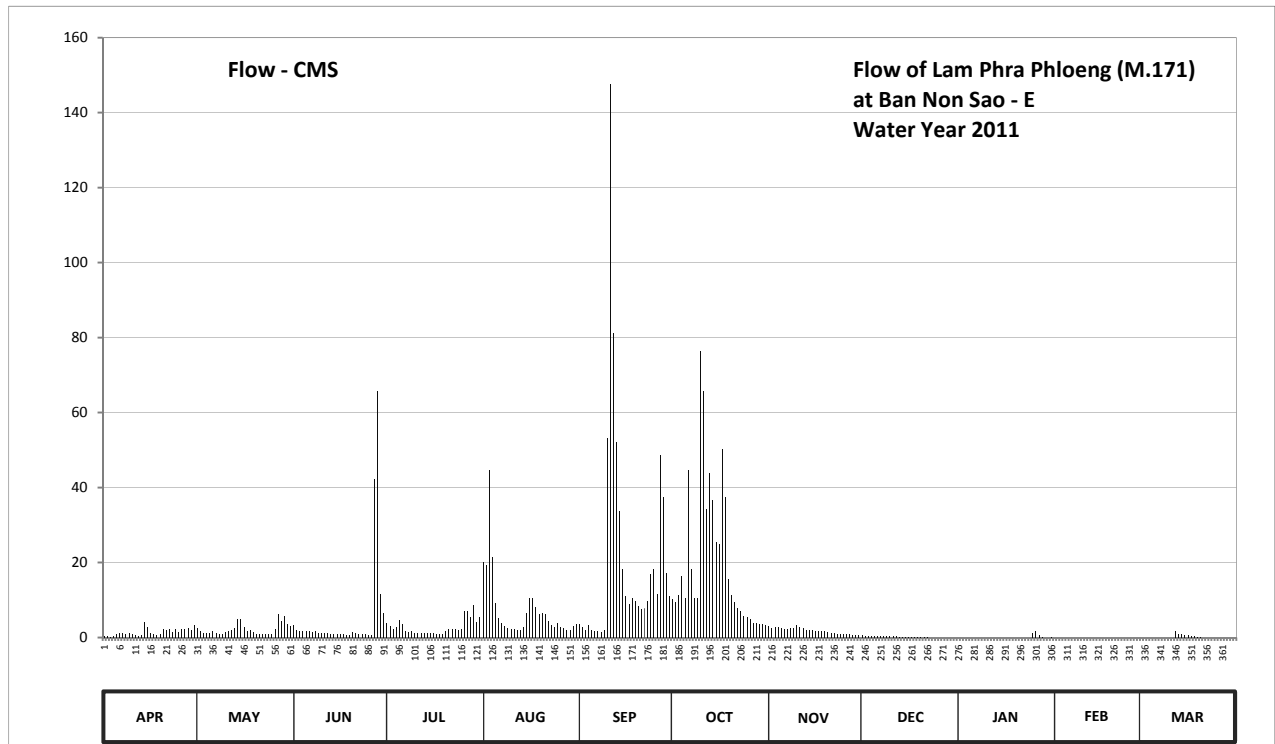
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.66	123.83	125.46	125.36	125.94	127.77	129.50	126.22	124.55	124.02	123.86	123.73	
2	123.66	123.89	125.09	125.69	126.44	128.24	128.70	125.98	124.47	124.01	123.84	123.73	
3	123.65	123.85	124.98	125.59	126.52	128.69	128.34	125.80	124.40	124.00	123.83	123.74	
4	123.65	124.08	124.90	125.36	126.01	128.90	129.58	125.62	124.33	123.99	123.82	123.75	
5	123.65	124.02	124.76	125.19	125.84	128.91	129.91	125.46	124.30	123.98	123.81	123.74	
6	123.66	123.99	124.62	124.96	125.61	128.72	129.96	125.30	124.27	123.97	123.81	123.74	
7	123.66	123.98	124.61	124.81	125.64	128.67	129.80	125.21	124.25	123.97	123.80	123.74	
8	123.65	123.91	124.84	124.71	126.16	129.27	129.09	125.17	124.24	123.98	123.84	123.76	
9	123.65	123.88	125.20	124.64	126.31	130.28	128.20	125.13	124.26	123.97	123.84	123.80	
10	123.65	123.84	125.54	124.59	126.41	131.06	128.14	125.10	124.24	123.97	123.83	123.84	
11	123.65	123.81	125.64	124.54	126.68	132.08	128.57	125.06	124.20	123.96	123.83	123.87	
12	123.64	123.77	126.04	124.52	127.14	132.09	128.60	125.00	124.17	123.96	123.82	123.89	
13	123.64	123.74	126.46	124.62	127.02	131.88	128.65	124.97	124.13	123.94	123.82	123.88	
14	123.64	123.77	126.19	125.37	126.74	131.70	128.34	124.90	124.11	123.93	123.80	123.87	
15	123.64	123.76	125.73	126.09	126.81	131.55	128.82	124.84	124.14	123.90	123.78	123.86	
16	123.64	124.01	125.49	126.71	126.52	131.45	129.71	124.79	124.16	123.89	123.77	123.84	
17	123.64	124.12	125.26	126.82	126.42	131.30	129.93	124.76	124.16	123.92	123.77	123.81	
18	123.66	124.93	124.97	126.39	126.87	131.11	129.83	124.71	124.20	123.92	123.79	123.78	
19	123.67	124.86	125.51	125.86	128.12	130.83	129.79	124.67	124.19	123.92	123.79	123.77	
20	123.66	125.28	126.41	125.47	129.06	130.44	129.71	124.64	124.13	123.92	123.81	123.90	
21	123.64	124.74	126.80	125.47	129.19	130.01	129.79	124.62	124.11	123.89	123.79	123.92	
22	123.64	124.47	127.24	125.32	129.19	130.06	129.55	124.59	124.08	123.88	123.78	123.94	
23	123.67	124.26	127.05	125.23	129.04	131.03	128.61	124.56	124.04	123.88	123.78	123.91	
24	123.66	124.09	126.54	125.39	128.46	132.14	127.76	124.52	124.07	123.95	123.77	123.88	
25	123.65	124.09	125.91	125.42	127.89	132.08	127.20	124.49	124.06	124.10	123.77	123.83	
26	123.65	124.20	125.44	126.03	128.01	131.75	126.84	124.46	124.07	124.02	123.75	123.81	
27	123.64	124.85	125.12	126.02	128.07	131.48	126.61	124.43	124.06	123.96	123.73	123.79	
28	123.66	125.17	125.00	126.11	128.31	131.13	127.12	124.41	124.06	123.91	123.72	123.77	
29	123.71	124.92	124.97	126.78	128.61	130.86	127.19	124.39	124.04	123.90	123.72	123.76	
30	123.79	124.77	125.11	126.42	128.34	130.42	126.96	124.37	124.03	123.93		123.74	
31		124.99		125.86	127.91		126.49		124.03	123.92		123.78	
Mean	123.66	124.25	125.56	125.53	127.27	130.53	128.62	124.94	124.18	123.95	123.80	123.81	
Max	123.79	125.28	127.24	126.82	129.19	132.14	129.96	126.22	124.55	124.10	123.86	123.94	132.14
Min	123.64	123.74	124.61	124.52	125.61	127.77	126.49	124.37	124.03	123.88	123.72	123.73	123.64
Annual Max Momentary Gage Height	132.22		m. (MSL.) ,				at 18.00 Hours, on Sep 24, 2011						
Zero Gage at Bottom Elevation	123.34		m. (MSL.) ,			River Bed	123.05		m. (MSL)				
Left Bank Elevation	133.05		m. (MSL.) ,										
Right Bank Elevation	133.08		m. (MSL.) ,			Drainage Area	1745		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.66	30.00	27.50	42.00	93.98	158.80	49.24	8.00	1.36	0.72	0.46	
2	0.32	0.78	20.75	35.75	55.18	109.96	126.00	43.00	6.55	1.28	0.68	0.46	
3	0.30	0.70	18.00	33.25	57.34	125.62	113.36	38.50	5.50	1.20	0.66	0.48	
4	0.30	1.84	16.00	27.50	43.75	133.60	162.32	34.00	4.45	1.16	0.64	0.50	
5	0.30	1.36	12.50	23.25	39.50	133.98	177.50	30.00	4.00	1.12	0.62	0.48	
6	0.32	1.16	9.40	17.50	33.75	126.76	180.00	26.00	3.70	1.08	0.62	0.48	
7	0.32	1.12	9.20	13.75	34.50	124.86	172.40	23.75	3.50	1.08	0.60	0.48	
8	0.30	0.84	14.50	11.25	47.62	148.68	141.09	22.75	3.40	1.12	0.68	0.52	
9	0.30	0.76	23.50	9.80	51.67	196.80	108.60	21.75	3.60	1.08	0.68	0.60	
10	0.30	0.68	32.00	8.80	54.37	247.20	106.56	21.00	3.40	1.08	0.66	0.68	
11	0.30	0.62	34.50	7.80	61.66	343.60	121.18	20.00	3.00	1.04	0.66	0.74	
12	0.28	0.54	44.50	7.40	74.80	344.80	122.20	18.50	2.70	1.04	0.64	0.78	
13	0.28	0.48	55.72	9.40	71.20	319.80	124.10	17.75	2.30	0.96	0.64	0.76	
14	0.28	0.54	48.43	27.75	63.28	300.00	113.36	16.00	2.10	0.92	0.60	0.74	
15	0.28	0.52	36.75	45.75	65.17	286.00	130.56	14.50	2.40	0.80	0.56	0.72	
16	0.28	1.28	30.75	62.47	57.34	278.00	168.26	13.25	2.60	0.78	0.54	0.68	
17	0.28	2.20	25.00	65.44	54.64	266.00	178.50	12.50	2.60	0.88	0.54	0.62	
18	0.32	16.75	17.75	53.83	66.79	250.80	173.78	11.25	3.00	0.88	0.58	0.56	
19	0.34	15.00	31.25	40.00	105.88	231.10	171.94	10.40	2.90	0.88	0.58	0.54	
20	0.32	25.50	54.37	30.25	139.86	206.40	168.26	9.80	2.30	0.88	0.62	0.80	
21	0.28	12.00	64.90	30.25	145.19	182.50	171.94	9.40	2.10	0.78	0.58	0.88	
22	0.28	6.55	77.80	26.50	145.19	185.00	161.00	8.80	1.84	0.76	0.56	0.96	
23	0.34	3.60	72.10	24.25	139.04	245.10	122.58	8.20	1.52	0.76	0.56	0.84	
24	0.32	1.92	57.88	28.25	117.44	351.40	93.64	7.40	1.76	1.00	0.54	0.76	
25	0.30	1.92	41.25	29.00	98.06	343.60	76.60	6.85	1.68	2.00	0.54	0.66	
26	0.30	3.00	29.50	44.25	102.14	305.50	65.98	6.40	1.76	1.36	0.50	0.62	
27	0.28	14.75	21.50	44.00	104.18	280.40	59.77	5.95	1.68	1.04	0.46	0.58	
28	0.32	22.75	18.50	46.27	112.34	252.40	74.20	5.65	1.68	0.84	0.44	0.54	
29	0.42	16.50	17.75	64.36	122.58	233.20	76.30	5.35	1.52	0.80	0.44	0.52	
30	0.58	12.75	21.25	54.64	113.36	205.20	69.40	5.05	1.44	0.92		0.48	
31		18.25		40.00	98.74		56.53		1.44	0.88		0.56	
Total	9.46	187.32	987.30	990.21	2518.56	6852.24	3946.71	522.99	90.42	31.76	17.14	19.48	16173.59 CMSDAY
Mean	0.32	6.04	32.91	31.94	81.24	228.41	127.31	17.43	2.92	1.02	0.59	0.63	44.19 CMS
Max	0.58	25.50	77.80	65.44	145.19	351.40	180.00	49.24	8.00	2.00	0.72	0.96	351.40 CMS
Min	0.28	0.48	9.20	7.40	33.75	93.98	56.53	5.05	1.44	0.76	0.44	0.46	0.28 CMS
Runoff	0.82	16.18	85.30	85.55	217.60	592.03	341.00	45.19	7.81	2.74	1.48	1.68	1397.40 MCM
Momentary Peak	362.20 CMS, at 132.22 m. (MSL), at 18.00 Hours, on Sep 24, 2011												
Runoff Yield	25.32 Liters/Second/Square KM.			Momentary Peak Yield			207.564	Liters/Second/Square KM.					

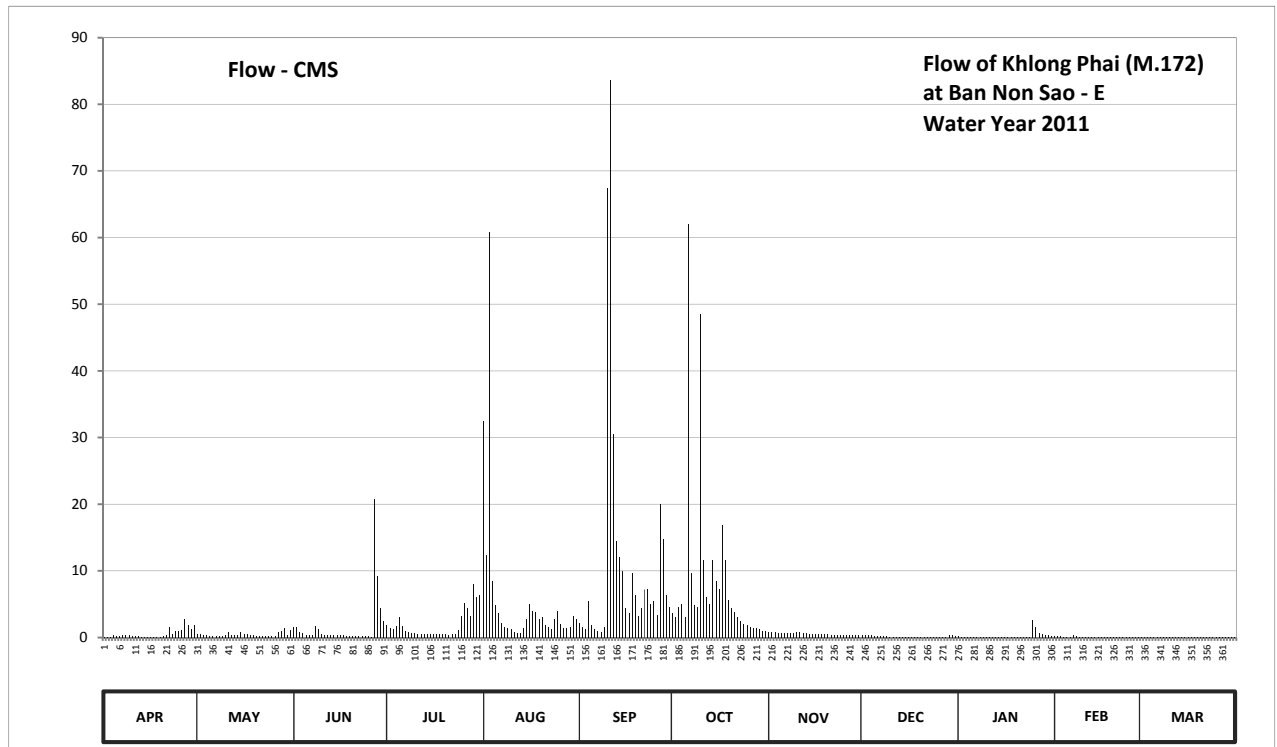
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	273.48	273.75	273.84	273.88	274.50	273.86	274.21	273.80	273.54	273.39	273.35	273.27	
2	273.46	273.68	273.70	273.80	274.48	273.77	274.17	273.76	273.47	273.39	273.33	273.28	
3	273.44	273.63	273.68	273.73	274.92	273.71	274.26	273.78	273.46	273.39	273.33	273.25	
4	273.49	273.62	273.68	273.79	274.54	273.84	274.41	273.77	273.46	273.37	273.39	273.24	
5	273.60	273.61	273.67	273.93	274.16	273.71	274.22	273.75	273.46	273.36	273.38	273.23	
6	273.63	273.67	273.66	273.87	273.96	273.68	274.92	273.73	273.46	273.36	273.37	273.21	
7	273.63	273.63	273.64	273.67	273.89	273.66	274.46	273.73	273.48	273.35	273.36	273.21	
8	273.60	273.57	273.68	273.65	273.80	273.65	274.22	273.76	273.48	273.34	273.35	273.21	
9	273.63	273.56	273.63	273.67	273.76	273.70	274.22	273.76	273.46	273.33	273.36	273.24	
10	273.56	273.65	273.63	273.63	273.73	275.02	275.22	273.82	273.46	273.33	273.33	273.34	
11	273.53	273.67	273.63	273.63	273.72	275.71	275.13	273.78	273.46	273.33	273.32	273.33	
12	273.50	273.69	273.61	273.61	273.70	275.26	274.79	273.76	273.46	273.33	273.33	273.68	
13	273.52	273.75	273.57	273.61	273.70	275.01	274.91	273.70	273.45	273.32	273.33	273.60	
14	273.90	273.95	273.57	273.61	273.79	274.78	274.82	273.69	273.44	273.32	273.33	273.58	
15	273.79	273.94	273.57	273.61	274.02	274.46	274.63	273.69	273.43	273.32	273.33	273.54	
16	273.63	273.78	273.56	273.61	274.22	274.25	274.62	273.68	273.41	273.32	273.33	273.52	
17	273.60	273.68	273.56	273.60	274.23	274.15	274.99	273.67	273.41	273.32	273.33	273.48	
18	273.53	273.70	273.55	273.60	274.11	274.22	274.83	273.67	273.41	273.32	273.31	273.47	
19	273.57	273.64	273.54	273.60	274.01	274.19	274.39	273.66	273.41	273.33	273.30	273.45	
20	273.72	273.60	273.65	273.68	274.03	274.12	274.26	273.65	273.41	273.34	273.29	273.42	
21	273.70	273.60	273.61	273.74	274.01	274.08	274.17	273.63	273.41	273.32	273.27	273.40	
22	273.73	273.60	273.57	273.72	273.92	274.09	274.09	273.62	273.41	273.32	273.27	273.37	
23	273.64	273.60	273.57	273.72	273.84	274.18	274.05	273.60	273.40	273.32	273.27	273.34	
24	273.73	273.57	273.57	273.70	273.78	274.42	273.99	273.59	273.40	273.35	273.27	273.32	
25	273.64	273.58	273.55	273.74	273.89	274.46	273.97	273.57	273.40	273.62	273.27	273.29	
26	273.72	273.74	273.54	274.05	273.79	274.28	273.95	273.56	273.40	273.66	273.27	273.27	
27	273.73	274.01	274.89	274.05	273.76	274.97	273.89	273.56	273.40	273.54	273.27	273.24	



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	2.50	3.40	3.80	20.00	3.60	10.20	3.00	0.70	0.00	0.00	0.00	
2	0.30	1.80	2.00	3.00	19.20	2.70	9.40	2.60	0.35	0.00	0.00	0.00	
3	0.20	1.30	1.80	2.30	44.60	2.10	11.20	2.80	0.30	0.00	0.00	0.00	
4	0.45	1.20	1.80	2.90	21.60	3.40	16.40	2.70	0.30	0.00	0.00	0.00	
5	1.00	1.10	1.70	4.60	9.20	2.10	10.40	2.50	0.30	0.00	0.00	0.00	
6	1.30	1.70	1.60	3.70	5.20	1.80	44.60	2.30	0.30	0.00	0.00	0.00	
7	1.30	1.30	1.40	1.70	3.90	1.60	18.40	2.30	0.40	0.00	0.00	0.00	
8	1.00	0.85	1.80	1.50	3.00	1.50	10.40	2.60	0.40	0.00	0.00	0.00	
9	1.30	0.80	1.30	1.70	2.60	2.00	10.40	2.60	0.30	0.00	0.00	0.00	
10	0.80	1.50	1.30	1.30	2.30	53.20	76.40	3.20	0.30	0.00	0.00	0.00	
11	0.65	1.70	1.30	1.30	2.20	147.60	65.60	2.80	0.30	0.00	0.00	0.00	
12	0.50	1.90	1.10	1.10	2.00	81.20	34.40	2.60	0.30	0.00	0.00	1.80	
13	0.60	2.50	0.85	1.10	2.00	52.10	43.80	2.00	0.25	0.00	0.00	1.00	
14	4.00	5.00	0.85	1.10	2.90	33.80	36.60	1.90	0.20	0.00	0.00	0.90	
15	2.90	4.80	0.85	1.10	6.40	18.40	25.50	1.90	0.15	0.00	0.00	0.70	
16	1.30	2.80	0.80	1.10	10.40	11.00	25.00	1.80	0.05	0.00	0.00	0.60	
17	1.00	1.80	0.80	1.00	10.60	9.00	50.20	1.70	0.05	0.00	0.00	0.40	
18	0.65	2.00	0.75	1.00	8.20	10.40	37.40	1.70	0.05	0.00	0.00	0.35	
19	0.85	1.40	0.70	1.00	6.20	9.80	15.60	1.60	0.05	0.00	0.00	0.25	
20	2.20	1.00	1.50	1.80	6.60	8.40	11.20	1.50	0.05	0.00	0.00	0.10	
21	2.00	1.00	1.10	2.40	6.20	7.60	9.40	1.30	0.05	0.00	0.00	0.00	
22	2.30	1.00	0.85	2.20	4.40	7.80	7.80	1.20	0.05	0.00	0.00	0.00	
23	1.40	1.00	0.85	2.20	3.40	9.60	7.00	1.00	0.00	0.00	0.00	0.00	
24	2.30	0.85	0.85	2.00	2.80	16.80	5.80	0.95	0.00	0.00	0.00	0.00	
25	1.40	0.90	0.75	2.40	3.90	18.40	5.40	0.85	0.00	1.20	0.00	0.00	
26	2.20	2.40	0.70	7.00	2.90	11.60	5.00	0.80	0.00	1.60	0.00	0.00	
27	2.30	6.20	42.20	7.00	2.60	48.60	3.90	0.80	0.00	0.70	0.00	0.00	
28	2.50	4.40	65.60	5.60	2.10	37.40	3.80	0.75	0.00	0.10	0.00	0.00	
29	2.00	5.80	11.60	8.60	2.10	17.20	3.70	0.70	0.00	0.00	0.00	0.00	
30	3.20	3.60	6.40	4.00	3.10	11.00	3.60	0.70	0.00	0.00		0.00	
31		3.00		5.60	3.70		3.40		0.00	0.10		0.00	
Total	44.30	69.10	158.50	87.10	226.30	641.70	621.90	55.15	5.20	3.70	0.00	6.10	1919.05 CMSDAY
Mean	1.48	2.23	5.28	2.81	7.30	21.39	20.06	1.84	0.17	0.12	0.00	0.20	5.24 CMS
Max	4.00	6.20	65.60	8.60	44.60	147.60	76.40	3.20	0.70	1.60	0.00	1.80	147.60 CMS
Min	0.20	0.80	0.70	1.00	2.00	1.50	3.40	0.70	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	3.83	5.97	13.69	7.53	19.55	55.44	53.73	4.77	0.45	0.32	0.00	0.53	165.81 MCM
Momentary Peak	211.00 CMS, at 276.05 m. (MSL), at 03.00 Hours, on Sep 11, 2011												
Runoff Yield	9.48		Liters/Second/Square KM.		Momentary Peak Yield		381.555	Liters/Second/Square KM.					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	294.10	294.33	294.45	294.49	295.33	294.51	294.58	294.38	294.25	294.15	294.23	294.07	
2	294.10	294.32	294.46	294.44	294.86	294.46	294.55	294.37	294.25	294.13	294.21	294.07	
3	294.08	294.27	294.38	294.42	295.88	294.42	294.63	294.36	294.25	294.13	294.21	294.07	
4	294.27	294.25	294.34	294.47	294.76	294.67	294.65	294.35	294.25	294.13	294.14	294.07	
5	294.24	294.24	294.28	294.55	294.64	294.49	294.55	294.35	294.24	294.13	294.12	294.07	
6	294.22	294.22	294.30	294.47	294.58	294.43	295.90	294.35	294.24	294.13	294.13	294.07	
7	294.28	294.20	294.28	294.40	294.51	294.39	294.79	294.34	294.19	294.12	294.27	294.07	
8	294.25	294.18	294.47	294.37	294.46	294.37	294.64	294.34	294.19	294.12	294.15	294.07	
9	294.25	294.23	294.43	294.35	294.44	294.45	294.63	294.34	294.17	294.12	294.11	294.07	
10	294.23	294.30	294.33	294.35	294.43	295.99	295.65	294.37	294.13	294.10	294.10	294.07	
11	294.20	294.38	294.30	294.33	294.38	296.26	294.84	294.36	294.11	294.10	294.08	294.10	
12	294.18	294.29	294.28	294.32	294.35	295.29	294.70	294.34	294.11	294.08	294.07	294.08	
13	294.13	294.27	294.26	294.32	294.34	294.91	294.65	294.34	294.11	294.08	294.07	294.07	
14	294.11	294.29	294.28	294.32	294.44	294.85	294.84	294.33	294.11	294.08	294.07	294.07	
15	294.07	294.37	294.28	294.33	294.54	294.80	294.76	294.33	294.10	294.08	294.07	294.07	
16	294.06	294.31	294.27	294.33	294.65	294.62	294.73	294.33	294.10	294.08	294.07	294.07	
17	294.06	294.33	294.26	294.33	294.60	294.58	294.97	294.32	294.08	294.08	294.07	294.07	
18	294.08	294.29	294.24	294.32	294.59	294.79	294.84	294.32	294.08	294.10	294.07	294.07	
19	294.08	294.26	294.23	294.32	294.54	294.71	294.68	294.31	294.08	294.10	294.07	294.07	
20	294.24	294.24	294.20	294.31	294.55	294.56	294.62	294.31	294.08	294.14	294.07	294.07	
21	294.30	294.22	294.18	294.30	294.49	294.62	294.59	294.29	294.08	294.13	294.07	294.07	
22	294.46	294.21	294.19	294.33	294.45	294.73	294.55	294.29	294.08	294.12	294.07	294.07	
23	294.33	294.24	294.19	294.33	294.42	294.73	294.52	294.28	294.08	294.12	294.07	294.07	
24	294.39	294.24	294.15	294.41	294.54	294.65	294.50	294.27	294.08	294.10	294.07	294.07	
25	294.40	294.24	294.17	294.56	294.60	294.67	294.48	294.26	294.08	294.53	294.07	294.07	
26	294.41	294.22	294.10	294.66	294.50	294.57	294.46	294.26	294.08	294.45	294.07	294.07	
27	294.54	294.36	295.07	294.62	294.44	295.05	294.44	294.26	294.07	294.35	294.07	294.07	
28	294.49	294.40	294.78	294									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.58	1.50	1.90	32.50	2.20	3.60	0.88	0.30	0.15	0.26	0.09	
2	0.10	0.52	1.60	1.40	12.40	1.60	3.00	0.82	0.30	0.13	0.22	0.09	
3	0.09	0.34	0.88	1.20	60.80	1.20	4.60	0.76	0.30	0.13	0.22	0.09	
4	0.34	0.30	0.64	1.70	8.40	5.40	5.00	0.70	0.30	0.13	0.14	0.09	
5	0.28	0.28	0.36	3.00	4.80	1.90	3.00	0.70	0.28	0.13	0.12	0.09	
6	0.24	0.24	0.40	1.70	3.60	1.30	62.00	0.70	0.28	0.13	0.13	0.09	
7	0.36	0.20	0.36	1.00	2.20	0.94	9.60	0.64	0.19	0.12	0.34	0.09	
8	0.30	0.18	1.70	0.82	1.60	0.82	4.80	0.64	0.19	0.12	0.15	0.09	
9	0.30	0.26	1.30	0.70	1.40	1.50	4.60	0.64	0.17	0.12	0.11	0.09	
10	0.26	0.40	0.58	0.70	1.30	67.40	48.50	0.82	0.13	0.10	0.10	0.09	
11	0.20	0.88	0.40	0.58	0.88	83.60	11.60	0.76	0.11	0.10	0.09	0.10	
12	0.18	0.38	0.36	0.52	0.70	30.50	6.00	0.64	0.11	0.09	0.09	0.09	
13	0.13	0.34	0.32	0.52	0.64	14.40	5.00	0.64	0.11	0.09	0.09	0.09	
14	0.11	0.38	0.36	0.52	1.40	12.00	11.60	0.58	0.11	0.09	0.09	0.09	
15	0.09	0.82	0.36	0.58	2.80	10.00	8.40	0.58	0.10	0.09	0.09	0.09	
16	0.08	0.46	0.34	0.58	5.00	4.40	7.20	0.58	0.10	0.09	0.09	0.09	
17	0.08	0.58	0.32	0.58	4.00	3.60	16.80	0.52	0.09	0.09	0.09	0.09	
18	0.09	0.38	0.28	0.52	3.80	9.60	11.60	0.52	0.09	0.10	0.09	0.09	
19	0.09	0.32	0.26	0.52	2.80	6.40	5.60	0.46	0.09	0.10	0.09	0.09	
20	0.28	0.28	0.20	0.46	3.00	3.20	4.40	0.46	0.09	0.14	0.09	0.09	
21	0.40	0.24	0.18	0.40	1.90	4.40	3.80	0.38	0.09	0.13	0.09	0.09	
22	1.60	0.22	0.19	0.58	1.50	7.20	3.00	0.38	0.09	0.12	0.09	0.09	
23	0.58	0.28	0.19	0.58	1.20	7.20	2.40	0.36	0.09	0.12	0.09	0.09	
24	0.94	0.28	0.15	1.10	2.80	5.00	2.00	0.34	0.09	0.10	0.09	0.09	
25	1.00	0.28	0.17	3.20	4.00	5.40	1.80	0.32	0.09	2.60	0.09	0.09	
26	1.10	0.24	0.10	5.20	2.00	3.40	1.60	0.32	0.09	1.50	0.09	0.09	
27	2.80	0.76	20.80	4.40	1.40	20.00	1.40	0.32	0.09	0.70	0.09	0.09	
28	1.90	1.00	9.20	3.20	1.40	14.80	1.40	0.32	0.09	0.46	0.09	0.09	
29	1.20	1.40	4.40	8.00	1.60	6.40	1.20	0.32	0.38	0.34	0.09	0.09	
30	1.80	0.40	2.40	6.00	3.20	4.60	0.94	0.32	0.32	0.34		0.09	
31		1.10		6.40	2.80		0.94		0.28	0.28		0.09	
Total	17.02	14.32	50.30	58.56	177.82	340.36	257.38	16.42	5.14	8.93	3.50	2.80	952.55 CMSDAY
Mean	0.57	0.46	1.68	1.89	5.74	11.35	8.30	0.55	0.17	0.29	0.12	0.09	2.60 CMS
Max	2.80	1.40	20.80	8.00	60.80	83.60	62.00	0.88	0.38	2.60	0.34	0.10	83.60 CMS
Min	0.08	0.18	0.10	0.40	0.64	0.82	0.94	0.32	0.09	0.09	0.09	0.09	0.08 CMS
Runoff	1.47	1.24	4.35	5.06	15.36	29.41	22.24	1.42	0.44	0.77	0.30	0.24	82.30 MCM
Momentary Peak	100.40 CMS, at 296.52 m. (MSL), at 18.00 Hours, on Sep 10, 2011												
Runoff Yield	18.20 Liters/Second/Square KM.			Momentary Peak Yield			702.098 Liters/Second/Square KM.						

WATER YEAR : 2011

MUN RIVER BASIN

Mun River at Ban Non Sa - at, Nakhon Ratchasima (M.173)

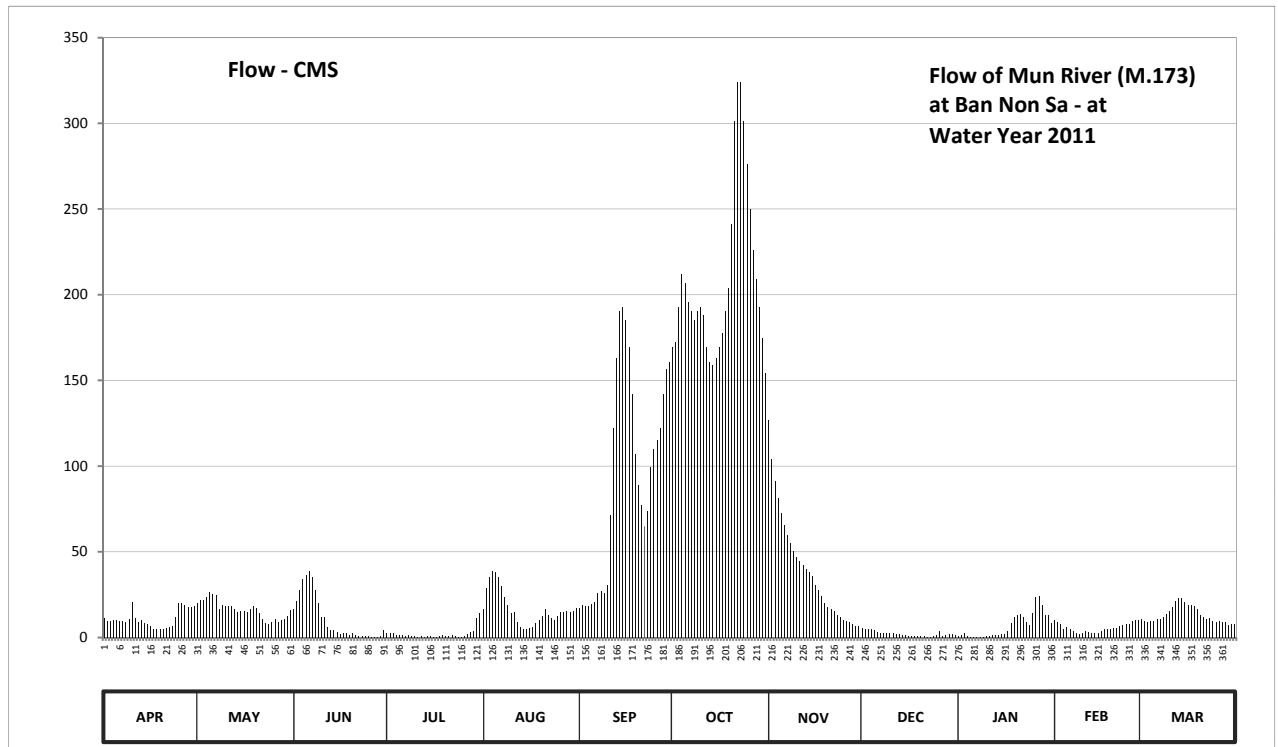
Lat 14 - 44 - 37 N Long 102 - 12 - 54 E

Location : on right bank at Ban Non Sa - at.

	Ban	Non Sa - at	Amphoe	Chok Chai	Changwat	Nakhon Ratchasima
Drainage Area	4,211	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the footpath of the bridge.				Elevation	+9.108 m. (A.D.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2011.					

Gage Height in Meter (A.D.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.63	3.29	3.07	1.80	3.06	3.09	6.81	6.60	2.14	1.54	2.58	2.62	
2	2.52	3.40	3.37	1.82	3.86	3.23	6.82	6.44	2.09	1.71	2.46	2.53	
3	2.53	3.40	3.80	1.80	4.26	3.16	6.90	6.25	2.08	1.86	2.37	2.47	
4	2.55	3.50	4.20	1.68	4.43	3.17	6.97	6.03	2.07	1.48	2.09	2.50	
5	2.54	3.70	4.32	1.65	4.42	3.25	6.95	5.78	1.98	1.27	2.18	2.50	
6	2.53	3.64	4.43	1.63	4.25	3.34	6.91	5.56	1.87	1.25	2.08	2.61	
7	2.53	3.58	4.26	1.59	3.93	3.69	6.89	5.36	1.85	1.21	1.96	2.62	
8	2.44	3.07	3.79	1.67	3.53	3.76	6.87	5.20	1.84	1.27	1.85	2.71	
9	2.61	3.21	3.28	1.60	3.22	3.69	6.89	5.03	1.86	1.31	1.78	2.86	
10	3.31	3.18	2.72	1.44	2.87	4.00	6.90	4.85	1.86	1.49	1.84	2.99	
11	2.64	3.18	2.72	1.35	2.93	5.74	6.88	4.73	1.82	1.57	1.97	3.14	
12	2.48	3.16	2.16	1.44	2.47	6.57	6.81	4.62	1.78	1.65	1.91	3.36	
13	2.55	3.07	1.98	1.37	2.20	6.78	6.77	4.51	1.74	1.70	1.80	3.48	
14	2.41	2.94	2.00	1.52	2.06	6.89	6.76	4.41	1.70	1.71	1.83	3.48	
15	2.33	2.96	1.91	1.40	2.06	6.90	6.78	4.29	1.65	1.73	1.82	3.33	
16	2.21	2.97	1.75	1.26	2.10	6.87	6.81	3.98	1.60	1.75	1.94	3.22	
17	2.08	2.92	1.86	1.32	2.19	6.81	6.84	3.80	1.56	1.92	2.05	3.19	
18	2.09	3.04	1.83	1.51	2.39	6.68	6.89	3.57	1.51	2.40	2.07	3.15	
19	2.03	3.16	1.72	1.71	2.55	6.47	6.94	3.29	1.46	2.72	2.09	3.04	
20	2.07	3.08	1.81	1.44	2.74	6.21	7.07	3.14	1.42	2.81	2.15	2.82	
21	2.13	2.88	1.66	1.41	3.05	5.93	7.25	3.07	1.38	2.85	2.12	2.72	
22	2.16	2.61	1.51	1.64	2.80	5.53	7.31	2.97	1.34	2.70	2.25	2.60	
23	2.22	2.43	1.45	1.41	2.64	5.83	7.31	2.82	1.30	2.48	2.29	2.64	
24	2.70	2.35	1.43	1.28	2.54	6.39	7.25	2.69	1.45	2.30	2.35	2.52	
25	3.28	2.48	1.40	1.27	2.77	6.50	7.18	2.57	1.70	2.88	2.37	2.45	
26	3.27	2.62	1.36	1.62	2.92	6.53	7.10	2.51	1.95	3.51	2.52	2.53	
27	3.19	2.45	1.29	1.79	2.93	6.57	7.02	2.44	1.43	3.56	2.57	2.46	
28	3.14	2.54	1.33	1.89	2.96	6.68	6.96	2.34	1.63	3.21	2.56	2.46	
29	3.13	2.59	1.52	1.94	2.93	6.75	6.90	2.26	1.73	2.80	2.63	2.32	
30	3.16	2.77	2.00	2.66	2.99	6.77	6.83	2.22	1.79	2.78		2.38	
31		3.01		2.91	3.11		6.74		1.68	2.39		2.38	
Mean	2.58	3.01	2.40	1.64	3.01	5.46	6.95	4.11	1.72	2.12	2.15	2.78	
Max	3.31	3.70	4.43	2.91	4.43	6.90	7.31	6.60	2.14	3.56	2.63	3.	



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.06	20.15	16.85	2.30	16.70	17.15	169.60	127.00	5.70	0.88	10.46	10.94	
2	9.74	21.80	21.35	2.50	28.70	19.25	172.20	104.00	5.20	1.58	9.02	9.86	
3	9.86	21.80	27.80	2.30	35.20	18.20	193.00	91.00	5.10	2.90	8.00	9.14	
4	10.10	23.30	34.00	1.40	38.60	18.35	211.90	81.20	5.00	0.76	5.20	9.50	
5	9.98	26.30	36.40	1.25	38.40	19.55	206.50	72.40	4.10	0.45	6.10	9.50	
6	9.86	25.40	38.60	1.15	35.00	20.90	195.70	65.80	3.00	0.42	5.10	10.82	
7	9.86	24.50	35.20	0.98	29.75	26.15	190.40	59.80	2.80	0.37	3.90	10.94	
8	8.78	16.85	27.65	1.35	23.75	27.20	185.20	55.00	2.70	0.45	2.80	12.02	
9	10.82	18.95	20.00	1.00	19.10	26.15	190.40	50.60	2.90	0.50	2.14	13.82	
10	20.45	18.50	12.14	0.69	13.94	30.80	193.00	47.00	2.90	0.78	2.70	15.65	
11	11.18	18.50	12.14	0.56	14.75	71.20	187.80	44.60	2.50	0.94	4.00	17.90	
12	9.26	18.20	5.90	0.69	9.14	121.90	169.60	42.40	2.14	1.25	3.40	21.20	
13	10.10	16.85	4.10	0.58	6.30	162.80	160.70	40.20	1.82	1.50	2.30	23.00	
14	8.42	14.90	4.30	0.84	4.90	190.40	158.60	38.20	1.50	1.58	2.60	23.00	
15	7.60	15.20	3.40	0.62	4.90	193.00	162.80	35.80	1.25	1.74	2.50	20.75	
16	6.40	15.35	1.90	0.44	5.30	185.20	169.60	30.50	1.00	1.90	3.70	19.10	
17	5.10	14.60	2.90	0.52	6.20	169.60	177.40	27.80	0.92	3.50	4.80	18.65	
18	5.20	16.40	2.60	0.82	8.20	142.20	190.40	24.35	0.82	8.30	5.00	18.05	
19	4.60	18.20	1.66	1.58	10.10	107.00	203.80	20.15	0.73	12.14	5.20	16.40	
20	5.00	17.00	2.40	0.69	12.38	88.60	241.00	17.90	0.66	13.22	5.80	13.34	
21	5.60	14.06	1.30	0.64	16.55	77.20	301.50	16.85	0.59	13.70	5.50	12.14	
22	5.90	10.82	0.82	1.20	13.10	64.90	324.00	15.35	0.54	11.90	6.80	10.70	
23	6.50	8.66	0.71	0.64	11.18	73.90	324.00	13.34	0.49	9.26	7.20	11.18	
24	11.90	7.80	0.67	0.46	9.98	99.40	301.50	11.78	0.71	7.30	7.80	9.74	
25	20.00	9.26	0.62	0.45	12.74	110.00	276.40	10.34	1.50	14.06	8.00	8.90	
26	19.85	10.94	0.57	1.10	14.60	115.10	250.00	9.62	3.80	23.45	9.74	9.86	
27	18.65	8.90	0.48	2.22	14.75	121.90	226.00	8.78	0.67	24.20	10.34	9.02	
28	17.90	9.98	0.53	3.20	15.20	142.20	209.20	7.70	1.15	18.95	10.22	9.02	
29	17.75	10.58	0.84	3.70	14.75	156.50	193.00	6.90	1.74	13.10	11.06	7.50	
30	18.20	12.74	4.30	11.42	15.65	160.70	174.80	6.50	2.22	12.86		8.10	
31		15.95		14.45	17.45		154.40		1.40	8.20		8.10	
Total	325.62	502.44	322.13	61.74	517.26	2777.40	6464.40	1182.86	67.55	212.14	171.38	407.84	13012.76 CMSDAY
Mean	10.85	16.21	10.74	1.99	16.69	92.58	208.53	39.43	2.18	6.84	5.91	13.16	35.55 CMS
Max	20.45	26.30	38.60	14.45	38.60	193.00	324.00	127.00	5.70	24.20	11.06	23.00	324.00 CMS
Min	4.60	7.80	0.48	0.44	4.90	17.15	154.40	6.50	0.49	0.37	2.14	7.50	0.37 CMS
Runoff	28.13	43.41	27.83	5.33	44.69	239.97	558.52	102.20	5.84	18.33	14.81	35.24	1124.30 MCM
Momentary Peak	336.00 CMS, at 7.34 m. (A.D.), at 13.00 Hours, on Oct 22, 2011												
Runoff Yield	8.44 Liters/Second/Square KM.			Momentary Peak Yield			79.791	Liters/Second/Square KM.					

WATER YEAR : 2011**MUN RIVER BASIN****Huai Khayung at Ban Non Si Khlai, Si Sa Ket (M.176)**

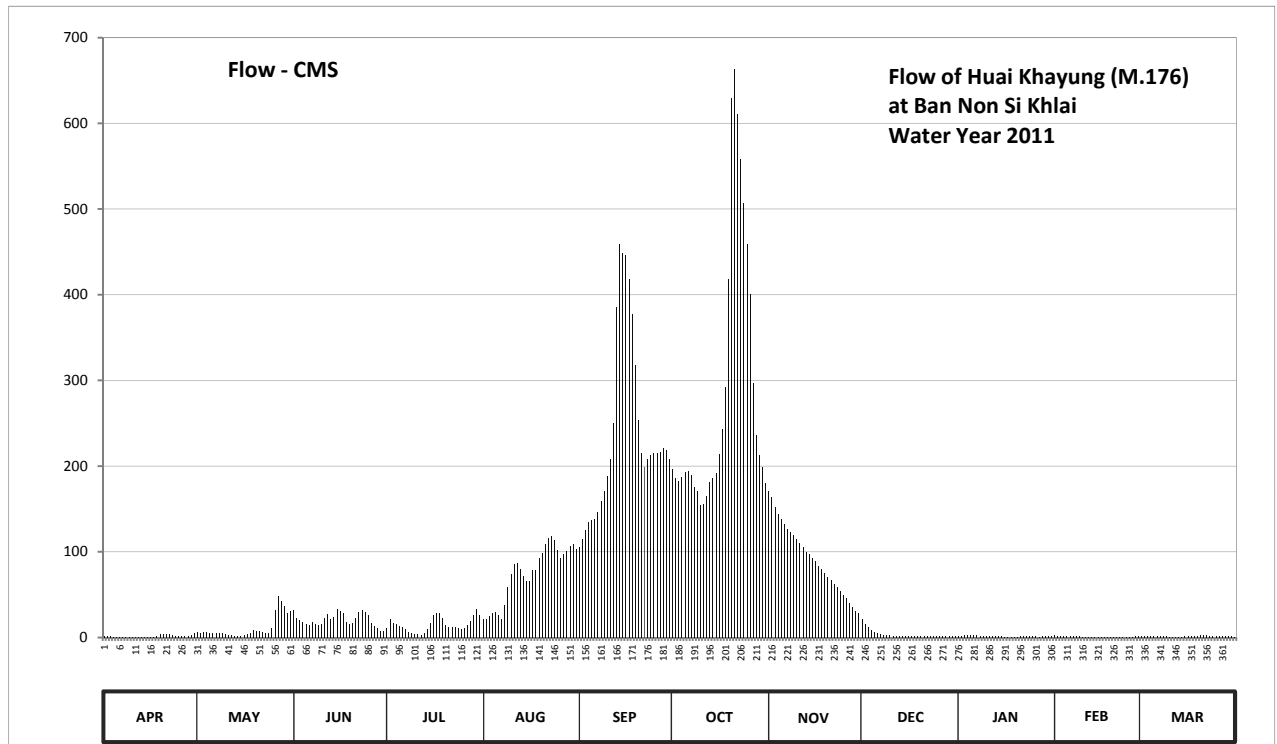
Lat 15 - 00 - 18 N Long 104 - 38 - 14 E

Location : on left bank at Ban Non Si Khlai.

	Ban	Non Si Khlai	Amphoe	Kanthararom	Changwat	Si Sa Ket
Drainage Area	3,131	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+110.210	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the footpath of the bridge.				Elevation	+124.131 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 53 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	111.00	111.54	113.20	112.02	112.68	116.20	119.43	118.61	112.72	111.00	111.11	110.93	
2	110.92	111.50	112.78	112.70	112.68	116.60	119.09	118.36	112.39	111.03	111.00	110.92	
3	110.86	111.56	112.66	112.46	112.88	116.99	118.98	117.96	112.13	111.11	110.94	110.92	
4	110.80	111.54	112.52	112.34	113.05	117.32	119.13	117.66	111.80	111.13	110.91	110.92	
5	110.77	111.53	112.38	112.22	113.08	117.44	119.31	117.48	111.55	111.11	110.89	110.91	
6	110.80	111.50	112.26	112.07	112.95	117.46	119.35	117.24	111.37	111.11	110.86	110.91	
7	110.83	111.41	112.53	111.85	112.72	117.78	119.19	117.06	111.27	111.10	110.84	110.90	
8	110.76	111.40	112.35	111.63	113.45	118.19	118.76	116.92	111.20	111.04	110.84	110.91	
9	110.72	111.39	112.24	111.47	114.31	118.58	118.58	116.76	111.15	111.01	110.84	110.84	
10	110.71	111.28	112.38	111.33	114.96	119.16	118.05	116.60	111.10	110.99	110.82	110.68	
11	110.70	111.16	112.77	111.33	115.44	119.76	118.08	116.41	111.04	110.97	110.81	110.70	
12	110.65	111.08	112.99	111.20	115.47	120.45	118.42	116.24	111.01	110.94	110.80	110.73	
13	110.68	111.04	112.72	111.51	115.16	121.19	118.94	116.01	111.00	110.92	110.77	110.72	
14	110.71	110.96	112.81	111.94	114.87	121.48	119.10	115.89	110.97	110.89	110.75	110.78	
15	110.76	111.02	113.23	112.47	114.63	121.44	119.28	115.71	110.95	110.85	110.73	110.86	
16	110.72	111.07	113.15	112.91	114.59	121.43	119.88	115.55	110.92	110.82	110.72	110.93	
17	110.80	111.25	113.02	113.06	115.12	121.32	120.36	115.31	110.90	110.80	110.71	110.96	
18	110.89	111.49	112.55	113.02	115.14	121.15	120.75	115.19	110.91	110.81	110.74	110.98	
19	111.21	111.74	112.36	112.75	115.68	120.88	121.32	114.99	110.90	110.81	110.80	111.00	
20	111.35	111.67	112.47	112.32	115.96	120.49	122.12	114.82	110.90	110.80	110.79	111.07	
21	111.30	111.68	112.78	112.13	116.36	119.90	122.21	114.65	110.91	110.85	110.79	111.09	
22	111.21	111.61	113.08	112.09	116.64	119.50	122.06	114.45	110.91	110.91	110.79	111.08	
23	111.10	111.52	113.17	112.06	116.74	119.76	121.87	114.31	110.93	110.91	110.79	110.98	
24	110.99	111.52	113.10	111.99	116.53	119.86	121.67	114.11	110.92	110.89	110.78	110.92	
25	110.90	112.02	112.91	111.93	116.10	119.89	121.48	113.93	110.91	110.88	110.79	110.88	
26	110.86	113.19	112.49	112.02	115.68	119.91	121.25	113.77	110.90	110.85	110.82	110.85	
27	110.85	113.90	112.16	112.25	115.91	119.93	120.78	113.53	110.89	110.82	110.88	110.88	
28	110.93	113.66	111.99	112.60	116.04	120.01	120.26	113.32	110.88	110.84	110.94	110.96	
29	111.10	113.41	111.73	112.93	116.26	119.96	119.86	113.16	110.87	110.89	110.96	110.98	
30	111.39	113.03	111.73	113.27	116.36	119.75	119.48	113.02	110.98	110.86		110.91	
31		113.13		112.92	116.14		118.92		111.02	110.85		110.77	
Mean	110.91	111.80	112.62	112.22	114.95	119.46	119.93	115.63	111.17	110.93	110.83	110.90	
Max	111.39	113.90	113.23	113.27	116.74	121.48	122.21	118.61	112.72	111.13	111.11	111.09	122.21
Min	110.65	110.96	111.73	111.20	112.68	116.20	118.05	113.02	110.87	110.80	110.71	110.68	110.65
Annual Max Momentary Gage Height	122.22		m. (MSL.) ,			at 06.00 Hours, on Oct 21, 2011							
Zero Gage at Bottom Elevation	110.21		m. (MSL.) ,			River Bed	109.84	m. (MSL)					
Left Bank Elevation	123.90		m. (MSL.) ,										
Right Bank Elevation	123.62		m. (MSL.) ,			Drainage Area	3131	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.00	5.94	32.20	11.26	21.10	105.10	196.76	171.30	21.90	2.00	2.77	1.65	
2	1.60	5.50	23.10	21.50	21.10	115.30	185.88	163.80	16.07	2.21	2.00	1.60	
3	1.30	6.16	20.70	16.98	25.10	125.24	182.40	151.90	12.69	2.77	1.70	1.60	
4	1.00	5.94	17.90	15.42	28.68	134.30	187.16	143.65	8.80	2.91	1.55	1.60	
5	0.85	5.83	15.94	13.86	29.38	137.60	192.92	138.70	6.05	2.77	1.45	1.55	
6	1.00	5.50	14.38	11.91	26.50	138.15	194.20	132.10	4.59	2.77	1.30	1.55	
7	1.15	4.87	18.10	9.35	21.90	146.95	189.08	127.15	3.89	2.70	1.20	1.50	
8	0.80	4.80	15.55	6.93	38.07	158.70	175.80	123.46	3.40	2.28	1.20	1.55	
9	0.60	4.73	14.12	5.29	58.59	170.40	170.40	119.38	3.05	2.07	1.20	1.20	
10	0.55	3.96	15.94	4.31	74.52	188.12	154.50	115.30	2.70	1.95	1.10	0.40	
11	0.50	3.12	22.90	4.31	86.28	208.40	155.40	110.46	2.28	1.85	1.05	0.50	
12	0.25	2.56	27.30	3.40	87.02	250.00	165.60	106.12	2.07	1.70	1.00	0.65	
13	0.40	2.28	21.90	5.61	79.42	385.80	181.20	100.26	2.00	1.60	0.85	0.60	
14	0.55	1.80	23.70	10.34	72.32	458.40	186.20	97.30	1.85	1.45	0.75	0.90	
15	0.80	2.14	32.91	17.11	66.43	448.20	191.96	92.89	1.75	1.25	0.65	1.30	
16	0.60	2.49	31.03	25.70	65.45	445.65	214.00	88.98	1.60	1.10	0.60	1.65	
17	1.00	3.75	27.97	28.91	78.44	418.00	243.20	83.09	1.50	1.00	0.55	1.80	
18	1.45	5.43	18.50	27.97	78.93	377.00	292.00	80.16	1.55	1.05	0.70	1.90	
19	3.47	8.14	15.68	22.50	92.16	317.60	418.00	75.25	1.50	1.05	1.00	2.00	
20	4.45	7.37	17.11	15.16	99.02	253.20	629.60	71.09	1.50	1.00	0.95	2.49	
21	4.10	7.48	23.10	12.69	109.18	215.00	663.80	66.93	1.55	1.25	0.95	2.63	
22	3.47	6.71	29.38	12.17	116.32	199.00	610.40	62.02	1.55	1.55	0.95	2.56	
23	2.70	5.72	31.49	11.78	118.87	208.40	558.20	58.59	1.65	1.55	0.95	1.90	
24	1.95	5.72	29.85	10.89	113.51	213.00	506.85	53.70	1.60	1.45	0.90	1.60	
25	1.50	11.26	25.70	10.23	102.55	214.50	458.40	49.36	1.55	1.40	0.95	1.40	
26	1.30	31.97	17.37	11.26	92.16	215.50	400.50	45.59	1.50	1.25	1.10	1.25	
27	1.25	48.65	13.08	14.25	97.80	216.50	296.80	39.95	1.45	1.10	1.40	1.40	
28	1.65	43.01	10.89	19.50	101.02	220.50	236.20	35.02	1.40	1.20	1.70	1.80	
29	2.70	37.14	8.03	26.10	106.63	218.00	213.00	31.26	1.35	1.45	1.80	1.90	
30	4.73	28.20	8.03	33.84	109.18	208.00	198.36	27.97	1.90	1.30		1.55	
31		30.55		25.90	103.57		180.60		2				

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.00	10.40	14.40	17.40	20.20	24.40	33.20	18.80	2.03	26.53	13.00	22.53	
2	14.00	10.00	14.20	17.40	20.20	24.40	34.00	19.60	2.03	26.53	13.00	22.00	
3	14.00	11.00	14.00	17.80	20.40	24.13	35.87	19.20	4.40	26.53	13.00	21.80	
4	13.80	10.40	14.40	19.40	20.40	24.13	37.73	19.20	4.90	26.53	13.00	21.80	
5	13.80	10.60	16.60	19.40	20.60	24.13	35.07	19.00	4.90	26.53	13.60	21.80	
6	13.80	10.00	14.40	19.60	25.20	23.87	42.91	18.80	4.80	20.80	13.60	21.60	
7	13.80	10.60	13.80	21.20	25.47	24.13	35.87	18.80	4.80	20.00	14.00	21.60	
8	13.80	11.40	13.00	27.60	25.20	24.13	25.47	19.00	5.30	19.80	16.20	21.60	
9	13.60	11.20	13.00	27.87	22.80	24.13	15.60	19.20	10.20	19.80	20.80	21.60	
10	13.60	11.60	12.60	27.33	27.87	31.07	16.80	18.60	11.00	19.60	22.00	21.60	
11	13.60	11.20	12.40	21.20	28.93	34.53	17.60	18.40	11.00	19.40	22.00	21.80	
12	13.40	11.80	12.40	21.80	28.67	12.20	16.20	18.00	11.00	19.40	22.00	21.60	
13	13.80	12.40	12.20	24.67	28.67	4.30	15.80	18.00	10.80	19.60	21.80	21.60	
14	15.20	12.40	12.00	25.47	27.60	2.81	16.20	17.80	10.60	19.40	22.00	21.20	
15	15.20	12.40	12.00	25.47	29.20	9.85	17.60	17.80	10.60	19.80	23.33	20.40	
16	15.40	12.60	11.80	25.20	30.00	27.33	19.40	15.40	10.60	19.80	23.07	20.40	
17	15.60	12.40	12.00	21.20	27.87	30.80	20.20	10.80	10.60	19.40	22.80	19.20	
18	15.60	12.40	12.00	20.60	27.33	31.07	23.60	10.80	10.60	19.40	22.80	14.80	
19	13.00	12.20	12.00	20.60	26.53	30.53	20.20	10.80	10.40	19.40	22.80	15.00	
20	12.60	12.20	12.20	21.40	26.53	28.40	15.60	10.60	10.20	18.60	22.80	15.00	
21	10.60	12.00	15.20	24.13	26.53	17.80	15.00	10.40	10.20	16.00	22.80	14.80	
22	10.40	12.00	15.40	23.87	26.53	18.00	14.60	10.60	10.20	9.40	22.80	14.40	
23	10.40	11.80	15.00	23.60	22.53	27.33	14.40	10.80	10.20	9.25	22.80	14.40	
24	10.40	11.60	16.20	23.07	18.80	36.13	14.20	10.80	10.20	9.25	22.80	14.00	
25	10.40	11.60	17.80	22.80	18.80	30.00	14.40	10.80	10.20	9.25	22.80	13.60	
26	10.40	11.60	17.80	21.40	20.40	28.93	17.80	10.80	10.60	9.25	22.80	13.80	
27	10.40	11.80	17.80	17.20	24.67	31.60	19.80	8.35	10.60	9.25	22.80	15.00	
28	10.40	13.00	17.40	20.40	24.67	31.07	18.60	8.35	10.60	9.25	22.80	15.60	
29	10.40	18.60	17.40	25.73	24.67	33.47	18.60	8.35	15.80	9.25	22.80	18.60	
30	10.40	14.40	17.40	17.60	24.93	33.47	18.20	8.35	23.33	9.70		21.20	</

WATER YEAR : 2011

MUN RIVER BASIN

Lam Sa Bai at Ban Tha Wari, Ubon Ratchathani (M.179)

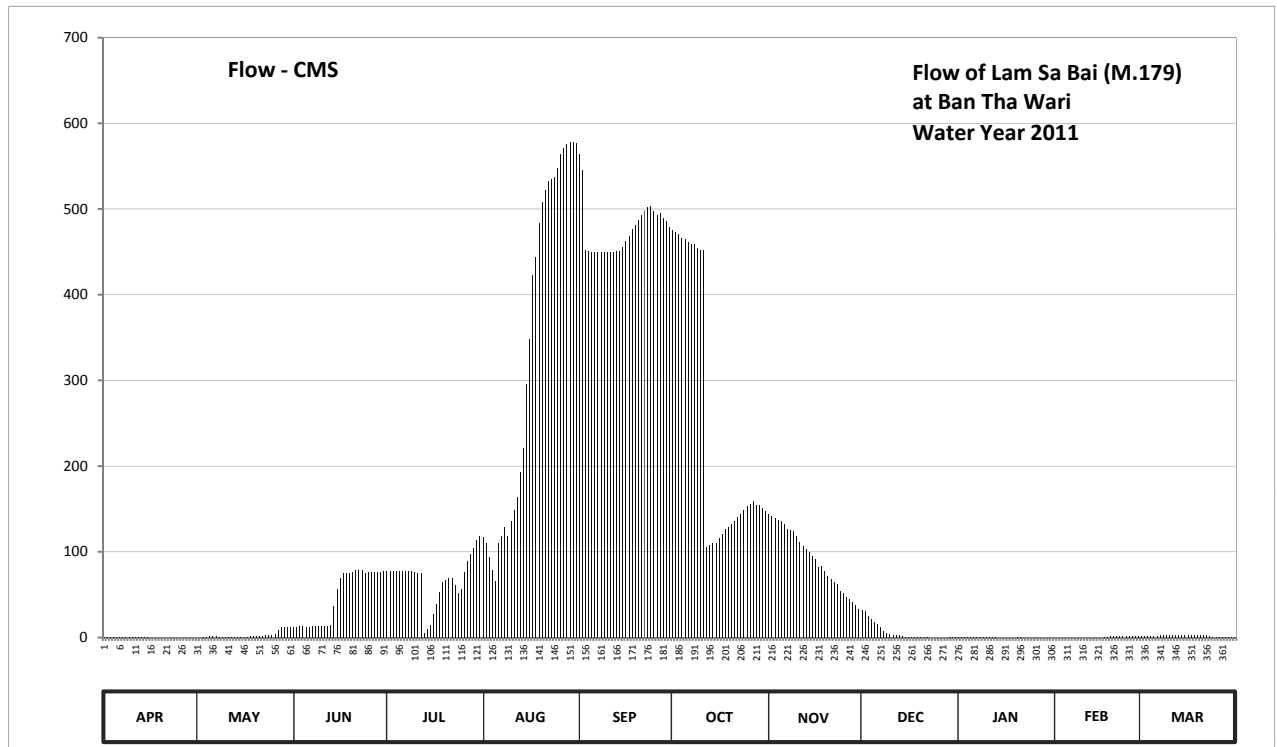
Lat 15 - 19 - 34 N Long 104 - 41 - 08 E

Location : on right bank at the bridge.

	Ban	Tha Wari	Amphoe	Khueang Nai	Changwat	Ubon Ratchathani
Drainage Area	3,881	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+106.340	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the footpath of the bridge.				Elevation	+119.161 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	108.32	108.28	109.06	110.32	110.94	114.87	115.25	115.68	111.72	108.31	108.26	108.61	
2	108.31	108.30	109.07	110.32	110.84	114.75	115.22	115.63	111.64	108.31	108.25	108.61	
3	108.31	108.34	109.09	110.32	110.59	114.72	115.18	115.58	111.27	108.31	108.25	108.61	
4	108.31	108.39	109.09	110.32	110.35	114.66	115.10	115.53	110.98	108.31	108.25	108.61	
5	108.31	108.47	109.08	110.32	110.13	114.58	115.06	115.49	110.71	108.31	108.24	108.59	
6	108.31	108.47	109.06	110.32	110.85	114.50	114.99	115.42	110.48	108.33	108.24	108.59	
7	108.32	108.43	109.09	110.32	110.96	114.47	114.93	115.28	110.02	108.33	108.24	108.72	
8	108.32	108.41	109.09	110.32	111.10	114.48	114.92	115.23	109.30	108.33	108.23	108.72	
9	108.31	108.41	109.09	110.32	110.97	114.45	114.79	115.20	109.11	108.33	108.20	108.72	
10	108.31	108.41	109.09	110.31	111.19	114.47	114.73	115.07	108.92	108.33	108.20	108.72	
11	108.31	108.38	109.09	110.29	112.35	114.52	114.72	114.87	108.76	108.34	108.20	108.72	
12	108.31	108.37	109.09	110.29	111.53	114.55	114.74	114.77	108.71	108.33	108.20	108.72	
13	108.31	108.35	109.17	108.70	111.86	114.62	114.80	114.65	108.65	108.32	108.17	108.72	
14	108.31	108.34	109.64	108.95	112.17	114.68	114.85	114.55	108.55	108.30	108.17	108.72	
15	108.31	108.37	109.98	109.19	112.89	114.85	114.86	114.40	108.42	108.29	108.18	108.72	
16	108.28	108.38	110.18	109.44	113.33	115.00	114.99	114.28	108.42	108.29	108.21	108.72	
17	108.20	108.35	110.28	109.68	113.92	115.14	115.12	113.98	108.42	108.29	108.36	108.72	
18	108.16	108.42	110.29	109.92	114.07	115.27	115.26	114.01	108.42	108.29	108.43	108.72	
19	108.16	108.48	110.29	110.12	114.35	115.35	115.33	113.83	108.39	108.29	108.49	108.72	
20	108.16	108.50	110.30	110.15	114.51	115.46	115.07	113.60	108.37	108.34	108.52	108.72	
21	108.19	108.52	110.34	110.19	114.61	115.54	115.50	113.45	108.37	108.34	108.54	108.72	
22	108.24	108.52	110.34	110.19	114.67	115.59	115.60	113.30	108.34	108.30	108.52	108.72	
23	108.24	108.53	110.34	110.06	114.69	115.64	115.67	113.22	108.30	108.28	108.49	108.58	
24	108.24	108.54	110.29	109.89	114.70	115.65	115.74	112.92	108.30	108.28	108.49	108.46	
25	108.24	108.55	110.30	109.97	114.77	115.59	115.78	112.77	108.30	108.27	108.49	108.46	
26	108.24	108.65	110.31	110.31	114.87	115.53	115.81	112.57	108.30	108.27	108.49	108.44	
27	108.26	108.90	110.31	110.51	114.91	115.56	115.84	112.41	108.28	108.27	108.49	108.44	
28	108.29	109.04	110.31	110									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.00	12.20	77.20	116.80	564.20	475.00	144.00	32.35	0.07	0.00	2.17	
2	0.10	0.00	12.40	77.20	109.80	545.00	473.20	141.50	31.10	0.07	0.00	2.17	
3	0.10	0.40	12.80	77.20	93.40	451.60	470.80	139.20	25.55	0.07	0.00	2.17	
4	0.10	0.90	12.80	77.20	79.00	450.60	466.00	137.20	21.20	0.07	0.00	2.17	
5	0.10	1.70	12.60	77.20	65.80	449.90	464.40	135.60	18.29	0.07	0.00	2.03	
6	0.10	1.70	12.20	77.20	110.50	449.50	461.60	132.80	16.22	0.21	0.00	2.03	
7	0.20	1.30	12.80	77.20	118.20	449.35	459.20	127.20	12.08	0.21	0.00	2.94	
8	0.20	1.10	12.80	77.20	129.00	449.40	458.80	125.20	7.00	0.21	0.00	2.94	
9	0.10	1.10	12.80	77.20	118.90	449.25	453.70	124.00	5.67	0.21	0.00	2.94	
10	0.10	1.10	12.80	76.60	136.20	449.35	451.90	118.80	4.34	0.21	0.00	2.94	
11	0.10	0.80	12.80	75.40	149.00	449.60	451.60	110.80	3.22	0.28	0.00	2.94	
12	0.10	0.70	12.80	75.40	163.40	449.75	105.84	106.92	2.87	0.21	0.00	2.94	
13	0.10	0.50	14.40	5.00	192.40	450.20	108.00	102.80	2.45	0.14	0.00	2.94	
14	0.10	0.40	37.00	10.00	221.00	450.80	110.00	99.60	1.75	0.00	0.00	2.94	
15	0.10	0.70	56.80	14.80	295.90	456.00	110.40	94.80	0.84	0.00	0.00	2.94	
16	0.00	0.80	68.80	27.00	347.60	462.00	115.60	91.20	0.84	0.00	0.00	2.94	
17	0.00	0.50	74.80	39.00	423.20	468.40	120.80	82.20	0.84	0.00	0.42	2.94	
18	0.00	1.20	75.40	53.20	443.45	476.20	126.40	83.10	0.84	0.00	0.91	2.94	
19	0.00	1.80	75.40	65.20	483.75	481.00	129.20	77.98	0.63	0.00	1.33	2.94	
20	0.00	2.00	76.00	67.00	507.50	487.60	132.40	72.00	0.49	0.28	1.54	2.94	
21	0.00	2.20	78.40	69.40	522.80	493.60	136.00	68.10	0.49	0.28	1.68	2.94	
22	0.00	2.20	78.40	69.40	532.20	498.10	140.00	64.20	0.28	0.00	1.54	2.94	
23	0.00	2.30	78.40	61.60	535.40	502.60	143.50	62.12	0.00	0.00	1.33	1.96	
24	0.00	2.40	75.40	51.40	537.00	503.50	149.00	54.74	0.00	0.00	1.33	1.12	
25	0.00	2.50	76.00	56.20	548.20	498.10	153.00	51.62	0.00	0.00	1.33	1.12	
26	0.00	4.00	76.60	76.60	564.20	492.70	156.00	47.46	0.00	0.00	1.33	0.98	
27	0.00	9.00	76.60	88.60	570.60	495.40	159.00	44.42	0.00	0.00	1.33	0.98	
28	0.00	11.80	76.60	97.00	575.40	490.00	155.00	41.63	0.00	0.00	1.54	0.98	
29	0.00	11.80	76.60	104.90	578.60	486.40	154.00	38.47	0.07	0.00	2.17	0.98	
30	0.00	12.20	77.20	114.00	578.60	478.60	151.00	33.40	0.07	0.00		0.98	
31		12.20		118.90									

WATER YEAR : 2011**MUN RIVER BASIN****Lam Phra Phloeng at Ban Tha Yiam, Nakhon Ratchasima (M.180)**

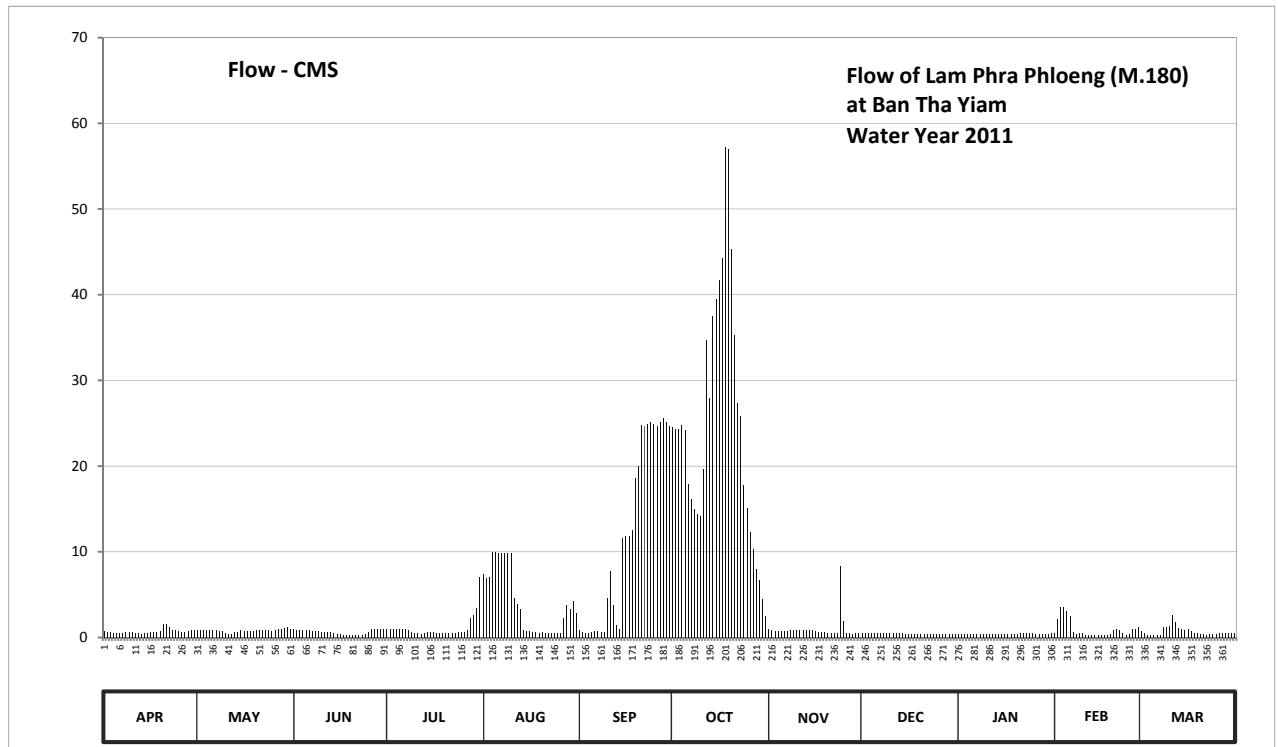
Lat 14 - 38 - 04 N Long 101 - 53 - 16 E

Location : on left bank at Ban Tha Yiam

	Ban	Tha Yiam	Amphoe	Pak Thong Chai	Changwat	Nakhon Ratchasima
Drainage Area	864	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	219.210	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the footpath of the bridge.				Elevation	+227.886 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurement made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	220.13	220.23	220.34	220.41	221.17	220.21	222.60	220.38	219.87	219.84	219.96	220.15	
2	220.05	220.23	220.25	220.41	221.12	220.06	222.59	220.27	219.87	219.84	220.62	219.94	
3	220.04	220.23	220.24	220.41	221.13	219.94	222.59	220.20	219.87	219.84	220.78	219.71	
4	219.96	220.23	220.27	220.41	221.43	219.94	222.62	220.18	219.88	219.83	220.78	219.71	
5	219.95	220.25	220.30	220.37	221.43	220.02	222.58	220.20	219.88	219.83	220.74	219.71	
6	219.98	220.30	220.24	220.34	221.42	220.19	222.12	220.18	219.87	219.83	220.67	219.69	
7	219.97	220.26	220.20	220.34	221.42	220.11	221.99	220.19	219.87	219.83	219.99	219.67	
8	220.00	220.11	220.14	220.29	221.41	220.06	221.90	220.21	219.87	219.83	219.76	220.45	
9	220.01	220.10	220.10	219.99	221.42	220.06	221.85	220.21	219.87	219.83	219.86	220.45	
10	219.99	219.91	220.06	219.92	221.42	220.89	221.84	220.21	219.87	219.83	219.86	220.47	
11	219.95	219.75	220.01	219.88	220.89	221.21	222.26	220.22	219.87	219.83	219.72	220.69	
12	219.87	219.85	220.01	219.85	220.82	220.81	223.21	220.25	219.87	219.83	219.73	220.56	
13	219.85	220.00	219.99	219.89	220.76	220.48	222.81	220.24	219.87	219.83	219.72	220.42	
14	219.86	220.06	219.89	219.99	220.31	220.39	223.35	220.22	219.86	219.83	219.71	220.33	
15	219.89	220.21	219.81	220.03	220.10	221.59	223.45	220.21	219.84	219.83	219.69	220.27	
16	220.03	220.20	219.78	220.02	220.15	221.62	223.56	220.15	219.84	219.83	219.69	220.36	
17	220.05	220.18	219.74	219.88	220.04	221.61	223.69	220.07	219.84	219.83	219.69	220.12	
18	220.04	220.18	219.68	219.87	220.07	221.68	224.31	220.04	219.84	219.83	219.69	219.92	
19	220.18	220.19	219.69	219.88	219.95	222.18	224.30	220.01	219.84	219.83	219.80	219.90	
20	220.51	220.26	219.69	219.88	219.99	222.28	223.74	219.98	219.85	219.84	220.30	219.79	
21	220.51	220.26	219.70	219.89	219.94	222.62	223.24	219.95	219.84	219.86	220.37	219.82	
22	220.45	220.26	219.70	219.91	219.94	222.61	222.78	219.94	219.84	219.87	220.29	219.74	
23	220.24	220.26	219.71	219.96	219.96	222.63	222.69	219.95	219.84	219.86	219.86	219.79	
24	220.21	220.21	219.75	219.99	219.94	222.64	222.11	221.26	219.84	219.87	219.70	219.83	
25	220.18	220.17	220.02	220.02	219.96	222.63	221.91	220.58	219.84	219.86	219.78	219.85	
26	220.08	220.22	220.41	220.00	219.98	222.61	221.66	219.88	219.84	219.85	220.38	219.91	
27	220.06	220.36	220.41	220.29	220.64	222.64	221.46	219.86	219.84	219.85	220.40	219.95	
28	220.18	220.38	220.41	220.63	220.81	222.67	221.23	219.85	219.84	219.85	220.44	219.93	
29	220.22	220.43	220.41	220.69	220.76	222.64	221.10	219.88	219.84	219.85	220.41	219.93	
30	220.24	220.45	220.41	220.77	220.86	222.61	220.88	219.87	219.84	219.85		219.97	
31		220.40		221.14	220.71		220.67		219.84	219.90		219.88	
Mean	220.09	220.20	220.05	220.17	220.64	221.39	222.49	220.15	219.85	219.84	220.08	220.03	
Max	220.51	220.45	220.41	221.14	221.43	222.67	224.31	221.26	219.88	219.90	220.78	220.69	224.31
Min	219.85	219.75	219.68	219.85	219.94	219.94	220.67	219.85	219.84	219.83	219.69	219.67	219.67
Annual Max Momentary Gage Height	224.43		m. (MSL.) ,				at 06.00 Hours, on Oct 19, 2011						
Zero Gage at Bottom Elevation	219.21		m. (MSL.) ,			River Bed	219.10	m. (MSL)					
Left Bank Elevation			227.62			m. (MSL.) ,							
Right Bank Elevation		227.59		m. (MSL.) ,		Drainage Area	864	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.73	0.83	0.94	1.05	7.40	0.81	24.50	0.98	0.47	0.44	0.56	0.75	
2	0.65	0.83	0.85	1.05	6.90	0.66	24.35	0.87	0.47	0.44	2.14	0.54	
3	0.64	0.83	0.84	1.05	7.00	0.54	24.35	0.80	0.47	0.44	3.50	0.31	
4	0.56	0.83	0.87	1.05	10.00	0.54	24.80	0.78	0.48	0.43	3.50	0.31	
5	0.55	0.85	0.90	0.97	10.00	0.62	24.20	0.80	0.48	0.43	3.10	0.31	
6	0.58	0.90	0.84	0.94	9.90	0.79	17.86	0.78	0.47	0.43	2.49	0.29	
7	0.57	0.86	0.80	0.94	9.90	0.71	16.17	0.79	0.47	0.43	0.59	0.27	
8	0.60	0.71	0.74	0.89	9.80	0.66	15.00	0.81	0.47	0.43	0.36	1.25	
9	0.61	0.70	0.70	0.59	9.90	0.66	14.35	0.81	0.47	0.43	0.46	1.25	
10	0.59	0.51	0.66	0.52	9.90	4.60	14.22	0.81	0.47	0.43	0.46	1.35	
11	0.55	0.35	0.61	0.48	4.60	7.80	19.68	0.82	0.47	0.43	0.32	2.63	
12	0.47	0.45	0.61	0.45	3.90	3.80	34.70	0.85	0.47	0.43	0.33	1.80	
13	0.45	0.60	0.59	0.49	3.30	1.40	27.87	0.84	0.47	0.43	0.32	1.10	
14	0.46	0.66	0.49	0.59	0.91	0.99	37.50	0.82	0.46	0.43	0.31	0.93	
15	0.49	0.81	0.41	0.63	0.70	11.60	39.50	0.81	0.44	0.43	0.29	0.87	
16	0.63	0.80	0.38	0.62	0.75	11.90	41.70	0.75	0.44	0.43	0.29	0.96	
17	0.65	0.78	0.34	0.48	0.64	11.80	44.30	0.67	0.44	0.43	0.29	0.72	
18	0.64	0.78	0.28	0.47	0.67	12.50	57.25	0.64	0.44	0.43	0.29	0.52	
19	0.78	0.79	0.29	0.48	0.55	18.64	57.00	0.61	0.44	0.43	0.40	0.50	
20	1.55	0.86	0.29	0.48	0.59	19.94	45.30	0.58	0.45	0.44	0.90	0.39	
21	1.55	0.86	0.30	0.49	0.54	24.80	35.30	0.55	0.44	0.46	0.97	0.42	
22	1.25	0.86	0.30	0.51	0.54	24.65	27.36	0.54	0.44	0.47	0.89	0.34	
23	0.84	0.86	0.31	0.56	0.56	24.95	25.85	0.55	0.44	0.46	0.46	0.39	
24	0.81	0.81	0.35	0.59	0.54	25.10	17.73	8.30	0.44	0.47	0.30	0.43	
25	0.78	0.77	0.62	0.62	0.56	24.95	15.13	1.90	0.44	0.46	0.38	0.45	
26	0.68	0.82	1.05	0.60	0.58	24.65	12.30	0.48	0.44	0.45	0.98	0.51	
27	0.66	0.96	1.05	0.89	2.28	25.10	10.30	0.46	0.44	0.45	1.00	0.55	
28	0.78	0.98	1.05	2.21	3.80	25.55	8.00	0.45	0.44	0.45	1.20	0.53	
29	0.82	1.15	1.05	2.63	3.30	25.10	6.70	0.48	0.44	0.45	1.05	0.53	
30	0.84	1.25	1.05	3.40	4.30	24.65	4.50	0.47	0.44	0.45		0.57	
31		1.00		7.10	2.80		2.49		0.44	0.50		0.48	
Total	21.76	25.05	19.56	33.82	127.11	360.46	770.26	29.80	14.08	13.71	28.13	22.25	1465.99 CMSDAY
Mean	0.73	0.81	0.65	1.09	4.10	12.02	24.85	0.99	0.45	0.44	0.97	0.72	4.01 CMS
Max	1.55	1.25	1.05	7.10	10.00	25.55	57.25	8.30	0.48	0.50	3.50	2.63	57.25 CMS
Min	0.45	0.35	0.28	0.45	0.54	0.54	2.49	0.45	0.44	0.43	0.29	0.27	0.27 CMS
Runoff	1.88	2.16	1.69	2.92	10.98	31.14	66.55	2.58	1.22	1.19	2.43	1.92	126.66 MCM
Momentary Peak CMS, at 224.43 m. (MSL), at 06.00 Hours, on Oct 19, 2011													
Runoff Yield	4.64	Liters/Second/Square KM.			Momentary Peak Yield			69.734	Liters/Second/Square KM.				

WATER YEAR : 2011

MUN RIVER BASIN

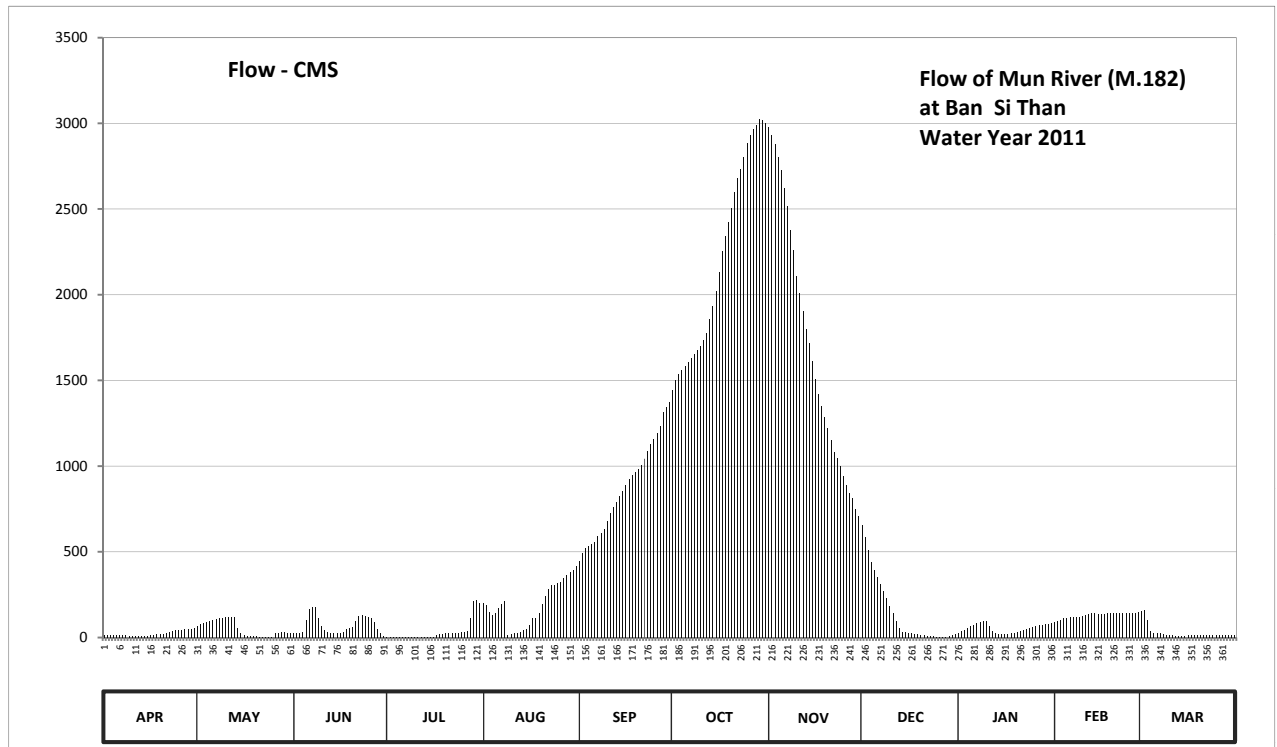
Mun River at Ban Si Than, Si Sa Ket (M.182)

Lat 15 - 07 - 58 N Long 104 - 29 - 18 E

Location : on right bank at the bridge on highway.

	Ban	Si Than	Amphoe	Kanthararom	Changwat	Si Sa Ket
Drainage Area	49,778	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+106.490	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the footpath of the bridge.				Elevation	+119.797 m. (MSL.)
Gage Reading Frequency	Recording.					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 45 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.60	64.00	24.00	2.60	200.80	448.10	1444.50	2975.50	656.20	28.80	90.40	156.40	
2	13.20	76.00	22.80	1.60	186.40	490.60	1501.50	2934.00	587.10	36.00	97.60	158.80	
3	13.20	82.00	22.80	1.50	148.00	520.30	1539.00	2878.00	508.20	44.80	104.80	102.40	
4	13.20	89.20	33.60	1.50	131.20	536.20	1561.50	2806.00	438.80	56.80	110.80	40.00	
5	12.60	96.40	100.00	1.40	140.80	543.20	1584.00	2726.00	393.80	65.20	115.60	26.40	
6	12.60	101.20	164.80	1.30	169.60	555.60	1606.50	2620.00	355.00	74.80	119.20	23.40	
7	12.00	107.20	179.20	1.20	193.60	592.80	1629.00	2515.00	312.40	83.20	121.60	23.40	
8	12.00	112.00	179.20	1.00	214.00	608.80	1651.50	2380.00	269.20	90.40	121.60	21.00	
9	11.40	115.60	112.00	0.90	16.00	633.10	1674.00	2260.70	227.20	97.60	121.60	15.00	
10	11.40	118.00	67.60	0.70	19.50	679.00	1701.00	2109.00	184.00	96.40	125.20	12.60	
11	10.80	119.20	41.20	0.60	23.70	723.00	1737.00	2010.00	140.80	64.00	131.20	12.00	
12	10.20	120.40	29.60	0.50	27.90	761.00	1773.00	1905.50	98.80	37.60	137.20	10.80	
13	9.60	119.20	24.80	0.70	31.40	793.00	1860.00	1800.00	56.80	26.40	142.00	10.80	
14	9.00	56.80	24.00	1.10	40.50	824.70	1933.00	1714.50	32.00	22.20	145.60	10.20	
15	10.20	27.20	24.80	1.70	51.20	855.30	2022.00	1611.00	29.60	20.40	138.40	10.20	
16	12.00	16.20	25.60	5.60	73.30	889.50	2128.50	1509.00	28.00	19.20	136.00	12.60	
17	13.20	10.80	32.80	12.00	113.60	922.60	2254.00	1421.50	24.80	19.80	138.40	13.80	
18	17.40	9.60	48.40	17.40	114.90	948.40	2342.50	1351.50	19.80	23.40	139.60	14.40	
19	19.20	8.40	53.20	22.20	140.90	964.60	2425.00	1284.00	18.00	27.20	139.60	14.40	
20	22.20	6.00	59.20	26.40	192.90	982.00	2507.50	1218.00	15.60	32.00	139.60	14.40	
21	27.20	4.30	96.40	28.00	244.20	1003.30	2597.50	1154.10	13.20	36.80	139.60	14.40	
22	32.80	3.00	126.40	27.20	282.00	1043.00	2680.00	1080.00	10.80	41.20	139.60	15.00	
23	37.60	1.70	131.20	24.80	305.60	1086.60	2734.00	1043.60	9.00	48.40	143.20	15.00	
24	41.20	2.20	125.20	27.20	307.10	1125.50	2806.00	1001.90	7.20	54.40	144.40	14.40	
25	42.40	5.20	119.20	31.20	317.30	1159.50	2886.00	939.00	5.60	60.40	144.40	14.40	
26	44.80	22.80	113.20	32.80	325.90	1191.00	2934.00	889.30	5.20	65.20	145.60	14.40	
27	46.00	25.60	88.00	38.40	347.70	1233.00	2967.00	844.90	4.30	70.00	145.60	13.20	
28	47.20	32.00	52.00	110.80	366.50	1316.20	2992.50	811.40	5.60	74.80	146.80	12.00	
29	52.00	32.00	24.80	212.80	379.60	1344.80	3026.50	751.30	10.80	79.60	148.00	12.00	
30	55.60	28.00	10.80	221.20	394.50	1373.20	3018.00	708.80	15.60	80.80		12.00	
31		25.60		198.40	417.10		3001.00		19.20	83.20		12.00	
Total	684.80	1637.80	2156.80	1054.70	5917.70	26147.90	68517.50	51253.50	4502.60	1661.00	3813.20	851.80	168199.30 CMSDAY
Mean	22.80	52.80	71.90	34.00	190.90	871.60	2210.20	1708.40	145.20	53.60	131.50	27.50	459.60 CMS
Max	55.60	120.40	179.20	221.20	417.10	1373.20	3026.50	2975.50	656.20	97.60	148.00	158.80	3026.50 CMS
Min	9.00	1.70	10.80	0.50	16.00	448.10	1444.50	708.80	4.30	19.20	90.40	10.20	0.50 CMS
Runoff	59.17	141.51	186.35	91.13	511.29	2259.18	5919.91	4428.30	389.02	143.51	329.46	73.60	14532.42 MCM
Momentary Peak	3062.50 CMS, at 119.39 m. (MSL), at 12.00 Hours, on Oct 29, 2011												
Runoff Yield	9.23 Liters/Second/Square KM.			Momentary Peak Yield			60.800	Liters/Second/Square KM.					

WATER YEAR : 2011

MUN RIVER BASIN

Huai Hin Lap at Ban Khlong Hin Lap, Nakhon Ratchasima (M.183)

Lat 14 - 43 - 26 N Long 101 - 34 - 19 E

Location : on left bank at the bridge on highway.

	Ban	Khlong Hin Lap	Amphoe	Pak Chong	Changwat	Nakhon Ratchasima
Drainage Area	250	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+300.800	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+307.014 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00 , 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011

MUN RIVER BASIN

Mun River at Ban Cum, Nakhon Ratchasima (M.184)

Lat 15 - 13 - 12 N Long 102 - 25 - 41 E

Location : on right at the bridge on highway.

	Ban	Cum	Amphoe	Phimai	Changwat	Nakhon Ratchasima
Drainage Area	11,489	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+150.00	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+155.997 m. (MSL.)
Gage Reading Frequency	Recording.					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011**MUN RIVER BASIN****Lam Plai Mat at Ban Phai Noi, Nakhon Ratchasima (M.185)**

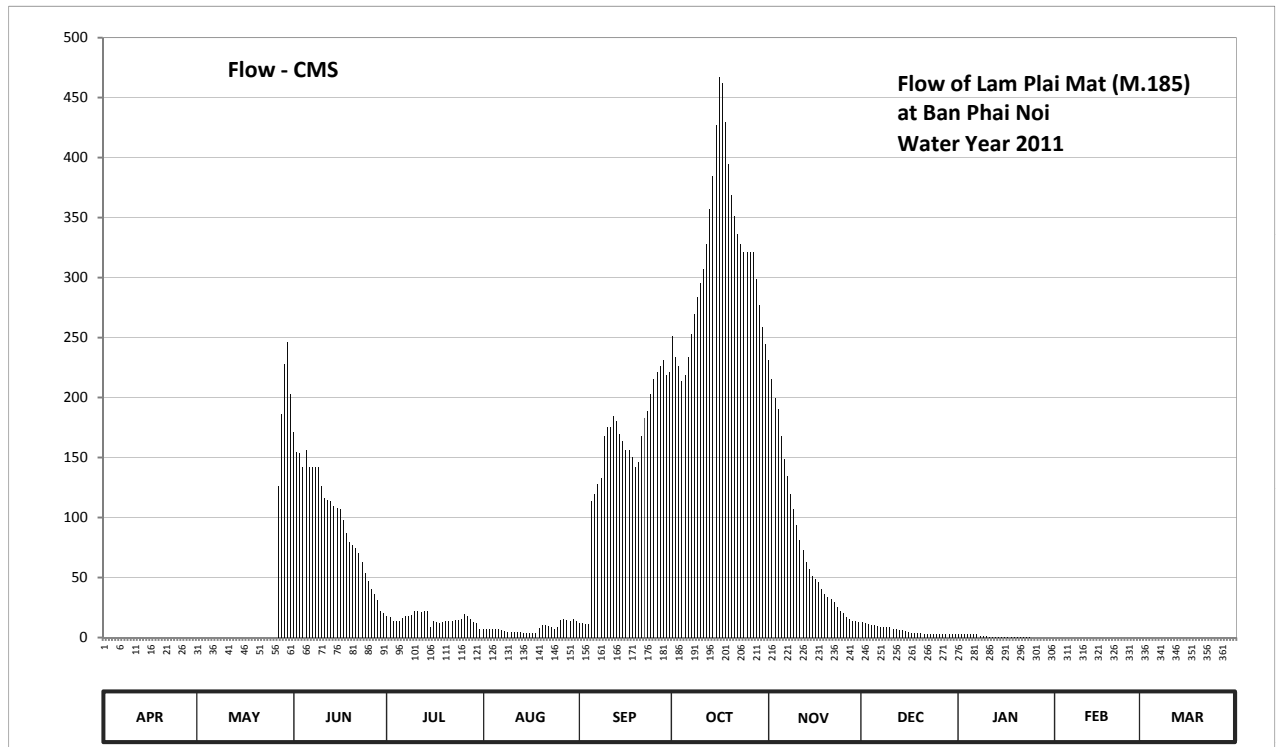
Lat 14 - 59 - 57 N Long 102 - 49 - 02 E

Location : on right at the bridge on highway.

	Ban	Phai Noi	Amphoe	Lam Plai Mat	Changwat	Nakhon Ratchasima
Drainage Area	4,880	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+149.700	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+158.072 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Unstable because of backwater effect.					
Overbank Flow Conditions	Overbank flow starts at elevation + 158.090 m. (MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

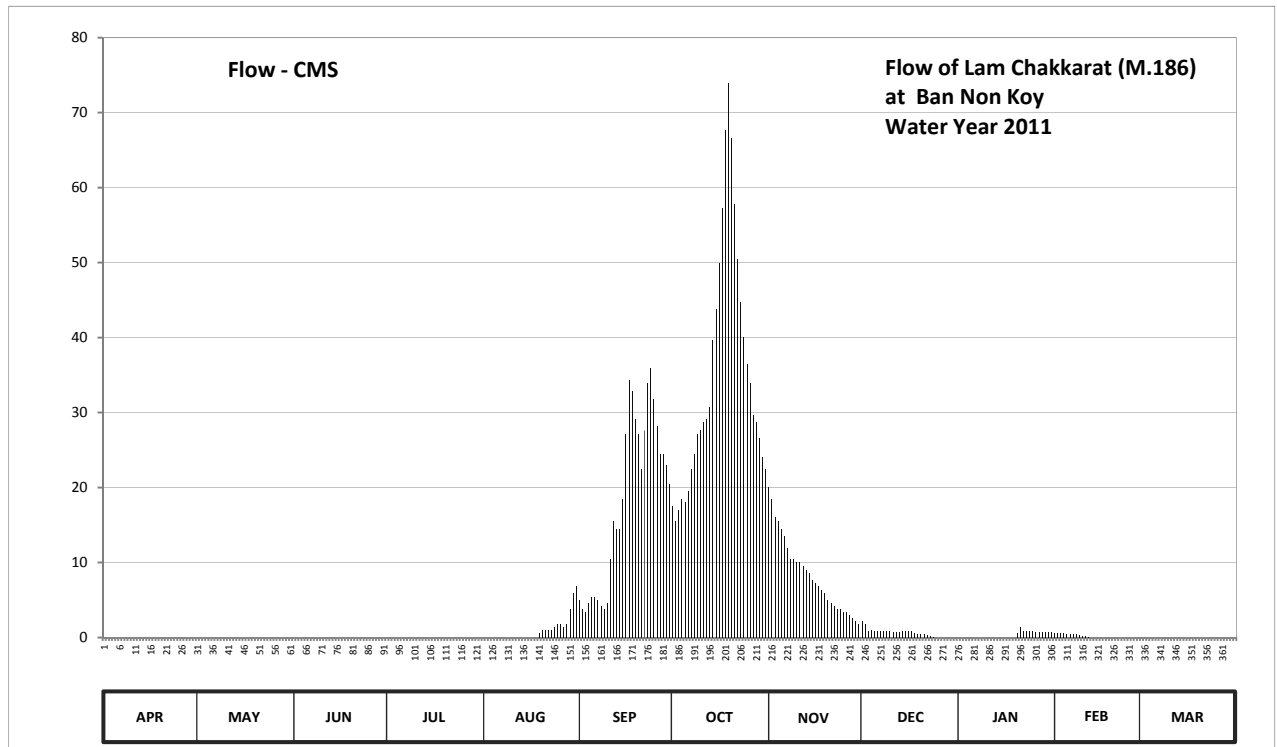
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	154.73	154.50	156.80	155.55	155.87	156.38	157.28	157.17	155.48	155.33	155.15	155.19	
2	154.72	154.49	156.69	155.54	155.95	156.35	157.18	157.08	155.47	155.33	155.14	155.18	
3	154.71	154.48	156.68	155.50	155.95	156.30	157.14	156.99	155.46	155.33	155.13	155.17	
4	154.71	154.47	156.60	155.50	155.93	156.30	157.07	156.93	155.45	155.33	155.12	155.17	
5	154.71	154.45	156.70	155.49	155.93	156.38	157.10	156.78	155.45	155.33	155.11	155.16	
6	154.70	154.44	156.60	155.53	155.88	156.43	157.18	156.65	155.44	155.33	155.10	155.16	
7	154.75	154.30	156.60	155.55	155.83	156.49	157.29	156.54	155.43	155.33	155.09	155.15	
8	154.74	154.29	156.60	155.55	155.75	156.53	157.38	156.43	155.42	155.31	155.08	155.14	
9	154.73	154.28	156.60	155.56	155.68	156.78	157.46	156.33	155.42	155.30	155.07	155.14	
10	154.72	154.25	156.48	155.60	155.65	156.83	157.52	156.23	155.42	155.29	155.06	155.12	
11	154.71	154.45	156.40	155.60	155.65	156.83	157.58	156.13	155.40	155.28	155.05	155.11	
12	154.70	154.23	156.39	155.59	155.64	156.89	157.68	156.07	155.40	155.28	155.04	155.10	
13	154.70	154.20	156.38	155.60	155.63	156.86	157.82	155.99	155.39	155.27	155.03	155.09	
14	154.70	154.19	156.35	155.60	155.59	156.79	157.94	155.95	155.38	155.25	155.02	155.08	
15	154.70	154.18	156.34	156.08	155.55	156.75	158.11	155.90	155.37	155.24	155.00	155.07	
16	154.68	154.18	156.33	156.45	155.54	156.70	158.27	155.88	155.36	155.24	154.99	155.06	
17	154.67	154.18	156.26	156.40	155.54	156.70	158.25	155.85	155.35	155.24	154.98	155.05	
18	154.66	154.17	156.18	156.35	155.53	156.66	158.12	155.79	155.35	155.23	154.97	155.04	
19	154.65	154.19	156.12	156.40	155.96	156.60	157.98	155.75	155.34	155.23	154.96	155.02	
20	154.64	154.20	156.10	156.45	156.27	156.63	157.87	155.73	155.34	155.22	154.95	155.01	
21	154.63	154.19	156.08	156.48	156.27	156.78	157.79	155.71	155.33	155.22	154.97	155.00	
22	154.62	154.18	156.05	156.50	156.17	156.88	157.72	155.68	155.33	155.22	153.75	154.99	
23	154.62	154.17	155.99	156.52	156.07	156.92	157.68	155.64	155.33	155.22	155.12	154.98	
24	154.61	154.17	155.92	156.55	155.92	157.01	157.65	155.60	155.33	155.21	155.15	154.97	
25	154.58	154.17	155.86	156.61	156.10	157.08	157.65	155.58	155.33	155.20	155.16	154.96	
26	154.57	153.84	155.79	156.88	156.55	157.11	157.65	155.54	155.33	155.20	155.18	154.95	
27	154.57	156.48	155.75	156.77	156.57	157.14	157.65	155.52	155.33	155.10	155.19	154.94	
28	154.55	156.90	155.70	156.60	156.52	157.17	157.54	155.50	155.33	155.18	155.19	154.93	
29	154.53	157.15	156.60	156.40	156.51	157.10	157.42	155.49	155.33	155.17	155.19	154.90	
30	154.51	157.25	155.58	156.37	156.57	157.11	157.32	155.48	155.33	155.16		154.89	
31		157.01		155.95	156.46		157.24		155.33	155.15		154.88	
Mean	154.66	154.70	156.25	156.05	155.97	156.75	157.60	156.06	155.38	155.25	155.03	155.05	
Max	154.75	157.25	156.80	156.88	156.57	157.17	158.27	157.17	155.48	155.33	155.19	155.19	158.27
Min	154.51	153.84	155.58	155.49	155.53	156.30	157.07	155.48	155.33	155.10	153.75	154.88	153.75
Annual Max Momentary Gage Height	158.30		m. (MSL.) ,				at 06.00 Hours, on Oct 17, 2011						
Zero Gage at Bottom Elevation	149.70		m. (MSL.) ,			River Bed	150.34	m. (MSL)					
Left Bank Elevation	157.85		m. (MSL.) ,										
Right Bank Elevation	158.08		m. (MSL.) ,			Drainage Area	4880	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	171.00	18.00	6.70	12.20	251.40	231.60	12.60	2.80	0.00	0.00	
2	0.00	0.00	154.60	17.20	7.50	11.75	233.40	215.40	11.90	2.80	0.00	0.00	
3	0.00	0.00	153.20	14.00	7.50	11.00	226.20	199.50	11.20	2.80	0.00	0.00	
4	0.00	0.00	142.00	14.00	7.30	11.00	213.60	190.50	10.50	2.80	0.00	0.00	
5	0.00	0.00	156.00	13.30	7.30	113.40	219.00	168.00	10.50	2.80	0.00	0.00	
6	0.00	0.00	142.00	16.40	6.80	119.90	233.40	149.00	9.80	2.80	0.00	0.00	
7	0.00	0.00	142.00	18.00	6.30	127.70	253.20	134.20	9.10	2.80	0.00	0.00	
8	0.00	0.00	142.00	18.00	5.50	132.90	269.40	119.90	8.40	1.60	0.00	0.00	
9	0.00	0.00	142.00	18.80	4.80	168.00	283.80	106.90	8.40	1.00	0.00	0.00	
10	0.00	0.00	126.40	22.00	4.50	175.50	295.00	93.90	8.40	0.90	0.00	0.00	
11	0.00	0.00	116.00	22.00	4.50	175.50	307.00	80.90	7.00	0.80	0.00	0.00	
12	0.00	0.00	114.70	21.20	4.40	184.50	327.80	73.10	7.00	0.80	0.00	0.00	
13	0.00	0.00	113.40	22.00	4.30	180.00	357.40	62.70	6.40	0.70	0.00	0.00	
14	0.00	0.00	109.50	22.00	3.90	169.50	385.00	57.50	5.80	0.50	0.00	0.00	
15	0.00	0.00	108.20	8.80	3.50	163.50	427.50	51.00	5.20	0.40	0.00	0.00	
16	0.00	0.00	106.90	13.25	3.40	156.00	467.50	49.00	4.60	0.40	0.00	0.00	
17	0.00	0.00	97.80	12.50	3.40	156.00	462.50	46.00	4.00	0.40	0.00	0.00	
18	0.00	0.00	87.40	11.75	3.30	150.40	430.00	40.00	4.00	0.30	0.00	0.00	
19	0.00	0.00	79.60	12.50	7.60	142.00	395.00	36.00	3.40	0.30	0.00	0.00	
20	0.00	0.00	77.00	13.25	10.70	146.20	368.40	34.00	3.40	0.20	0.00	0.00	
21	0.00	0.00	74.40	13.70	10.70	168.00	350.90	32.00	2.80	0.20	0.00	0.00	
22	0.00	0.00	70.50	14.00	9.70	183.00	336.20	29.20	2.80	0.20	0.00	0.00	
23	0.00	0.00	62.70	14.30	8.70	189.00	327.80	25.60	2.80	0.20	0.00	0.00	
24	0.00	0.00	53.60	14.75	7.20	202.80	321.50	22.00	2.80	0.10	0.00	0.00	
25	0.00	0.00	47.00	15.65	9.00	215.40	321.50	20.40	2.80	0.00	0.00	0.00	
26	0.00	0.00	40.00	19.70	14.75	220.80	321.50	17.20	2.80	0.00	0.00	0.00	
27	0.00	126.40	36.00	18.05	15.05	226.20	321.50	15.60	2.80	0.00	0.00	0.00	
28	0.00	186.00	31.00	15.50	14.30	231.60	299.00	14.00	2.80	0.00	0.00	0.00	
29	0.00	228.00	22.00	12.50	14.15	219.00	276.60	13.30	2.80	0.00	0.00	0.00	
30	0.00	246.00	20.40	12.05	15.05	220.80	258.60	12.60	2.80	0.00	0.00	0.00	
31		202.80		7.50	13.40		244.20		2.80	0.00		0.00	
Total	0.00	989.20	2939.30	486.65	245.20	4583.55	9785.80	2341.00	182.40	28.60	0.00	0.00	21581.70 CMSDAY
Mean	0.00	31.91	97.98	15.70	7.91	152.78	315.67	78.03	5.88	0.92	0.00	0.00	58.97 CMS
Max	0.00	246.00	171.00	22.00	15.05	231.60	467.50	231.60	12.60	2.80	0.00	0.00	467.50 CMS
Min	0.00	0.00	20.40	7.50	3.30	11.00	213.60	12.60	2.80	0.00	0.00	0.00	0.00 CMS
Runoff	0.00	85.47	253.96	42.05	21.19	396.02	845.49	202.26	15.76	2.47	0.00	0.00	1864.66 MCM
Momentary Peak	475.00	CMS. at 158.30 m (MSL.), at 06.00 Hours, on Oct 17, 2011											
Runoff Yield	12.08	Liters/Second/Square KM.				Momentary Peak Yield		97.336	Liters/Second/Square KM.				

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.84	1.61	1.62	1.50	2.12	2.60	2.86	2.91	2.53	2.35	2.46	2.22	
2	1.82	1.61	1.62	1.49	2.12	2.57	2.82	2.88	2.52	2.34	2.46	2.21	
3	1.81	1.60	1.62	1.48	2.15	2.56	2.85	2.83	2.48	2.33	2.46	2.20	
4	1.81	1.59	1.62	1.48	2.22	2.59	2.88	2.82	2.50	2.33	2.46	2.19	
5	1.81	1.58	1.62	1.47	2.23	2.61	2.87	2.80	2.49	2.31	2.45	2.19	
6	1.80	1.57	1.64	1.46	2.22	2.61	2.90	2.78	2.49	2.30	2.45	2.18	
7	1.80	1.55	1.64	1.45	2.23	2.60	2.96	2.75	2.49	2.29	2.44	2.17	
8	1.80	1.54	1.63	1.45	2.23	2.58	3.00	2.72	2.49	2.28	2.44	2.15	
9	1.78	1.54	1.63	1.44	2.24	2.57	3.05	2.72	2.49	2.27	2.43	2.14	
10	1.77	1.52	1.62	1.42	2.26	2.59	3.06	2.71	2.48	2.25	2.42	2.14	
11	1.76	1.52	1.60	1.45	2.26	2.72	3.08	2.71	2.47	2.23	2.42	2.17	
12	1.73	1.52	1.59	1.51	2.28	2.82	3.09	2.70	2.47	2.21	2.41	2.16	
13	1.72	1.52	1.59	1.56	2.30	2.80	3.12	2.69	2.47	2.19	2.40	2.15	
14	1.71	1.52	1.58	1.63	2.33	2.80	3.29	2.68	2.48	2.18	2.39	2.16	
15	1.71	1.52	1.57	1.71	2.36	2.88	3.37	2.66	2.48	2.18	2.39	2.15	
16	1.69	1.51	1.56	1.75	2.36	3.05	3.49	2.65	2.48	2.18	2.38	2.14	
17	1.66	1.51	1.55	1.76	2.38	3.19	3.63	2.64	2.48	2.18	2.37	2.14	
18	1.66	1.50	1.55	1.78	2.38	3.16	3.83	2.63	2.46	2.17	2.36	2.13	
19	1.68	1.50	1.55	1.79	2.46	3.09	3.95	2.62	2.45	2.17	2.35	2.12	
20	1.68	1.50	1.55	1.80	2.50	3.05	3.81	2.60	2.45	2.46	2.34	2.13	
21	1.68	1.51	1.55	1.81	2.50	2.96	3.64	2.59	2.44	2.51	2.33	2.13	
22	1.67	1.50	1.54	1.85	2.50	3.06	3.50	2.58	2.43	2.49	2.32	2.12	
23	1.66	1.49	1.53	1.91	2.50	3.18	3.39	2.57	2.42	2.48	2.32	2.11	
24	1.66	1.49	1.52	1.96	2.51	3.22	3.30	2.57	2.41	2.48	2.30	2.09	
25	1.65	1.56	1.51	2.03	2.52	3.14	3.23	2.56	2.40	2.48	2.29	2.08	
26	1.65	1.56	1.50	2.07	2.52	3.07	3.18	2.56	2.39	2.47	2.27	2.07	
27	1.64	1.55	1.51	2.08	2.51	3.00	3.10	2.55	2.38	2.47	2.26	2.05	
28	1.64	1.55	1.52	2.11	2.52	3.00	3.08	2.54	2.38	2.47	2.25	2.04	
29	1.63	1.59	1.52	2.11	2.57	2.97	3.04	2.53	2.37	2.47	2.23	2.03	
30	1.62	1.60	1.52	2.11	2.62	2.92	2.99	2.52	2.36	2.47		2.02	
31		1.60		2.11	2.64		2.96		2.35	2.47		2.01	
Mean	1.72	1.54	1.57	1.73	2.37	2.87	3.20	2.67	2.45	2.34	2.37	2.13	
Max	1.84	1.61	1.64	2.11	2.64	3.22	3.95	2.91	2.53	2.51	2.46	2.	



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	0.00	0.00	5.00	17.50	20.00	2.20	0.00	0.60	0.00	
2	0.00	0.00	0.00	0.00	0.00	3.80	15.50	18.50	1.80	0.00	0.60	0.00	
3	0.00	0.00	0.00	0.00	0.00	3.40	17.00	16.00	0.80	0.00	0.60	0.00	
4	0.00	0.00	0.00	0.00	0.00	4.60	18.50	15.50	1.00	0.00	0.60	0.00	
5	0.00	0.00	0.00	0.00	0.00	5.45	18.00	14.50	0.90	0.00	0.50	0.00	
6	0.00	0.00	0.00	0.00	0.00	5.45	19.50	13.50	0.90	0.00	0.50	0.00	
7	0.00	0.00	0.00	0.00	0.00	5.00	22.50	12.00	0.90	0.00	0.40	0.00	
8	0.00	0.00	0.00	0.00	0.00	4.20	24.50	10.50	0.90	0.00	0.40	0.00	
9	0.00	0.00	0.00	0.00	0.00	3.80	27.10	10.50	0.90	0.00	0.30	0.00	
10	0.00	0.00	0.00	0.00	0.00	4.60	27.62	10.00	0.80	0.00	0.20	0.00	
11	0.00	0.00	0.00	0.00	0.00	10.50	28.66	10.00	0.70	0.00	0.20	0.00	
12	0.00	0.00	0.00	0.00	0.00	15.50	29.18	9.50	0.70	0.00	0.10	0.00	
13	0.00	0.00	0.00	0.00	0.00	14.50	30.74	9.05	0.70	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	14.50	39.58	8.60	0.80	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	18.50	43.74	7.70	0.80	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	27.10	49.98	7.25	0.80	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	34.38	57.26	6.80	0.80	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	32.82	67.66	6.35	0.60	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.60	29.18	73.90	5.90	0.50	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	1.00	27.10	66.62	5.00	0.50	0.60	0.00	0.00	
21	0.00	0.00	0.00	0.00	1.00	22.50	57.78	4.60	0.40	1.40	0.00	0.00	
22	0.00	0.00	0.00	0.00	1.00	27.62	50.50	4.20	0.30	0.90	0.00	0.00	
23	0.00	0.00	0.00	0.00	1.00	33.86	44.78	3.80	0.20	0.80	0.00	0.00	
24	0.00	0.00	0.00	0.00	1.40	35.94	40.10	3.80	0.10	0.80	0.00	0.00	
25	0.00	0.00	0.00	0.00	1.80	31.78	36.46	3.40	0.00	0.80	0.00	0.00	
26	0.00	0.00	0.00	0.00	1.80	28.14	33.86	3.40	0.00	0.70	0.00	0.00	
27	0.00	0.00	0.00	0.00	1.40	24.50	29.70	3.00	0.00	0.70	0.00	0.00	
28	0.00	0.00	0.00	0.00	1.80	24.50	28.66	2.60	0.00	0.70	0.00	0.00	
29	0.00	0.00	0.00	0.00	3.80	23.00	26.58	2.20	0.00	0.70	0.00	0.00	
30	0.00	0.00	0.00	0.00	5.90	20.50	24.00	1.80	0.00	0.70		0.00	
31		0.00		0.00	6.80		22.50		0.00	0.70		0.00	
Total	0.00	0.00	0.00	0.00	29.30	541.72	1089.96	249.95	19.00	9.50	5.00	0.00	1944.43
Mean	0.00	0.00	0.00</										

WATER YEAR : 2011**MUN RIVER BASIN****Huai Sanaeng at Mueang, Surin (M.187)**

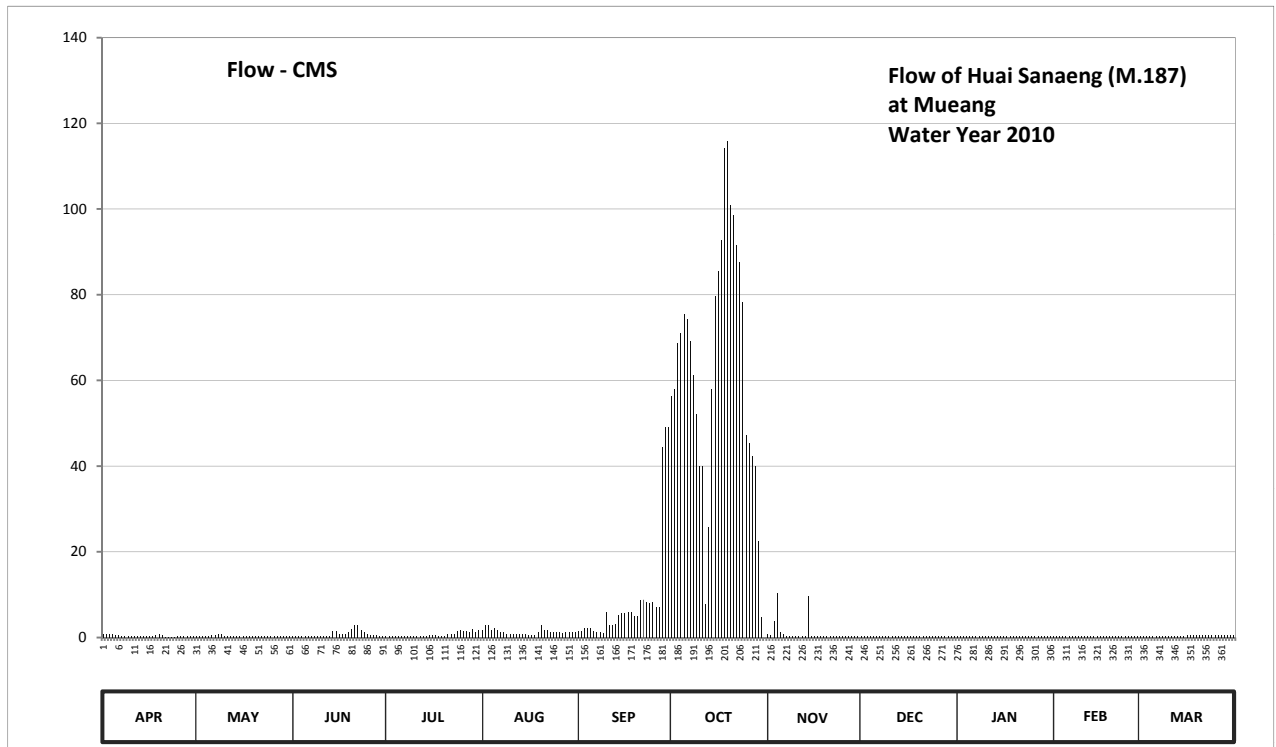
Lat 14 - 51 - 26 N Long 103 - 28 - 37 E

Location : on right at the bridge on highway.

	Ban	-	Amphoe	Mueang	Changwat	Surin
Drainage Area	614	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+6.858 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 means of 3 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2011.					

Gage Height in Meter (A.D.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.50	1.45	1.44	1.46	1.60	1.58	3.46	1.50	1.45	1.45	1.45	1.45	
2	1.50	1.45	1.45	1.46	1.70	1.59	3.50	1.49	1.46	1.45	1.45	1.45	
3	1.50	1.46	1.45	1.46	1.70	1.65	3.74	2.75	1.46	1.45	1.45	1.45	
4	1.50	1.46	1.45	1.46	1.60	1.65	3.79	2.45	1.46	1.45	1.45	1.45	
5	1.47	1.46	1.45	1.46	1.65	1.64	3.89	1.55	1.46	1.45	1.45	1.45	
6	1.47	1.47	1.45	1.46	1.60	1.57	3.86	1.50	1.46	1.45	1.45	1.45	
7	1.45	1.47	1.45	1.46	1.55	1.55	3.75	1.46	1.45	1.44	1.45	1.45	
8	1.45	1.50	1.45	1.46	1.55	1.55	3.57	1.45	1.45	1.44	1.45	1.45	
9	1.45	1.50	1.45	1.46	1.52	1.54	3.37	1.45	1.45	1.44	1.45	1.45	
10	1.45	1.45	1.45	1.46	1.52	2.65	3.10	1.45	1.45	1.44	1.45	1.45	
11	1.45	1.45	1.46	1.45	1.50	2.80	3.10	1.45	1.45	1.44	1.44	1.45	
12	1.45	1.45	1.46	1.45	1.50	2.80	2.83	1.44	1.45	1.44	1.44	1.45	
13	1.45	1.45	1.46	1.45	1.51	2.79	2.94	1.44	1.45	1.44	1.44	1.45	
14	1.45	1.45	1.57	1.45	1.50	2.69	3.50	2.48	1.45	1.44	1.44	1.45	
15	1.45	1.45	1.57	1.48	1.50	2.67	3.98	1.46	1.45	1.44	1.44	1.45	
16	1.45	1.45	1.50	1.48	1.49	2.67	4.10	1.45	1.45	1.44	1.45	1.47	
17	1.45	1.45	1.50	1.48	1.47	2.65	4.23	1.45	1.45	1.44	1.45	1.47	
18	1.47	1.45	1.50	1.46	1.47	2.65	4.62	1.44	1.45	1.44	1.45	1.47	
19	1.50	1.45	1.55	1.46	1.55	2.70	4.65	1.44	1.45	1.44	1.45	1.47	
20	1.47	1.45	1.62	1.46	1.70	2.70	4.38	1.44	1.45	1.44	1.45	1.47	
21	1.43	1.44	1.70	1.51	1.61	2.52	4.34	1.44	1.45	1.44	1.45	1.47	
22	1.43	1.44	1.70	1.51	1.60	2.52	4.21	1.44	1.45	1.46	1.45	1.47	
23	1.43	1.44	1.60	1.51	1.55	2.55	4.14	1.44	1.45	1.46	1.45	1.47	
24	1.43	1.44	1.56	1.57	1.56	2.56	3.95	1.45	1.45	1.46	1.45	1.47	
25	1.45	1.44	1.50	1.61	1.55	2.55	3.26	1.45	1.45	1.45	1.45	1.47	
26	1.45	1.44	1.49	1.59	1.55	2.60	3.22	1.45	1.45	1.45	1.45	1.47	
27	1.45	1.44	1.48	1.59	1.54	2.60	3.15	1.45	1.45	1.45	1.45	1.47	
28	1.45	1.44	1.47	1.55	1.55	3.20	3.10	1.45	1.44	1.45	1.45	1.47	
29	1.45	1.44	1.46	1.62	1.55	3.30	2.92	1.45	1.44	1.45	1.45	1.47	
30	1.45	1.44	1.46	1.55	1.55	3.30	1.85	1.45	1.44	1.45		1.47	
31		1.44		1.60	1.55		1.13		1.44	1.45		1.47	
Mean	1.46	1.45	1.50	1.50	1.56	2.39	3.54	1.57	1.45	1.45	1.45	1.46	
Max	1.50	1.50	1.70	1.62	1.70	3.30	4.65	2.75	1.46	1.46	1.45	1.47	4.65
Min	1.43	1.44	1.44	1.45	1.47	1.54	1.13	1.44	1.44	1.44	1.44	1.45	1.13
Annual Max Momentary Gage Height	4.70		m. (A.D.) ,			at 18.00 Hours , on Oct 18 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,			River Bed	0.00	m. (A.D.)					
Left Bank Elevation	6.86		m. (A.D.) ,										
Right Bank Elevation	6.86		m. (A.D.) ,			Drainage Area	614	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.70	0.35	0.28	0.42	1.70	1.50	56.20	0.70	0.35	0.35	0.35	0.35		
2	0.70	0.35	0.35	0.42	2.90	1.60	58.00	0.63	0.42	0.35	0.35	0.35		
3	0.70	0.42	0.35	0.42	2.90	2.30	68.80	3.91	0.42	0.35	0.35	0.35		
4	0.70	0.42	0.35	0.42	1.70	2.30	71.05	10.30	0.42	0.35	0.35	0.35		
5	0.49	0.42	0.35	0.42	2.30	2.18	75.55	1.20	0.42	0.35	0.35	0.35		
6	0.49	0.49	0.35	0.42	1.70	1.40	74.20	0.70	0.42	0.35	0.35	0.35		
7	0.35	0.49	0.35	0.42	1.20	1.20	69.25	0.42	0.35	0.28	0.35	0.35		
8	0.35	0.70	0.35	0.42	1.20	1.20	61.15	0.35	0.35	0.28	0.35	0.35		
9	0.35	0.70	0.35	0.42	0.90	1.10	52.15	0.35	0.35	0.28	0.35	0.35		
10	0.35	0.35	0.35	0.42	0.90	6.04	40.00	0.35	0.35	0.28	0.35	0.35		
11	0.35	0.35	0.42	0.35	0.70	2.85	40.00	0.35	0.35	0.28	0.28	0.35		
12	0.35	0.35	0.42	0.35	0.70	2.85	7.75	0.28	0.35	0.28	0.28	0.35		
13	0.35	0.35	0.42	0.35	0.80	3.06	25.71	0.28	0.35	0.28	0.28	0.35		
14	0.35	0.35	1.40	0.35	0.70	5.19	58.00	9.67	0.35	0.28	0.28	0.35		
15	0.35	0.35	1.40	0.56	0.70	5.62	79.60	0.42	0.35	0.28	0.28	0.35		
16	0.35	0.35	0.70	0.56	0.63	5.62	85.50	0.35	0.35	0.28	0.35	0.49		
17	0.35	0.35	0.70	0.56	0.49	6.04	92.65	0.35	0.35	0.28	0.35	0.49		
18	0.49	0.35	0.70	0.42	0.49	6.04	114.15	0.28	0.35	0.28	0.35	0.49		
19	0.70	0.35	1.20	0.42	1.20	4.98	115.88	0.28	0.35	0.28	0.35	0.49		
20	0.49	0.35	1.94	0.42	2.90	4.98	100.90	0.28	0.35	0.28	0.35	0.49		
21	0.21	0.28	2.90	0.80	1.82	8.81	98.70	0.28	0.35	0.28	0.35	0.49		
22	0.21	0.28	2.90	0.80	1.70	8.81	91.55	0.28	0.35	0.42	0.35	0.49		
23	0.21	0.28	1.70	0.80	1.20	8.18	87.70	0.28	0.35	0.42	0.35	0.49		
24	0.21	0.28	1.30	1.40	1.30	7.96	78.25	0.35	0.35	0.42	0.35	0.49		
25	0.35	0.28	0.70	1.82	1.20	8.18	47.20	0.35	0.35	0.35	0.35	0.49		
26	0.35	0.28	0.63	1.60	1.20	7.11	45.40	0.35	0.35	0.35	0.35	0.49		
27	0.35	0.28	0.56	1.60	1.10	7.11	42.25	0.35	0.35	0.35	0.35	0.49		
28	0.35	0.28	0.49	1.20	1.20	44.50	40.00	0.35	0.28	0.35	0.35	0.49		
29	0.35	0.28	0.42	1.94	1.20	49.00	22.44	0.35	0.28	0.35	0.35	0.49		
30	0.35	0.28	0.42	1.20	1.20	49.00	4.70	0.35	0.28	0.35		0.49		
31		0.28		1.70	1.20		0.00		0.28	0.35		0.49		
Total	12.25	11.27	24.75	23.40	41.03	266.71	1904.68	34.74	10.92	10.01	9.80	13.09	2362.65	CMSDAY
Mean	0.41	0.36	0.82	0.75	1.									

WATER YEAR : 2011

MUN RIVER BASIN

Lam Chiang Krai at Ban Bua, Nakhon Ratchasima (M.188)

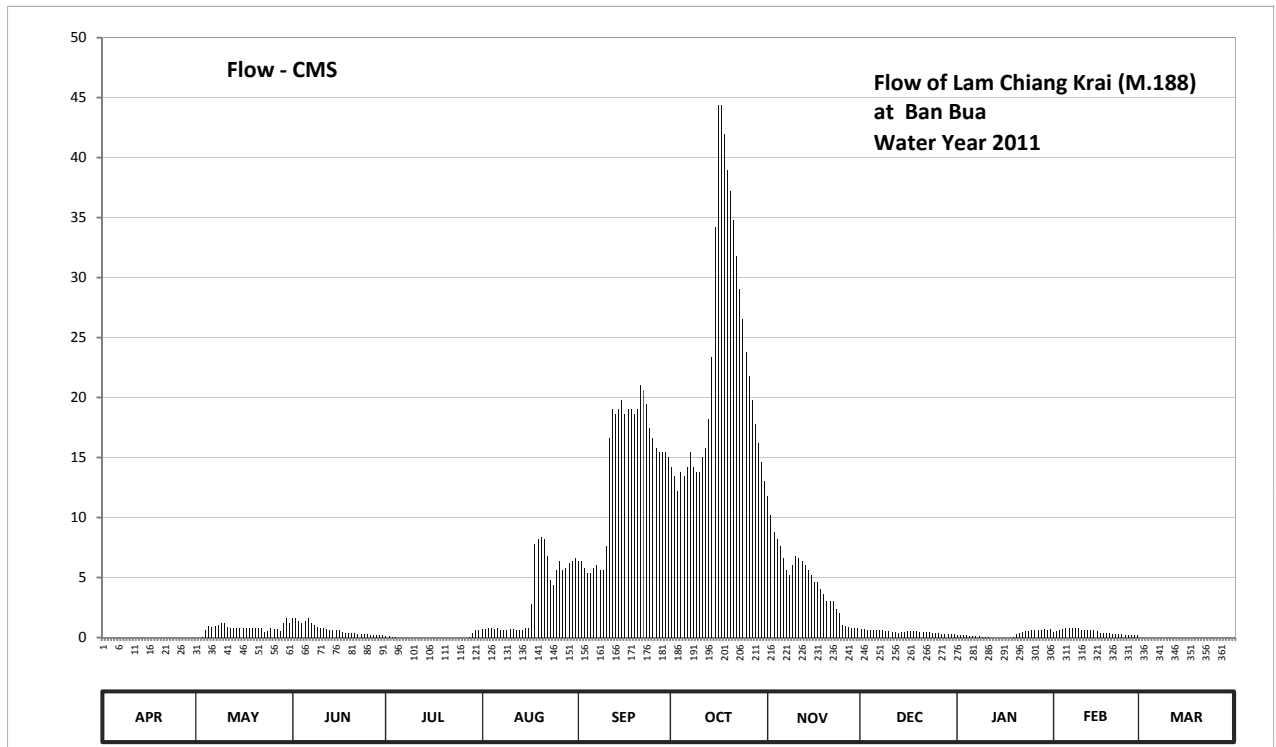
Lat 08 - 48 - 34 N Long 98 - 30 - 00 E

Location : on right at the bridge on highway.

	Ban	Bua	Amphoe	Non Sung	Changwat	Nakhon Ratchasima
Drainage Area	2,764	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+157.900	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+168.872 m. (MSL.)
Gage Reading Frequency	Recording.					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.96	160.35	160.63	160.44	160.55	160.87	161.13	161.07	160.55	160.46	160.51	160.40	
2	159.96	160.36	160.63	160.43	160.55	160.87	161.11	161.03	160.55	160.46	160.52	160.38	
3	159.96	160.42	160.62	160.42	160.57	160.84	161.08	160.99	160.54	160.45	160.54	160.37	
4	159.95	160.53	160.61	160.41	160.56	160.82	161.12	160.96	160.54	160.45	160.55	160.36	
5	159.95	160.59	160.62	160.40	160.55	160.82	161.11	160.93	160.53	160.44	160.56	160.36	
6	159.94	160.58	160.63	160.38	160.56	160.84	161.13	160.88	160.53	160.44	160.57	160.35	
7	159.94	160.59	160.61	160.36	160.54	160.85	161.16	160.83	160.53	160.43	160.57	160.34	
8	159.94	160.60	160.60	160.36	160.54	160.83	161.13	160.81	160.53	160.43	160.56	160.33	
9	159.94	160.61	160.58	160.34	160.54	160.83	161.12	160.85	160.52	160.42	160.56	160.31	
10	159.94	160.61	160.57	160.30	160.55	160.93	161.12	160.89	160.52	160.42	160.54	160.31	
11	159.95	160.58	160.56	160.28	160.55	161.19	161.15	160.88	160.51	160.41	160.54	160.33	
12	159.95	160.57	160.55	160.26	160.54	161.25	161.17	160.87	160.51	160.40	160.54	160.34	
13	159.95	160.57	160.54	160.25	160.53	161.24	161.23	160.85	160.50	160.39	160.54	160.33	
14	159.96	160.57	160.53	160.26	160.53	161.25	161.36	160.83	160.51	160.39	160.54	160.34	
15	159.96	160.57	160.53	160.28	160.56	161.27	161.57	160.81	160.51	160.39	160.52	160.33	
16	159.97	160.57	160.53	160.28	160.57	161.24	161.74	160.78	160.52	160.38	160.50	160.32	
17	159.97	160.56	160.51	160.28	160.69	161.25	161.74	160.78	160.52	160.38	160.50	160.32	
18	159.98	160.57	160.50	160.27	160.94	161.25	161.70	160.75	160.52	160.38	160.50	160.32	
19	160.11	160.56	160.49	160.27	160.96	161.24	161.65	160.73	160.52	160.41	160.49	160.30	
20	160.17	160.56	160.49	160.26	160.97	161.25	161.62	160.70	160.51	160.47	160.48	160.30	
21	160.16	160.56	160.49	160.26	160.96	161.30	161.58	160.70	160.51	160.50	160.48	160.30	
22	160.16	160.56	160.48	160.29	160.89	161.29	161.53	160.70	160.51	160.51	160.48	160.28	
23	160.16	160.51	160.47	160.33	160.79	161.26	161.48	160.67	160.51	160.52	160.48	160.28	
24	160.20	160.52	160.47	160.36	160.77	161.21	161.43	160.65	160.50	160.52	160.46	160.28	
25	160.23	160.56	160.47	160.38	160.83	161.19	161.37	160.60	160.50	160.53	160.46	160.28	
26	160.26	160.55	160.46	160.39	160.87	161.17	161.32	160.59	160.49	160.53	160.45	160.28	
27	160.29	160.55	160.45	160.39	160.83	161.16	161.27	160.58	160.48	160.53	160.45	160.28	
28	160.33	160.52	160.45	160									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	1.60	0.16	0.70	6.40	14.20	11.80	0.70	0.24	0.46	0.00		
2	0.00	0.00	1.60	0.12	0.70	6.40	13.40	10.20	0.70	0.24	0.52	0.00		
3	0.00	0.08	1.40	0.08	0.82	5.80	12.20	8.80	0.64	0.20	0.64	0.00		
4	0.00	0.58	1.20	0.04	0.76	5.40	13.80	8.20	0.64	0.20	0.70	0.00		
5	0.00	0.94	1.40	0.00	0.70	5.40	13.40	7.60	0.58	0.16	0.76	0.00		
6	0.00	0.88	1.60	0.00	0.76	5.80	14.20	6.60	0.58	0.16	0.82	0.00		
7	0.00	0.94	1.20	0.00	0.64	6.00	15.40	5.60	0.58	0.12	0.82	0.00		
8	0.00	1.00	1.00	0.00	0.64	5.60	14.20	5.20	0.58	0.12	0.76	0.00		
9	0.00	1.20	0.88	0.00	0.64	5.60	13.80	6.00	0.52	0.08	0.76	0.00		
10	0.00	1.20	0.82	0.00	0.70	7.60	13.80	6.80	0.52	0.08	0.64	0.00		
11	0.00	0.88	0.76	0.00	0.70	16.60	15.00	6.60	0.46	0.04	0.64	0.00		
12	0.00	0.82	0.70	0.00	0.64	19.00	15.80	6.40	0.46	0.00	0.64	0.00		
13	0.00	0.82	0.64	0.00	0.58	18.60	18.20	6.00	0.40	0.00	0.64	0.00		
14	0.00	0.82	0.58	0.00	0.58	19.00	23.40	5.60	0.46	0.00	0.64	0.00		
15	0.00	0.82	0.58	0.00	0.76	19.80	34.20	5.20	0.46	0.00	0.52	0.00		
16	0.00	0.82	0.58	0.00	0.82	18.60	44.40	4.60	0.52	0.00	0.40	0.00		
17	0.00	0.76	0.46	0.00	2.80	19.00	44.40	4.60	0.52	0.00	0.40	0.00		
18	0.00	0.82	0.40	0.00	7.80	19.00	42.00	4.00	0.52	0.00	0.40	0.00		
19	0.00	0.76	0.36	0.00	8.20	18.60	39.00	3.60	0.52	0.04	0.36	0.00		
20	0.00	0.76	0.36	0.00	8.40	19.00	37.20	3.00	0.46	0.28	0.32	0.00		
21	0.00	0.76	0.36	0.00	8.20	21.00	34.80	3.00	0.46	0.40	0.32	0.00		
22	0.00	0.76	0.32	0.00	6.80	20.60	31.80	3.00	0.46	0.46	0.32	0.00		
23	0.00	0.46	0.28	0.00	4.80	19.40	29.00	2.40	0.46	0.52	0.32	0.00		
24	0.00	0.52	0.28	0.00	4.40	17.40	26.50	2.00	0.40	0.52	0.24	0.00		
25	0.00	0.76	0.28	0.00	5.60	16.60	23.80	1.00	0.40	0.58	0.24	0.00		
26	0.00	0.70	0.24	0.00	6.40	15.80	21.80	0.94	0.36	0.58	0.20	0.00		
27	0.00	0.70	0.20	0.00	5.60	15.40	19.80	0.88	0.32	0.58	0.20	0.00		
28	0.00	0.52	0.20	0.08	5.80	15.40	17.80	0.82	0.32	0.64	0.20	0.00		
29	0.00	1.20	0.20	0.40	6.20	15.40	16.20	0.82	0.28	0.70	0.08	0.00		
30	0.00	1.60	0.20	0.58	6.40	15.00	14.60	0.76	0.28	0.64		0.00		
31		1.20		0.58	6.60		13.00		0.28	0.70		0.00		
Total	0.00	24.08	20.68	2.04	105.14	419.20	701.10	142.02	14.84	8.28	13.96	0.00	1451.34	CMSDAY
Mean	0.00	0.78	0.69											

WATER YEAR : 2011

MUN RIVER BASIN

Huai Samran at Ban Khwaw, Si Sa Ket (M.190)

Lat 07 - 54 - 13 N Long 98 - 21 - 02 E

Location : on right at the bridge on highway.

	Ban	Khwaw	Amphoe	Uthumphon Phisai	Changwat	Si Sa Ket
Drainage Area	2,339	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+119.700	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+129.749 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.36	122.16	122.69	124.38	124.34	124.68	126.22	126.25	124.38	123.98	123.30	121.91	
2	122.34	122.16	122.85	124.36	124.34	124.75	126.21	125.88	124.35	123.97	123.25	121.88	
3	122.33	122.15	122.97	124.34	124.35	124.75	126.21	125.52	124.30	123.95	123.18	121.86	
4	122.32	122.15	123.06	124.33	124.36	124.81	126.25	125.26	124.28	123.91	123.12	121.84	
5	122.31	122.15	123.13	124.33	124.34	124.84	126.30	125.13	124.28	123.88	123.06	121.81	
6	122.30	122.14	123.19	124.32	124.34	124.90	126.33	125.12	124.27	123.77	123.00	121.78	
7	122.28	122.14	123.23	124.31	124.34	124.95	126.34	125.11	124.27	123.57	122.95	121.75	
8	122.27	122.13	123.26	124.29	124.38	124.99	126.31	125.05	124.27	123.48	122.90	121.72	
9	122.26	122.13	123.29	124.28	124.37	125.04	126.28	124.98	124.27	123.40	122.85	121.70	
10	122.24	122.12	123.30	124.27	124.36	125.14	126.29	124.91	124.27	123.34	122.79	121.68	
11	122.23	122.12	123.36	124.26	124.38	125.42	126.36	124.84	124.27	123.28	122.73	121.65	
12	122.21	122.11	123.42	124.25	124.38	125.70	126.42	124.78	124.27	123.23	122.67	121.61	
13	122.18	122.11	123.45	124.24	124.34	125.74	126.50	124.73	124.27	123.17	122.61	121.58	
14	122.15	122.11	123.56	124.25	124.33	125.71	126.49	124.71	124.26	123.12	122.56	121.53	
15	122.13	122.14	123.61	124.25	124.32	125.66	126.42	124.64	124.26	123.06	122.50	121.51	
16	122.12	122.14	123.63	124.24	124.31	125.72	126.46	124.57	124.26	122.98	122.45	121.49	
17	122.11	122.13	123.63	124.23	124.31	125.78	126.72	124.59	124.26	122.93	122.39	121.47	
18	122.11	122.15	123.63	124.23	124.31	125.80	127.03	124.57	124.25	123.07	122.34	121.46	
19	122.13	122.15	123.62	124.23	124.36	125.78	127.23	124.55	124.25	123.43	122.29	121.43	
20	122.14	122.14	123.66	124.26	124.39	125.73	127.39	124.52	124.24	123.58	122.24	121.42	
21	122.14	122.13	123.63	124.27	124.42	125.72	127.52	124.51	124.24	123.55	122.19	121.39	
22	122.13	122.01	123.89	124.28	124.42	125.83	127.62	124.49	124.22	123.51	122.13	121.36	
23	122.15	122.09	124.18	124.28	124.39	126.15	127.70	124.47	124.21	123.56	122.08	121.36	
24	122.15	122.08	124.42	124.30	124.38	126.29	127.73	124.46	124.20	123.73	122.05	121.50	
25	122.15	122.06	124.45	124.31	124.39	126.33	127.69	124.44	124.18	123.76	122.10	121.52	
26	122.15	122.07	124.44	124.32	124.42	126.27	127.62	124.43	124.16	123.70	122.07	121.50	
27	122.15	122.06	124.43	124.31	124.45	126.21	127.50	124.42	124.13	123.61	122.02	121.47	
28	122.15	122.05	124.39	124.34	124.48	126.21	127.34	124.41	124.09	123.55	121.99	121.43	
29	122.16	122.04	124.38	124.34	124.52	126.22	127.15	124.40	124.05	123.49	121.96	121.39	
30	122.16	122.18	124.37	124.33	124.57	126.22	126.90	124.39	124.02	123.43	121.93	121.37	
31		122.46		124.34	124.60		126.60		124.00	123.37		121.37	
Mean	122.20	122.13	123.64	124.29	124.39	125.58	126.81	124.80	124.23	123.50	122.54	121.57	
Max	122.36	122.46	124.45	124.38	124.60	126.33	127.73	126.25	124.38	123.98	123.30	121.91	127.73
Min	122.11	122.01	122.69	124.23	124.31	124.68	126.21	124.39	124.00	122.93	121.96	121.36	121.36
Annual Max Momentary Gage Height	127.73		m. (MSL.) , at 04.00 Hours, on Oct 24, 2011										
Zero Gage at Bottom Elevation	119.70		m. (MSL.) , River Bed 121.49 m. (MSL)										
Left Bank Elevation	129.59		m. (MSL.) ,										
Right Bank Elevation	129.86		m. (MSL.) , Drainage Area 2339 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	7.20	5.60	21.00	127.80	130.50	7.20	0.00	0.00	0.00	
2	0.00	0.00	0.00	6.40	5.60	25.00	126.90	101.60	6.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	5.60	6.00	25.00	126.90	79.20	4.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	5.20	6.40	28.80	130.50	66.40	3.60	0.00	0.00	0.00	
5	0.00	0.00	0.00	5.20	5.60	31.20	135.00	61.20	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	4.80	5.60	36.00	137.70	60.80	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	4.40	5.60	41.00	138.60	60.40	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	3.80	7.20	45.00	135.90	53.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	3.60	6.80	51.60	133.20	44.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	3.40	6.40	61.60	134.10	37.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	3.20	7.20	73.20	140.40	31.20	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	3.00	7.20	90.00	145.80	26.80	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	2.80	5.60	92.40	153.00	23.80	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	3.00	5.20	90.60	152.10	22.60	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	3.00	4.80	87.60	145.80	19.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	2.80	4.40	91.20	149.40	15.50	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	2.60	4.40	94.80	173.20	16.50	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	2.60	4.40	96.00	207.30	15.50	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	2.60	6.40	94.80	229.60	14.50	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	3.20	7.60	91.80	248.80	13.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	3.40	8.80	91.20	265.00	12.50	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	3.60	8.80	98.10	280.00	11.60	0.00	0.00	0.00	0.00	
23	0.00	0.00	1.60	3.60	7.60	121.50	292.00	10.80	0.00	0.00	0.00	0.00	
24	0.00	0.00	8.80	4.00	7.20	134.10	296.50	10.40	0.00	0.00	0.00	0.00	
25	0.00	0.00	10.00	4.40	7.60	137.70	290.50	9.60	0.00	0.00	0.00	0.00	
26	0.00	0.00	9.60	4.80	8.80	132.30	280.00	9.20	0.00	0.00	0.00	0.00	
27	0.00	0.00	9.20	4.40	10.00	126.90	262.00	8.80	0.00	0.00	0.00	0.00	
28	0.00	0.00	7.60	5.60	11.20	126.90	242.80	8.40	0.00	0.00	0.00	0.00	
29	0.00	0.00	7.20	5.60	13.00	127.80	220.50	8.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	6.80	5.20	15.50	127.80	193.00	7.60	0.00	0.00		0.00	
31		0.00		5.60	17.00		162.00		0.00	0.00		0.00	
Total	0.00	0.00	60.80	128.60	233.50	2492.90	5856.30	989.40	20.80				

WATER YEAR : 2011**MUN RIVER BASIN****Lam Ta Khong at Ban Khok Krod, Nakhon Ratchasima (M.191)**

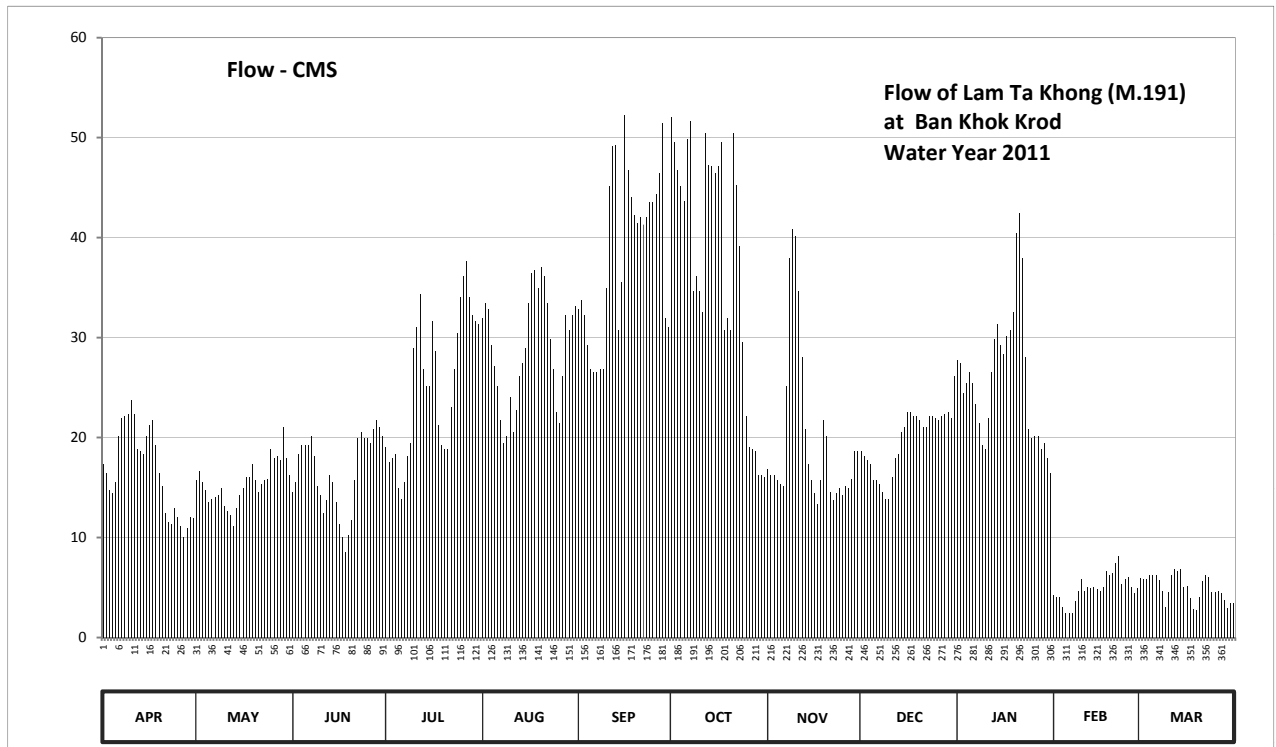
Lat 44 - 55 - 57 N Long 101 - 57 - 07 E

Location : on left bank at the bridge on road.

	Ban	Khok Krod	Amphoe	Mueang	Changwat	Nakhon Ratchasima
Drainage Area	2,854	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+191.800	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+195.991 m. (MSL.)
Gage Reading Frequency	Recording.					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2011 to date					
Rating Operation						
Period of Rating	2011 to date					
Rated by Flot	-					
Rated by Current Meter	2011 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	194.14	194.06	194.00	194.22	194.68	194.71	195.58	194.12	194.20	194.54	193.25	193.45	
2	194.10	194.11	194.05	194.15	194.73	194.74	195.45	194.09	194.18	194.53	193.23	193.44	
3	194.01	194.05	194.19	194.17	194.71	194.69	195.31	194.09	194.16	194.44	193.23	193.44	
4	193.99	194.01	194.23	194.19	194.59	194.59	195.23	194.06	194.14	194.47	193.10	193.48	
5	194.05	193.94	194.23	194.02	194.52	194.51	195.16	194.04	194.06	194.50	193.00	193.48	
6	194.27	193.96	194.23	193.96	194.46	194.50	195.47	194.03	194.06	194.47	192.99	193.48	
7	194.35	193.97	194.27	194.05	194.34	194.50	195.56	194.46	194.04	194.41	192.99	193.43	
8	194.36	193.98	194.18	194.18	194.24	194.51	195.77	194.88	194.00	194.33	193.18	193.30	
9	194.37	194.02	194.03	194.24	194.27	194.51	195.82	195.02	193.96	194.23	193.31	193.11	
10	194.42	193.92	193.98	194.58	194.43	194.78	195.77	194.98	193.96	194.21	193.44	193.29	
11	194.37	193.89	193.88	194.65	194.29	195.23	195.70	194.77	194.08	194.35	193.31	193.48	
12	194.21	193.87	193.95	194.76	194.39	195.43	195.50	194.55	194.17	194.50	193.35	193.53	
13	194.20	193.81	194.09	194.51	194.49	195.44	195.34	194.30	194.19	194.61	193.34	193.51	
14	194.19	193.91	194.05	194.46	194.53	195.64	195.33	194.14	194.29	194.66	193.36	193.53	
15	194.27	193.98	193.94	194.46	194.58	195.80	195.30	194.06	194.31	194.59	193.33	193.36	
16	194.32	194.02	193.82	194.67	194.73	195.59	195.33	193.99	194.38	194.56	193.31	193.37	
17	194.34	194.08	193.75	194.57	194.83	195.31	195.45	193.93	194.38	194.62	193.35	193.22	
18	194.23	194.08	193.66	194.32	194.84	195.18	195.64	194.06	194.36	194.64	193.51	193.07	
19	194.10	194.14	193.76	194.23	194.78	195.09	195.68	194.34	194.36	194.70	193.48	193.04	
20	194.03	194.06	193.84	194.21	194.85	195.05	195.64	194.27	194.34	195.00	193.50	193.23	
21	193.88	194.00	194.06	194.21	194.82	195.08	195.50	194.00	194.31	195.10	193.58	193.42	
22	193.83	194.04	194.26	194.40	194.73	195.04	195.24	193.95	194.31	194.88	193.63	193.48	
23	193.82	194.06	194.29	194.51	194.61	195.08	194.93	193.99	194.36	194.55	193.39	193.46	
24	193.91	194.07	194.26	194.63	194.51	195.15	194.60	194.02	194.36	194.30	193.44	193.29	
25	193.86	194.21	194.26	194.75	194.38	195.15	194.36	193.98	194.35	194.26	193.46	193.29	
26	193.81	194.17	194.24	194.82	194.33	195.19	194.22	194.03	194.34	194.27	193.35	193.31	
27	193.75	194.18	194.30	194.87	194.49	195.30	194.21	194.02	194.36	194.27	193.28	193.28	
28	193.80	194.16	194.34	194.75	194.69	195.55	194.20	194.07	194.37	194.21	193.34	193.19	
29	193.86	194.31	194.31	194.69	194.64	195.68	194.09	194.20	194.38	194.24	193.43	193.09	
30	193.85	194.17	194.27	194.67	194.69	195.65	194.09	194.20	194.35	194.17		193.16	
31		194.09		194.66	194.72		194.08		194.49	194.10		193.16	
Mean	194.09	194.04	194.09	194.44	194.58	195.09	195.15	194.22	194.25	194.47	193.33	193.33	
Max	194.42	194.31	194.34	194.87	194.85	195.80	195.82	195.02	194.49	195.10	193.63	193.53	195.82
Min	193.75	193.81	193.66	193.96	194.24	194.50	194.08	193.93	193.96	194.10	192.99	193.04	192.99
Annual Max Momentary Gage Height	194.82		m. (MSL.) ,		at 06.00 Hours , on Sep 15 , 2011								
Zero Gage at Bottom Elevation	191.80		m. (MSL.) ,		River Bed		191.48		m. (MSL)				
Left Bank Elevation	195.63		m. (MSL.) ,										
Right Bank Elevation	196.03		m. (MSL.) ,		Drainage Area		2854		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.28	15.68	14.60	19.04	31.90	32.80	52.10	16.84	18.60	27.70	4.20	5.95	
2	16.40	16.62	15.50	17.50	33.40	33.70	49.50	16.22	18.16	27.40	4.04	5.84	
3	14.78	15.50	18.38	17.94	32.80	32.20	46.70	16.22	17.72	24.40	4.04	5.84	
4	14.42	14.78	19.26	18.38	29.20	29.20	45.10	15.68	17.28	25.45	3.00	6.28	
5	15.50	13.52	19.26	14.96	27.10	26.80	43.70	15.32	15.68	26.50	2.50	6.28	
6	20.14	13.88	19.26	13.88	25.10	26.50	49.90	15.14	15.68	25.45	2.45	6.28	
7	21.90	14.06	20.14	15.50	21.68	26.50	51.70	25.10	15.32	23.35	2.45	5.73	
8	22.12	14.24	18.16	18.16	19.48	26.80	34.60	37.90	14.60	21.46	3.64	4.60	
9	22.34	14.96	15.14	19.48	20.14	26.80	36.10	40.90	13.88	19.26	4.68	3.08	
10	23.70	13.16	14.24	28.90	24.05	34.90	34.60	40.10	13.88	18.82	5.84	4.52	
11	22.34	12.62	12.44	31.00	20.58	45.10	32.50	34.60	16.04	21.90	4.68	6.28	
12	18.82	12.26	13.70	34.30	22.78	49.10	50.50	28.00	17.94	26.50	5.00	6.86	
13	18.60	11.18	16.22	26.80	26.15	49.30	47.30	20.80	18.38	29.80	4.92	6.62	
14	18.38	12.98	15.50	25.10	27.40	30.70	47.10	17.28	20.58	31.30	5.08	6.86	
15	20.14	14.24	13.52	25.10	28.90	35.50	46.50	15.68	21.02	29.20	4.84	5.08	
16	21.24	14.96	11.36	31.60	33.40	52.30	47.10	14.42	22.56	28.30	4.68	5.16	
17	21.68	16.04	10.10	28.60	36.40	46.70	49.50	13.34	22.56	30.10	5.00	3.96	
18	19.26	16.04	8.60	21.24	36.70	44.10	30.70	15.68	22.12	30.70	6.62	2.85	
19	16.40	17.28	10.28	19.26	34.90	42.30	31.90	21.68	22.12	32.50	6.28	2.70	
20	15.14	15.68	11.72	18.82	37.00	41.50	30.70	20.14	21.68	40.50	6.50	4.04	
21	12.44	14.60	15.68	18.82	36.10	42.10	50.50	14.60	21.02	42.50	7.46	5.62	
22	11.54	15.32	19.92	23.00	33.40	41.30	45.30	13.70	21.02	37.90	8.15	6.28	
23	11.36	15.68	20.58	26.80	29.80	42.10	39.10	14.42	22.12	28.00	5.32	6.06	
24	12.98	15.86	19.92	30.40	26.80	43.50	29.50	14.96	22.12	20.80	5.84	4.52	
25	12.08	18.82	19.92	34.00	22.56	43.50	22.12	14.24	21.90	19.92	6.06	4.52	
26	11.18	17.94	19.48	36.10	21.46	44.30	19.04	15.14	21.68	20.14	5.00	4.68	
27	10.10	18.16	20.80	37.60	26.15	46.50	18.82	14.96	22.12	20.14	4.44	4.44	
28	11.00	17.72	21.68	34.00	32.20	51.50	18.60	15.86	22.34	18.82	4.92	3.72	
29	12.08	21.02	21.02	32.20	30.70	31.90	16.22	18.60	22.56	19.48	5.73	2.95	
30	11.90	17.94	20.14	31.60	32.20	31.00	16.22	18.60	21.90	17.94		3.48	
31	16.22			31.30	33.10		16.04		26.15	16.40		3.48	
Total	497.24	478.96	496.52	781.38	893.53	1150.50	1149.26	596.12	610.73	802.63	143.36	154.56	7754.79 CMSDAY
Mean	16.57	15.45	16.55	25.21	28.82	38.35	37.07	19.87	19.70	25.89	4.94	4.99	21.19 CMS
Max	23.70	21.02	21.68	37.60	37.00	52.30	52.10	40.90	26.15	42.50	8.15	6.86	52.30 CMS
Min	10.10	11.18	8.60	13.88	19.48	26.50	16.04	13.34	13.88	16.40	2.45	2.70	2.45 CMS
Runoff	42.96	41.38	42.90	67.51	77.20	99.40	99.30	51.51	52.77	69.35	12.39	13.35	670.01 MCM
Momentary Peak	36.10	CMS.	at 194.82 m. (MSL.), at 06.00 Hours, on Sep 15, 2011										
Runoff Yield	7.42	Liters/Second/Square KM.			Momentary Peak Yield			12.649	Liters/Second/Square KM.				

WATER YEAR : 2011**PING RIVER BASIN****Ping River at Nawarat Bridge , Chiang Mai (P.1)**

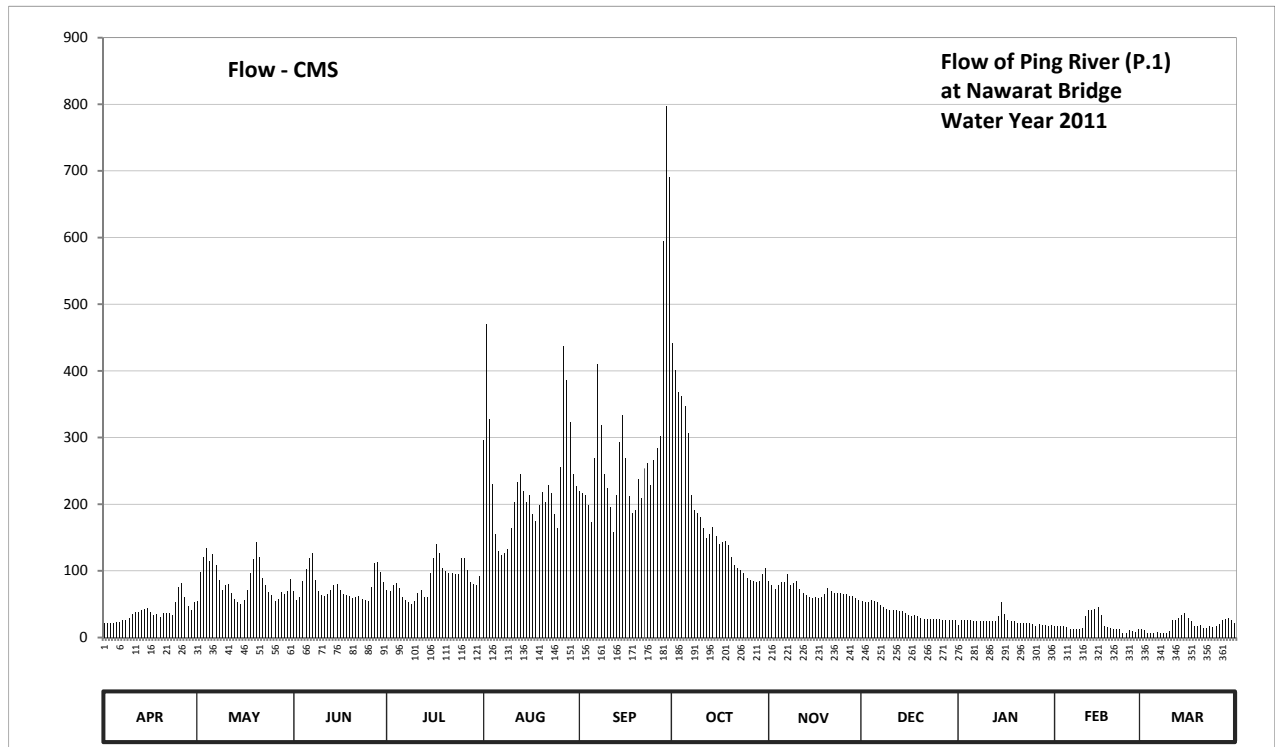
Lat 18 - 47 - 10 N Long 99 - 00 - 27 E

Location : on left bank about 100 meters downstream from Nawarat Bridge.

	Ban	Nawarat Bridge	Amphoe	Mueang	Changwat	Chiang Mai
Drainage Area	6,350	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+300.500	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near automatic gage building				Elevation	+305.310 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1921 to date					
Rating Operation						
Period of Rating	1954 - 1960 , 1967 to date					
Rated by Flot	1936 - 1938					
Rated by Current Meter	1954 - 1960 , 1967 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Flow regulated by Mae Ngat Dam and Mae Taeng Weir above gage site. Phaya Kham weir situated about 2 Kilometers downstream from the gage site. Stage-discharge relation defined by 37 discharge measurements made in 2011.					

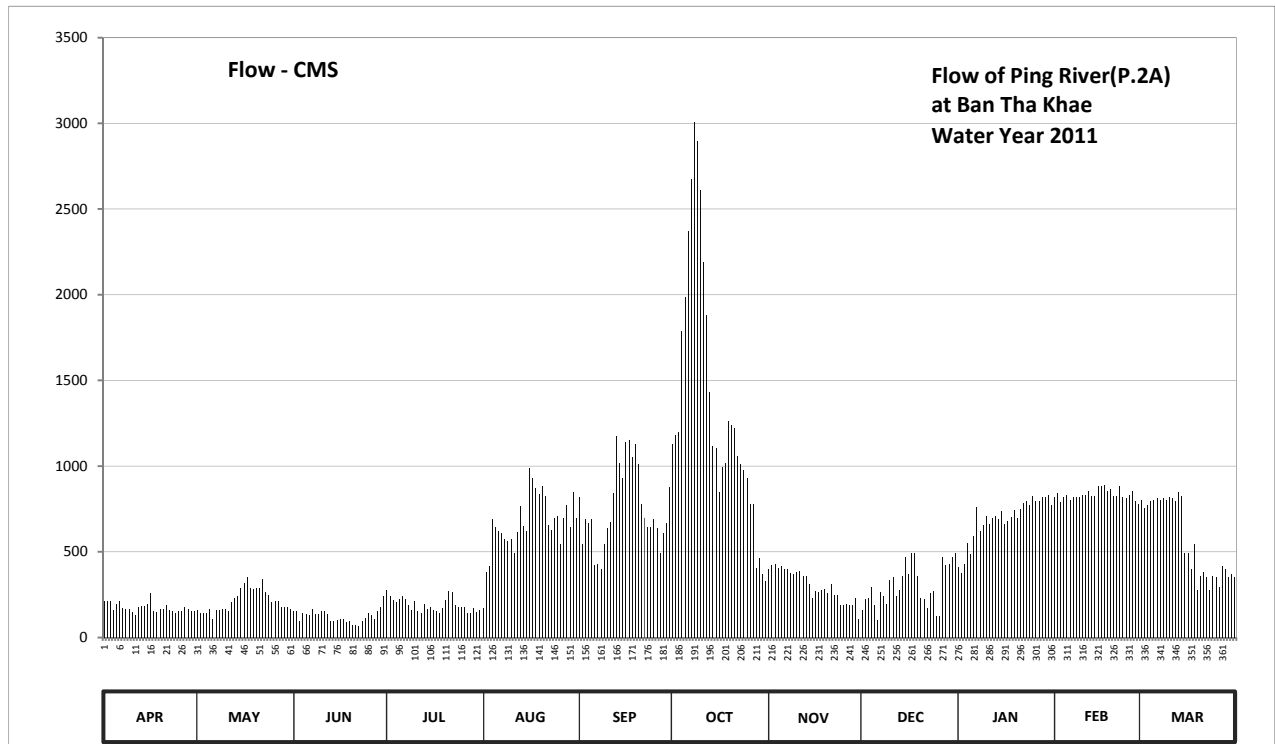
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.85	302.08	302.18	302.19	303.36	303.01	303.99	302.27	302.08	301.82	301.81	301.76	
2	301.84	302.35	302.09	302.18	304.11	302.99	303.82	302.23	302.07	301.88	301.81	301.74	
3	301.85	302.49	302.12	302.23	303.50	302.98	303.68	302.20	302.07	301.88	301.81	301.70	
4	301.85	302.57	302.27	302.25	303.06	302.91	303.65	302.23	302.09	301.88	301.81	301.69	
5	301.86	302.45	302.38	302.21	302.68	302.78	303.59	302.26	302.08	301.88	301.79	301.70	
6	301.86	302.51	302.48	302.12	302.54	303.24	303.41	302.26	302.07	301.87	301.76	301.71	
7	301.89	302.42	302.52	302.09	302.50	303.86	302.98	302.33	302.05	301.87	301.76	301.69	
8	301.89	302.28	302.28	302.07	302.52	303.46	302.87	302.23	302.03	301.87	301.76	301.69	
9	301.91	302.19	302.18	302.06	302.56	303.13	302.85	302.25	302.01	301.87	301.76	301.70	
10	301.95	302.23	302.14	302.08	302.73	303.03	302.82	302.27	302.00	301.87	301.77	301.73	
11	301.98	302.24	302.13	302.16	302.93	302.89	302.73	302.20	302.00	301.87	301.93	301.89	
12	301.98	302.16	302.15	302.19	303.07	302.70	302.65	302.16	302.00	301.87	302.00	301.89	
13	302.00	302.10	302.19	302.12	303.13	302.98	302.68	302.14	301.99	301.87	302.00	301.91	
14	302.01	302.07	302.23	302.12	303.01	303.35	302.74	302.12	301.99	301.93	302.01	301.94	
15	302.02	302.06	302.24	302.34	302.93	303.53	302.67	302.11	301.97	302.07	302.03	301.97	
16	301.98	302.09	302.19	302.48	302.98	303.24	302.60	302.12	301.94	301.95	301.94	301.91	
17	301.94	302.19	302.15	302.60	302.84	302.97	302.62	302.11	301.93	301.89	301.81	301.87	
18	301.95	302.34	302.14	302.52	302.79	302.85	302.63	302.12	301.94	301.87	301.79	301.80	
19	301.92	302.47	302.13	302.39	302.91	302.87	302.59	302.15	301.93	301.87	301.78	301.80	
20	301.96	302.62	302.11	302.36	303.00	303.09	302.49	302.21	301.91	301.85	301.76	301.82	
21	301.96	302.49	302.12	302.34	302.93	302.96	302.42	302.18	301.90	301.84	301.75	301.78	
22	301.96	302.30	302.13	302.34	303.05	303.17	302.39	302.16	301.90	301.84	301.75	301.77	
23	301.94	302.23	302.10	302.33	302.99	303.21	302.37	302.16	301.90	301.84	301.68	301.81	
24	302.07	302.17	302.09	302.33	302.84	303.05	302.34	302.16	301.90	301.84	301.68	301.79	
25	302.22	302.14	302.08	302.48	302.73	303.23	302.30	302.15	301.90	301.83	301.74	301.80	
26	302.25	302.08	302.22	302.48	303.18	303.31	302.28	302.15	301.90	301.81	301.73	301.83	
27	302.12	302.10	302.43	302.37	303.97	303.39	302.27	302.13	301.89	301.83	301.71	301.88	
28	302.04	302.17	302.44	302.26	303.76	304.60	302.26	302.13	301.89	301.82	301.76	301.90	
29	302.00	302.15	302.35	302.24	303.48	305.37	302.27	302.11	301.89	301.82	301.76	301.91	
30	302.07	302.18	302.26	302.23	303.13	304.97	302.33	302.09	301.88	301.81		301.89	
31		302.29		302.32	303.04		302.39		301.88	301.82		301.84	
Mean	301.97	302.26	302.22	302.27	303.04	303.30	302.76	302.18	301.97	301.87	301.81	301.81	
Max	302.25	302.62	302.52	302.60	304.11	305.37	303.99	302.33	302.09	302.07	302.03	301.97	305.37
Min	301.84	302.06	302.08	302.06	302.50	302.70	302.26	302.09	301.88	301.81	301.68	301.69	301.68
Annual Max Momentary Gage Height		305.44	m. (MSL.) ,		at 04.00 Hours , on Sep 29 , 2011								
Zero Gage at Bottom Elevation		300.50	m. (MSL.) ,		River Bed	299.08	m. (MSL)						
Left Bank Elevation			307.73	m. (MSL.) ,									
Right Bank Elevation		307.63	m. (MSL.) ,		Drainage Area	6350	Square Kilometers						



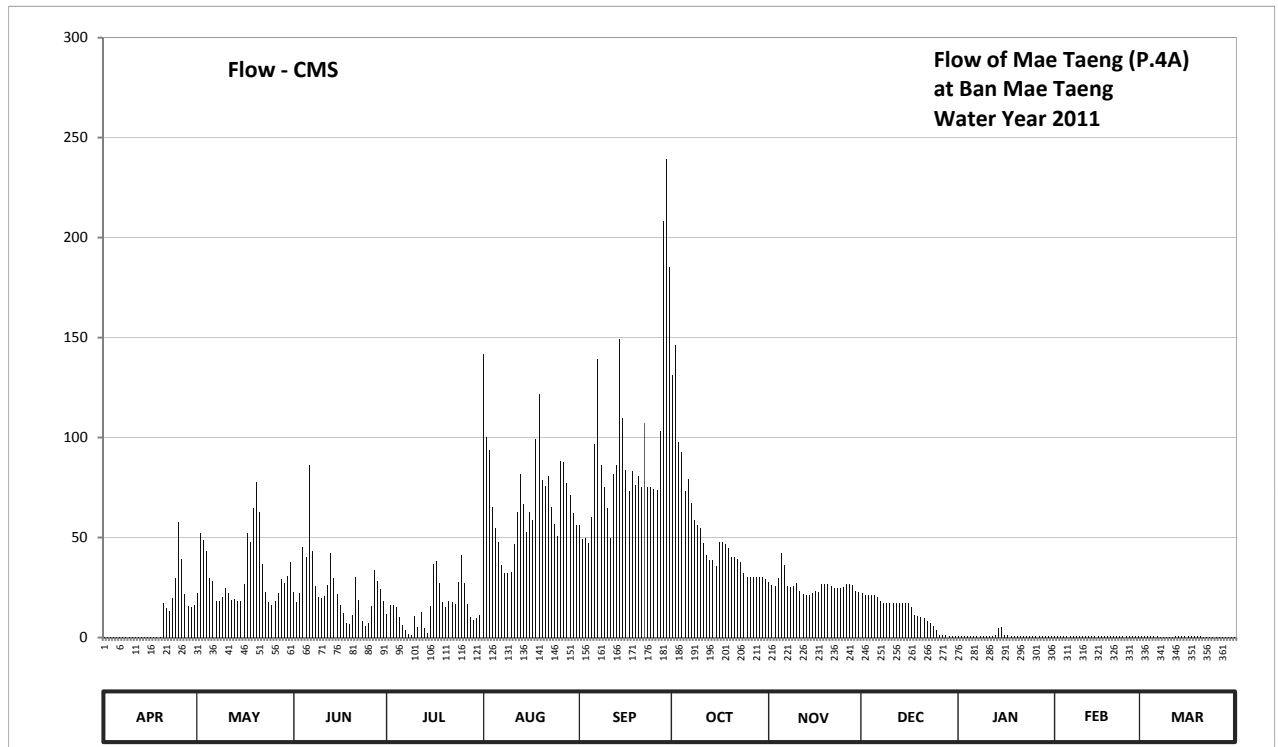
Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	22.25	54.10	69.85	71.42	295.20	220.10	441.60	84.55	54.10	18.80	17.65	12.90		
2	21.10	97.75	55.67	69.85	470.39	215.95	400.80	77.95	52.53	25.70	17.65	11.10		
3	22.25	121.30	60.40	77.95	327.00	213.90	368.40	73.00	52.53	25.70	17.65	7.50		
4	22.25	134.90	84.55	81.25	230.60	199.55	361.50	77.95	55.67	25.70	17.65	6.77		
5	23.40	114.50	102.70	74.65	154.80	173.30	347.70	82.90	54.10	25.70	15.60	7.50		
6	23.40	124.70	119.60	60.40	129.80	268.80	306.30	82.90	52.53	24.55	12.90	8.40		
7	26.85	109.40	126.40	55.67	123.00	410.40	213.90	94.45	49.37	24.55	12.90	6.77		
8	26.85	86.20	86.20	52.53	126.40	317.80	191.35	77.95	46.22	24.55	12.90	6.77		
9	29.35	71.42	69.85	50.95	133.20	245.30	187.25	81.25	43.08	24.55	12.90	7.50		
10	34.75	77.95	63.55	54.10	164.05	224.30	181.10	84.55	41.50	24.55	13.80	10.20		
11	38.80	79.60	61.97	66.70	203.65	195.45	164.05	73.00	41.50	24.55	32.05	26.85		
12	38.80	66.70	65.12	71.42	232.70	158.50	149.25	66.70	41.50	24.55	41.50	26.85		
13	41.50	57.25	71.42	60.40	245.30	213.90	154.80	63.55	40.15	24.55	41.50	29.35		
14	43.08	52.53	77.95	60.40	220.10	293.00	165.90	60.40	40.15	32.05	43.08	33.40		
15	44.65	50.95	79.60	96.10	203.65	333.90	152.95	58.82	37.45	52.53	46.22	37.45		
16	38.80	55.67	71.42	119.60	213.90	268.80	140.00	60.40	33.40	34.75	33.40	29.35		
17	33.40	71.42	65.12	140.00	185.20	211.85	143.70	58.82	32.05	26.85	17.65	24.55		
18	34.75	96.10	63.55	126.40	175.15	187.25	145.55	60.40	33.40	24.55	15.60	16.50		
19	30.70	117.90	61.97	104.35	199.55	191.35	138.30	65.12	32.05	24.55	14.70	16.50		
20	36.10	143.70	58.82	99.40	218.00	236.90	121.30	74.65	29.35	22.25	12.90	18.80		
21	36.10	121.30	60.40	96.10	203.65	209.80	109.40	69.85	28.00	21.10	12.00	14.70		
22	36.10	89.50	61.97	96.10	228.50	253.70	104.35	66.70	28.00	21.10	12.00	13.80		
23	33.40	77.95	57.25	94.45	215.95	262.20	101.05	66.70	28.00	21.10	6.04	17.65		
24	52.53	68.28	55.67	94.45	185.20	228.50	96.10	66.70	28.00	21.10	6.04	15.60		
25	76.30	63.55	54.10	119.60	164.05	266.60	89.50	65.12	28.00	19.95	11.10	16.50		
26	81.25	54.10	76.30	119.60	255.80	284.20	86.20	65.12	28.00	17.65	10.20	19.95		
27	60.40	57.25	111.10	101.05	436.80	301.80	84.55	61.97	26.85	19.95	8.40	25.70		
28	47.80	68.28	112.80	82.90	386.80	594.00	82.90	61.97	26.85	18.80	12.90	28.00		
29	41.50	65.12	97.75	79.60	322.40	797.90	84.55	58.82	26.85	18.80	12.90	29.35		
30	52.53	69.85	82.90	77.95	245.30	690.20	94.45	55.67	25.70	17.65		26.85		
31		87.85		92.80	226.40		104.35		25.70	18.80		21.10		
Total	1150.94	2607.07	2285.95	2648.14	7122.49	8669.20	5513.10	2097.93	1162.58	751.53	541.78	574.21	35124.92	CMSDAY
Mean	38.36	84.10	76.20	85.42	229.76	288.97	177.84	69.93	37.50	24.24	18.68	18.52	95.97	CMS
Max	81.25	143.70	126.40	140.00	470.39	797.90	441.60	94.45	55.67	52.53	46.22	37.45	797.90	CMS
Min	21.10	50.95	54.10	50.95	123.00	158.50	82.90	55.67	25.70	17.65	6.04	6.77	6.04	CMS
Runoff	99.44	225.25	197.51	228.80	615.38	749.02	476.33	181.26	100.45	64.93	46.81	49.61	3034.79	MCM
Momentary Peak	816.80 CMS. at 305.44 m. (MSL.) at 04.00 Hours , on Sep 29 , 2011													
Runoff Yield	15.11	Liters/Second/Square KM.				Momentary Peak Yield		128.630	Liters/Second/Square KM.					



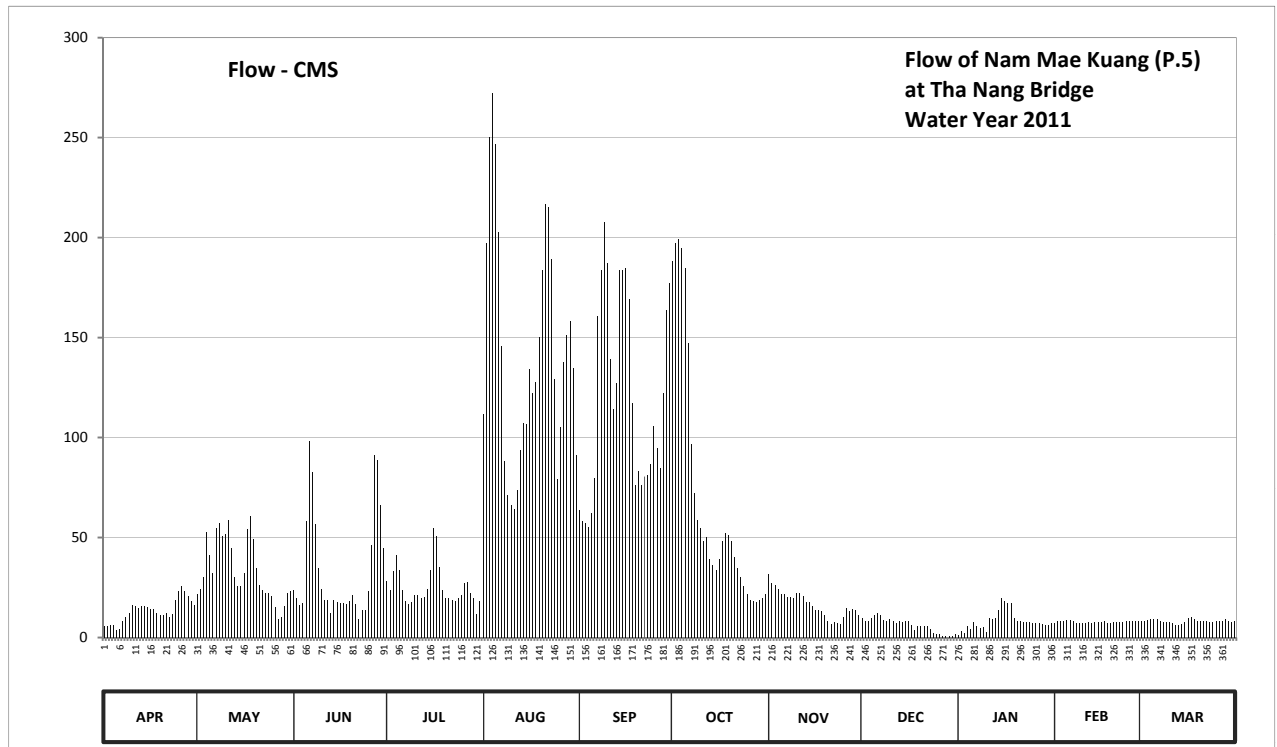
Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	210.20	161.80	156.20	279.00	170.20	817.40	1124.60	400.60	159.00	409.20	817.40	804.80	
2	213.10	142.20	153.40	240.80	383.80	547.80	1183.00	422.10	225.30	375.60	843.40	754.40	
3	213.10	145.00	97.80	216.00	417.80	692.00	1198.60	426.40	231.50	426.40	792.20	773.30	
4	161.80	145.00	139.40	207.30	692.00	668.00	1785.40	404.90	293.00	553.40	817.40	798.50	
5	195.70	167.40	133.80	222.20	644.00	692.00	1987.80	417.80	187.00	486.00	830.00	804.80	
6	210.20	107.60	128.40	240.80	621.20	422.10	2373.40	396.30	102.60	592.70	804.80	811.10	
7	170.20	159.00	167.40	222.20	609.80	430.70	2673.40	396.30	263.00	760.70	817.40	804.80	
8	167.40	159.00	136.60	187.00	575.80	400.60	3010.40	375.60	240.80	621.20	817.40	811.10	
9	164.60	167.40	136.60	159.00	564.60	547.80	2896.20	367.40	192.80	656.00	817.40	804.80	
10	147.80	167.40	156.20	210.20	575.80	638.30	2607.60	383.80	336.20	710.30	830.00	817.40	
11	128.40	153.40	153.40	156.20	496.00	674.00	2191.80	387.90	351.00	662.00	830.00	811.10	
12	175.80	204.40	133.80	142.20	615.50	843.40	1882.20	359.20	240.80	698.00	856.80	798.50	
13	184.20	228.40	93.00	195.70	767.00	1175.70	1429.20	359.20	279.00	710.30	823.70	850.10	
14	184.20	240.80	97.80	167.40	650.00	1016.00	1117.30	310.50	359.20	692.00	823.70	823.70	
15	195.70	289.50	102.60	175.80	621.20	932.00	1102.70	231.50	467.20	735.50	883.60	491.00	
16	256.60	317.70	107.60	161.80	988.00	1139.20	850.10	272.60	371.50	662.00	883.60	496.00	
17	153.40	351.00	105.00	156.20	932.00	1153.80	995.00	263.00	496.00	680.00	890.30	396.30	
18	147.80	286.00	88.20	145.00	870.20	1051.60	1016.00	275.80	491.00	704.00	856.80	547.80	
19	167.40	282.50	93.00	173.00	836.70	1124.60	1261.00	282.50	359.20	741.80	863.50	275.80	
20	167.40	289.50	72.20	216.00	883.60	1009.00	1237.60	259.80	228.40	698.00	823.70	359.20	
21	189.90	289.50	70.00	269.40	823.70	779.60	1222.00	310.50	222.20	748.10	823.70	383.80	
22	161.80	339.90	65.60	266.20	656.00	698.00	1058.90	247.00	173.00	785.90	883.60	355.10	
23	156.20	263.00	93.00	189.90	626.90	644.00	1009.00	250.20	256.60	798.50	817.40	279.00	
24	139.40	250.20	112.80	175.80	698.00	644.00	974.00	187.00	269.40	773.30	811.10	359.20	
25	156.20	207.30	139.40	175.80	710.30	692.00	932.00	189.90	123.20	823.70	830.00	351.00	
26	156.20	213.10	128.40	178.60	547.80	638.30	779.60	192.80	123.20	798.50	856.80	296.50	
27	175.80	210.20	105.00	139.40	698.00	496.00	779.60	187.					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	22.35	22.80	11.75	141.63	56.20	131.12	27.75	22.35	0.90	0.70	0.55	
2	0.19	52.30	17.63	16.13	100.00	49.43	146.20	26.40	21.45	0.90	0.70	0.55	
3	0.19	48.90	22.35	16.13	93.60	49.95	97.60	25.95	21.00	0.85	0.70	0.50	
4	0.18	43.12	45.22	15.38	65.30	47.32	92.80	29.55	21.00	0.85	0.70	0.50	
5	0.18	29.55	40.50	10.35	54.90	60.10	73.10	42.07	21.00	0.80	0.70	0.50	
6	0.17	28.20	86.00	6.26	47.85	96.80	79.25	36.30	20.25	0.80	0.70	0.50	
7	0.15	18.37	43.12	3.89	36.30	139.00	67.25	25.50	18.37	0.80	0.70	0.45	
8	0.15	18.37	25.50	1.78	32.10	86.00	58.80	25.05	17.25	0.80	0.70	0.40	
9	0.15	20.25	20.25	1.45	32.10	75.05	56.20	25.50	17.25	0.80	0.70	0.40	
10	0.15	24.60	19.50	10.70	32.63	64.65	54.90	27.30	17.25	0.80	0.65	0.40	
11	0.17	22.35	20.62	5.30	46.80	49.95	47.32	23.25	17.25	0.80	0.65	0.45	
12	0.20	18.75	26.40	12.80	62.70	81.50	41.03	21.90	17.25	0.85	0.65	0.55	
13	0.22	19.12	42.07	4.58	81.50	86.00	38.93	21.00	17.25	1.01	0.65	0.55	
14	0.19	18.00	29.55	2.00	66.60	148.98	38.93	21.00	17.25	4.58	0.65	0.60	
15	0.17	18.00	21.90	15.75	52.95	109.70	35.78	22.35	17.25	5.06	0.65	0.60	
16	0.16	26.85	16.50	36.82	62.70	83.75	47.85	23.25	17.25	1.34	0.65	0.60	
17	0.12	52.30	12.10	38.40	58.80	73.10	47.85	22.80	15.38	1.01	0.60	0.60	
18	0.11	47.85	7.20	27.30	99.20	83.00	46.80	26.85	11.40	0.90	0.60	0.60	
19	0.16	64.65	6.85	17.63	121.60	76.35	44.70	26.85	10.70	0.90	0.60	0.60	
20	17.25	77.75	11.05	15.00	78.50	80.75	40.50	26.85	10.00	0.85	0.60	0.60	
21	14.62	62.70	30.00	18.37	75.70	75.05	40.50	25.95	9.65	0.80	0.65	0.26	
22	13.15	36.82	18.75	17.63	80.75	107.20	39.45	24.60	8.25	0.70	0.65	0.40	
23	19.88	22.80	8.25	16.87	65.30	75.05	37.88	24.60	7.20	0.65	0.65	0.40	
24	29.55	17.63	5.54	27.75	56.85	75.05	32.10	24.60	5.78	0.65	0.60	0.40	
25	57.50	16.50	7.20	41.03	51.00	74.40	30.00	25.05	3.89	0.65	0.65	0.40	
26	39.45	18.00	15.75	27.30	88.25	73.75	30.00	26.85	1.45	0.65	0.65	0.40	
27	21.90	22.35	33.68	16.87	87.50	103.20	30.00	26.85	1.01	0.65	0.65	0.40	
28	15.75	29.10	28.20	10.35	77.00	208.20	30.00	26.40	1.01	0.65	0.65	0.40	
29	15.38	27.30	24.15	8.95	71.15	239.40	30.00	23.25	0.90	0.65	0.60	0.40	
30	16.50	30.53	18.37	9.65	62.05	185.00	30.00	22.80	0.90	0.65		0.40	
31		37.88		11.40	56.20		29.10		0.90	0.65		0.40	
Total	264.14	993.24	727.00	475.57	2139.51	2813.88	1645.94	778.42	389.09	32.95	19.00	14.76	10293.50 CMSDAY
Mean	8.80	32.04	24.23	15.34	69.02	93.80	53.09	25.95	12.55	1.06	0.66	0.48	28.12 CMS
Max	57.50	77.75	86.00	41.03	141.63	239.40	146.20	42.07	22.35	5.06	0.70	0.60	239.40 CMS
Min	0.11	16.50	5.54	1.45	32.10	47.32	29.10	21.00	0.90	0.65	0.60	0.26	0.11 CMS
Runoff	22.82	85.82	62.81	41.09	184.85	243.12	142.21	67.26	33.62	2.85	1.64	1.28	889.36 MCM
Momentary Peak	251.17 CMS. at 337.49 m. (MSL.) at 04.00 Hours , on Sep 29 , 2011												
Runoff Yield	14.57	Liters/Second/Square KM.			Momentary Peak Yield			130.14	Liters/Second/Square KM.				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.90	21.90	23.70	28.50	111.75	63.70	188.10	31.50	9.50	1.44	7.25	8.50	
2	5.90	24.30	19.50	23.70	197.45	58.10	197.45	27.00	8.38	3.06	8.00	8.25	
3	6.21	30.00	16.20	33.00	250.15	57.40	199.15	26.25	8.07	2.36	8.25	8.75	
4	6.21	53.00	17.30	41.00	272.37	55.40	194.90	24.30	9.50	5.90	8.50	9.00	
5	3.74	41.00	58.10	33.80	246.75	62.30	184.70	21.90	11.00	4.28	8.75	9.28	
6	4.28	32.25	98.00	23.70	202.55	79.80	147.12	21.90	12.00	7.76	8.75	9.00	
7	8.07	54.80	82.60	18.40	145.57	160.60	96.60	20.10	11.00	5.63	8.25	8.25	
8	10.00	57.40	56.70	16.75	88.20	183.85	72.10	20.10	8.69	4.55	7.25	7.75	
9	12.50	50.60	34.60	17.85	71.40	207.65	58.80	19.50	8.38	5.36	7.00	7.50	
10	16.20	51.80	24.30	21.30	66.50	187.25	54.80	22.50	9.00	2.92	7.00	7.50	
11	15.65	58.80	18.95	21.30	64.40	139.37	48.20	22.50	8.38	9.50	7.00	7.00	
12	14.55	44.60	18.95	19.50	73.50	114.00	50.00	20.70	7.45	9.00	7.75	6.30	
13	15.65	30.00	12.00	20.10	93.80	126.98	39.40	17.85	8.07	9.50	7.25	6.10	
14	15.65	25.50	18.95	24.30	107.25	183.85	36.20	17.85	7.76	13.50	7.50	6.75	
15	15.10	25.50	17.85	33.80	106.50	183.85	33.80	15.65	8.07	19.50	7.75	7.75	
16	14.00	32.25	17.30	54.80	133.95	184.70	39.40	13.50	8.07	18.40	7.75	9.84	
17	14.00	54.20	17.30	50.60	122.32	169.40	48.20	13.50	6.21	17.30	8.00	10.40	
18	12.50	60.90	16.75	35.40	127.75	117.00	52.40	13.00	3.74	17.30	7.25	9.00	
19	11.00	49.10	18.40	23.70	150.22	76.30	51.20	11.00	5.63	9.84	7.25	8.50	
20	11.00	34.60	21.30	19.50	183.85	83.30	48.20	8.38	5.63	8.50	7.50	8.50	
21	12.00	26.25	16.75	19.50	217.00	76.30	40.20	6.52	5.90	8.25	7.75	8.00	
22	10.50	23.70	9.00	18.95	215.30	80.50	34.60	7.76	5.63	7.75	7.75	8.00	
23	11.50	22.50	13.50	18.40	188.95	81.20	30.00	7.45	4.28	7.75	7.75	7.50	
24	18.95	22.50	13.50	19.50	129.30	86.80	25.50	6.83	2.50	7.50	8.00	7.50	
25	23.10	20.70	23.10	21.30	79.10	105.75	21.90	10.00	1.94	7.25	8.25	8.00	
26	25.50	15.10	46.40	27.00	105.00	94.50	18.95	14.55	1.62	7.00	8.50	8.00	
27	23.10	9.00	91.00	27.75	137.82	84.70	18.40	13.00	0.90	7.00	8.25	8.00	
28	20.70	10.00	88.90	22.50	151.00	122.32	17.85	14.00	0.78	6.75	8.50	9.00	
29	18.40	15.65	66.50	19.50	158.20	163.80	18.95	13.50	0.84	6.50	8.25	8.25	
30	16.20	22.50	44.60	11.50	134.72	177.40	19.50	11.00	0.72	6.50		7.75	
31		23.10		18.40	91.00								

WATER YEAR : 2011**PING RIVER BASIN****Ping River at Ban Huai Yang , Kamphaeng Phet (P.7A)**

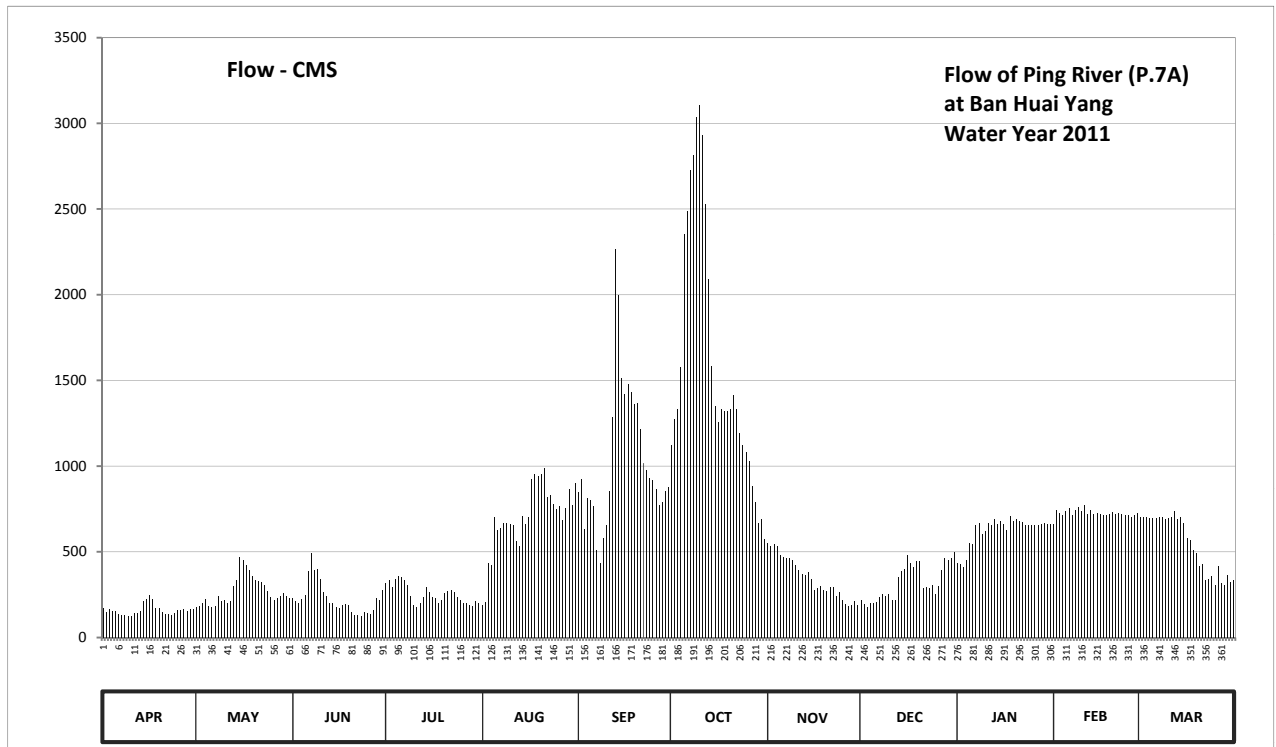
Lat 16 - 28 - 41 N Long 99 - 31 - 19 E

Location : on left bank about 100 meters upstream from the bridge on highway.

	Ban	Huai Yang	Amphoe	Mueang	Changwat	Kamphaeng Phet
Drainage Area	42,464	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+71.730	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the gage observers house.				Elevation	+77.717 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1960 to date					
Rating Operation						
Period of Rating	1960 - 1961 , 1967 to date					
Rated by Flot	-					
Rated by Current Meter	1960 - 1961 , 1967 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +76.760 m.(MSL.), records are channel flow only.					
General Description	Records good. Flow regulated by Phumiphol Dam reservior above gage site.					
	Stage-discharge relation defined by 44 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	72.51	72.53	72.68	72.94	72.57	74.05	74.48	73.50	72.66	73.23	73.72	73.79	
2	72.43	72.54	72.64	72.98	72.62	74.18	74.69	73.46	72.59	73.22	73.87	73.80	
3	72.48	72.60	72.61	72.87	73.24	73.66	74.77	73.48	72.53	73.18	73.84	73.80	
4	72.45	72.67	72.67	73.01	73.21	73.99	75.10	73.46	72.61	73.28	73.82	73.78	
5	72.45	72.54	72.74	73.05	73.79	73.97	76.03	73.34	72.60	73.50	73.86	73.78	
6	72.39	72.52	73.12	73.03	73.65	73.91	76.19	73.31	72.62	73.49	73.89	73.78	
7	72.36	72.54	73.37	72.99	73.67	73.41	76.45	73.30	72.71	73.70	73.82	73.80	
8	72.36	72.72	73.14	72.90	73.73	73.23	76.54	73.30	72.76	73.73	73.87	73.79	
9	72.35	72.64	73.16	72.73	73.73	73.56	76.77	73.28	72.73	73.61	73.90	73.77	
10	72.35	72.65	73.01	72.56	73.72	73.71	76.84	73.21	72.75	73.64	73.86	73.78	
11	72.40	72.60	72.79	72.53	73.70	74.06	76.66	73.14	72.65	73.73	73.92	73.79	
12	72.40	72.63	72.73	72.60	73.52	74.71	76.23	73.08	72.66	73.70	73.83	73.86	
13	72.45	72.89	72.61	72.71	73.46	75.93	75.73	73.06	73.03	73.77	73.87	73.77	
14	72.64	72.98	72.60	72.88	73.81	75.62	75.11	73.11	73.12	73.72	73.83	73.79	
15	72.67	73.31	72.52	72.80	73.72	75.02	74.80	73.01	73.15	73.75	73.84	73.73	
16	72.74	73.28	72.51	72.70	73.79	74.89	74.67	72.83	73.35	73.72	73.83	73.56	
17	72.67	73.21	72.57	72.68	74.18	74.97	74.77	72.85	73.24	73.65	73.82	73.53	
18	72.51	73.14	72.59	72.60	74.22	74.91	74.76	72.89	73.18	73.81	73.82	73.41	
19	72.50	73.05	72.56	72.65	74.20	74.81	74.76	72.83	73.26	73.75	73.83	73.37	
20	72.42	72.98	72.43	72.78	74.22	74.82	74.77	72.81	73.27	73.77	73.85	73.19	
21	72.39	72.97	72.36	72.81	74.28	74.61	74.88	72.87	72.86	73.75	73.83	73.22	
22	72.39	72.96	72.37	72.83	74.00	74.32	74.77	72.87	72.87	73.74	73.84	72.99	
23	72.37	72.91	72.35	72.80	74.02	74.26	74.58	72.72	72.86	73.70	73.83	73.01	
24	72.41	72.81	72.43	72.71	73.93	74.19	74.48	72.79	72.90	73.71	73.82	73.05	
25	72.47	72.70	72.40	72.65	73.88	74.17	74.42	72.66	72.76	73.70	73.82	72.90	
26	72.47	72.65	72.39	72.61	73.91	74.08	74.34	72.59	72.89	73.71	73.80	73.20	
27	72.49	72.69	72.46	72.60	73.76	73.92	74.11	72.55	73.14	73.70	73.82	72.94	
28	72.45	72.72	72.68	72.56	73.89	73.95	73.95	72.56	73.30	73.72	73.84	72.91	
29	72.48	72.77	72.66	72.55	74.08	74.06	73.73	72.64	73.28	73.73	73.77	73.06	
30	72.48	72.73	72.83	72.63	73.92	74.10	73.77	72.56	73.30	73.72		72.95	
31		72.68		72.60	74.14		73.55		73.38	73.72		72.99	
Mean	72.46	72.79	72.67	72.75	73.76	74.30	75.05	73.00	72.94	73.64	73.84	73.45	
Max	72.74	73.31	73.37	73.05	74.28	75.93	76.84	73.50	73.38	73.81	73.92	73.86	76.84
Min	72.35	72.52	72.35	72.53	72.57	73.23	73.55	72.55	72.53	73.18	73.72	72.90	72.35
Annual Max Momentary Gage Height	76.87		m. (MSL.) ,			at 06.00 Hours , on Oct 10 , 2011							
Zero Gage at Bottom Elevation	71.73		m. (MSL.) ,			River Bed	70.50	m. (MSL)					
Left Bank Elevation			m. (MSL.) ,										
Right Bank Elevation		76.75	m. (MSL.) ,			Drainage Area	42464	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	173.00	179.00	227.20	318.40	191.00	847.00	1124.40	553.00	220.40	431.90	663.40	699.80	
2	149.00	182.00	213.60	332.80	206.80	925.80	1272.80	533.80	197.00	427.60	743.50	705.00	
3	164.00	200.00	203.40	293.20	436.20	632.20	1330.40	543.40	179.00	410.80	727.00	705.00	
4	155.00	223.80	223.80	343.80	423.30	811.30	1577.00	533.80	203.40	453.40	716.00	694.60	
5	155.00	182.00	247.60	359.00	699.80	799.90	2351.10	479.20	200.00	553.00	738.00	694.60	
6	137.30	176.00	386.20	351.40	627.00	765.70	2491.20	466.30	206.80	548.20	754.50	694.60	
7	129.20	182.00	492.10	336.40	637.40	509.80	2729.00	462.00	237.40	653.00	716.00	705.00	
8	129.20	240.80	394.40	304.00	668.60	431.90	2814.80	462.00	254.40	668.60	743.50	699.80	
9	126.50	213.60	402.60	244.20	668.60	581.80	3037.90	453.40	244.20	606.20	760.00	689.40	
10	126.50	217.00	343.80	188.00	663.40	658.20	3105.80	423.30	251.00	621.80	738.00	694.60	
11	140.00	200.00	264.60	179.00	653.00	853.00	2931.20	394.40	217.00	668.60	771.40	699.80	
12	140.00	210.20	244.20	200.00	562.60	1287.20	2527.00	370.40	220.40	653.00	721.50	738.00	
13	155.00	300.40	203.40	237.40	533.80	2264.10	2091.80	362.80	351.40	689.40	743.50	689.40	
14	213.60	332.80	200.00	296.80	710.50	1998.80	1584.70	382.10	386.20	663.40	721.50	699.80	
15	223.80	466.30	176.00	268.00	663.40	1515.40	1352.00	343.80	398.50	679.00	727.00	668.60	
16	247.60	453.40	173.00	234.00	699.80	1418.60	1258.40	278.80	483.50	663.40	721.50	581.80	
17	223.80	423.30	191.00	227.20	925.80	1477.80	1330.40	286.00	436.20	627.00	716.00	567.40	
18	173.00	394.40	197.00	200.00	951.20	1433.40	1323.20	300.40	410.80	710.50	716.00	509.80	
19	170.00	359.00	188.00	217.00	938.00	1359.40	1323.20	278.80	444.80	679.00	721.50	492.10	
20	146.00	332.80	149.00	261.20	951.20	1366.80	1330.40	271.60	449.10	689.40	732.50	414.90	
21	137.30	329.20	129.20	271.60	990.80	1215.20	1411.20	293.20	289.60	679.00	721.50	427.60	
22	137.30	325.60	131.90	278.80	817.00	1017.20	1330.40	293.20	293.20	673.80	727.00	336.40	
23	131.90	307.60	126.50	268.00	829.00	977.60	1194.00	240.80	289.60	653.00	721.50	343.80	
24	143.00	271.60	149.00	237.40	777.10	931.90	1124.40	264.60	304.00	658.20	716.00	359.00	
25	161.00	234.00	140.00	217.00	749.00	919.70	1083.60	220.40	254.40	653.00	716.00	304.00	
26	161.00	217.00	137.30	203.40	765.70	865.00	1030.40	197.00	300.40	658.20	705.00	419.00	
27	167.00	230.60	158.00	200.00	684.20	771.40	883.10	185.00	394.40	653.00	716.00	318.40	
28													

WATER YEAR : 2011**PING RIVER BASIN****Ping River at Ban Wang Kra Chao , Tak (P.12C)**

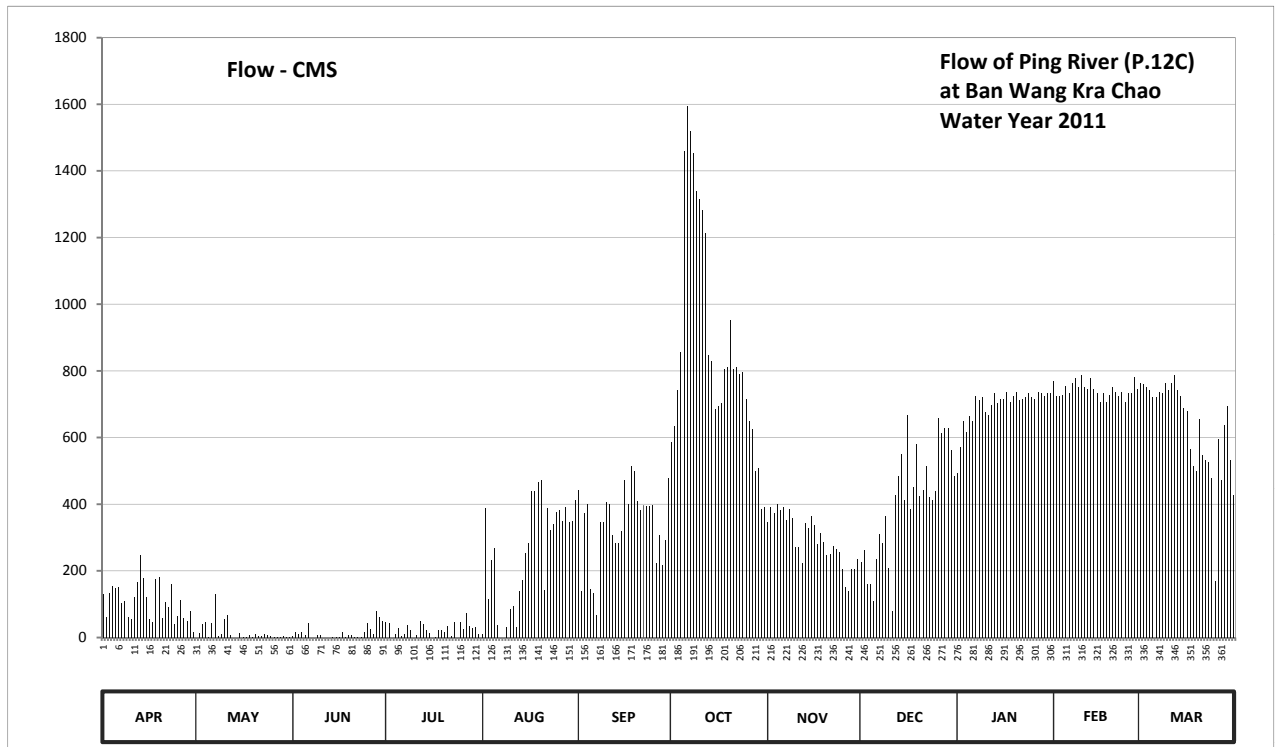
Lat 17 - 14 - 17 N Long 99 - 01 - 32 E

Location : on right bank about 3 kilometers from Phumiphol Dam reservoir.

	Ban	Wang Kra Chao	Amphoe	Sam Ngao	Changwat	Tak
Drainage Area	26,241	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+129.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the pier of the bridge.				Elevation	+136.995 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1995 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow regulated by Phumiphol Dam reservoir downstream from the gage site. Stage-discharge relation defined by 16 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.35	129.10	129.36	129.82	129.44	131.49	131.86	131.20	130.78	131.62	132.28	132.27	
2	129.95	129.50	129.55	129.80	131.33	130.40	131.97	131.34	130.92	131.82	132.18	132.26	
3	130.38	129.78	129.47	129.10	130.28	131.29	132.22	131.29	130.50	132.01	132.18	132.24	
4	130.47	129.83	129.56	129.48	130.80	131.37	132.47	131.37	130.50	131.93	132.19	132.22	
5	130.45	129.22	129.43	129.68	130.94	130.43	133.58	131.31	130.24	132.04	132.25	132.17	
6	130.46	129.80	129.80	129.34	129.75	130.37	133.80	131.34	130.81	132.01	132.20	132.17	
7	130.21	130.36	129.10	129.48	129.10	129.99	133.68	131.22	131.08	132.18	132.27	132.21	
8	130.24	129.33	129.10	129.75	129.10	131.20	133.57	131.32	130.99	132.15	132.30	132.20	
9	129.94	129.48	129.39	129.62	129.71	131.20	133.38	131.24	131.26	132.17	132.24	132.27	
10	129.90	129.89	129.39	129.10	130.11	131.39	133.34	130.95	130.71	132.07	132.32	132.22	
11	130.31	129.98	129.10	129.43	130.15	131.37	133.28	130.95	130.07	132.05	132.24	132.27	
12	130.53	129.43	129.10	129.85	129.71	131.07	133.16	130.77	131.45	132.12	132.23	132.32	
13	130.86	129.10	129.10	129.77	130.40	130.99	132.45	131.19	131.60	132.20	132.30	132.22	
14	130.58	129.10	129.30	129.62	130.56	130.99	132.41	131.14	131.77	132.13	132.23	132.18	
15	130.31	129.52	129.29	129.50	130.88	131.11	132.09	131.26	131.41	132.16	132.20	132.10	
16	129.90	129.29	129.29	129.10	130.99	131.57	132.11	131.17	132.05	132.16	132.14	132.08	
17	129.82	129.14	129.55	129.28	131.48	131.37	132.13	130.98	131.32	132.21	132.20	131.81	
18	130.57	129.42	129.24	129.62	131.48	131.68	132.36	131.09	131.51	132.14	132.14	131.68	
19	130.60	129.26	129.42	129.62	131.55	131.64	132.37	131.00	131.84	132.18	132.19	131.64	
20	129.91	129.47	129.43	129.55	131.57	131.40	132.67	130.86	131.44	132.21	132.24	132.02	
21	130.22	129.38	129.19	129.73	130.41	131.31	132.36	130.87	131.49	132.15	132.21	131.76	
22	130.13	129.37	129.20	129.32	131.33	131.36	132.37	130.96	131.68	132.16	132.18	131.72	
23	130.50	129.44	129.23	129.83	131.12	131.35	132.33	130.93	131.43	132.17	132.21	131.71	
24	129.79	129.39	129.56	129.10	131.18	131.35	132.34	130.90	131.41	132.20	132.14	131.58	
25	129.96	129.36	129.81	129.82	131.30	131.36	132.16	130.70	131.48	132.17	132.20	130.54	
26	130.26	129.30	129.63	129.64	131.31	130.77	132.01	130.46	132.03	132.16	132.20	131.88	
27	129.91	129.23	129.48	130.03	131.21	131.07	131.95	130.40	131.92	132.21	132.31	131.57	
28	129.85	129.29	130.06	129.72	131.34	130.74	131.64	130.70	131.96	132.20	132.23	131.98	
29	130.07	129.32	129.94	129.68	131.20	131.02	131.66	130.69	131.96	132.18	132.21	132.11	
30	129.55	129.25	129.86	129.71	131.21	131.58	131.32	130.82	131.80	132.20		131.72	
31		129.30		129.45	131.41		131.34		131.60	132.20		131.45	
Mean	130.20	129.44	129.43	129.57	130.72	131.14	132.46	131.01	131.32	132.11	132.22	131.95	
Max	130.86	130.36	130.06	130.03	131.57	131.68	133.80	131.37	132.05	132.21	132.32	132.32	133.80
Min	129.55	129.10	129.10	129.10	129.10	129.99	131.32	130.40	130.07	131.62	132.14	130.54	129.10
Annual Max Momentary Gage Height	133.89		m. (MSL.) ,				at 12.00 Hours , on Oct 6 , 2011						
Zero Gage at Bottom Elevation	129.00		m. (MSL.) ,			River Bed	127.73	m. (MSL)					
Left Bank Elevation	134.21		m. (MSL.) ,										
Right Bank Elevation	134.51		m. (MSL.) ,			Drainage Area	26241	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	129.00	0.00	4.90	45.10	8.90	443.30	586.90	346.50	226.60	491.80	768.20	763.80		
2	62.20	12.50	16.70	42.50	387.60	139.00	632.60	390.80	263.70	570.30	724.20	759.40		
3	135.00	40.20	10.70	0.00	115.60	374.80	741.80	374.80	160.00	649.40	724.20	750.60		
4	153.70	46.40	17.60	11.30	231.50	400.40	856.90	400.40	160.00	615.90	728.60	741.80		
5	149.50	1.30	8.30	29.00	269.40	145.30	1460.00	381.20	108.80	662.60	755.00	719.80		
6	151.60	42.50	42.50	4.10	36.70	133.00	1594.00	390.80	234.10	649.40	733.00	719.80		
7	103.70	131.00	0.00	11.30	0.00	67.70	1520.00	352.80	309.30	724.20	763.80	737.40		
8	108.80	3.70	0.00	36.70	0.00	346.50	1454.00	384.40	283.70	711.00	777.00	733.00		
9	60.90	11.30	6.10	23.00	32.20	346.50	1340.30	359.10	365.40	719.80	750.60	763.80		
10	55.50	54.20	6.10	0.00	86.70	406.80	1316.90	272.20	209.50	675.80	786.40	741.80		
11	121.00	66.30	0.00	8.30	93.50	400.40	1281.80	272.20	80.20	667.00	750.60	763.80		
12	166.70	8.30	0.00	49.00	32.20	306.50	1213.00	224.20	428.50	697.80	746.20	786.40		
13	247.40	0.00	0.00	39.10	139.00	283.70	847.50	343.30	484.00	733.00	777.00	741.80		
14	178.00	0.00	2.50	23.00	173.50	283.70	828.70	327.60	550.30	702.20	746.20	724.20		
15	121.00	14.20	2.30	12.50	252.70	318.10	684.60	365.40	413.70	715.40	733.00	689.00		
16	55.50	2.30	2.30	0.00	283.70	472.90	693.40	337.00	667.00	715.40	706.60	680.20		
17	45.10	0.40	16.70	2.20	439.60	400.40	702.20	280.80	384.40	737.40	733.00	566.10		
18	175.80	7.70	1.60	23.00	439.60	515.20	805.20	312.10	450.70	706.60	706.60	515.20		
19	182.50	1.90	7.70	23.00	465.50	499.60	809.90	286.50	578.60	724.20	728.60	499.60		
20	56.90	10.70	8.30	16.70	472.90	410.00	952.30	247.40	424.80	737.40	750.60	653.80		
21	105.40	5.70	0.90	34.40	141.10	381.20	805.20	250.00	443.30	711.00	737.40	546.40		
22	90.10	5.30	1.00	3.30	387.60	397.20	809.90	275.10	515.20	715.40	724.20	530.80		
23	160.00	8.90	1.40	46.40	321.30	394.00	791.10	266.50	421.10	719.80	737.40	526.90		
24	41.30	6.10	17.60	0.00	340.20	394.00	795.80	258.00	413.70	733.00	706.60	476.60		
25	63.60	4.90	43.80	45.10	378.00	397.20	715.40	207.00	439.60	719.80	733.00	169.00		
26	112.20	2.50	24.00	25.00	381.20	224.20	649.40	151.60	658.20	715.40	733.00	595.20		
27	56.90	1.40	11.30	73.80	349.70	306.50	624.20	139.00	611.80	737.40	781.70	472.90		
28	49.00	2.30	78.60	33.30	390.80	216.80	499.60	207.00	628.40	733.00	746.20	636.70		
29	80.20	3.30	60.90	29.00	346.50	292.20	507.40	204.50	628.40	724.20	737.40	693.40		
30	16.70	1.70	50.30	32.20	349.70	476.60	384.40	236.80	562.00	733.00		530.80		
31		2.50		9.50	413.70		390.80		484.00	733.00		428.50		
Total	3235.20	499.50	444.10	731.80	7760.60	10173.70	27295.20	8845.00	12589.00	21581.60	21526.30	19658.50	134340.50	CMSDAY
Mean	107.80	16.10	14.80	23.60	250.30	339.10	880.50	294.80	406.10	696.20	742.30	634.10	367.10	CMS
Max	247.40	131.00	78.60	73.80	472.90	515.20	1594.00	400.40	667.00	737.40	786.40	786.40	1594.00	CMS
Min	16.70	0.00	0.00	0.00	0.00	67.70	384.40	139.00	80.20	491.80	706.60	169.00	0.00	CMS
Runoff	279.52	43.16	38.37	63.23	670.52	879.01	2358.31	764.21	1087.69	1864.65	1859.87	1698.49	11607.02	MCM
Momentary Peak	1649.80 CMS. at 133.89 m. (MSL.) at 12.00 Hours , on Oct 6 , 2011													
Runoff Yield	13.99	Liters/Second/Square KM.			Momentary Peak Yield			62.871	Liters/Second/Square KM.					

WATER YEAR : 2011

PING RIVER BASIN

Nam Mae Chaem at Tha Kham Bridge , Chiang Mai (P.14A)

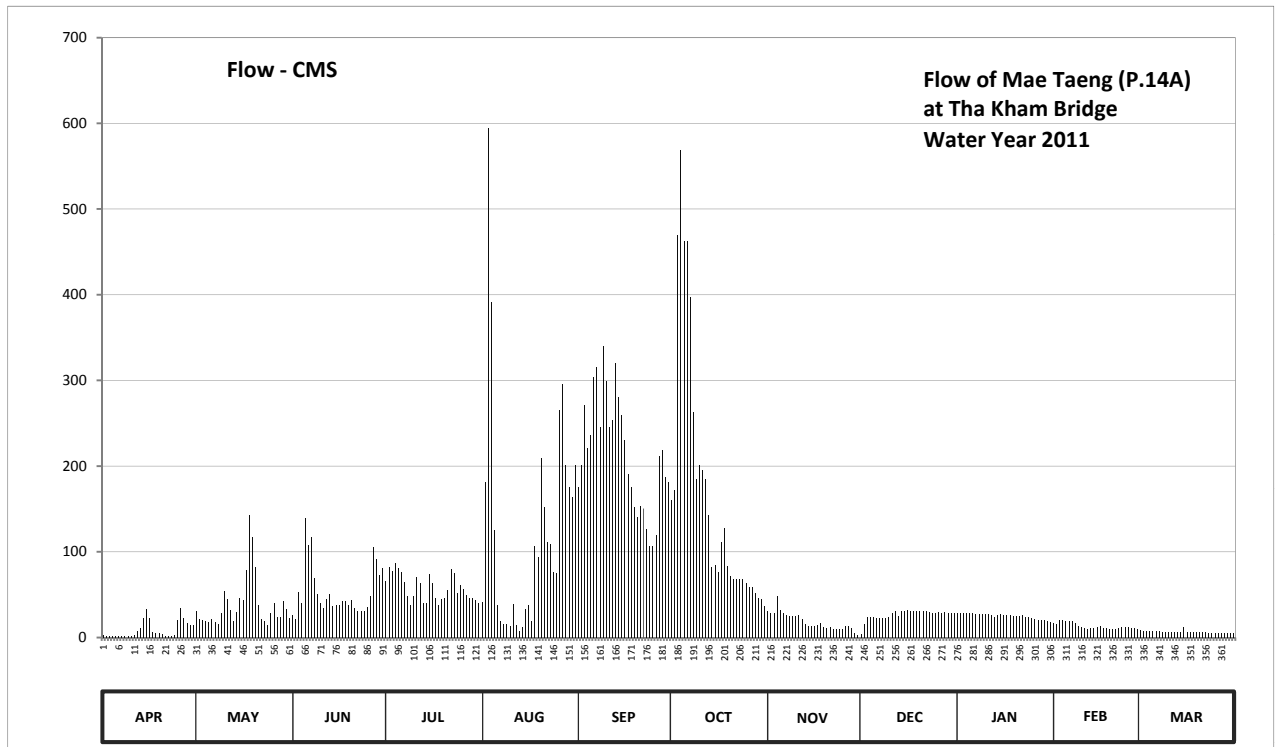
Lat 18 - 12 - 02 N Long 98 - 37 - 01 E

Location : on right bank near the bridge of Hot - Mae Sariang Highway at guidepost 7+500.

	Ban	-	Amphoe	Chom Thong	Changwat	Chiang Mai
Drainage Area	3,909	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+261.863	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	about 10 meters in front of automatic gage building.				Elevation	+267.972 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1953 to date					
Rating Operation						
Period of Rating	1955 - 1960 , 1967 to date					
Rated by Flot	-					
Rated by Current Meter	1955 - 1960 , 1967 to date					
Stability of Channel Regimes	Fairly stable by some silting.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. The concrete weir situated about 6 kilometers downstream from the gage site.					
	Stage-discharge relation defined by 37 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	262.91	263.41	263.34	263.83	264.04	265.14	265.05	263.90	263.39	263.87	263.68	263.53	
2	262.87	263.27	263.28	263.98	265.18	265.28	265.12	263.86	263.66	263.87	263.65	263.51	
3	262.86	263.26	263.69	263.94	266.12	265.56	265.96	263.87	263.80	263.87	263.73	263.51	
4	262.86	263.24	263.54	264.03	265.84	265.38	266.09	264.14	263.79	263.87	263.73	263.51	
5	262.86	263.23	264.43	263.97	264.83	265.44	265.95	263.92	263.79	263.86	263.71	263.50	
6	262.86	263.27	264.20	263.93	263.99	265.65	265.95	263.87	263.78	263.86	263.71	263.49	
7	262.86	263.23	264.27	263.82	263.71	265.68	265.85	263.83	263.78	263.84	263.71	263.49	
8	262.86	263.19	263.86	263.64	263.66	265.47	265.53	263.81	263.78	263.84	263.67	263.47	
9	262.86	263.37	263.66	263.51	263.66	265.74	265.20	263.81	263.78	263.84	263.61	263.47	
10	262.87	263.70	263.53	263.64	263.62	265.64	265.28	263.81	263.80	263.84	263.59	263.47	
11	262.94	263.59	263.46	263.87	264.02	265.47	265.25	263.82	263.86	263.84	263.57	263.47	
12	263.03	263.42	263.59	263.80	263.63	265.50	265.20	263.76	263.89	263.83	263.56	263.47	
13	263.11	263.25	263.66	263.54	263.50	265.69	264.94	263.65	263.81	263.80	263.57	263.47	
14	263.29	263.40	263.49	263.54	263.59	265.59	264.49	263.62	263.89	263.83	263.58	263.47	
15	263.45	263.60	263.50	263.91	263.94	265.52	264.52	263.61	263.90	263.84	263.59	263.59	
16	263.30	263.58	263.51	263.80	264.00	265.42	264.44	263.62	263.91	263.83	263.62	263.48	
17	263.02	263.95	263.56	263.61	263.71	265.23	264.74	263.64	263.90	263.83	263.58	263.47	
18	262.98	264.45	263.56	263.50	264.70	265.14	264.85	263.68	263.90	263.82	263.57	263.47	
19	263.00	264.27	263.50	263.59	264.61	265.00	264.51	263.60	263.89	263.81	263.56	263.47	
20	262.95	263.98	263.58	263.60	265.32	264.93	264.39	263.57	263.89	263.81	263.56	263.47	
21	262.90	263.50	263.46	263.71	265.00	265.01	264.36	263.60	263.89	263.81	263.56	263.46	
22	262.88	263.27	263.41	263.96	264.74	264.99	264.36	263.56	263.90	263.82	263.57	263.46	
23	262.86	263.25	263.41	263.92	264.72	264.84	264.35	263.56	263.88	263.80	263.59	263.45	
24	262.93	263.16	263.41	263.68	264.44	264.70	264.36	263.54	263.87	263.79	263.60	263.45	
25	263.26	263.37	263.47	263.78	264.43	264.70	264.30	263.56	263.87	263.77	263.59	263.45	
26	263.46	263.54	263.64	263.73	265.54	264.80	264.26	263.61	263.88	263.76	263.58	263.44	
27	263.30	263.31	264.18	263.65	265.63	265.33	264.25	263.61	263.87	263.74	263.57	263.44	
28	263.21	263.32	264.07	263									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.35	30.75	25.80	66.00	41.00	175.10	160.25	31.00	3.78	29.05	16.90	9.00	
2	1.40	21.05	21.70	81.80	181.70	201.00	171.80	28.40	15.80	29.05	15.25	8.00	
3	1.20	20.40	53.15	77.40	593.99	271.40	469.00	29.05	24.50	29.05	19.95	8.00	
4	1.20	19.10	40.70	87.30	391.00	221.00	569.24	48.90	23.85	29.05	19.95	8.00	
5	1.20	18.45	139.42	80.70	124.80	236.60	462.51	32.40	23.85	28.40	18.65	7.50	
6	1.20	21.05	108.00	76.30	37.30	303.50	462.51	29.05	23.20	28.40	18.65	7.15	
7	1.20	18.45	117.45	65.00	18.65	315.80	397.51	26.45	23.20	27.10	18.65	7.15	
8	1.20	15.95	69.00	48.90	15.80	245.30	262.70	25.15	23.20	27.10	16.35	6.45	
9	1.20	27.90	50.60	38.30	15.80	340.40	185.00	25.15	23.20	27.10	13.05	6.45	
10	1.40	54.00	39.90	48.90	13.60	299.41	201.00	25.15	24.50	27.10	12.00	6.45	
11	3.40	44.70	34.50	70.00	39.50	245.30	195.00	25.80	28.40	27.10	11.00	6.45	
12	7.15	31.50	44.70	63.00	14.15	254.00	185.00	21.90	30.35	26.45	10.50	6.45	
13	11.55	19.75	50.60	40.70	7.50	319.90	142.40	15.25	25.15	24.50	11.00	6.45	
14	22.35	30.00	36.75	40.70	12.00	280.10	81.72	13.60	30.35	26.45	11.50	6.45	
15	33.75	45.50	37.50	74.10	33.80	259.80	84.80	13.05	31.00	27.10	12.00	12.00	
16	23.00	43.90	38.30	63.00	38.00	230.81	76.60	13.60	31.70	26.45	13.60	6.80	
17	6.60	78.50	42.30	46.35	18.65	191.00	111.90	14.70	31.00	26.45	11.50	6.45	
18	4.80	142.38	42.30	37.50	106.50	175.10	128.00	16.90	31.00	25.80	11.00	6.45	
19	5.50	117.45	37.50	44.70	94.35	152.00	83.78	12.50	30.35	25.15	10.50	6.45	
20	3.75	81.80	43.90	45.50	209.00	140.80	71.55	11.00	30.35	25.15	10.50	6.45	
21	2.00	37.50	34.50	54.90	152.00	153.65	68.70	12.50	30.35	25.15	10.50	6.10	
22	1.60	21.05	30.75	79.60	111.90	150.40	68.70	10.50	31.00	25.80	11.00	6.10	
23	1.20	19.75	30.75	75.20	109.20	126.40	67.75	10.50	29.70	24.50	12.00	5.75	
24	3.05	14.30	30.75	52.30	76.60	106.50	68.70	9.50	29.05	23.85	12.50	5.75	
25	20.40	27.90	35.25	61.20	75.57	106.50	63.00	10.50	29.05	22.55	12.00	5.75	
26	34.50	40.70	48.90	56.70	265.60	120.00	59.40	13.05	29.70	21.90	11.50	5.40	
27	23.00	23.70	105.40	49.75	295.30	211.00	58.50	13.05	29.05	20.60	11.00	5.40	
28	17.15	24.40	91.70	46.35	201.00	219.00	52.30	11.50	29.70	20.60	10.50	5.40	
29	14.30	43.10	73.00	46.35	175.10	187.00	46.35	5.40	29.05	19.95	10.00	5.40	
30	14.85	33.75	80.70	43.90	163.55	181.70	44.75	3.12					

WATER YEAR : 2011**PING RIVER BASIN****Ping River at Wat Sri Phirom , Kamphaeng Phet (P.15)**

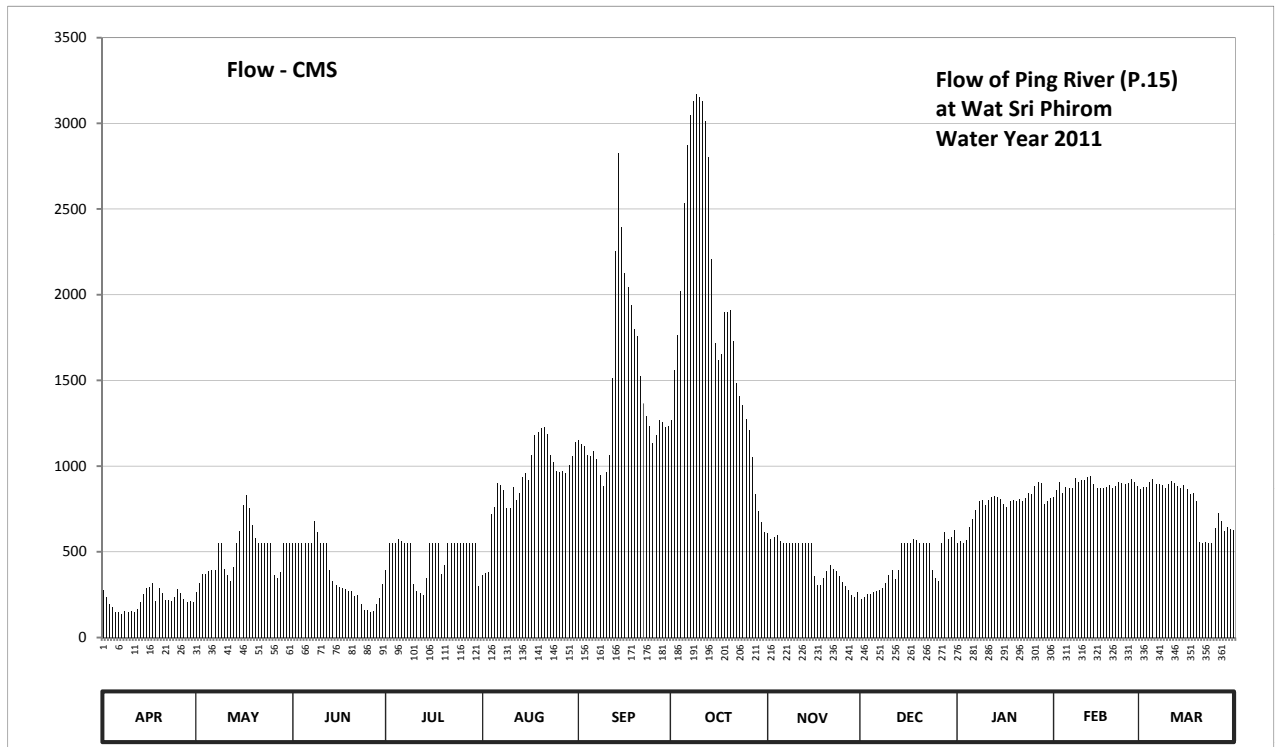
Lat 16 - 12 - 52 N Long 99 - 43 - 24 E

Location : on right bank in front of Amphoe Khlong Khlung Office.

	Ban	Wat Sri Phirom	Amphoe	Khlong Khlung	Changwat	Kamphaeng Phet
Drainage Area	44,461	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+51.555	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 30 meters from the south of Wat Sri Phirom.				Elevation	+56.617 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1954 to date					
Rating Operation						
Period of Rating	1964 - 1974 , 1997 to date					
Rated by Flot	-					
Rated by Current Meter	1964 - 1974 , 1997 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +56.200 m. (MSL.), records are channel flow only					
General Description	Records good. Stage-discharge relation defined by 46 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.92	52.89	53.55	53.23	53.16	54.68	54.86	53.72	52.76	53.56	54.13	54.21	
2	52.81	53.04	53.47	53.33	53.19	54.64	55.30	53.65	52.81	53.62	54.20	54.23	
3	52.68	53.17	53.41	53.45	53.20	54.62	55.60	53.67	52.85	53.58	54.28	54.23	
4	52.63	53.18	53.38	53.54	53.94	54.54	55.96	53.70	52.86	53.64	54.17	54.28	
5	52.53	53.22	53.40	53.65	54.02	54.53	56.62	53.62	52.89	53.80	54.23	54.31	
6	52.53	53.23	53.38	53.63	54.27	54.58	56.96	53.48	52.91	53.89	54.22	54.26	
7	52.49	53.23	53.60	53.59	54.25	54.50	57.10	53.49	52.93	53.99	54.22	54.26	
8	52.54	53.31	53.87	53.53	54.20	54.35	57.16	53.46	52.95	54.09	54.32	54.25	
9	52.52	53.37	53.74	53.38	54.01	54.24	57.19	53.47	53.04	54.10	54.28	54.22	
10	52.54	53.25	53.58	53.02	54.01	54.38	57.18	53.45	53.16	54.04	54.30	54.26	
11	52.52	53.16	53.51	52.91	54.23	54.54	57.16	53.53	53.24	54.10	54.30	54.29	
12	52.59	53.07	53.37	52.87	54.10	55.23	57.07	53.53	53.10	54.13	54.33	54.27	
13	52.71	53.28	53.23	52.83	54.17	56.27	56.90	53.50	53.24	54.14	54.34	54.24	
14	52.86	53.49	53.07	53.11	54.33	56.92	56.21	53.40	53.50	54.13	54.26	54.22	
15	52.96	53.75	53.01	53.33	54.37	56.46	55.53	53.31	53.55	54.11	54.22	54.25	
16	52.98	54.04	52.97	53.39	54.30	56.10	55.39	53.15	53.55	54.05	54.22	54.21	
17	53.04	54.15	52.95	53.43	54.54	55.99	55.44	53.00	53.57	54.02	54.22	54.16	
18	52.73	54.01	52.94	53.36	54.72	55.85	55.79	53.01	53.65	54.08	54.23	54.17	
19	52.96	53.82	52.91	53.18	54.75	55.65	55.79	53.11	53.64	54.10	54.25	54.09	
20	52.88	53.66	52.91	53.30	54.79	55.59	55.81	53.22	53.58	54.09	54.22	53.61	
21	52.75	53.55	52.82	53.35	54.80	55.25	55.55	53.30	53.34	54.11	54.24	53.55	
22	52.75	53.49	52.83	53.39	54.73	55.01	55.19	53.25	53.38	54.09	54.28	53.61	
23	52.74	53.50	52.68	53.44	54.54	54.90	55.08	53.22	53.44	54.12	54.27	53.50	
24	52.81	53.52	52.56	53.51	54.47	54.81	54.99	53.15	53.23	54.17	54.26	53.55	
25	52.94	53.31	52.56	53.49	54.39	54.65	54.87	53.06	53.12	54.16	54.27	53.78	
26	52.88	53.16	52.53	53.50	54.38	54.72	54.77	52.99	53.08	54.24	54.31	53.95	
27	52.76	53.12	52.54	53.41	54.39	54.86	54.52	52.92	53.34	54.28	54.28	53.86	
28	52.71	53.21	52.68	53.42	54.37	54.84	54.16	52.83	53.73	54.27	54.24	53.75	
29	52.73	53.33	52.79	53.42	54.44	54.80	53.98	52.80	53.65	54.05	54.20	53.80	
30	52.72	53.48	53.03	53.35	54.53	54.81	53.85	52.89	53.67	54.09		53.77	
31		53.41		52.99	54.66		53.73		53.76	54.12		53.76	
Mean	52.74	53.40	53.11	53.33	54.27	55.08	55.67	53.30	53.27	54.03	54.25	54.03	
Max	53.04	54.15	53.87	53.65	54.80	56.92	57.19	53.72	53.76	54.28	54.34	54.31	57.19
Min	52.49	52.89	52.53	52.83	53.16	54.24	53.73	52.80	52.76	53.56	54.13	53.50	52.49
Annual Max Momentary Gage Height	57.19		m. (MSL.) ,		at 18.00 Hours , on Oct 8 , 2011								
Zero Gage at Bottom Elevation	51.56		m. (MSL.) ,		River Bed	51.21		m. (MSL)					
Left Bank Elevation	56.59		m. (MSL.) ,										
Right Bank Elevation	56.19		m. (MSL.) ,		Drainage Area	44461		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	275.80	265.60	551.60	392.00	364.00	1152.20	1268.00	608.40	221.80	551.60	821.10	866.70		
2	238.40	317.80	550.90	549.60	376.00	1126.60	1558.00	575.50	238.40	561.40	861.00	878.10		
3	195.80	368.00	550.30	550.70	380.00	1113.80	1765.00	584.90	252.00	551.80	906.60	878.10		
4	180.30	372.00	550.10	551.50	718.80	1064.40	2021.80	599.00	255.40	570.80	843.90	906.60		
5	149.30	388.00	550.20	575.50	760.80	1058.30	2536.20	561.40	265.60	646.00	878.10	924.10		
6	149.30	392.00	550.10	566.10	900.90	1088.80	2873.20	550.90	272.40	692.80	872.40	895.20		
7	137.10	392.00	552.00	551.90	889.50	1040.00	3050.00	551.00	279.20	744.80	872.40	895.20		
8	152.40	549.40	682.40	551.40	861.00	948.50	3129.80	550.80	286.00	798.60	930.20	889.50		
9	146.20	550.00	617.80	550.10	755.40	883.80	3169.70	550.90	317.80	804.00	906.60	872.40		
10	152.40	400.00	551.80	310.40	755.40	966.80	3156.40	550.70	364.00	771.60	918.00	895.20		
11	146.20	364.00	551.20	272.40	878.10	1064.40	3129.80	551.40	396.00	804.00	918.00	912.30		
12	167.90	328.90	550.00	258.80	804.00	1511.10	3011.00	551.40	340.00	821.10	936.30	900.90		
13	205.30	412.00	392.00	245.20	843.90	2252.50	2803.00	551.10	396.00	826.80	942.40	883.80		
14	255.40	551.00	328.90	344.00	936.30	2826.40	2207.50	550.20	551.10	821.10	895.20	872.40		
15	289.40	622.50	306.70	549.60	960.70	2398.00	1716.00	549.40	551.60	809.70	872.40	889.50		
16	296.20	771.60	292.80	550.10	918.00	2125.00	1618.30	360.00	551.60	777.00	872.40	866.70		
17	317.80	832.50	286.00	550.50	1064.40	2043.70	1653.00	303.00	551.70	760.80	872.40	838.20		
18	211.90	755.40	282.60	549.90	1177.80	1941.50	1898.00	306.70	575.50	793.20	878.10	843.90		
19	289.40	656.40	272.40	372.00	1197.00	1800.00	1898.00	344.00	570.80	804.00	889.50	798.60		
20	262.20	580.20	272.40	420.00	1222.60	1758.00	1912.30	388.00	551.80	798.60	872.40	556.70		
21	218.50	551.60	241.80	549.80	1229.00	1524.50	1730.00	420.00	549.70	809.70	883.80	551.60		
22	218.50	551.00	245.20	550.10	1184.20	1365.50	1484.30	400.00	550.10	798.60	906.60	556.70		
23	215.20	551.10	195.80	550.60	1064.40	1294.00	1411.00	388.00	550.60	815.40	900.90	551.10		
24	238.40	551.30	158.60	551.20	1021.70	1235.50	1352.50	360.00	392.00	843.90	895.20	551.60		
25	282.60	549.40	158.60	551.00	972.90	1133.00	1274.50	325.20	348.00	838.20	900.90	636.60		
26	262.20	364.00	149.30	551.10	966.80	1177.80	1209.80	299.60	332.60	883.80	924.10	724.00		
27	221.80	348.00	152.40	550.30	972.90	1268.00	1052.20	275.80	549.70	906.60	906.60	677.20		
28	205.30	384.00	195.80	550.40	960.70	1255.00	838.20	245.20	613.10	900.90	883.80	622.50		
29	211.90	549.60	231.70	550.40	1003.40	1229.00	739.60	235.00	575.50	777.00	861.00	646.00		
30	208.60	550.90	314.10	549.80	1058.30	1235.50	672.00	265.60	584.90	798.60		631.90		
31		550.30		299.60	1139.40		613.10		627.20	815.40		627.20		
Total	6501.70	15370.50	11285.50	15066.00	28338.30	42881.60	58752.20	13353.10	13462.10	23897.80	25822.30	24040.50	278771.60	CMSDAY
Mean	216.70	495.80	376.20	486.00	914.10	1429.40	1895.20	445.10	434.30	770.90	890.40	775.50	761.70	CMS
Max	317.80	832.50	682.40	575.50	1229.00	2826.40	3169.70	608.40	627.20	906.60	942.40	924.10	3169.70	CMS
Min	137.10	265.60	149.30	245.20	364.00	883.80	613.10	235.00	221.80	551.60	821.10	551.10	137.10	CMS
Runoff	561.75	1328.01	975.07	1301.70	2448.43	3704.97	5076.19	1153.71	1163.13	2064.77	2231.05	2077.10	24085.87	MCM
Momentary Peak	3169.70	CMS. at 57.19 m. (MSL.) at 18.00 Hours , on Oct 8 , 2011												
Runoff Yield	17.13	Liters/Second/Square KM.			Momentary Peak Yield			71.292	Liters/Second/Square KM.					

WATER YEAR : 2011

PING RIVER BASIN

Ping River at Ban San Tor , Kamphaeng Phet (P.16)

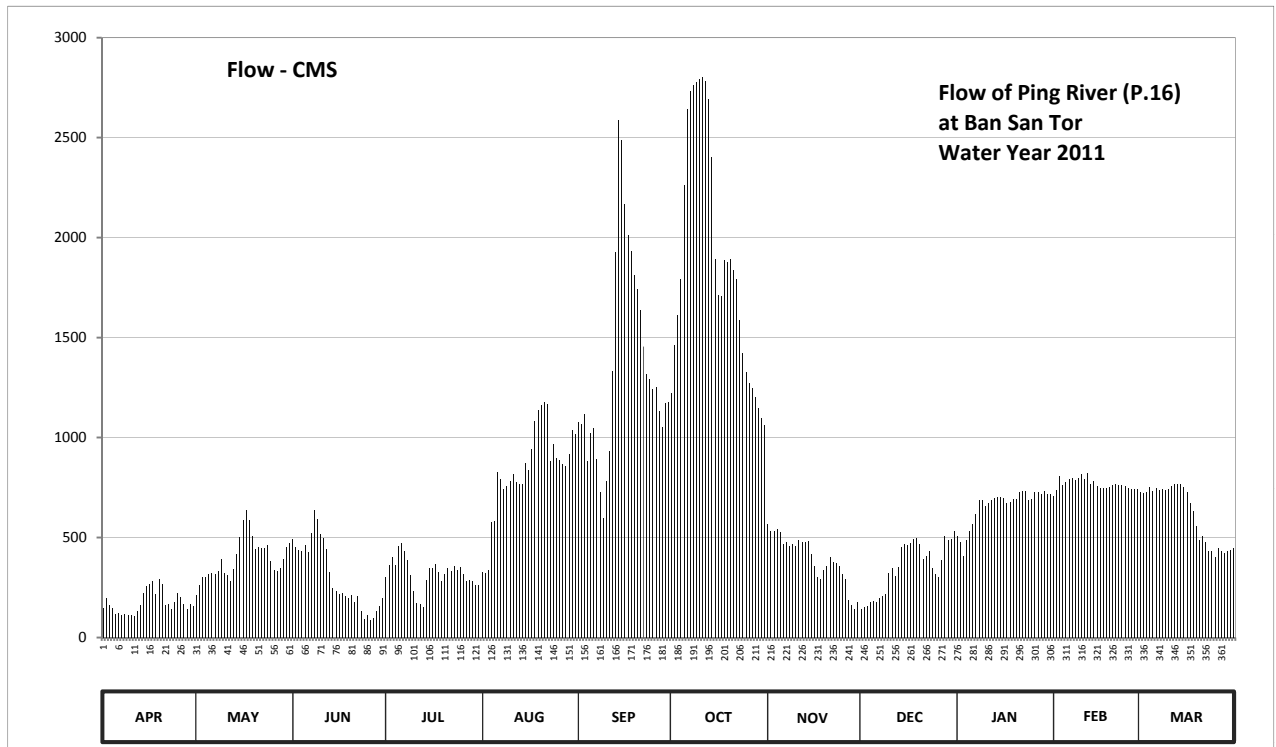
Lat 16 - 03 - 45 N Long 99 - 51 - 48 E

Location : on right bank behind the Post Office.

	Ban	San Tor	Amphoe	Khanu	Changwat	Kamphaeng Phet
Drainage Area	45,076	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+41.780	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the automatic gage building.				Elevation	+46.604 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1954 to date					
Rating Operation						
Period of Rating	1960 , 1967 - 1974 , 1990 to date					
Rated by Flot	-					
Rated by Current Meter	1960 , 1964 - 1975 , 1979 , 1990 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 46 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.11	41.31	42.12	41.58	41.66	43.39	43.68	42.30	41.10	42.16	42.62	42.66	
2	41.26	41.46	42.01	41.76	41.64	43.37	44.15	42.21	41.12	42.07	42.68	42.65	
3	41.16	41.59	41.97	41.87	41.68	43.47	44.43	42.21	41.14	41.89	42.83	42.66	
4	41.11	41.58	41.95	41.76	42.33	42.99	44.77	42.24	41.20	42.11	42.73	42.71	
5	41.01	41.63	42.03	42.02	42.34	43.28	45.60	42.20	41.22	42.22	42.77	42.67	
6	41.03	41.65	41.94	42.06	42.87	43.33	46.25	42.05	41.20	42.30	42.80	42.70	
7	41.00	41.63	42.19	41.95	42.80	43.01	46.40	42.07	41.26	42.42	42.81	42.68	
8	41.01	41.67	42.47	41.83	42.69	42.66	46.45	42.02	41.30	42.57	42.79	42.69	
9	41.00	41.84	42.36	41.61	42.72	42.37	46.48	42.05	41.33	42.57	42.81	42.68	
10	41.00	41.65	42.18	41.37	42.78	42.78	46.50	42.02	41.64	42.51	42.85	42.69	
11	40.98	41.61	42.13	41.19	42.85	43.09	46.52	42.11	41.72	42.54	42.80	42.72	
12	41.06	41.53	41.98	41.18	42.77	43.90	46.49	42.08	41.60	42.57	42.86	42.74	
13	41.16	41.70	41.66	41.12	42.75	45.01	46.34	42.07	41.73	42.60	42.75	42.75	
14	41.35	41.91	41.42	41.54	42.74	46.16	45.84	42.09	42.01	42.61	42.78	42.74	
15	41.45	42.14	41.38	41.71	42.97	45.99	44.95	41.91	42.05	42.61	42.72	42.71	
16	41.48	42.35	41.33	41.72	42.90	45.43	44.62	41.74	42.03	42.60	42.70	42.66	
17	41.52	42.47	41.34	41.77	43.11	45.16	44.61	41.59	42.06	42.54	42.70	42.54	
18	41.33	42.35	41.30	41.66	43.40	45.02	44.94	41.55	42.12	42.55	42.70	42.45	
19	41.55	42.15	41.27	41.53	43.51	44.80	44.92	41.69	42.13	42.59	42.71	42.28	
20	41.48	41.98	41.32	41.62	43.56	44.67	44.95	41.75	42.05	42.59	42.73	42.10	
21	41.16	42.01	41.21	41.71	43.59	44.48	44.85	41.87	41.85	42.66	42.74	42.15	
22	41.18	41.99	41.30	41.67	43.57	44.14	44.77	41.80	41.89	42.67	42.73	42.08	
23	41.09	41.99	41.06	41.74	42.99	43.87	44.39	41.78	41.96	42.67	42.73	41.96	
24	41.20	42.04	40.94	41.68	43.17	43.82	44.08	41.74	41.71	42.57	42.72	41.95	
25	41.34	41.82	41.00	41.73	43.02	43.72	43.89	41.62	41.63	42.59	42.70	41.88	
26	41.29	41.68	40.91	41.62	43.00	43.74	43.78	41.55	41.58	42.66	42.69	42.00	
27	41.18	41.67	40.95	41.52	42.96	43.50	43.73	41.23	41.83	42.66	42.69	41.96	
28	41.10	41.71	41.06	41.54	42.94	43.34	43.64	41.15	42.16	42.64	42.69	41.93	
29	41.17	41.85	41.14	41.52	43.06	43.58	43.53	41.09	42.11	42.67	42.75	41.96	
30	41.14	42.01	41.26	41.47	43.31	43.59	43.43	41.20	42.12	42.64		41.97	
31		42.06		41.46	43.27		43.36		42.22	42.64		41.99	
Mean	41.20	41.84	41.57	41.63	42.87	43.92	44.91	41.83	41.71	42.51	42.74	42.40	
Max	41.55	42.47	42.47	42.06	43.59	46.16	46.52	42.30	42.22	42.67	42.86	42.75	46.52
Min	40.98	41.31	40.91	41.12	41.64	42.37	43.36	41.09	41.10	41.89	42.62	41.88	40.91
Annual Max Momentary Gage Height	46.52		m. (MSL.) , at 06.00 Hours , on Oct 17 , 2011										
Zero Gage at Bottom Elevation	41.78		m. (MSL.) , River Bed 42.12 m. (MSL)										
Left Bank Elevation	47.81		m. (MSL.) ,										
Right Bank Elevation	50.39		m. (MSL.) , Drainage Area 45076 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	147.20	211.20	494.00	301.20	328.40	1075.10	1220.00	567.00	144.00	510.00	708.20	726.60	
2	195.20	260.40	452.70	363.00	321.60	1065.30	1460.50	530.10	150.40	474.90	735.80	722.00	
3	163.20	304.60	437.90	401.50	335.20	1115.00	1610.20	530.10	156.80	408.50	806.10	726.60	
4	147.20	301.20	430.50	363.00	579.30	882.20	1794.50	542.40	176.00	490.00	759.10	749.70	
5	115.20	318.20	460.10	456.40	583.40	1021.40	2264.00	526.00	182.40	534.20	777.90	731.20	
6	121.60	325.00	426.80	471.20	824.90	1045.70	2641.50	467.50	176.00	567.00	792.00	745.00	
7	112.00	318.20	522.00	430.50	792.00	891.80	2731.00	474.90	195.20	617.00	796.70	735.80	
8	115.20	331.80	639.50	387.50	740.40	726.60	2761.00	456.40	208.00	685.20	787.30	740.40	
9	112.00	391.00	591.60	311.40	754.40	595.70	2779.00	467.50	217.60	685.20	796.70	735.80	
10	112.00	325.00	518.00	230.40	782.60	782.60	2791.00	456.40	321.60	657.60	815.50	740.40	
11	106.20	311.40	498.00	172.80	815.50	930.20	2803.00	490.00	349.00	671.40	792.00	754.40	
12	131.20	284.20	441.60	169.60	777.90	1330.00	2785.00	478.60	308.00	685.20	820.20	763.80	
13	163.20	342.00	328.40	150.40	768.50	1926.60	2695.00	474.90	352.50	699.00	768.50	768.50	
14	224.00	415.70	246.80	287.60	763.80	2588.80	2403.20	482.30	452.70	703.60	782.60	763.80	
15	257.00	502.00	233.60	345.50	872.60	2490.20	1893.50	415.70	467.50	703.60	754.40	749.70	
16	267.20	587.50	217.60	349.00	839.00	2165.40	1712.80	356.00	460.10	699.00	745.00	726.60	
17	280.80	639.50	220.80	366.50	939.80	2010.60	1707.40	304.60	471.20	671.40	745.00	671.40	
18	217.60	587.50	208.00	328.40	1080.00	1932.20	1888.00	291.00	494.00	676.00	745.00	630.50	
19	291.00	506.00	198.40	284.20	1135.00	1811.00	1877.00	338.60	498.00	694.40	749.70	558.80	
20	267.20	441.60	214.40	314.80	1160.00	1739.80	1893.50	359.50	467.50	694.40	759.10	486.00	
21	163.20	452.70	179.20	345.50	1175.00	1637.20	1838.50	401.50	394.50	726.60	763.80	506.00	
22	169.60	445.30	208.00	331.80	1165.00	1455.20	1794.50	377.00	408.50	731.20	759.10	478.60	
23	140.80	445.30	131.20	356.00	882.20	1315.00	1588.60	370.00	434.20	731.20	759.10	434.20	
24	176.00	463.80	94.60	335.20	968.60	1290.00	1423.60	356.00	345.50	685.20	754.40	430.50	
25	220.80	384.00	112.00	352.50	896.60	1240.00	1325.00	314.80	318.20	694.40	745.00	405.00	
26	204.80	335.20	85.90	314.80	887.00	1250.00	1270.00	291.00	301.20	726.60	740.40	449.00	
27	169.60	331.80	97.50	280.80	867.80	1130.00	1245.00	185.60	387.50	726.60	740.40	434.20	

WATER YEAR : 2011**PING RIVER BASIN****Ping River at Ban Tha Ngiu, Nakhon Sawan (P.17)**

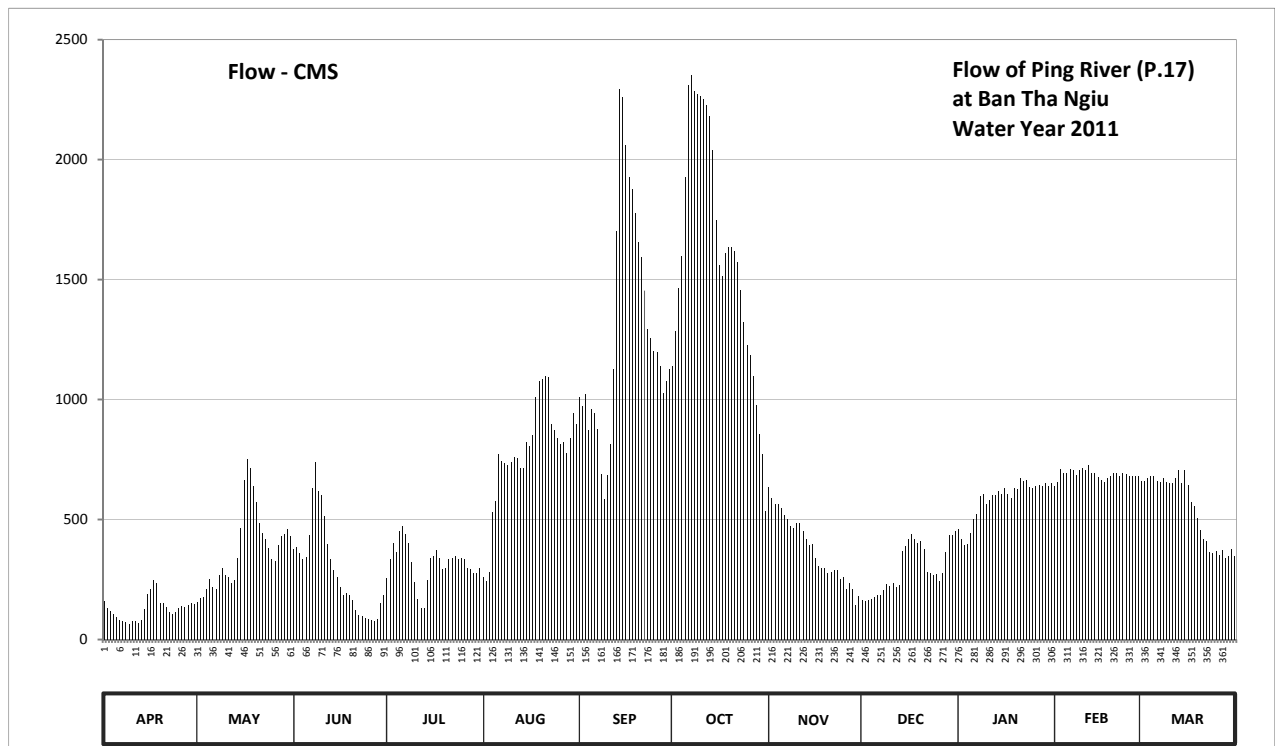
Lat 15 - 56 - 02 N Long 99 - 58 - 50 E

Location : on right bank at Som Sieo Market

	Ban	Tha Ngiu	Amphoe	Banphot Phisai	Changwat	Nakhon Sawan
Drainage Area	45,297	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 5.00 meters from the top staff gage				Elevation	+37.940 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1954 to date					
Rating Operation						
Period of Rating	1960, 1967 - 1974, 1990 to date					
Rated by Flot	-					
Rated by Current Meter	1954 - 1979, 1990 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +38.470 m.(MSL.), records are channel flow only.					
General Description	Records good. Flow effected by Phumiphol Dam. Stage-discharge relation defined by 38 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.67	34.66	35.28	34.95	34.96	36.58	36.81	35.86	34.68	35.48	35.87	35.91	
2	34.59	34.71	35.30	35.17	34.91	36.51	37.06	35.77	34.67	35.39	35.90	35.91	
3	34.55	34.72	35.24	35.34	35.02	36.60	37.36	35.71	34.68	35.32	36.01	35.93	
4	34.51	34.81	35.17	35.25	35.64	36.33	37.58	35.71	34.69	35.33	35.98	35.95	
5	34.46	34.93	35.20	35.46	35.74	36.49	38.09	35.67	34.72	35.44	35.98	35.95	
6	34.40	34.84	35.42	35.51	36.13	36.46	38.68	35.61	34.74	35.57	36.01	35.91	
7	34.39	34.82	35.85	35.43	36.08	36.34	38.74	35.57	34.74	35.62	36.00	35.90	
8	34.37	34.98	36.07	35.34	36.06	35.97	38.64	35.51	34.80	35.78	35.96	35.93	
9	34.34	35.07	35.83	35.14	36.04	35.76	38.62	35.49	34.87	35.80	36.00	35.90	
10	34.38	34.98	35.79	34.90	36.07	35.96	38.61	35.53	34.85	35.71	36.02	35.89	
11	34.39	34.96	35.60	34.69	36.11	36.22	38.59	35.53	34.88	35.75	36.00	35.89	
12	34.36	34.89	35.33	34.58	36.10	36.79	38.55	35.46	34.84	35.79	36.04	35.93	
13	34.41	34.92	35.17	34.59	36.02	37.74	38.48	35.38	34.86	35.79	35.98	36.00	
14	34.57	35.18	35.04	34.92	36.02	38.65	38.26	35.32	35.26	35.83	35.98	35.89	
15	34.76	35.49	34.96	35.19	36.23	38.60	37.81	35.33	35.31	35.80	35.94	36.00	
16	34.82	35.92	34.84	35.21	36.20	38.29	37.52	35.18	35.39	35.85	35.92	35.88	
17	34.92	36.09	34.75	35.27	36.29	38.09	37.44	35.09	35.43	35.80	35.90	35.73	
18	34.88	36.02	34.77	35.19	36.58	38.01	37.60	35.06	35.39	35.77	35.93	35.69	
19	34.65	35.87	34.75	35.05	36.70	37.86	37.64	35.06	35.34	35.85	35.95	35.58	
20	34.65	35.73	34.68	35.07	36.72	37.67	37.64	35.01	35.36	35.84	35.98	35.47	
21	34.60	35.53	34.56	35.17	36.74	37.57	37.61	35.02	35.28	35.93	35.98	35.39	
22	34.53	35.44	34.49	35.18	36.73	37.34	37.54	35.04	35.02	35.91	35.95	35.36	
23	34.51	35.39	34.47	35.21	36.38	37.07	37.34	35.04	35.01	35.92	35.98	35.25	
24	34.53	35.29	34.44	35.17	36.33	37.01	37.12	34.93	34.98	35.86	35.97	35.24	
25	34.59	35.17	34.43	35.19	36.27	36.92	36.96	34.96	34.99	35.85	35.95	35.26	
26	34.61	35.15	34.41	35.17	36.22	36.91	36.89	34.81	34.91	35.87	35.95	35.22	
27	34.60	35.32	34.38	35.06	36.23	36.81	36.74	34.88	35.00	35.88	35.95	35.27	
28	34.63	35.41	34.42	35.05	36.14	36.61	36.52	34.81	35.25	35.87	35.95	35.19	
29	34.65	35.43	34.65	35.00	36.27	36.70	36.30	34.63	35.42	35.89	35.95	35.21	
30	34.64	35.48	34.75	35.00	36.46	36.79	36.13	34.73	35.42	35.87		35.28	
31		35.41		35.06	36.38		35.65		35.46	35.89		35.21	
Mean	34.57	35.25	35.00	35.11	36.12	37.02	37.57	35.26	35.04	35.75	35.96	35.65	
Max	34.92	36.09	36.07	35.51	36.74	38.65	38.74	35.86	35.46	35.93	36.04	36.00	38.74
Min	34.34	34.66	34.38	34.58	34.91	35.76	35.65	34.63	34.67	35.32	35.87	35.19	34.34
Annual Max Momentary Gage Height	38.76		m. (MSL.) ,			at 06.00 Hours , on Oct 7 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	30.25	m. (MSL)					
Left Bank Elevation		38.81		m. (MSL.) ,									
Right Bank Elevation		38.47		m. (MSL.) ,		Drainage Area	45297	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.50	156.00	377.00	257.50	261.00	1009.00	1137.80	635.00	163.00	461.00	640.00	660.00	
2	132.00	173.50	385.00	334.50	243.50	970.50	1286.00	591.50	159.50	421.00	655.00	660.00	
3	120.00	177.00	361.00	401.00	282.00	1020.00	1466.00	564.50	163.00	393.00	710.00	670.00	
4	108.00	208.50	334.50	365.00	533.00	871.50	1598.00	564.50	166.50	397.00	695.00	680.00	
5	95.00	250.50	345.00	452.00	578.00	959.50	1928.50	546.50	177.00	443.00	695.00	680.00	
6	80.00	219.00	434.00	474.50	770.00	943.00	2312.00	519.50	184.00	501.50	710.00	660.00	
7	77.50	212.00	630.00	438.50	745.00	877.00	2351.00	501.50	184.00	524.00	705.00	655.00	
8	72.50	268.00	740.00	401.00	735.00	690.00	2286.00	474.50	205.00	596.00	685.00	670.00	
9	65.00	299.50	620.00	324.00	725.00	587.00	2273.00	465.50	229.50	605.00	705.00	655.00	
10	75.00	268.00	600.50	240.00	740.00	685.00	2266.50	483.50	222.50	564.50	715.00	650.00	
11	77.50	261.00	515.00	166.50	760.00	815.00	2253.50	483.50	233.00	582.50	705.00	650.00	
12	70.00	236.50	397.00	129.00	755.00	1126.30	2227.50	452.00	219.00	600.50	725.00	670.00	
13	82.50	247.00	334.50	132.00	715.00	1701.00	2182.00	417.00	226.00	600.50	695.00	705.00	
14	126.00	338.00	289.00	247.00	715.00	2292.50	2039.00	393.00	369.00	620.00	695.00	650.00	
15	191.00	465.50	261.00	341.50	820.00	2260.00	1746.50	397.00	389.00	605.00	675.00	705.00	
16	212.00	665.00	219.00	349.00	805.00	2058.50	1562.00	338.00	421.00	630.00	665.00	645.00	
17	247.00	750.00	187.50	373.00	850.00	1928.50	1514.00	306.50	438.50	605.00	655.00	573.50	
18	233.00	715.00	194.50	341.50	1009.00	1876.50	1610.00	296.00	421.00	591.50	670.00	555.50	
19	152.50	640.00	187.50	292.50	1075.00	1779.00	1636.00	296.00	401.00	630.00	680.00	506.00	
20	152.50	573.50	163.00	299.50	1086.40	1655.50	1636.00	278.50	409.00	625.00	695.00	456.50	
21	135.00	483.50	123.00	334.50	1097.80	1592.00	1616.50	282.00	377.00	670.00	695.00	421.00	
22	114.00	443.00	102.50	338.00	1092.10	1454.00	1574.00	289.00	282.00	660.00	680.00	409.00	
23	108.00	421.00	97.50	349.00	899.00	1292.00	1454.00	289.00	278.50	665.00	695.00	365.00	
24	114.00	381.00	90.00	334.50	871.50	1256.00	1322.00	250.50	268.00	635.00	690.00	361.00	
25	132.00	334.50	87.50	341.50	840.00	1202.00	1226.00	261.00	271.50	630.00	680.00	369.00	
26	138.50	327.50	82.50	334.50	815.00	1196.00	1184.20	208.50	243.50	640.00	680.00	353.00	
27	135.00	393.00	75.00	296.00	820.00	1137.80	1097.80	233.00	275.00	645.00	680.00	373.00	
28													

WATER YEAR : 2011

PING RIVER BASIN

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

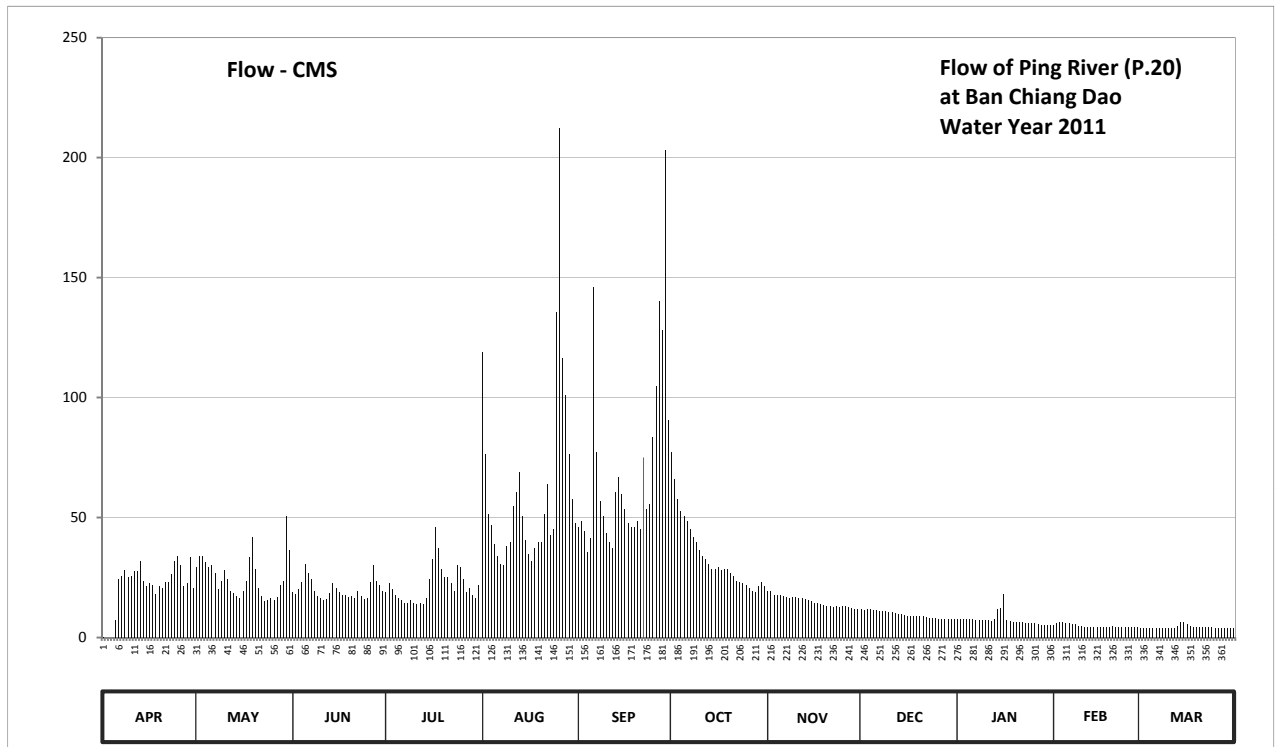
Lat 19 - 21 - 58 N Long 98 - 58 - 21 E

Location : on right bank near War Inthra Ram.

	Ban	Chiang Dao	Amphoe	Chiang Dao	Changwat	Chiang Mai
Drainage Area	1,345	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+379.900	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	About 2 meters from automatic gage building.				Elevation	+384.033 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1954 to date					
Rating Operation						
Period of Rating	1979 - 1982 , 1989 to date					
Rated by Flot	-					
Rated by Current Meter	1979 - 1982 , 1989 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by the local weir about 300 meters downstream from the gage site.					
	Stage-discharge relation defined by 37 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	380.02	380.55	380.38	380.38	381.40	380.77	381.07	380.39	380.22	380.11	380.03	379.98	
2	380.00	380.62	380.36	380.44	381.06	380.80	380.97	380.39	380.21	380.11	380.05	379.98	
3	380.00	380.62	380.40	380.40	380.83	380.75	380.89	380.35	380.22	380.11	380.06	379.98	
4	379.99	380.58	380.45	380.35	380.78	380.64	380.84	380.35	380.22	380.11	380.06	379.97	
5	380.10	380.55	380.57	380.32	380.68	380.71	380.82	380.35	380.21	380.11	380.05	379.97	
6	380.47	380.56	380.51	380.30	380.62	381.58	380.80	380.34	380.21	380.11	380.05	379.97	
7	380.49	380.51	380.47	380.28	380.57	381.07	380.76	380.33	380.20	380.10	380.04	379.98	
8	380.53	380.40	380.39	380.28	380.56	380.88	380.72	380.32	380.20	380.10	380.04	379.98	
9	380.48	380.46	380.34	380.30	380.67	380.82	380.69	380.33	380.20	380.10	380.01	379.98	
10	380.49	380.53	380.32	380.28	380.69	380.74	380.65	380.33	380.19	380.10	380.01	379.98	
11	380.52	380.47	380.30	380.27	380.86	380.69	380.62	380.32	380.19	380.09	380.00	379.98	
12	380.52	380.39	380.31	380.28	380.92	380.66	380.60	380.32	380.18	380.08	380.00	379.98	
13	380.59	380.37	380.37	380.27	381.00	380.92	380.57	380.31	380.17	380.11	380.00	380.01	
14	380.46	380.34	380.44	380.32	380.82	380.98	380.54	380.30	380.17	380.22	380.00	380.07	
15	380.42	380.32	380.41	380.47	380.70	380.91	380.54	380.29	380.16	380.23	380.00	380.06	
16	380.44	380.39	380.38	380.60	380.63	380.85	380.55	380.28	380.15	380.36	380.00	380.04	
17	380.43	380.46	380.35	380.77	380.59	380.79	380.53	380.28	380.14	380.10	380.00	380.01	
18	380.36	380.61	380.35	380.66	380.66	380.77	380.54	380.27	380.15	380.08	380.00	380.00	
19	380.42	380.72	380.33	380.54	380.69	380.77	380.54	380.26	380.15	380.06	380.00	380.00	
20	380.41	380.54	380.34	380.48	380.69	380.80	380.51	380.25	380.14	380.06	380.01	379.99	
21	380.45	380.41	380.32	380.48	380.83	380.76	380.49	380.25	380.14	380.06	380.00	379.99	
22	380.45	380.34	380.39	380.44	380.95	381.05	380.46	380.24	380.13	380.06	380.00	380.00	
23	380.50	380.29	380.34	380.39	380.73	380.85	380.45	380.25	380.12	380.05	380.00	380.00	
24	380.59	380.30	380.31	380.56	380.76	380.87	380.44	380.24	380.12	380.05	380.00	379.99	
25	380.62	380.32	380.32	380.55	381.51	381.12	380.43	380.25	380.12	380.05	380.00	379.98	
26	380.56	380.30	380.45	380.47	381.95	381.29	380.41	380.25	380.11	380.05	379.99	379.98	
27	380.42	380.33	380.56	380.38	381.38	381.54	380.39	380.24	380.11	380.04	379.99	379.98	
28	380.44	380.43	380.46	380.41	381.26	381.46	380.38	380.23	380.11	380.03	380.00	379.97	
29	380.61	380.46	380.43	380.35	381.06	381.90	380.42	380.22	380.11	380.02	379.99	379.97	
30	380.41	380.82	380.39	380.32	380.89	381.18	380.45	380.22	380.11	380.02		379.97	
31		380.65		380.43	380.79		380.42		380.11	380.02		379.97	
Mean	380.41	380.47	380.39	380.41	380.89	380.96	380.60	380.29	380.16	380.09	380.01	379.99	
Max	380.62	380.82	380.57	380.77	381.95	381.90	381.07	380.39	380.22	380.36	380.06	380.07	381.95
Min	379.99	380.29	380.30	380.27	380.56	380.64	380.38	380.22	380.11	380.02	379.99	379.97	379.97
Annual Max Momentary Gage Height			382.40	m. (MSL.) ,		at 02.00 Hours , on Aug 26 , 2011							
Zero Gage at Bottom Elevation			379.90	m. (MSL.) ,		River Bed	378.87	m. (MSL)					
Left Bank Elevation			385.62	m. (MSL.) ,									
Right Bank Elevation			386.72	m. (MSL.) ,		Drainage Area	1345	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	29.37	19.09	19.09	119.00	46.10	77.40	19.55	11.81	7.75	5.37	4.10	
2	0.00	34.10	18.18	22.50	76.20	48.50	65.93	19.55	11.35	7.75	5.95	4.10	
3	0.00	34.10	20.00	20.00	51.57	44.50	57.73	17.73	11.81	7.75	6.24	4.10	
4	0.00	31.25	23.13	17.73	46.90	35.70	52.60	17.73	11.81	7.75	6.24	3.90	
5	7.40	29.37	30.63	16.36	38.90	41.30	50.55	17.73	11.35	7.75	5.95	3.90	
6	24.38	30.00	26.88	15.45	34.10	146.00	48.50	17.27	11.35	7.75	5.95	3.90	
7	25.62	26.88	24.38	14.54	30.63	77.40	45.30	16.81	10.90	7.40	5.66	4.10	
8	28.12	20.00	19.55	14.54	30.00	56.70	42.10	16.36	10.90	7.40	5.66	4.10	
9	25.00	23.75	17.27	15.45	38.10	50.55	39.70	16.81	10.90	7.40	4.79	4.10	
10	25.62	28.12	16.36	14.54	39.70	43.70	36.50	16.81	10.55	7.40	4.79	4.10	
11	27.50	24.38	15.45	14.08	54.65	39.70	34.10	16.36	10.55	7.11	4.50	4.10	
12	27.50	19.55	15.90	14.54	60.80	37.30	32.50	16.36	10.20	6.82	4.50	4.10	
13	31.87	18.63	18.63	14.08	69.00	60.80	30.63	15.90	9.85	7.75	4.50	4.79	
14	23.75	17.27	22.50	16.36	50.55	66.95	28.75	15.45	9.85	11.81	4.50	6.53	
15	21.25	16.36	20.63	24.38	40.50	59.78	28.75	15.00	9.50	12.27	4.50	6.24	
16	22.50	19.55	19.09	32.50	34.90	53.63	29.37	14.54	9.15	18.18	4.50	5.66	
17	21.87	23.75	17.73	46.10	31.87	47.70	28.12	14.54	8.80	7.40	4.50	4.79	
18	18.18	33.30	17.73	37.30	37.30	46.10	28.75	14.08	9.15	6.82	4.50	4.50	
19	21.25	42.10	16.81	28.75	39.70	46.10	28.75	13.63	9.15	6.24	4.50	4.50	
20	20.63	28.75	17.27	25.00	39.70	48.50	26.88	13.17	8.80	6.24	4.79	4.30	
21	23.13	20.63	16.36	25.00	51.57	45.30	25.62	13.17	8.80	6.24	4.50	4.30	
22	23.13	17.27	19.55	22.50	63.88	75.00	23.75	12.72	8.45	6.24	4.50	4.50	
23	26.25	15.00	17.27	19.55	42.90	53.63	23.13	13.17	8.10	5.95	4.50	4.50	
24	31.87	15.45	15.90	30.00	45.30	55.68	22.50	12.72	8.10	5.95	4.50	4.30	
25	34.10	16.36	16.36	29.37	135.50	83.40	21.87	13.17	8.10	5.95	4.50	4.10	
26	30.00	15.45	23.13	24.38	212.50	104.70	20.63	13.17	7.75	5.95	4.30	4.10	
27	21.25	16.81	30.00	19.09	116.40	140.00	19.55	12.72	7.75	5.66	4.30	4.10	
28	22.50	21.87	23.75	20.63	100.80	128.00	19.09	12.27	7.75	5.37	4.50	3.90	
29	33.30	23.75	21.87	17.73	76.20	203.00	21.25	11.81	7.75	5.08	4.30	3.90	
30	20.63	50.55	19.55	16.36	57.73	90.60	23.13	11.81	7.75	5.08		3.90	
31		36.50											

WATER YEAR : 2011

PING RIVER BASIN

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

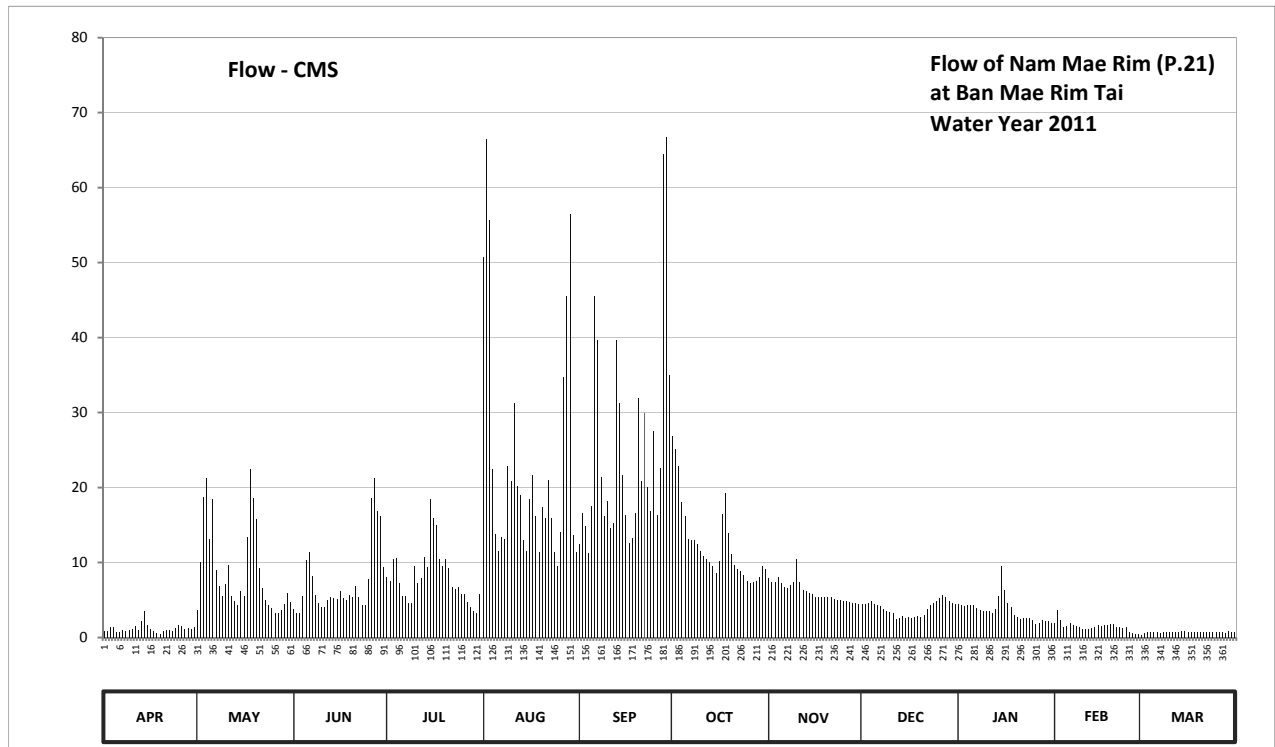
Lat 18 - 55 - 45 N Long 98 - 56 - 40 E

Location : on left bank about 100 meters downstream from the bridge of Chiang Mai - Fang Highway.

	Ban	Mae Rim Tai	Amphoe	Mae Rim	Changwat	Chiang Mai
Drainage Area	452	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+319.700	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	In the vicinity of gage observer's house.				Elevation	+325.270 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1954 to date					
Rating Operation						
Period of Rating	1954 - 1960 , 1977 to date					
Rated by Flot	-					
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 37 discharge measurements made in 1911.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	320.42	320.73	320.74	321.07	323.11	321.36	322.13	321.06	320.80	320.80	320.57	320.16	
2	320.42	321.20	320.70	321.04	323.68	321.61	322.05	321.03	320.80	320.78	320.73	320.37	
3	320.49	321.73	320.70	321.23	323.29	321.50	321.94	321.03	320.81	320.77	320.61	320.43	
4	320.50	321.86	320.89	321.24	321.92	321.28	321.69	321.07	320.83	320.79	320.50	320.44	
5	320.40	321.40	321.22	321.02	321.44	321.66	321.58	321.02	320.80	320.78	320.52	320.45	
6	320.40	321.71	321.29	320.89	321.30	322.91	321.40	320.98	320.78	320.78	320.56	320.43	
7	320.44	321.13	321.08	320.89	321.42	322.68	321.39	320.97	320.77	320.75	320.53	320.38	
8	320.43	320.99	320.90	320.81	321.40	321.87	321.39	321.00	320.74	320.73	320.52	320.43	
9	320.44	320.89	320.81	320.81	321.94	321.58	321.36	321.03	320.72	320.72	320.50	320.43	
10	320.46	321.01	320.76	321.17	321.84	321.70	321.30	321.23	320.71	320.72	320.47	320.43	
11	320.51	321.18	320.76	321.02	322.33	321.49	321.26	321.03	320.70	320.72	320.47	320.44	
12	320.44	320.89	320.84	321.06	321.81	321.53	321.23	320.95	320.62	320.70	320.46	320.49	
13	320.60	320.83	320.87	321.25	321.74	322.68	321.20	320.94	320.64	320.74	320.48	320.49	
14	320.72	320.78	320.86	321.16	321.39	322.33	321.17	320.92	320.66	320.89	320.49	320.51	
15	320.53	320.94	320.85	321.71	321.30	321.88	321.11	320.91	320.63	321.17	320.53	320.58	
16	320.46	320.89	320.94	321.57	321.71	321.59	321.21	320.88	320.65	320.95	320.52	320.46	
17	320.42	321.42	320.86	321.51	321.88	321.37	321.60	320.88	320.64	320.81	320.53	320.45	
18	320.39	321.92	320.84	321.23	321.58	321.41	321.76	320.88	320.65	320.76	320.54	320.47	
19	320.37	321.72	320.90	321.17	321.29	321.61	321.45	320.88	320.66	320.67	320.55	320.46	
20	320.42	321.56	320.88	321.23	321.65	322.36	321.27	320.87	320.65	320.65	320.55	320.47	
21	320.44	321.15	320.99	321.15	321.57	321.84	321.18	320.87	320.67	320.62	320.50	320.45	
22	320.44	320.97	320.88	320.98	321.85	322.27	321.14	320.85	320.74	320.63	320.49	320.45	
23	320.43	320.84	320.78	320.96	321.57	321.80	321.12	320.84	320.78	320.64	320.48	320.45	
24	320.48	320.78	320.78	320.98	321.29	321.62	321.09	320.84	320.81	320.64	320.49	320.45	
25	320.54	320.75	321.05	320.91	321.17	322.16	321.04	320.83	320.83	320.61	320.46	320.43	
26	320.51	320.70	321.72	320.91	321.46	321.59	321.02	320.83	320.86	320.55	320.31	320.41	
27	320.46	320.69	321.86	320.82	322.48	321.93	321.03	320.82	320.90	320.57	320.23	320.41	
28	320.48	320.73	321.62	320									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.84	3.66	3.78	8.05	50.77	12.48	26.86	7.90	4.50	4.50	1.96	0.36		
2	0.84	10.00	3.30	7.60	66.52	16.67	25.10	7.45	4.50	4.26	3.66	0.61		
3	1.33	18.78	3.30	10.47	55.67	14.80	22.80	7.45	4.62	4.14	2.31	0.69		
4	1.40	21.20	5.58	10.62	22.40	11.24	18.08	8.05	4.86	4.38	1.40	0.71		
5	0.70	13.10	10.31	7.30	13.78	17.55	16.16	7.30	4.50	4.26	1.56	0.73		
6	0.70	18.42	11.40	5.58	11.55	45.51	13.10	6.74	4.26	4.26	1.88	0.69		
7	0.98	8.95	8.20	5.58	13.44	39.64	12.95	6.61	4.14	3.90	1.64	0.62		
8	0.91	6.87	5.70	4.62	13.10	21.40	12.95	7.00	3.78	3.66	1.56	0.69		
9	0.98	5.58	4.62	4.62	22.80	16.16	12.48	7.45	3.54	3.54	1.40	0.69		
10	1.12	7.15	4.02	9.55	20.80	18.25	11.55	10.47	3.42	3.54	1.19	0.69		
11	1.48	9.70	4.02	7.30	31.26	14.63	10.93	7.45	3.30	3.54	1.19	0.71		
12	0.98	5.58	4.98	7.90	20.20	15.31	10.47	6.35	2.42	3.30	1.12	0.78		
13	2.20	4.86	5.34	10.77	18.95	39.64	10.00	6.22	2.64	3.78	1.26	0.78		
14	3.54	4.26	5.22	9.40	12.95	31.26	9.55	5.96	2.86	5.58	1.33	0.82		
15	1.64	6.22	5.10	18.42	11.55	21.60	8.65	5.83	2.53	9.55	1.64	0.92		
16	1.12	5.58	6.22	15.99	18.42	16.33	10.15	5.46	2.75	6.35	1.56	0.74		
17	0.84	13.44	5.22	14.97	21.60	12.63	16.50	5.46	2.64	4.62	1.64	0.73		
18	0.63	22.40	4.98	10.47	16.16	13.27	19.30	5.46	2.75	4.02	1.72	0.76		
19	0.49	18.60	5.70	9.55	11.40	16.67	13.95	5.46	2.86	2.97	1.80	0.74		
20	0.84	15.82	5.46	10.47	17.37	31.92	11.08	5.34	2.75	2.75	1.80	0.76		
21	0.98	9.25	6.87	9.25	15.99	20.80	9.70	5.34	2.97	2.42	1.40	0.73		
22	0.98	6.61	5.46	6.74	21.00	29.94	9.10	5.10	3.78	2.53	1.33	0.73		
23	0.91	4.98	4.26	6.48	15.99	20.00	8.80	4.98	4.26	2.64	1.26	0.73		
24	1.26	4.26	4.26	6.74	11.40	16.85	8.35	4.98	4.62	2.64	1.33	0.73		
25	1.72	3.90	7.75	5.83	9.55	27.52	7.60	4.86	4.86	2.31	0.74	0.69		
26	1.48	3.30	18.60	5.83	14.12	16.33	7.30	4.86	5.22	1.80	0.52	0.67		
27	1.12	3.19	21.20	4.74	34.72	22.60	7.45	4.74	5.70	1.96	0.43	0.67		
28	1.26	3.66	16.85	4.02	45.51	64.49	7.60	4.62	5.34	2.31	0.39	0.65		
29	1.19	4.50	16.16	3.54	56.50	66.81	8.05	4.62	4.86	2.20	0.40	0.86		
30	1.40	5.96	9.40	3.30	13.61	34.96	9.55	4.50	4.62	2.12		0.77		
31		4.74		5.83	11.40		9.10		4.50	1.96		0.76		
Total	35.86	274.52	223.26	251.53	720.48	747.26	385.21	184.01	120.35	111.79	41.42	22.21	3117.90	CMSDAY
Mean	1.20	8.86	7.44	8.11	23.24	24.91	12.43	6.13	3.88	3.61	1.43	0.72	8.52	CMS
Max	3.54	22.40	21.20	18.42	66.52	66.81	26.86	10.47	5.70	9.55	3.66	0.92	66.81	CMS
Min	0.49	3.19	3.30	3.30	9.55	11.24	7.30	4.50	2.42	1.80	0.39	0.36	0.36	CMS
Runoff	3.10	23.72	19.29	21.73	62.25	64.56	33.28	15.90	10.40	9.66	3.58	1.92	269.39	MCM
Momentary Peak	86.80	CMS. at 324.36 m. (MSL.) at 24.00 Hours , on Sep 28 , 2011												
Runoff Yield	18.85	Liters/Second/Square KM.			Momentary Peak Yield			192.035	Liters/Second/Square KM.					

WATER YEAR : 2011

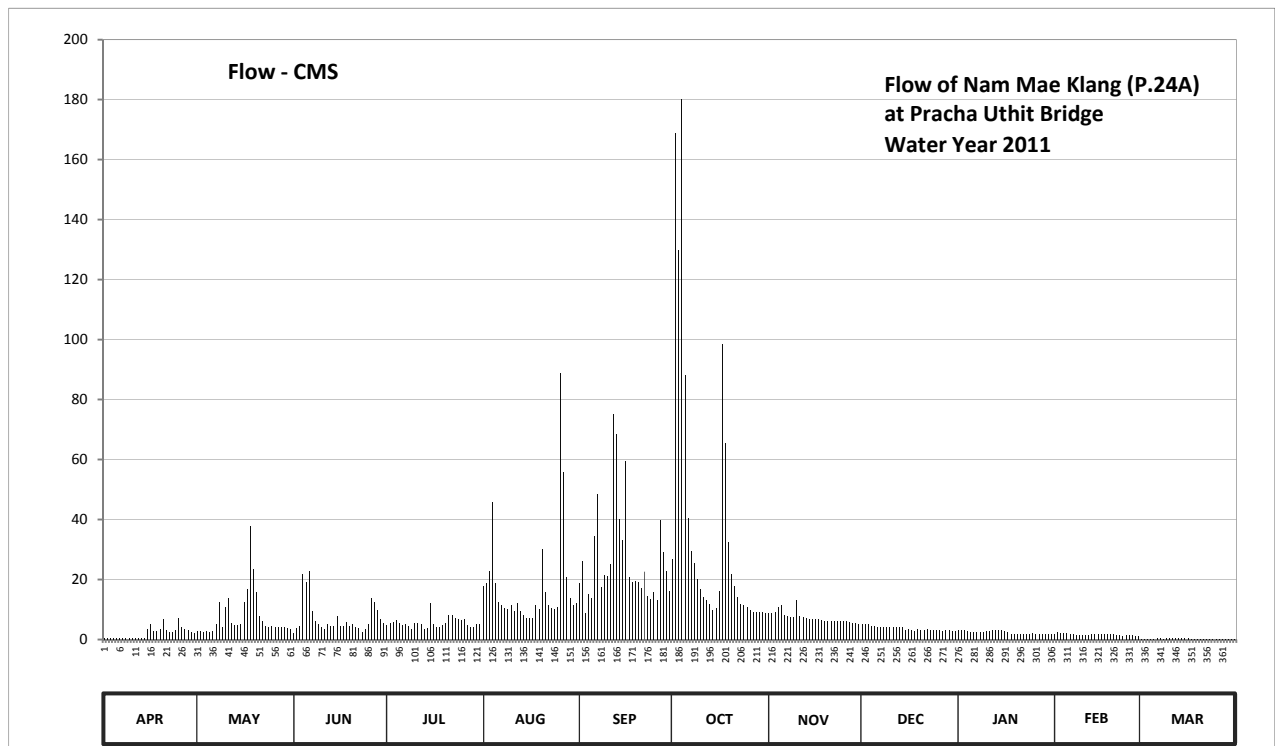
PING RIVER BASIN

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

Lat 18 - 25 - 02 N Long 98 - 40 - 29 E

Location : on left bank at Pracha Uthit Bridge.

	Ban	Pracha Uthit Bridge		Amphoe	Chom Thong		Changwat	Chiang Mai					
Drainage Area	452	sq.km.											
Type of Gage	Staff gage												
Zero Gage at Bottom	+275.000	m. (MSL.)											
Bench Mark	B.M.-H.D.												
Location BM	near the gage observer's house.						Elevation	+277.954 m. (MSL.)					
Gage Reading Frequency	3-time daily reading at 06.00, 12.00 and 18.00 hours.												
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings												
Period of Available Gage Records	1973 to date												
Rating Operation													
Period of Rating	1973 to date												
Rated by Flot	-												
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 36 discharge measurements made in 2011.												
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	275.65	275.68	275.62	275.91	276.52	276.56	276.81	276.17	275.93	275.72	275.57	275.44	
2	275.66	275.69	275.80	275.96	276.56	276.79	279.06	276.16	275.93	275.72	275.65	275.45	
3	275.66	275.63	275.88	275.98	276.69	276.16	278.60	276.18	275.92	275.72	275.62	275.47	
4	275.66	275.69	276.66	276.04	277.28	276.43	279.19	276.26	275.88	275.70	275.60	275.47	
5	275.66	275.66	276.57	275.96	276.56	276.38	278.04	276.28	275.86	275.66	275.59	275.49	
6	275.67	275.70	276.69	275.91	276.33	277.01	277.16	276.13	275.85	275.66	275.56	275.54	
7	275.67	275.93	276.19	275.92	276.28	277.33	276.88	276.11	275.84	275.64	275.54	275.54	
8	275.68	276.33	276.01	275.86	276.24	276.51	276.77	276.10	275.83	275.64	275.52	275.53	
9	275.68	275.84	275.92	275.75	276.23	276.65	276.61	276.10	275.83	275.66	275.50	275.54	
10	275.69	276.25	275.85	275.96	276.28	276.64	276.49	276.35	275.83	275.70	275.51	275.56	
11	275.71	276.39	275.78	275.97	276.19	276.76	276.40	276.12	275.83	275.68	275.51	275.54	
12	275.74	275.95	275.92	275.92	276.32	277.83	276.35	276.10	275.82	275.73	275.51	275.57	
13	275.72	275.91	275.86	275.76	276.19	277.71	276.30	276.07	275.83	275.72	275.55	275.57	
14	275.70	275.89	275.87	275.80	276.14	277.15	276.21	276.06	275.82	275.73	275.55	275.57	
15	275.76	275.94	276.11	276.32	276.08	276.98	276.24	276.06	275.73	275.72	275.55	275.55	
16	275.94	276.33	275.86	275.94	276.08	277.55	276.47	276.05	275.77	275.67	275.55	275.54	
17	275.70	276.49	275.86	275.84	276.08	276.63	278.19	276.05	275.72	275.64	275.55	275.50	
18	275.67	277.09	275.98	275.84	276.29	276.57	277.66	276.03	275.70	275.58	275.56	275.50	
19	275.78	276.71	275.88	275.90	276.23	276.58	276.96	276.00	275.76	275.58	275.57	275.50	
20	276.06	276.46	275.92	275.97	276.90	276.57	276.66	276.00	275.74	275.57	275.54	275.50	
21	275.74	276.11	275.85	276.13	276.46	276.50	276.52	276.00	275.74	275.56	275.49	275.50	
22	275.65	276.01	275.79	276.13	276.29	276.68	276.40	276.00	275.78	275.56	275.49	275.50	
23	275.66	275.87	275.66	276.08	276.24	276.41	276.30	276.00	275.74	275.54	275.48	275.50	
24	275.74	275.82	275.76	276.05	276.23	276.37	276.28	276.00	275.74	275.55	275.49	275.49	
25	276.07	275.86	275.92	276.03	276.25	276.46	276.25	276.00	275.73	275.59	275.49	275.49	
26	275.85	275.85	276.38	276.06	278.05	276.36	276.21	276.01	275.73	275.58	275.49	275.49	
27	275.76	275.84	276.33	275.90	277.48	277.14	276.18	275.99	275.71	275.58	275.46	275.50	
28	275.73	275.84	276.22	275.83	276.63	276.87	276.18	275.96	275.72	275.57	275.44	275.51	
29	275.65	275.84	276.06	275.82	276.39	276.69	276.18	275.95	275.72	275.54	275.44	275.51	
30	275.60	275.81	275.96	275.92	276.28	276.47	276.18	275.93	275.71	275.54		275.53	
31		275.77		275.92	276.31		276.17		275.71	275.57		275.52	
Mean	275.73	276.01	276.01	275.95	276.45	276.76	276.84	276.07	275.79	275.63	275.53	275.51	
Max	276.07	277.09	276.69	276.32	278.05	277.83	279.19	276.35	275.93	275.73	275.65	275.57	279.19
Min	275.60	275.63	275.62	275.75	276.08	276.16	276.17	275.93	275.70	275.54	275.44	275.44	275.44
Annual Max Momentary Gage Height	279.82		m. (MSL.) ,		at 05.00 Hours , on Oct 3 , 2011								
Zero Gage at Bottom Elevation	275.00		m. (MSL.) ,		River Bed	274.55		m. (MSL)					
Left Bank Elevation		280.19		m. (MSL.) ,									
Right Bank Elevation		280.08		m. (MSL.) ,	Drainage Area	452	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.47	2.74	2.26	4.92	17.68	18.84	26.88	8.90	5.16	3.08	1.89	0.24		
2	0.49	2.82	3.80	5.52	18.84	26.18	168.75	8.70	5.16	3.08	2.50	0.25		
3	0.49	2.34	4.60	5.76	22.93	8.70	129.80	9.10	5.04	3.08	2.26	0.27		
4	0.49	2.82	21.95	6.60	46.00	15.07	180.12	10.91	4.60	2.90	2.10	0.27		
5	0.49	2.58	19.13	5.52	18.84	13.73	88.24	11.38	4.40	2.58	2.03	0.29		
6	0.51	2.90	22.93	4.92	12.55	34.41	40.56	8.10	4.30	2.58	1.82	0.34		
7	0.51	5.16	9.30	5.04	11.38	48.37	29.50	7.70	4.20	2.42	1.68	0.34		
8	0.52	12.55	6.15	4.40	10.44	17.39	25.52	7.50	4.10	2.42	1.54	0.33		
9	0.52	4.20	5.04	3.35	10.21	21.62	20.32	7.50	4.10	2.58	1.40	0.34		
10	0.54	10.67	4.30	5.52	11.38	21.30	16.81	13.03	4.10	2.90	1.47	0.36		
11	0.56	13.97	3.62	5.64	9.30	25.20	14.20	7.90	4.10	2.74	1.47	0.34		
12	0.61	5.40	5.04	5.04	12.32	75.21	13.03	7.50	4.00	3.17	1.47	0.37		
13	0.58	4.92	4.40	3.44	9.30	68.27	11.85	7.05	4.10	3.08	1.75	0.37		
14	0.55	4.70	4.50	3.80	8.30	40.15	9.73	6.90	4.00	3.17	1.75	0.37		
15	3.44	5.28	7.70	12.32	7.20	33.25	10.44	6.90	3.17	3.08	1.75	0.35		
16	5.28	12.55	4.40	5.28	7.20	59.42	16.23	6.75	3.53	2.66	1.75	0.34		
17	2.90	16.81	4.40	4.20	7.20	20.98	98.51	6.75	3.08	2.42	1.75	0.30		
18	2.66	37.69	5.76	4.20	11.62	19.13	65.42	6.45	2.90	1.96	1.82	0.30		
19	3.62	23.57	4.60	4.80	10.21	19.42	32.50	6.00	3.44	1.96	1.89	0.30		
20	6.90	15.94	5.04	5.64	30.25	19.13	21.95	6.00	3.26	1.89	1.68	0.30		
21	3.26	7.70	4.30	8.10	15.94	17.10	17.68	6.00	3.26	1.82	1.34	0.30		
22	2.50	6.15	3.71	8.10	11.62	22.60	14.20	6.00	3.62	1.82	1.34	0.30		
23	2.58	4.50	2.58	7.20	10.44	14.49	11.85	6.00	3.26	1.68	1.28	0.30		
24	3.26	4.00	3.44	6.75	10.21	13.49	11.38	6.00	3.26	1.75	1.34	0.29		
25	7.05	4.40	5.04	6.45	10.67	15.94	10.67	6.00	3.17	2.03	1.34	0.29		
26	4.30	4.30	13.73	6.90	88.92	13.26	9.73	6.15	3.17	1.96	1.34	0.29		
27	3.44	4.20	12.55	4.80	55.82	39.74	9.10	5.88	2.99	1.96	1.16	0.30		
28	3.17	4.20	9.97	4.10	20.98	29.13	9.10	5.52	3.08	1.89	1.04	0.31		
29	2.50	4.20	6.90	4.00	13.97	22.93	9.10	5.40	3.08	1.68	1.04	0.31		
30	2.10	3.90	5.52	5.04	11.38	16.23	9.10	5.16	2.99	1.68		0.33		
31		3.53		5.04	12.08		8.90		2.99	1.89		0.32		
Total	66.29	240.69	216.66	172.39	555.18	810.68	1141.17	219.13	115.61	73.91	46.99	9.71	3668.41	CMSDAY
Mean	2.21	7.76	7.22	5.56	17.91	27.02	36.81	7.30	3.73	2.38	1.62	0.31	10.02	CMS
Max	7.05	37.69	22.93	12.32	88.92	75.21	180.12	13.03	5.16	3.17	2.50	0.37	180.12	CMS
Min	0.47	2.34	2.26	3.35	7.20	8.70	8.90	5.16	2.90	1.68	1.04	0.24	0.24	CMS
Runoff	5.73	20.80	18.72	14.89	47.97	70.04	98.60	18.93	9.99	6.39	4.06	0.84	316.95	MCM
Momentary Peak	CMS. at 239.00 Liters/Second/Square KM. at 279.82 m. (MSL.) at 05.00 Hours , on Oct 3 , 2011													
Runoff Yield	22.17				Momentary Peak Yield			528.761	Liters/Second/Square KM.					

WATER YEAR : 2011**PING RIVER BASIN****Khlong Suan Mak at Ban Mai , Kamphaeng Phet (P.26A)**

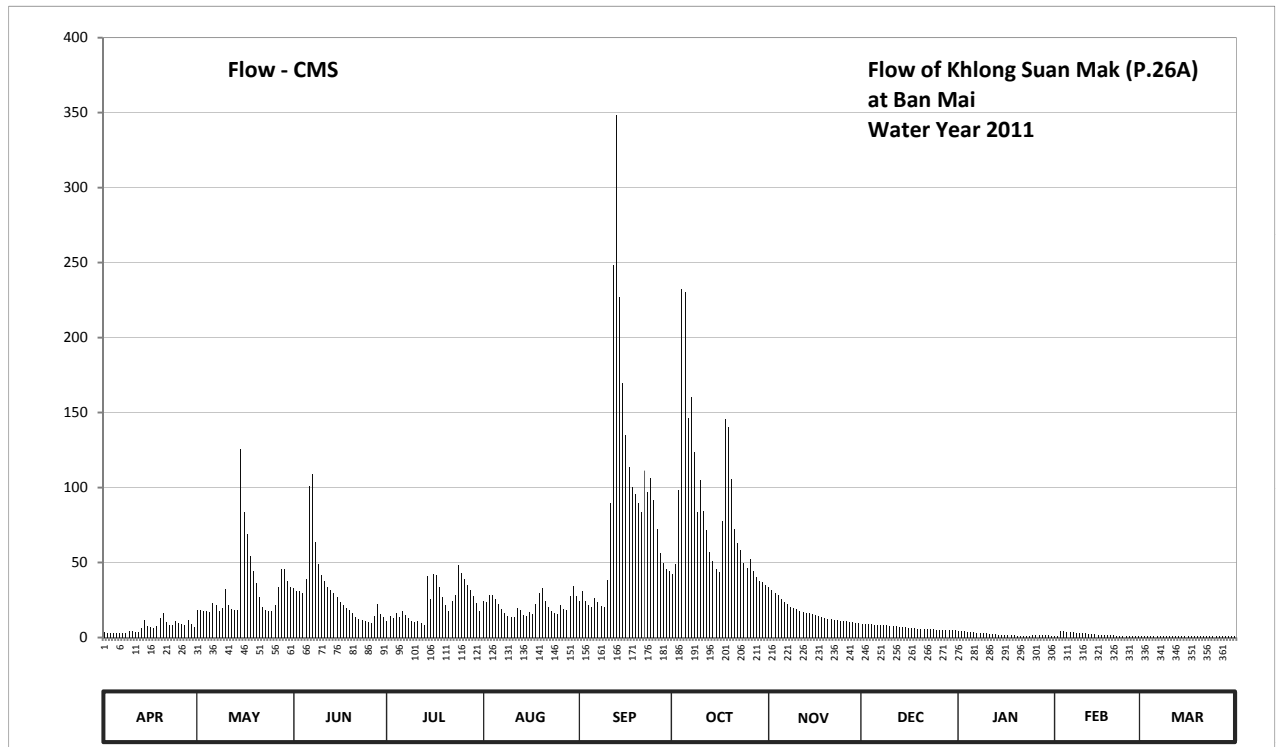
Lat 16 - 26 - 55 N Long 99 - 26 - 28 E

Location : on right bank about 615 meters downstream from tha Kradan Wair.

	Ban Mai	Amphoe Mueang	Changwat Kamphaeng Phet
Drainage Area	974 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+84.110 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 30 meters from the south of Wat Sri Phirom.	Elevation	+89.637 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	1971 to date		
Rating Operation			
Period of Rating	1972 - 1974 , 1980 to date		
Rated by Flot	-		
Rated by Current Meter	1972 - 1974 , 1980 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation + 88.140 m. (MSL.), records are channel flow only		
General Description	Records good. Flow effected by Tha Kradan weir about 3.5 kilometers above gage site. Stage-discharge relation defined by 36 discharge measurements made in 2011.		

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	84.17	84.74	85.09	84.49	84.89	84.90	85.29	85.10	84.44	84.22	84.03	83.98	
2	84.16	84.73	85.05	84.61	84.88	85.05	85.42	85.06	84.44	84.21	84.03	83.98	
3	84.16	84.72	85.04	84.57	84.99	84.89	86.19	85.02	84.43	84.20	84.21	83.98	
4	84.15	84.71	85.02	84.68	84.99	84.83	87.70	84.98	84.43	84.19	84.20	83.98	
5	84.15	84.70	85.22	84.59	84.92	84.79	87.68	84.93	84.42	84.18	84.19	83.98	
6	84.15	84.86	86.23	84.71	84.84	84.94	86.81	84.88	84.42	84.17	84.18	83.98	
7	84.14	84.82	86.34	84.64	84.76	84.87	86.97	84.85	84.41	84.16	84.17	83.98	
8	84.14	84.72	85.66	84.56	84.68	84.81	86.53	84.80	84.41	84.15	84.16	83.98	
9	84.22	84.78	85.42	84.49	84.61	84.79	85.98	84.77	84.40	84.14	84.15	83.98	
10	84.21	85.08	85.27	84.48	84.58	85.21	86.28	84.75	84.39	84.13	84.14	83.98	
11	84.19	84.82	85.19	84.51	84.58	86.07	85.99	84.72	84.38	84.12	84.13	83.98	
12	84.18	84.76	85.11	84.45	84.78	87.85	85.79	84.70	84.37	84.11	84.12	83.98	
13	84.31	84.73	85.06	84.42	84.73	88.70	85.55	84.68	84.36	84.10	84.11	83.98	
14	84.52	84.74	85.01	85.26	84.64	87.65	85.45	84.67	84.35	84.09	84.10	83.98	
15	84.39	86.56	84.96	84.93	84.61	87.08	85.36	84.66	84.34	84.08	84.09	83.98	
16	84.34	85.98	84.88	85.28	84.70	86.67	85.31	84.64	84.33	84.07	84.08	83.98	
17	84.32	85.75	84.83	85.27	84.66	86.40	85.89	84.62	84.32	84.06	84.07	83.98	
18	84.39	85.51	84.78	85.10	84.85	86.22	86.80	84.60	84.31	84.05	84.06	83.98	
19	84.56	85.33	84.74	84.96	85.02	86.15	86.74	84.57	84.30	84.04	84.05	83.98	
20	84.68	85.16	84.68	84.83	85.09	86.07	86.29	84.55	84.30	84.03	84.04	83.98	
21	84.47	84.96	84.60	84.72	84.90	85.98	85.81	84.54	84.29	84.02	84.03	83.98	
22	84.41	84.79	84.54	84.89	84.80	86.37	85.65	84.53	84.28	84.01	84.02	83.98	
23	84.41	84.74	84.52	84.99	84.72	86.17	85.57	84.52	84.27	84.00	84.01	83.98	
24	84.51	84.72	84.50	85.40	84.67	86.30	85.43	84.51	84.27	84.00	84.00	83.98	
25	84.45	84.71	84.47	85.30	84.65	86.09	85.37	84.50	84.26	84.09	84.00	83.98	
26	84.44	84.83	84.45	85.22	84.82	85.81	85.47	84.49	84.26	84.08	83.99	83.98	
27	84.42	85.10	84.61	85.14	84.75	85.54	85.32	84.48	84.25	84.07	83.99	83.98	
28	84.53	85.35	84.84	85.06	84.73	85.43	85.24	84.47	84.25	84.06	83.98	83.98	
29	84.44	85.36	84.66	84.97	84.97	85.35	85.20	84.46	84.24	84.05	83.98	83.98	
30	84.36	85.20	84.59	84.86	85.12	85.32	85.17	84.45	84.24	84.04		83.98	
31		85.11		84.71	84.97		85.14		84.24	84.03		84.01	
Mean	84.33	85.03	84.98	84.84	84.80	85.88	85.92	84.68	84.34	84.10	84.08	83.98	
Max	84.68	86.56	86.34	85.40	85.12	88.70	87.70	85.10	84.44	84.22	84.21	84.01	88.70
Min	84.14	84.70	84.45	84.42	84.58	84.79	85.14	84.45	84.24	84.00	83.98	83.98	83.98
Annual Max Momentary Gage Height	88.91		m. (MSL.) ,			at 06.00 Hours , on Sep 13 , 2011							
Zero Gage at Bottom Elevation	84.11		m. (MSL.) ,		River Bed	84.23	m. (MSL)						
Left Bank Elevation	88.13		m. (MSL.) ,										
Right Bank Elevation	89.58		m. (MSL.) ,		Drainage Area	974	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.40	18.40	33.05	10.70	24.10	24.50	42.50	33.50	9.20	4.40	1.30	0.90	
2	3.20	18.05	31.25	14.30	23.70	31.25	49.20	31.70	9.20	4.20	1.30	0.90	
3	3.20	17.70	30.80	13.10	28.55	24.10	98.30	29.90	8.90	4.00	4.20	0.90	
4	3.00	17.35	29.90	16.40	28.55	21.70	232.00	28.10	8.90	3.80	4.00	0.90	
5	3.00	17.00	39.00	13.70	25.40	20.15	229.90	25.85	8.60	3.60	3.80	0.90	
6	3.00	22.90	101.10	17.35	22.10	26.30	146.35	23.70	8.60	3.40	3.60	0.90	
7	2.80	21.30	109.00	15.20	19.10	23.30	159.95	22.50	8.30	3.20	3.40	0.90	
8	2.80	17.70	63.60	12.80	16.40	20.90	123.40	20.50	8.30	3.00	3.20	0.90	
9	4.40	19.80	49.20	10.70	14.30	20.15	83.70	19.45	8.00	2.80	3.00	0.90	
10	4.20	32.60	41.50	10.40	13.40	38.50	104.60	18.75	7.80	2.60	2.80	0.90	
11	3.80	21.30	37.55	11.30	13.40	89.90	84.35	17.70	7.60	2.40	2.60	0.90	
12	3.60	19.10	33.95	9.50	19.80	248.55	71.40	17.00	7.40	2.20	2.40	0.90	
13	6.20	18.05	31.70	8.60	18.05	348.50	57.00	16.40	7.20	2.00	2.20	0.90	
14	11.60	18.40	29.45	41.00	15.20	226.75	51.00	16.10	7.00	1.90	2.00	0.90	
15	7.80	125.80	27.20	25.85	14.30	169.70	46.00	15.80	6.80	1.80	1.90	0.90	
16	6.80	83.70	23.70	42.00	17.00	134.60	43.50	15.20	6.60	1.70	1.80	0.90	
17	6.40	69.00	21.70	41.50	15.80	113.50	77.85	14.60	6.40	1.60	1.70	0.90	
18	7.80	54.60	19.80	33.50	22.50	100.40	145.50	14.00	6.20	1.50	1.60	0.90	
19	12.80	44.50	18.40	27.20	29.90	95.50	140.40	13.10	6.00	1.40	1.50	0.90	
20	16.40	36.20	16.40	21.70	33.05	89.90	105.30	12.50	6.00	1.30	1.40	0.90	
21	10.10	27.20	14.00	17.70	24.50	83.70	72.65	12.20	5.80	1.20	1.30	0.90	
22	8.30	20.15	12.20	24.10	20.50	111.25	63.00	11.90	5.60	1.10	1.20	0.90	
23	8.30	18.40	11.60	28.55	17.70	96.90	58.20	11.60	5.40	1.00	1.10	0.90	
24	11.30	17.70	11.00	48.00	16.10	106.00	49.80	11.30	5.40	1.00	1.00	0.90	
25	9.50	17.35	10.10	43.00	15.50	91.30	46.50	11.00	5.20	1.90	1.00	0.90	
26	9.20	21.70	9.50	39.00	21.30	72.65	52.20	10.70	5.20	1.80	0.95	0.90	
27	8.60	33.50	14.30	35.30	18.75	56.40	44.00	10.40	5.00	1.70	0.95	0.90	
28	11.90	45.50	22.10	31.70	18.05	49.80	40.00	10.10	5.00	1.60	0.90	0.90	
29	9.20	46.00	15.80	27.65	27.65	45.50	38.00	9.80	4.80	1.50	0.90	0.90	
30	7.20	38.00	13.70	22.90	34.40	44.00	36.65	9.50	4.80	1.40		0.90	
31		33.95		17.35	27.65		35.30		4.80	1.30		1.10	
Total	209.80	1012.90	922.55	732.05	656.70	2625.65	2628.50	514.85	210.00	68.30	59.00	28.10	9668.40 CMSDAY
Mean	6.99	32.67	30.75	23.61	21.18	87.52	84.79	17.16	6.77	2.20	2.03	0.91	26.42 CMS
Max	16.40	125.80	109.00	48.00	34.40	348.50	232.00	33.50	9.20	4.40	4.20	1.10	348.50 CMS
Min	2.80	17.00	9.50	8.60	13.40	20.15	35.30	9.50	4.80	1.00	0.90	0.90	0.90 CMS
Runoff	18.13	87.52	79.71	63.25	56.74	226.86	227.10	44.48	18.14	5.90	5.10	2.43	835.35 MCM
Momentary Peak	375.30 CMS. at 88.91 m. (MSL.) at 06.00 Hours , on Sep 13 , 2011												
Runoff Yield	27.12 Liters/Second/Square KM.			Momentary Peak Yield			385.318 Liters/Second/Square KM.						

WATER YEAR : 2011

PING RIVER BASIN

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

Lat 16 - 20 - 04 N Long 99 - 26 - 16 E

Location : on right bank at Ban Pong Ron.

	Ban	Pong Nam Ron	Amphoe	Khlong Lan	Changwat	Kamphaeng Phet
Drainage Area	529	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+143.770	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 9 meters from the top staff gage.				Elevation	+153.140 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1983 to date					
Rated by Flot	-					
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 33 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.37	144.84	145.22	144.61	144.90	144.95	144.87	144.84	144.44	144.32	144.26	144.06	
2	144.36	144.72	145.42	144.59	144.90	145.13	144.86	144.82	144.43	144.32	144.26	144.06	
3	144.35	144.63	145.46	144.57	144.94	145.06	144.87	144.80	144.43	144.32	144.33	144.06	
4	144.34	144.60	145.43	144.61	144.87	145.11	145.68	144.76	144.42	144.32	144.51	144.06	
5	144.32	144.70	145.53	144.77	144.78	145.04	146.07	144.73	144.42	144.32	144.34	144.06	
6	144.33	145.01	145.40	144.69	144.71	144.95	145.66	144.71	144.41	144.32	144.31	144.06	
7	144.38	145.10	145.23	144.59	144.67	144.92	145.58	144.68	144.41	144.32	144.29	144.06	
8	144.52	145.05	145.12	144.55	144.64	144.87	145.43	144.66	144.40	144.31	144.27	144.06	
9	144.39	144.93	145.00	144.54	144.62	144.82	145.34	144.64	144.40	144.31	144.25	144.06	
10	144.35	144.79	144.96	144.52	144.62	144.90	145.36	144.62	144.40	144.30	144.25	144.14	
11	144.32	144.68	144.89	144.52	144.65	145.53	145.32	144.61	144.40	144.30	144.24	144.26	
12	144.31	144.61	144.85	144.52	144.70	147.17	145.15	144.61	144.39	144.30	144.24	144.23	
13	144.31	144.63	144.81	144.54	144.66	146.42	145.06	144.60	144.39	144.29	144.23	144.28	
14	144.38	144.75	144.77	144.53	144.73	145.84	145.06	144.57	144.39	144.29	144.23	144.25	
15	144.36	145.90	144.72	144.52	144.72	145.59	145.10	144.56	144.38	144.29	144.23	144.31	
16	144.43	145.51	144.69	144.52	144.87	145.36	146.33	144.55	144.38	144.28	144.22	144.22	
17	144.54	145.30	144.71	144.51	144.88	145.21	146.28	144.54	144.38	144.28	144.22	144.21	
18	144.43	145.11	144.69	144.50	144.90	145.16	146.21	144.53	144.37	144.28	144.21	144.19	
19	144.46	144.98	144.68	144.61	144.98	145.04	145.93	144.52	144.37	144.27	144.22	144.16	
20	144.46	144.90	144.65	144.58	144.94	145.00	145.68	144.51	144.36	144.27	144.23	144.16	
21	144.40	144.80	144.63	144.71	144.85	144.96	145.53	144.50	144.36	144.26	144.22	144.08	
22	144.39	144.73	144.64	144.78	144.79	144.94	145.40	144.49	144.35	144.26	144.21	144.04	
23	144.35	144.69	144.60	144.67	144.73	145.00	145.30	144.49	144.35	144.25	144.20	144.04	
24	144.36	144.69	144.59	144.63	144.70	145.03	145.20	144.48	144.35	144.26	144.19	144.04	
25	144.46	144.83	144.58	144.61	144.67	145.08	145.12	144.47	144.35	144.25	144.19	144.04	
26	144.38	144.90	144.63	144.77	144.76	145.03	145.07	144.45	144.34	144.25	144.18	144.05	
27	144.57	145.13	144.82	144.85	144.92	145.12	145.04	144.44	144.34	144.24	144.18	144.05	
28	144.44	145.06	144.74	144									

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.90	14.50	26.40	8.75	16.00	17.50	15.25	14.50	5.30	2.90	1.90	0.00	
2	3.70	11.50	35.60	8.30	16.00	23.05	15.00	14.00	5.10	2.90	1.90	0.00	
3	3.50	9.25	37.80	7.90	17.20	20.80	15.25	13.50	5.10	2.90	3.10	0.00	
4	3.30	8.50	36.15	8.75	15.25	22.35	52.90	12.50	4.90	2.90	6.70	0.00	
5	2.90	11.00	41.95	12.75	13.00	20.20	97.95	11.75	4.90	2.90	3.30	0.00	
6	3.10	19.30	34.50	10.75	11.25	17.50	51.30	11.25	4.70	2.90	2.70	0.00	
7	4.10	22.00	26.85	8.30	10.25	16.60	45.20	10.50	4.70	2.90	2.35	0.00	
8	6.90	20.50	22.70	7.50	9.50	15.25	36.15	10.00	4.50	2.70	2.05	0.00	
9	4.30	16.90	19.00	7.30	9.00	14.00	31.80	9.50	4.50	2.70	1.75	0.00	
10	3.50	13.25	17.80	6.90	9.00	16.00	32.70	9.00	4.50	2.50	1.75	0.40	
11	2.90	10.50	15.75	6.90	9.75	41.95	30.90	8.75	4.50	2.50	1.60	1.90	
12	2.70	8.75	14.75	6.90	11.00	329.70	23.75	8.75	4.30	2.50	1.60	1.45	
13	2.70	9.25	13.75	7.30	10.00	151.10	20.80	8.50	4.30	2.35	1.45	2.20	
14	4.10	12.25	12.75	7.10	11.75	69.10	20.80	7.90	4.30	2.35	1.45	1.75	
15	3.70	76.00	11.50	6.90	11.50	45.85	22.00	7.70	4.10	2.35	1.45	2.70	
16	5.10	40.65	10.75	6.90	15.25	32.70	136.30	7.50	4.10	2.20	1.30	1.30	
17	7.30	30.00	11.25	6.70	15.50	25.95	128.40	7.30	4.10	2.20	1.30	1.15	
18	5.10	22.35	10.75	6.50	16.00	24.10	117.55	7.10	3.90	2.20	1.15	0.90	
19	5.70	18.40	10.50	8.75	18.40	20.20	79.75	6.90	3.90	2.05	1.30	0.60	
20	5.70	16.00	9.75	8.10	17.20	19.00	52.90	6.70	3.70	2.05	1.45	0.60	
21	4.50	13.50	9.25	11.25	14.75	17.80	41.95	6.50	3.70	1.90	1.30	0.00	
22	4.30	11.75	9.50	13.00	13.25	17.20	34.50	6.30	3.50	1.90	1.15	0.00	
23	3.50	10.75	8.50	10.25	11.75	19.00	30.00	6.30	3.50	1.75	1.00	0.00	
24	3.70	10.75	8.30	9.25	11.00	19.90	25.50	6.10	3.50	1.90	0.90	0.00	
25	5.70	14.25	8.10	8.75	10.25	21.40	22.70	5.90	3.50	1.75	0.90	0.00	
26	4.10	16.00	9.25	12.75	12.50	19.90	21.10	5.50	3.30	1.75	0.80	0.00	
27	7.90	23.05	14.00	14.75	16.60	22.70	20.20	5.30	3.30	1.60	0.80	0.00	
28	5.30	20.80	12.00	13.75	26.85	20.80	18.10	4.90	3.10	1.60	0.70	0.40	
29	11.25	20.50	10.00	14.25	18.10	18.10	16.90	4.90	3.10	1.60	0.40	0.90	
30	26.40	20.50	8.75	11.00	24.45	16.30	16.00	5.10	3.10	1.75		0.70	
31		19.60		10.25	20.20		15.00		2.90	1.90		0.90	
Total	160.85	572.30	517.90	288.50	442.50	1136.0							

WATER YEAR : 2011

PING RIVER BASIN

Khlong Wang Chao at Ban Thai Tawee , Kamphaeng Phet (P.50A)

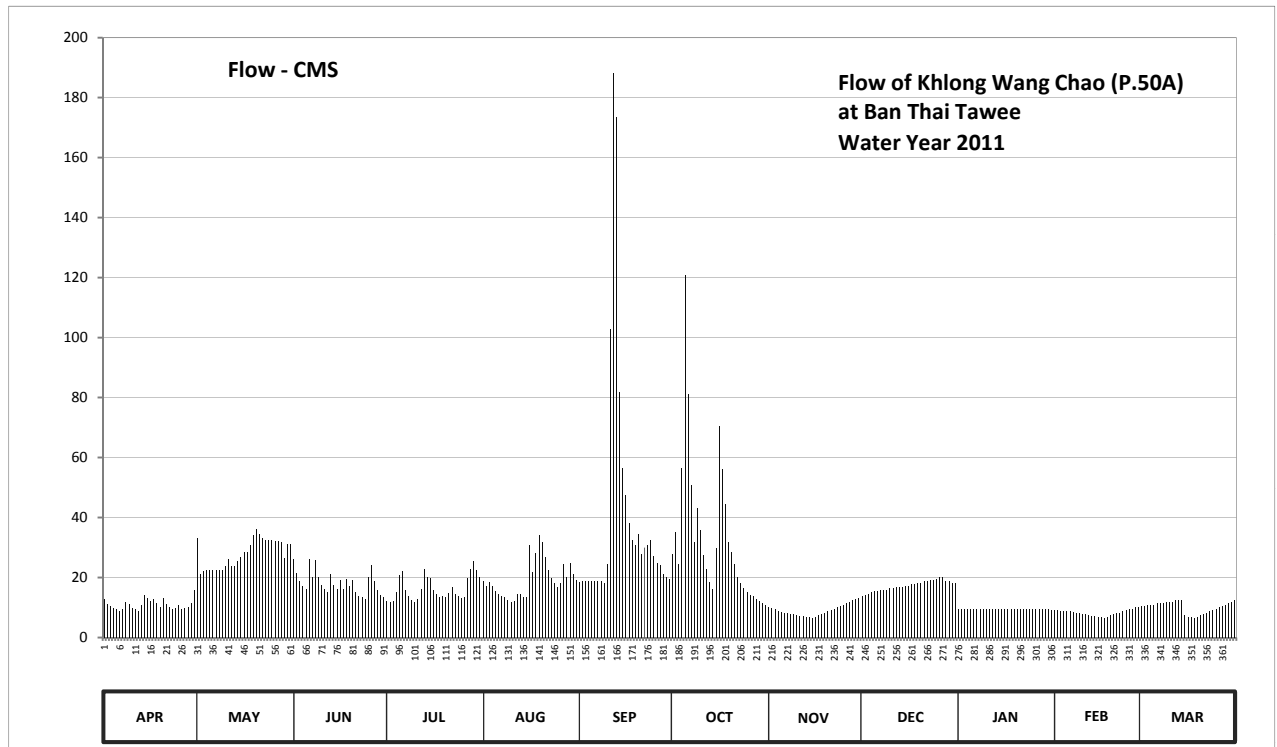
Lat 16 - 32 - 45 N Long 99 - 14 - 57 E

Location : on left bank at Ban Thai Tawee.

	Ban	Thai Tawee	Amphoe	Kosumpee Nakhon	Changwat	Kamphaeng Phet
Drainage Area	480	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+104.360	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 10 meters from the top staff gage.				Elevation	+109.931 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +107.000 m.(MSL), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 1911.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	105.51	106.38	106.11	105.49	105.80	105.79	106.17	105.39	105.04	105.34	105.33	105.11	
2	105.44	105.91	105.92	105.47	105.73	105.80	106.45	105.37	105.03	105.34	105.33	105.11	
3	105.40	105.95	105.80	105.49	105.79	105.80	106.04	105.34	105.02	105.34	105.32	105.10	
4	105.36	105.96	105.73	105.63	105.73	105.80	107.10	105.32	105.01	105.34	105.32	105.10	
5	105.34	105.96	105.69	105.89	105.65	105.80	107.95	105.30	105.00	105.34	105.31	105.10	
6	105.32	105.96	106.11	105.95	105.60	105.80	107.56	105.29	105.00	105.34	105.31	105.09	
7	105.34	105.96	105.86	105.67	105.57	105.80	106.95	105.28	104.99	105.34	105.30	105.09	
8	105.47	105.96	106.09	105.56	105.54	105.80	106.33	105.27	104.99	105.34	105.29	105.09	
9	105.43	105.96	105.87	105.50	105.50	105.78	106.73	105.26	104.99	105.34	105.28	105.08	
10	105.36	106.01	105.74	105.47	105.47	106.04	106.48	105.25	104.98	105.34	105.27	105.08	
11	105.34	106.10	105.68	105.51	105.48	107.81	106.16	105.24	104.98	105.34	105.26	105.08	
12	105.31	106.01	105.63	105.69	105.60	108.33	105.98	105.23	104.97	105.34	105.25	105.07	
13	105.42	106.01	105.90	105.98	105.60	108.26	105.79	105.22	104.97	105.34	105.24	105.07	
14	105.58	106.08	105.74	105.86	105.54	107.57	105.69	105.21	104.97	105.34	105.23	105.07	
15	105.53	106.13	105.69	105.84	105.55	107.10	106.26	105.20	104.96	105.34	105.22	105.25	
16	105.48	106.20	105.82	105.67	106.29	106.86	107.39	105.19	104.96	105.34	105.21	105.22	
17	105.51	106.20	105.69	105.60	105.93	106.56	107.09	105.18	104.95	105.34	105.20	105.21	
18	105.45	106.29	105.83	105.55	106.18	106.36	106.78	105.17	104.95	105.34	105.19	105.20	
19	105.38	106.41	105.73	105.57	106.41	106.29	106.33	105.16	104.94	105.34	105.18	105.19	
20	105.53	106.49	105.82	105.55	106.33	106.43	106.20	105.15	104.94	105.34	105.17	105.18	
21	105.44	106.43	105.63	105.62	106.14	106.17	106.04	105.14	104.93	105.34	105.16	105.17	
22	105.39	106.38	105.57	105.71	105.96	106.26	105.87	105.13	104.93	105.34	105.16	105.16	
23	105.35	106.36	105.54	105.60	105.85	106.30	105.78	105.12	104.92	105.34	105.15	105.15	
24	105.37	106.35	105.52	105.57	105.77	106.36	105.70	105.11	104.92	105.34	105.14	105.14	
25	105.41	106.35	105.87	105.53	105.71	106.15	105.63	105.10	104.91	105.34	105.13	105.13	
26	105.35	106.34	106.03	105.55	105.77	106.05	105.59	105.09	104.90	105.34	105.13	105.12	
27	105.37	106.34	105.81	105.84	106.04	106.03	105.57	105.08	104.90	105.34	105.12	105.11	
28	105.38	106.33	105.67	105									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.70	33.20	26.25	12.30	18.75	18.53	27.75	10.30	13.70	9.30	9.10	10.55	
2	11.30	21.25	21.50	11.90	17.18	18.75	35.12	9.90	14.15	9.30	9.10	10.55	
3	10.50	22.25	18.75	12.30	18.53	18.75	24.50	9.30	14.60	9.30	8.90	11.00	
4	9.70	22.50	17.18	15.10	17.18	18.75	56.50	8.90	15.05	9.30	8.90	11.00	
5	9.30	22.50	16.30	20.77	15.50	18.75	120.75	8.50	15.50	9.30	8.70	11.00	
6	8.90	22.50	26.25	22.25	14.50	18.75	81.20	8.30	15.50	9.30	8.70	11.45	
7	9.30	22.50	20.10	15.90	13.90	18.75	50.62	8.10	15.95	9.30	8.50	11.45	
8	11.90	22.50	25.75	13.70	13.30	18.75	31.82	7.90	15.95	9.30	8.30	11.45	
9	11.10	22.50	20.33	12.50	12.50	18.30	43.15	7.70	15.95	9.30	8.10	11.90	
10	9.70	23.75	17.40	11.90	11.90	24.50	35.95	7.50	16.40	9.30	7.90	11.90	
11	9.30	26.00	16.10	12.70	12.10	102.75	27.50	7.30	16.40	9.30	7.70	11.90	
12	8.70	23.75	15.10	16.30	14.50	188.25	23.00	7.10	16.85	9.30	7.50	12.35	
13	10.90	23.75	21.00	23.00	14.50	173.50	18.53	6.90	16.85	9.30	7.30	12.35	
14	14.10	25.50	17.40	20.10	13.30	81.90	16.30	6.70	16.85	9.30	7.10	12.35	
15	13.10	26.75	16.30	19.65	13.50	56.50	30.00	6.50	17.30	9.30	6.90	7.50	
16	12.10	28.50	19.20	15.90	30.75	47.35	70.50	6.95	17.30	9.30	6.70	6.90	
17	12.70	28.50	16.30	14.50	21.75	38.15	56.10	7.40	17.75	9.30	6.50	6.70	
18	11.50	30.75	19.43	13.50	28.00	32.65	44.65	7.85	17.75	9.30	6.95	6.50	
19	10.10	34.03	17.18	13.90	34.03	30.75	31.82	8.30	18.20	9.30	7.40	6.95	
20	13.10	36.22	19.20	13.50	31.82	34.57	28.50	8.75	18.20	9.30	7.85	7.40	
21	11.30	34.57	15.10	14.90	27.00	27.75	24.50	9.20	18.65	9.30	8.30	7.85	
22	10.30	33.20	13.90	16.73	22.50	30.00	20.33	9.65	18.65	9.30	8.30	8.30	
23	9.50	32.65	13.30	14.50	19.87	31.00	18.30	10.10	19.10	9.30	8.75	8.75	
24	9.90	32.37	12.90	13.90	18.07	32.65	16.50	10.55	19.10	9.30	9.20	9.20	
25	10.70	32.37	20.33	13.10	16.73	27.25	15.10	11.00	19.55	9.30	9.65	9.65	
26	9.50	32.10	24.25	13.50	18.07	24.75	14.30	11.45	20.00	9.30	9.65	10.10	
27	9.90	32.10	18.97	19.65	24.50	24.25	13.90	11.90	20.00	9.30	10.10	10.55	
28	10.10	31.82	15.90	22.75	20.33	21.25	12.90	12.35	19.00	9.30	10.10	11.00	
29	11.50	26.50	14.10	25.50	24.75	20.10	12.10	12.80	19.00	9.30	10.55	11.45	
30	15.90	31.27	13.30	22.50	21.00	19.43	11.50	13.25	18.00	9.30		11.90	
31		31.27		20.33	19.20		10.90		18.00	9.20		12.35	
Total	328.60	869.42	549.07	509.03	599.51	1237.38	1024.59	272.40	535.25	288.20	242.70	314.25	6770.40 CMSDAY
Mean	10.95	28.05	18.30	16.42	19.34	41.25	33.05	9.08	17.27	9.30	8.37	10.14	18.50 CMS
Max	15.90	36.22	26.25	25.50	34.03	188.25	120.75	13.25	20.00	9.30	10.55	12.35	188.25 CMS
Min	8.70	21.25	12.90	11.90	11.90	18.30	10.90	6.50	13.70	9.20	6.50	6.50	6.50 CMS
Runoff	28.39	75.12	47.44	43.98	51.80	106.91	88.53	23.54	46.25	24.90	20.97	27.15	584.96 MCM
Momentary Peak	301.25 CMS. at 108.75 m. (MSL.) at 15.00 Hours , on Sep 12 , 2011												
Runoff Yield	38.54	Liters/Second/Square KM.		Momentary Peak Yield		627.604	Liters/Second/Square KM.						

WATER YEAR : 2011

PING RIVER BASIN

Nam Mae Ngat at Ban Sahakorn Romklat, Chiang Mai (P.56A)

Lat 19 - 17 - 04 N Long 99 - 11 - 23 E

Location : on left bank at the bridge near land Cooperative Office.

	Ban	Sahakorn Romklao	Amphoe	Phrao	Changwat	Chiang Mai
Drainage Area	546	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+408.300	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 10 meters from the top staff gage.				Elevation	+416.250 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1998 to date					
Rating Operation						
Period of Rating	1998 to date					
Rated by Flot	-					
Rated by Current Meter	1998 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	409.51	410.16	409.79	410.00	412.76	410.84	411.51	410.54	410.26	410.02	409.94	409.84	
2	409.50	410.36	409.74	410.09	411.63	410.82	411.63	410.50	410.23	410.02	409.94	409.84	
3	409.50	411.18	409.73	410.20	411.69	410.70	411.18	410.49	410.22	410.02	409.96	409.84	
4	409.49	410.72	409.76	410.31	410.93	410.61	410.96	410.49	410.22	410.02	409.96	409.83	
5	409.49	411.07	409.79	410.08	410.58	410.75	410.86	410.47	410.21	410.03	409.96	409.83	
6	409.49	410.36	409.88	409.92	410.44	411.35	410.81	410.46	410.20	410.02	409.92	409.83	
7	409.48	410.03	410.18	409.76	410.45	411.06	410.89	410.44	410.15	410.02	409.95	409.83	
8	409.48	409.90	409.86	409.73	410.48	410.84	411.82	410.43	410.12	410.02	409.94	409.83	
9	409.48	410.16	409.74	409.77	410.62	410.74	411.01	410.44	410.10	410.00	409.90	409.83	
10	409.48	410.21	409.68	409.76	411.73	410.89	410.76	410.43	410.10	410.00	409.88	409.83	
11	409.48	409.96	409.67	409.74	411.89	410.66	410.68	410.42	410.09	410.00	409.87	409.83	
12	409.48	409.88	409.71	409.69	411.76	410.65	410.62	410.40	410.08	410.00	409.87	409.83	
13	409.48	409.83	410.11	409.69	412.28	411.10	410.58	410.38	410.07	410.00	409.86	409.83	
14	409.48	409.77	410.03	409.85	411.31	411.04	410.53	410.37	410.06	410.05	409.86	409.94	
15	409.47	409.72	409.83	410.58	410.97	411.17	410.67	410.35	410.08	410.38	409.85	410.27	
16	409.47	409.73	409.75	411.09	411.01	411.39	410.70	410.36	410.09	410.20	409.85	410.15	
17	409.46	409.84	409.71	411.64	410.82	410.92	410.68	410.36	410.04	410.12	409.85	410.09	
18	409.46	409.94	409.69	410.74	410.76	410.77	410.73	410.36	410.02	410.08	409.85	410.00	
19	409.46	409.95	409.66	410.46	410.74	410.80	410.67	410.36	410.02	410.08	409.84	409.99	
20	409.46	410.23	409.60	410.51	411.37	410.86	410.62	410.36	410.01	410.08	409.84	409.93	
21	409.46	409.89	409.64	410.60	412.36	411.06	410.61	410.36	409.98	410.08	409.84	409.93	
22	409.99	409.76	409.76	410.44	412.03	410.92	410.59	410.34	409.97	410.06	409.84	409.91	
23	410.94	409.69	409.66	410.18	411.23	410.82	410.53	410.33	409.98	410.00	409.83	409.85	
24	410.93	409.66	409.52	410.51	410.95	410.76	410.48	410.33	409.98	409.99	409.81	409.84	
25	410.98	409.63	409.51	410.57	411.41	410.79	410.46	410.35	409.99	409.97	409.82	409.85	
26	410.69	409.63	410.45	410.23	412.04	410.85	410.45	410.36	410.00	409.95	409.83	409.95	
27	410.76	409.64	411.21	410.00	411.78	411.16	410.44	410.36	410.00	409.96	409.83	409.89	
28	411.07	409.64	410.52	409									

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.26	7.88	3.50	5.80	67.16	18.48	32.59	13.24	4.92	1.88	1.28	0.70	
2	1.20	10.48	3.00	6.97	35.47	18.09	35.47	10.50	4.41	1.88	1.28	0.70	
3	1.20	25.29	2.90	8.40	37.00	15.95	25.29	10.23	4.24	1.88	1.42	0.70	
4	1.14	16.30	3.20	9.83	20.23	14.37	20.82	10.23	4.24	1.88	1.42	0.65	
5	1.14	23.04	3.50	6.84	13.88	16.83	18.87	9.69	4.07	1.97	1.42	0.65	
6	1.14	10.48	4.48	4.92	11.64	28.93	17.90	9.42	3.90	1.88	1.14	0.65	
7	1.08	6.19	8.14	3.20	11.80	22.83	19.46	8.88	3.25	1.88	1.35	0.65	
8	1.08	4.70	4.26	2.90	12.28	18.48	40.34	8.61	2.86	1.88	1.28	0.65	
9	1.08	7.88	3.00	3.30	14.55	16.65	21.81	8.88	2.60	1.70	1.00	0.65	
10	1.08	8.53	2.44	3.20	38.02	19.46	17.00	8.61	2.60	1.70	0.90	0.65	
11	1.08	5.36	2.36	3.00	42.23	15.25	15.60	8.34	2.51	1.70	0.85	0.65	
12	1.08	4.48	2.70	2.52	38.78	15.07	14.55	7.80	2.42	1.70	0.85	0.65	
13	1.08	3.93	7.23	2.52	52.94	23.65	13.88	7.36	2.33	1.70	0.80	0.65	
14	1.08	3.30	6.19	4.15	28.06	22.42	13.08	7.14	2.24	2.15	0.80	1.28	
15	1.02	2.80	3.93	13.88	21.02	25.09	15.43	6.70	2.42	7.36	0.75	5.09	
16	1.02	2.90	3.10	23.44	21.81	29.79	15.95	6.92	2.51	3.90	0.75	3.25	
17	0.96	4.04	2.70	35.72	18.09	20.04	15.60	6.92	2.06	2.86	0.75	2.51	
18	0.96	5.14	2.52	16.65	17.00	17.17	16.48	6.92	1.88	2.42	0.75	1.70	
19	0.96	5.25	2.28	11.96	16.65	17.70	15.43	6.92	1.88	2.42	0.70	1.63	
20	0.96	8.79	1.80	12.76	29.35	18.87	14.55	6.92	1.79	2.42	0.70	1.21	
21	0.96	4.59	2.12	14.20	55.18	22.83	14.37	6.92	1.56	2.42	0.70	1.21	
22	5.69	3.20	3.20	11.64	46.02	20.04	14.04	6.48	1.49	2.24	0.70	1.07	
23	20.43	2.52	2.28	8.14	26.35	18.09	13.08	6.26	1.56	1.70	0.65	0.75	
24	20.23	2.28	1.32	12.76	20.63	17.00	12.28	6.26	1.56	1.63	0.55	0.70	
25	21.21	2.04	1.26	13.72	30.24	17.53	11.96	6.70	1.63	1.49	0.60	0.75	
26	15.78	2.04	11.80	8.79	46.30	18.68	11.80	6.92	1.70	1.35	0.65	1.35	
27	17.00	2.12	25.91	5.80	39.29	24.88	11.64	6.92	1.70	1.42	0.65	0.95	
28	23.04	2.12	12.92	4.92	26.99	52.94	11.48	6.48	1.70	1.42	0.70	0.90	
29	17.70	3.40	9.05	4.37	25.29	66.54	12.92	5.26	1.88	1.35	0.70	0.90	
30	14.90	11.00	6.71	4.15	26.13	31.88	24.26	5.09	1.88	1.28		0.90	
31		5.03		7.88	20.23		16.12		1.88	1.21		0.85	
Total	178.54	207.10	149.80	278.33	910.61	685.53	554.05	233.52	77.67	64.			

WATER YEAR : 2011**PING RIVER BASIN****Ping River at Ban Mae Tae , Chiang Mai (P.67)**

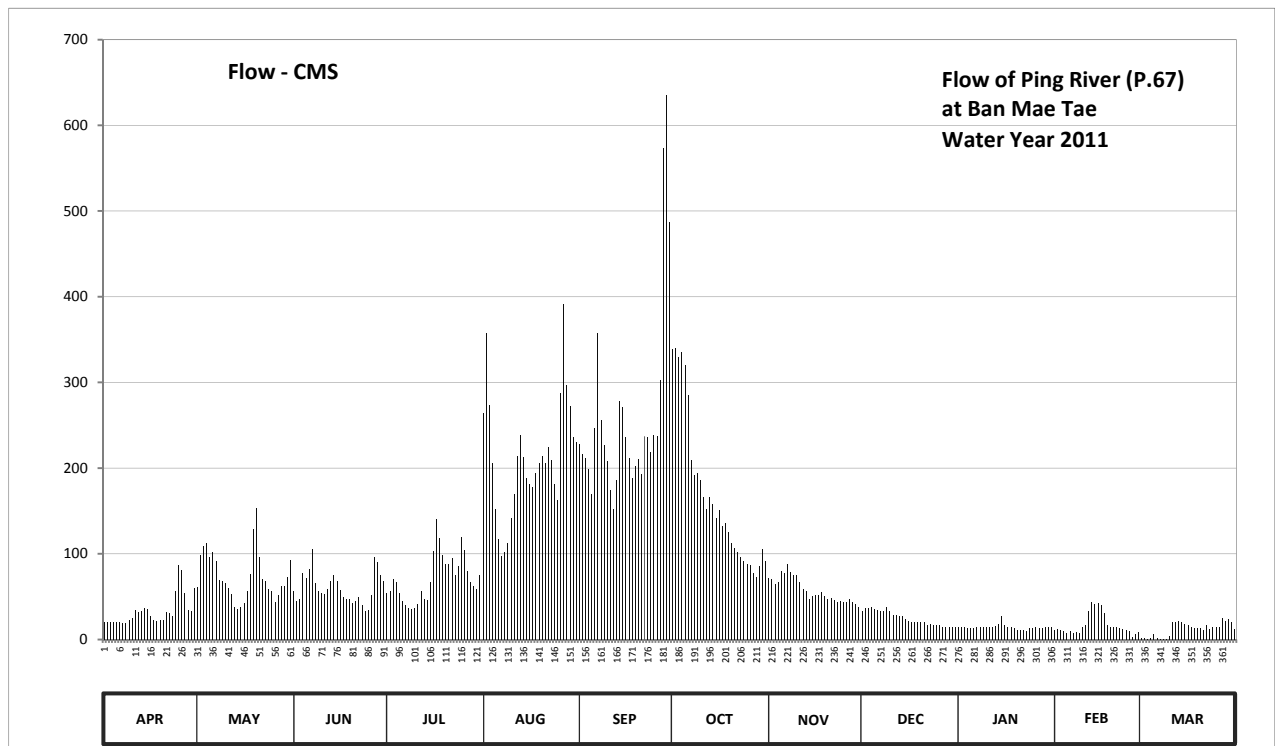
Lat 19 - 01 - 11 N Long 98 - 57 - 43 E

Location : on left bank at the bridge on highway.

	Ban	Mae Tae	Amphoe	San Sai	Changwat	Chiang Mai
Drainage Area	5,323	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+315.926 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 20 meters from the top staff gage.				Elevation	+323.690 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1995 to date					
Rating Operation						
Period of Rating	1995 to date					
Rated by Flot	-					
Rated by Current Meter	1995 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow regulated by Mae Faek and Mae Taeng weir situated above gage site. Flow effected by the sand-dredger about 10 kilometers downstream from the gage site. Stage-discharge relation defined by 42 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	315.83	316.46	316.41	316.37	318.27	318.00	318.79	316.58	316.08	315.70	315.60	315.31	
2	315.83	316.87	316.25	316.40	318.91	317.91	318.80	316.57	316.13	315.70	315.62	315.27	
3	315.83	316.98	316.28	316.57	318.34	317.87	318.73	316.50	316.14	315.69	315.60	315.25	
4	315.83	317.01	316.65	316.53	317.82	317.76	318.77	316.53	316.16	315.67	315.58	315.27	
5	315.83	316.85	316.59	316.37	317.37	317.52	318.66	316.67	316.12	315.67	315.51	315.46	
6	315.84	316.90	316.70	316.25	317.06	318.14	318.42	316.65	316.10	315.67	315.55	315.26	
7	315.82	316.79	316.94	316.19	316.86	318.91	317.85	316.76	316.08	315.69	315.49	315.24	
8	315.82	316.56	316.52	316.13	316.90	318.21	317.71	316.66	316.08	315.70	315.52	315.24	
9	315.88	316.55	316.41	316.12	317.02	317.99	317.73	316.63	316.15	315.70	315.49	315.25	
10	315.95	316.51	316.37	316.14	317.28	317.84	317.66	316.63	316.08	315.69	315.71	315.38	
11	316.09	316.45	316.36	316.20	317.52	317.56	317.49	316.53	316.01	315.68	315.76	315.84	
12	316.06	316.36	316.44	316.40	317.89	317.37	317.38	316.43	316.00	315.69	316.08	315.85	
13	316.08	316.15	316.55	316.29	318.08	317.66	317.49	316.41	315.98	315.72	316.23	315.86	
14	316.13	316.12	316.62	316.26	317.88	318.37	317.43	316.28	315.98	315.80	316.20	315.85	
15	316.12	316.15	316.55	316.53	317.68	318.32	317.28	316.33	315.93	315.98	316.22	315.80	
16	315.99	316.22	316.42	316.92	317.62	318.06	317.36	316.34	315.86	315.76	316.18	315.76	
17	315.90	316.41	316.32	317.27	317.59	317.87	317.20	316.34	315.84	315.70	316.04	315.70	
18	315.86	316.64	316.28	317.07	317.73	317.68	317.23	316.39	315.83	315.68	315.77	315.66	
19	315.88	317.16	316.28	316.87	317.82	317.79	317.13	316.33	315.84	315.65	315.71	315.66	
20	315.90	317.39	316.22	316.76	317.89	317.86	317.01	316.28	315.83	315.61	315.69	315.65	
21	316.06	316.84	316.25	316.76	317.82	317.72	316.95	316.30	315.85	315.61	315.68	315.61	
22	316.04	316.57	316.32	316.83	317.97	318.07	316.90	316.27	315.76	315.61	315.65	315.77	
23	315.98	316.55	316.18	316.63	317.85	318.06	316.85	316.24	315.78	315.58	315.62	315.62	
24	316.40	316.44	316.08	316.73	317.62	317.92	316.79	316.25	315.77	315.67	315.61	315.69	
25	316.75	316.40	316.10	317.08	317.46	318.08	316.76	316.23	315.76	315.66	315.55	315.68	
26	316.68	316.24	316.34	316.93	318.44	318.07	316.75	316.23	315.75	315.68	315.33	315.71	
27	316.37	316.34	316.85	316.67	319.13	318.54	316.65	316.28	315.71	315.67	315.44	315.94	
28	316.10	316.48	316.78	316.53	318.50	320.18	316.60	316.23	315.69	315.66	315.54	315.87	
29	316.07	316.47	316.62	316.47	318.33	320.52	316.73	316.20	315.68	315.68	315.43	315.92	
30	316.45	316.60	316.54	316.43	318.06	319.70	316.94	316.16	315.68	315.69		315.84	
31		316.81		316.62	318.02		316.79		315.70	315.68		315.63	
Mean	316.05	316.59	316.44	316.56	317.83	318.18	317.45	316.41	315.91	315.69	315.70	315.61	
Max	316.75	317.39	316.94	317.27	319.13	320.52	318.80	316.76	316.16	315.98	316.23	315.94	320.52
Min	315.82	316.12	316.08	316.12	316.86	317.37	316.60	316.16	315.68	315.58	315.33	315.24	315.24
Annual Max Momentary Gage Height	320.83		m. (MSL.) ,		at 22.00 Hours , on Sep 28 , 2011								
Zero Gage at Bottom Elevation	315.93		m. (MSL.) ,		River Bed	313.75		m. (MSL)					
Left Bank Elevation	326.33		m. (MSL.) ,										
Right Bank Elevation	326.20		m. (MSL.) ,		Drainage Area	5323	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.85	61.10	56.85	53.75	263.80	228.00	338.55	71.30	33.20	14.75	11.00	2.27	
2	19.85	98.65	44.75	56.00	357.05	216.75	340.00	70.45	36.45	14.75	11.75	1.40	
3	19.85	109.10	47.00	70.45	273.60	211.75	329.85	64.50	37.10	14.38	11.00	1.00	
4	19.85	112.10	77.75	67.05	205.50	198.20	335.65	67.05	38.40	13.63	10.34	1.40	
5	19.85	96.75	72.15	53.75	151.70	169.40	319.70	79.65	35.80	13.63	8.03	6.50	
6	20.30	101.50	82.50	44.75	117.60	246.20	284.90	77.75	34.50	13.63	9.35	1.20	
7	19.40	91.05	105.30	40.35	97.70	357.05	209.25	88.20	33.20	14.38	7.40	0.80	
8	19.40	69.60	66.20	36.45	101.50	255.40	192.20	78.70	33.20	14.75	8.36	0.80	
9	22.10	68.75	56.85	35.80	113.20	226.75	194.60	75.85	37.75	14.75	7.40	1.00	
10	25.50	65.35	53.75	37.10	141.80	208.00	186.20	75.85	33.20	14.38	15.12	4.16	
11	33.85	60.25	53.00	41.00	169.40	174.20	165.80	67.05	28.65	14.00	17.00	20.30	
12	31.90	53.00	59.40	56.00	214.25	151.70	152.80	58.55	28.00	14.38	33.20	20.75	
13	33.20	37.75	68.75	47.75	238.40	186.20	165.80	56.85	27.00	15.50	43.25	21.20	
14	36.45	35.80	74.90	45.50	213.00	277.80	158.60	47.00	27.00	18.50	41.00	20.75	
15	35.80	37.75	68.75	67.05	188.60	270.80	141.80	50.75	24.50	27.00	42.50	18.50	
16	27.50	42.50	57.70	103.40	181.40	235.80	150.60	51.50	21.20	17.00	39.70	17.00	
17	23.00	56.85	50.00	140.70	177.80	211.75	133.00	51.50	20.30	14.75	30.60	14.75	
18	21.20	76.80	47.00	118.70	194.60	188.60	136.30	55.25	19.85	14.00	17.37	13.25	
19	22.10	128.60	47.00	98.65	205.50	201.80	125.30	50.75	20.30	12.87	15.12	13.25	
20	23.00	153.90	42.50	88.20	214.25	210.50	112.10	47.00	19.85	11.37	14.38	12.87	
21	31.90	95.80	44.75	88.20	205.50	193.40	106.25	48.50	20.75	11.37	14.00	11.37	
22	30.60	70.45	50.00	94.85	224.25	237.10	101.50	46.25	17.00	11.37	12.87	17.37	
23	27.00	68.75	39.70	75.85	209.25	235.80	96.75	44.00	17.75	10.34	11.75	11.75	
24	56.00	59.40	33.20	85.35	181.40	218.00	91.05	44.75	17.37	13.63	11.37	14.38	
25	87.25	56.00	34.50	119.80	162.20	238.40	88.20	43.25	17.00	13.25	9.35	14.00	
26	80.60	44.00	51.50	104.35	287.80	237.10	87.25	43.25	16.63	14.00	2.81	15.12	
27	53.75	51.50	96.75	79.65	391.80	302.30	77.75	47.00	15.12	13.63	5.90	25.00	
28	34.50	62.80	90.10	67.05	296.50	573.40	73.00	43.25	14.38	13.25	9.02	21.65	
29	32.55	61.95	74.90	61.95	272.20	635.80	85.35	41.00	14.00	14.00	5.60	24.00	
30	60.25	73.00											

WATER YEAR : 2011

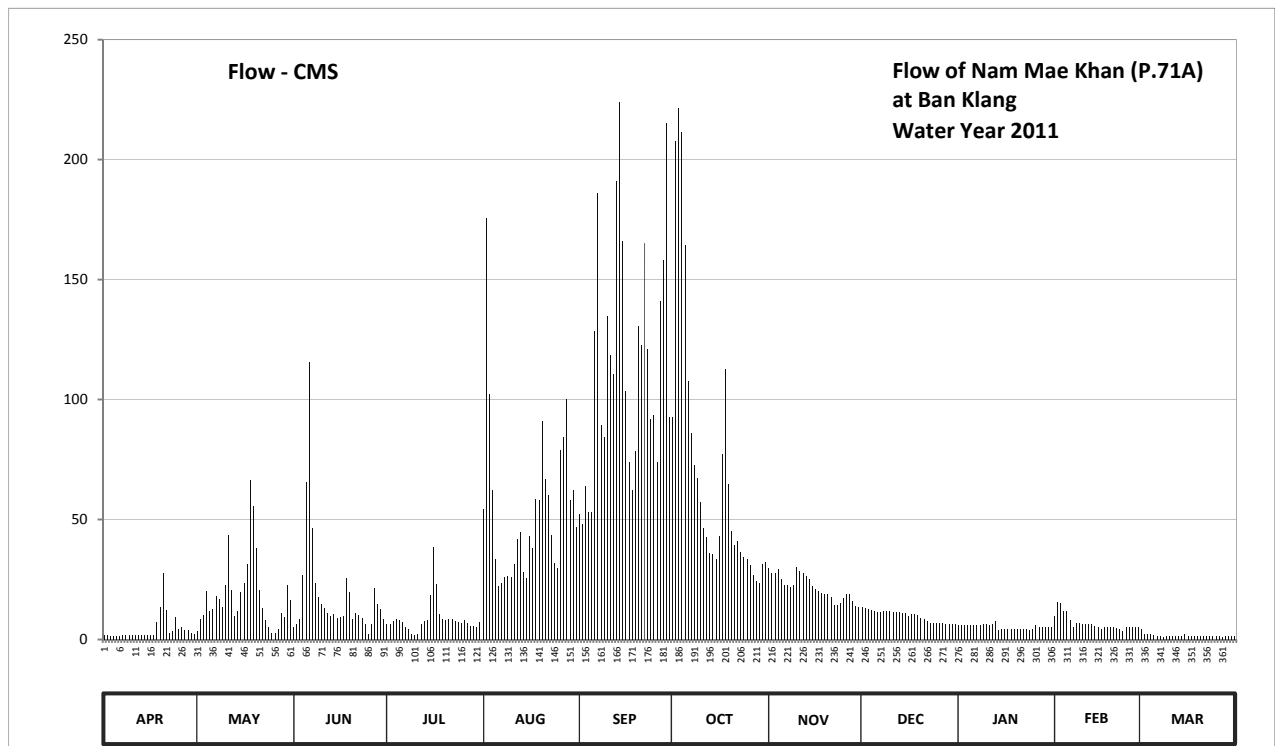
PING RIVER BASIN

Nam Mae Khan at Ban Klang , Chiang Mai (P.71A)

Lat 18 - 32 - 50 N Long 98 - 51 - 44 E

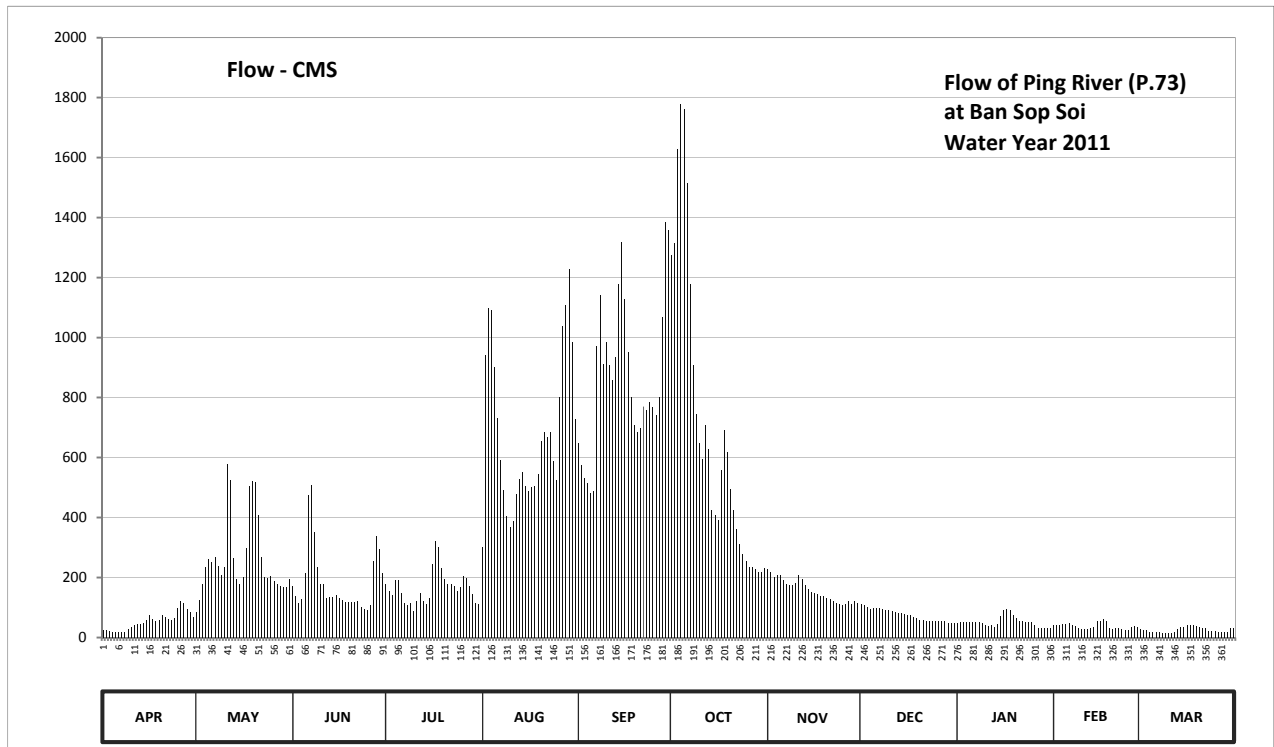
Location : on left bank at the bridge on highway.

	Ban	Klang		Amphoe	San Pa Tong		Changwat	Chiang Mai					
Drainage Area	1,634	sq.km.											
Type of Gage	Water - stage recorder												
Zero Gage at Bottom	+283.285 m. (MSL.)												
Bench Mark	B.M.-H.D.												
Location BM	On left bank about 3 meters from the top staff gage.						Elevation	+288.545 m. (MSL.)					
Gage Reading Frequency	Recording												
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings												
Period of Available Gage Records	1996 to date												
Rating Operation													
Period of Rating	1996 to date												
Rated by Flot	-												
Rated by Current Meter	1996 to date												
Stability of Channel Regimes	Fairly stablebecause of backwater effect.												
Overbank Flow Conditions	No overbank flow												
General Description	Records good. The concrete weir made by R.I.D. about 3 kilometers and the temporary weir about 300 meters downstream from the gage site. Stage-discharge relation defined by 36 discharge measurements made in 2011.												
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	284.55	284.63	284.69	284.73	285.92	285.88	286.63	285.38	284.94	284.71	284.83	284.65	
2	284.54	284.79	284.72	284.72	287.82	285.79	288.21	285.33	284.93	284.71	285.00	284.57	
3	284.53	284.84	284.79	284.77	286.79	286.10	288.36	285.32	284.92	284.71	284.99	284.57	
4	284.53	285.12	285.30	284.79	286.07	285.89	288.25	285.37	284.91	284.71	284.90	284.57	
5	284.53	284.89	286.13	284.78	285.47	285.89	287.68	285.26	284.89	284.71	284.89	284.56	
6	284.53	284.92	286.99	284.75	285.18	287.19	286.87	285.19	284.88	284.71	284.78	284.53	
7	284.54	285.07	285.76	284.69	285.22	287.95	286.51	285.19	284.88	284.71	284.69	284.53	
8	284.54	285.04	285.22	284.65	285.28	286.57	286.27	285.17	284.89	284.71	284.74	284.51	
9	284.54	284.94	285.06	284.58	285.29	286.48	286.17	285.19	284.89	284.73	284.74	284.52	
10	284.54	285.19	284.98	284.55	285.28	287.28	285.98	285.39	284.89	284.72	284.73	284.52	
11	284.55	285.70	284.93	284.58	285.42	287.04	285.76	285.35	284.88	284.71	284.73	284.52	
12	284.55	285.14	284.87	284.73	285.66	286.92	285.68	285.33	284.88	284.72	284.72	284.52	
13	284.56	284.83	284.83	284.76	285.72	288.01	285.53	285.29	284.88	284.77	284.72	284.52	
14	284.56	284.90	284.86	284.78	285.34	288.39	285.52	285.26	284.87	284.64	284.70	284.52	
15	284.56	285.11	284.81	285.08	285.27	287.70	285.47	285.18	284.87	284.66	284.68	284.58	
16	284.55	285.21	284.82	285.59	285.69	286.81	285.69	285.15	284.83	284.66	284.66	284.53	
17	284.56	285.42	284.83	285.20	285.58	286.29	286.35	285.12	284.86	284.66	284.69	284.52	
18	284.75	286.15	285.27	284.86	286.00	286.07	286.95	285.10	284.86	284.66	284.69	284.52	
19	284.95	285.94	285.11	284.79	285.99	286.37	286.12	285.09	284.84	284.66	284.68	284.52	
20	285.33	285.58	284.80	284.78	286.60	287.22	285.73	285.09	284.81	284.65	284.68	284.52	
21	284.91	285.14	284.87	284.80	286.16	287.10	285.61	285.06	284.79	284.65	284.67	284.52	
22	284.59	284.93	284.85	284.80	286.03	287.69	285.64	284.97	284.76	284.65	284.65	284.52	
23	284.63	284.78	284.81	284.77	285.70	287.08	285.54	284.97	284.74	284.65	284.62	284.52	
24	284.82	284.68	284.73	284.75	285.43	286.61	285.49	284.99	284.74	284.64	284.68	284.52	
25	284.66	284.59	284.58	284.74	285.38	286.64	285.47	285.05	284.74	284.66	284.69	284.52	
26	284.68	284.59	284.72	284.78	286.38	286.29	285.41	285.09	284.74	284.71	284.69	284.52	
27	284.64	284.66	285.16	284.74	286.48	287.37	285.30	285.09	284.74	284.68	284.69	284.50	
28	284.64	284.87	284.98	284.70	286.75	287.60	285.24	285.01	284.72	284.68	284.68	284.52	
29	284.59	284.82	284.92	284.70	285.99	288.29	285.21	284.96	284.72	284.68	284.69	284.52	
30	284.58	285.19	284.79	284.69	286.07	286.63	285.42	284.95	284.72	284.68		284.52	
31		285.03		284.75	285.77		285.44		284.72	284.69		284.52	
Mean	284.63	285.05	285.04	284.79	285.86	286.90	286.11	285.16	284.83	284.69	284.73	284.53	
Max	285.33	286.15	286.99	285.59	287.82	288.39	288.36	285.39	284.94	284.77	285.00	284.65	288.39
Min	284.53	284.59	284.58	284.55	285.18	285.79	285.21	284.95	284.72	284.64	284.62	284.50	284.50
Annual Max Momentary Gage Height	288.49		m. (MSL.) ,		at 12.00 Hours , on Sep 14 , 2011								
Zero Gage at Bottom Elevation	283.29		m. (MSL.) ,		River Bed	282.82		m. (MSL.)					
Left Bank Elevation		290.10		m. (MSL.) ,									
Right Bank Elevation		290.10		m. (MSL.) ,		Drainage Area	1634	Square Kilometers					



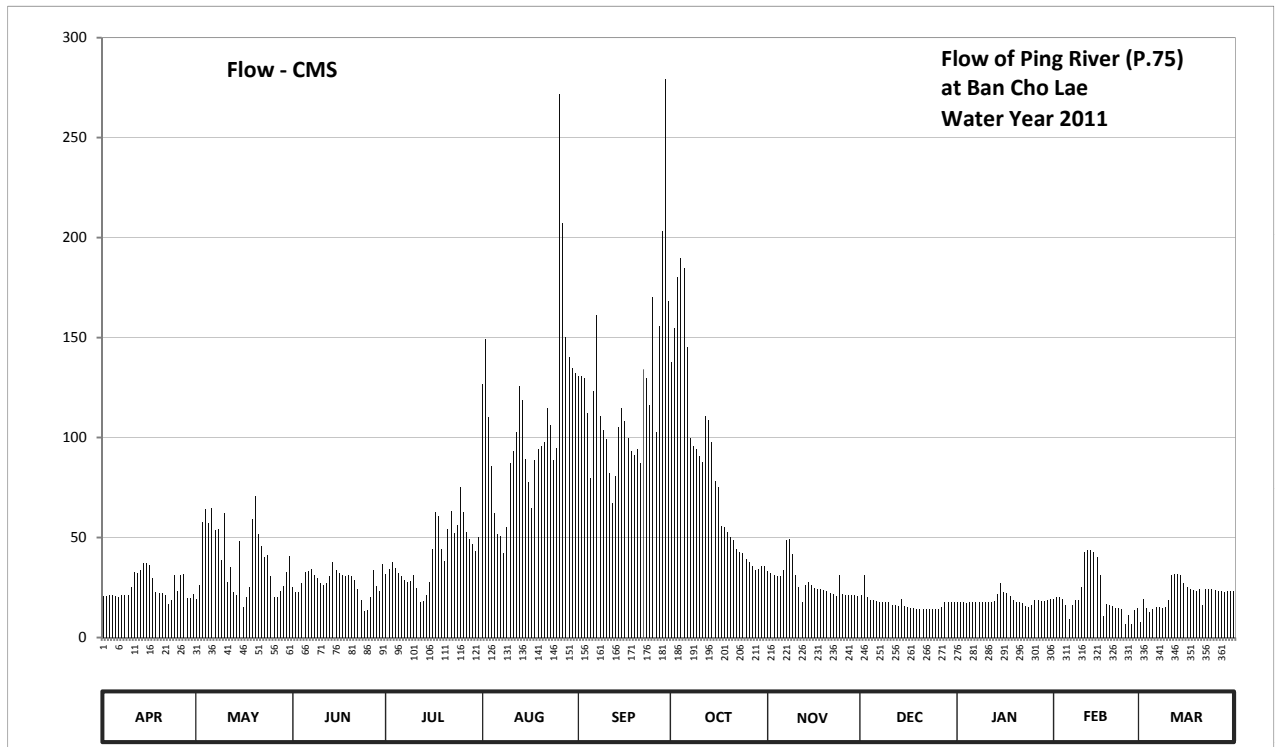
Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.85	3.60	5.40	6.60	54.50	52.50	92.80	29.75	13.40	6.00	9.69	4.20		
2	1.68	8.40	6.30	6.30	175.60	48.03	207.90	27.87	13.05	6.00	15.50	2.19		
3	1.51	10.02	8.40	7.80	102.40	63.75	221.40	27.50	12.70	6.00	15.15	2.19		
4	1.51	20.00	26.75	8.40	62.18	53.00	211.50	29.38	12.35	6.00	12.00	2.19		
5	1.51	11.67	65.32	8.10	33.48	53.00	164.40	25.25	11.67	6.00	11.67	2.02		
6	1.51	12.70	115.35	7.20	22.25	128.35	107.55	22.63	11.34	6.00	8.10	1.51		
7	1.68	18.13	46.60	5.40	23.75	186.00	86.05	22.63	11.34	6.00	5.40	1.51		
8	1.68	17.00	23.75	4.20	26.00	89.35	72.85	21.88	11.67	6.00	6.90	1.17		
9	1.68	13.40	17.75	2.36	26.38	84.40	67.43	22.63	11.67	6.60	6.90	1.34		
10	1.68	22.63	14.80	1.85	26.00	134.60	57.50	30.13	11.67	6.30	6.60	1.34		
11	1.85	43.75	13.05	2.36	31.35	118.60	46.60	28.63	11.34	6.00	6.60	1.34		
12	1.85	20.75	11.01	6.60	41.85	110.80	42.80	27.87	11.34	6.30	6.30	1.34		
13	2.02	9.69	9.69	7.50	44.70	190.85	36.02	26.38	11.34	7.80	6.30	1.34		
14	2.02	12.00	10.68	8.10	28.25	224.10	35.60	25.25	11.01	3.90	5.70	1.34		
15	2.02	19.62	9.03	18.50	25.62	166.00	33.48	22.25	11.01	4.50	5.10	2.36		
16	1.85	23.37	9.36	38.57	43.28	103.65	43.28	21.12	9.69	4.50	4.50	1.51		
17	2.02	31.35	9.69	23.00	38.15	73.95	77.25	20.00	10.68	4.50	5.40	1.34		
18	7.20	66.37	25.62	10.68	58.50	62.18	112.75	19.25	10.68	4.50	5.40	1.34		
19	13.75	55.50	19.62	8.40	58.00	78.35	64.80	18.87	10.02	4.50	5.10	1.34		
20	27.87	38.15	8.70	8.10	91.00	130.40	45.18	18.87	9.03	4.20	5.10	1.34		
21	12.35	20.75	11.01	8.70	66.90	122.50	39.47	17.75	8.40	4.20	4.80	1.34		
22	2.53	13.05	10.35	8.70	60.07	165.20	40.90	14.45	7.50	4.20	4.20	1.34		
23	3.60	8.10	9.03	7.80	43.75	121.20	36.45	14.45	6.90	4.20	3.30	1.34		
24	9.36	5.10	6.60	7.20	31.77	91.60	34.32	15.15	6.90	3.90	5.10	1.34		
25	4.50	2.53	2.36	6.90	29.75	93.40	33.48	17.37	6.90	4.50	5.40	1.34		
26	5.10	2.53	6.30	8.10	78.90	73.95	30.93	18.87	6.90	6.00	5.40	1.34		
27	3.90	4.50	21.50	6.90	84.40	140.90	26.75	18.87	6.90	5.10	5.40	1.00		
28	3.90	11.01	14.80	5.70	100.00	158.00	24.50	15.88	6.30	5.10	5.10	1.34		
29	2.53	9.36	12.70	5.70	58.00	215.10	23.37	14.10	6.30	5.10	5.40	1.34		
30	2.36	22.63	8.40	5.40	62.18	92.80	31.35	13.75	6.30	5.10		1.34		
31		16.62		7.20	47.07		32.20		6.30	5.40		1.34		
Total	128.87	574.28	559.92	268.32	1676.03	3426.51	2180.86	648.78	302.60	164.40	197.51	48.65	10176.73	CMSDAY
Mean	4.30	18.53	18.66	8.66	54.07	114.22	70.35	21.63	9.76	5.30	6.81	1.57	27.81	CMS
Max	27.87	66.37	115.35	38.57	175.60	224.10	221.40	30.13	13.40	7.80	15.50	4.20	224.10	CMS
Min	1.51	2.53	2.36	1.85	22.25	48.03	23.37	13.75	6.30	3.90	3.30	1.00	1.00	CMS
Runoff	11.13	49.62	48.38	23.18	144.81	296.05	188.43	56.06	26.15	14.20	17.07	4.20	879.27	MCM
Momentary Peak	233.10 CMS. at 288.49 m. (MSL.) at 12.00 Hours , on Sep 14 , 2011													
Runoff Yield	17.02	Liters/Second/Square KM.			Momentary Peak Yield			142.656	Liters/Second/Square KM.					



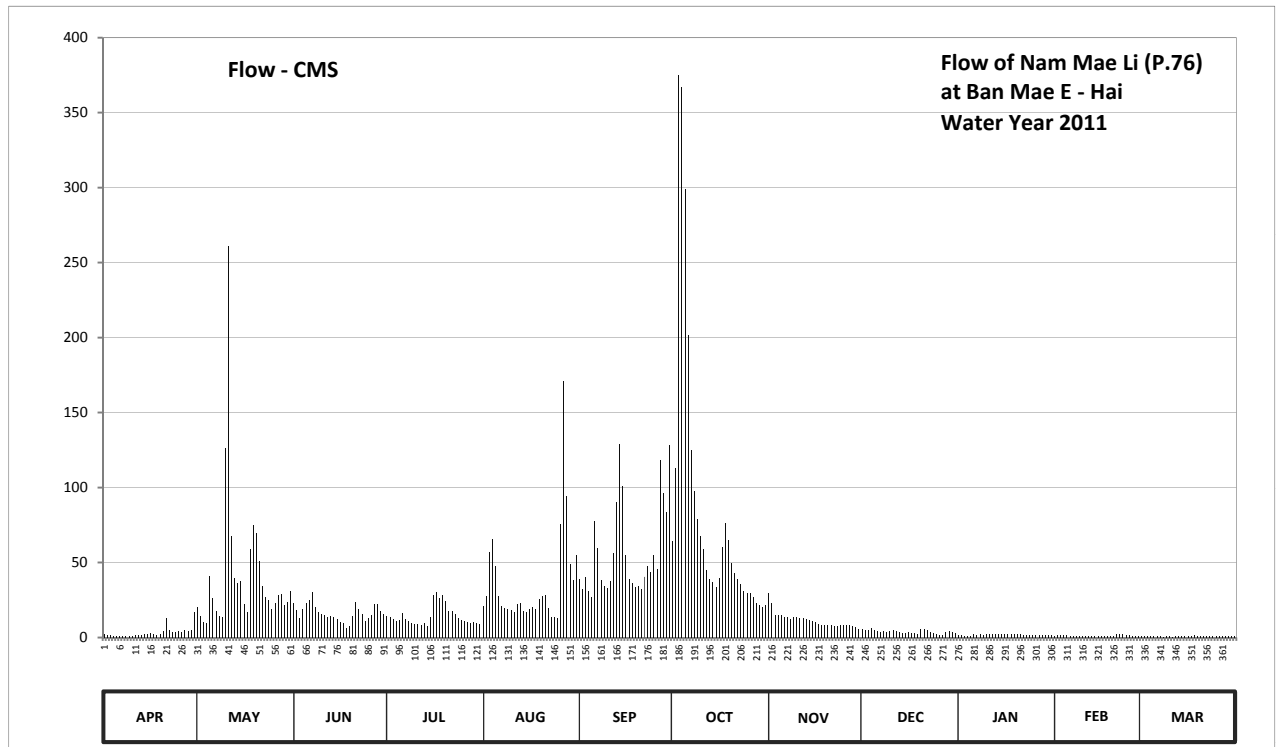
Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	25.00	85.00	170.00	179.00	300.70	646.80	1275.90	226.40	111.00	48.50	40.45	28.20		
2	23.40	124.05	138.55	153.50	939.90	574.00	1313.10	218.80	107.10	51.95	40.45	25.80		
3	21.00	177.50	113.90	143.00	1099.20	531.55	1630.20	203.00	100.60	51.95	41.60	23.40		
4	18.00	235.90	126.95	192.50	1090.10	515.10	1777.41	207.50	95.40	51.95	43.90	19.20		
5	16.80	262.50	215.00	192.50	902.10	479.85	1761.40	207.50	99.30	51.95	46.20	18.00		
6	16.80	253.00	475.15	147.50	732.00	486.90	1515.00	192.50	99.30	51.95	47.35	18.00		
7	16.80	270.10	508.05	115.35	589.60	971.20	1176.70	177.50	99.30	51.95	41.60	16.80		
8	18.60	239.70	352.95	107.10	491.60	1142.60	907.50	174.50	94.10	51.95	39.30	15.00		
9	29.00	209.00	235.90	115.35	404.65	910.20	745.50	174.50	91.50	48.50	32.20	15.60		
10	33.80	235.90	177.50	88.90	369.40	985.70	649.40	182.00	90.20	40.45	29.80	15.60		
11	42.75	579.20	179.00	119.70	388.20	907.50	594.80	209.00	87.60	38.15	28.20	15.60		
12	46.20	524.50	131.30	149.00	477.50	858.90	707.70	194.00	85.00	41.60	29.00	19.20		
13	43.90	266.30	134.20	122.60	529.20	934.50	628.60	176.00	82.50	35.40	30.60	26.60		
14	48.50	195.50	135.65	112.45	550.60	1176.70	423.45	162.50	82.50	45.05	36.20	34.60		
15	58.85	179.00	140.00	131.30	503.35	1319.30	409.35	150.50	78.75	72.50	56.55	35.40		
16	75.00	201.50	132.75	243.50	489.25	1127.10	390.55	147.50	75.00	90.20	55.40	42.75		
17	62.50	298.65	125.50	320.05	501.00	950.90	558.40	144.50	75.00	95.40	61.25	41.60		
18	53.10	503.35	118.25	302.75	505.70	799.50	691.50	137.10	70.00	90.20	53.10	40.45		
19	58.85	519.80	118.25	232.10	543.30	707.70	618.20	137.10	65.00	76.25	32.20	38.15		
20	73.75	517.45	116.80	195.50	654.60	686.10	493.95	132.75	58.85	66.25	29.80	35.40		
21	67.50	407.00	116.80	177.50	683.40	696.90	425.80	126.95	57.70	55.40	31.40	33.00		
22	62.50	268.20	119.70	177.50	667.60	769.80	362.35	121.15	54.25	55.40	31.40	32.20		
23	58.85	200.00	101.90	171.50	683.40	759.00	313.00	115.35	54.25	51.95	26.60	22.60		
24	65.00	197.00	95.40	153.50	587.00	783.30	278.15	112.45	54.25	51.95	23.40	20.40		
25	98.00	204.50	91.50	167.00	524.50	767.10	254.90	109.70	54.25	50.80	24.20	20.40		
26	122.60	188.00	108.40	206.00	799.50	742.80	235.90	111.00	54.25	41.60	34.60	19.20		
27	115.35	179.00	254.90	198.50	1037.90	802.20	234.00	119.70	54.25	30.60	37.00	19.80		
28	96.70	171.50	338.85	170.00	1108.50	1066.90	226.40	112.45	53.10	30.60	34.60	17.40		
29	83.75	168.50	296.60	144.50	1229.40	1384.40	216.90	119.70	49.65	31.40	32.20	19.80		
30	70.00	168.50	215.00	115.35	985.70	1359.60	216.90	115.35	49.65	31.40		32.20		
31		194.00		112.45	726.60		230.20		48.50	32.20		32.20		
Total	1622.85	8224.10	5584.70	5157.45	21095.45	25844.10	21263.11	4718.95	2332.10	1615.40	1090.55	794.55	99343.31	CMSDAY
Mean	54.09	265.29	186.16	166.37	680.50	861.47	685.91	157.30	75.23	52.11	37.61	25.63	271.43	CMS
Max	122.60	579.20	508.05	320.05	1229.40	1384.40	1777.41	226.40	111.00	95.40	61.25	42.75	1777.41	CMS
Min	16.80	85.00	91.50	88.90	300.70	479.85	216.90	109.70	48.50	30.60	23.40	15.00	15.00	CMS
Runoff	140.21	710.56	482.52	445.60	1822.65	2232.93	1837.13	407.72	201.49	139.57	94.22	68.65	8583.26	MCM
Momentary Peak	1819.00	CMS. at 268.30 m. (MSL.) at 18.00 Hours , on Oct 4 , 2011												
Runoff Yield	18.32	Liters/Second/Square KM.				Momentary Peak Yield		122.789	Liters/Second/Square KM.					



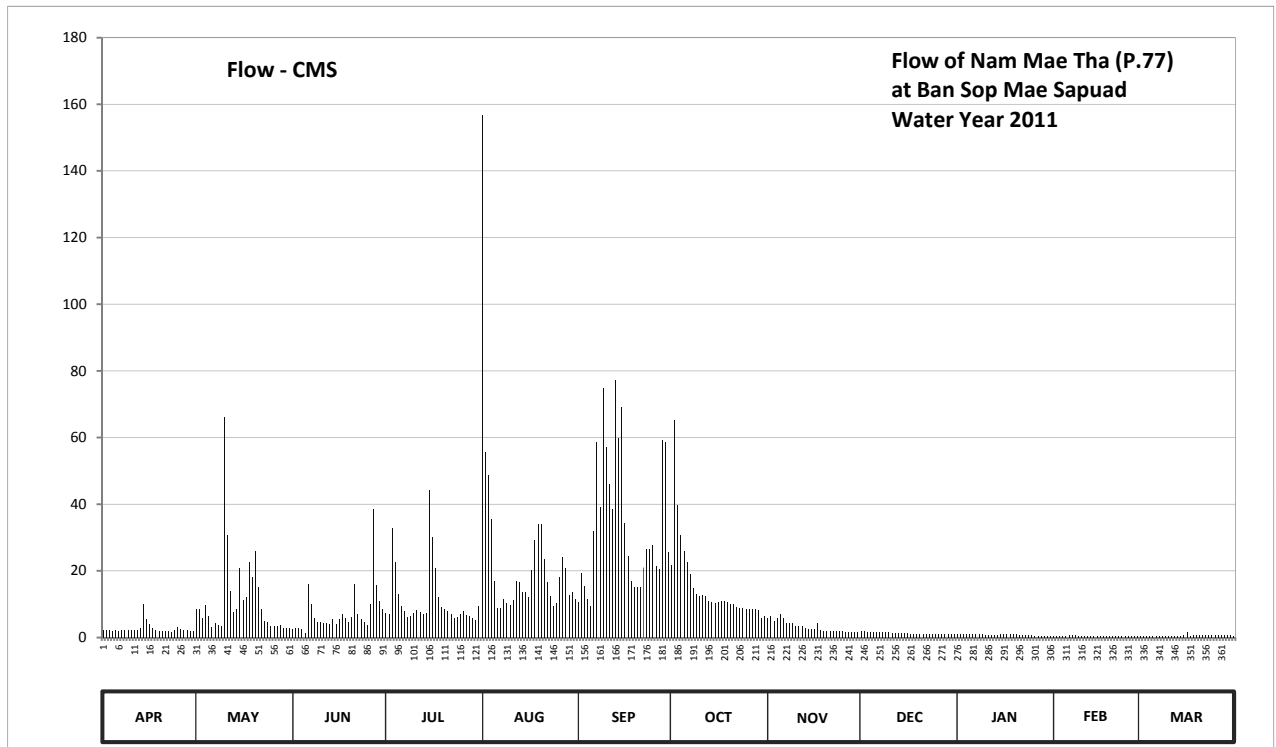
Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	20.65	19.25	25.00	31.80	126.60	130.70	137.50	33.00	21.00	17.50	19.25	7.50		
2	20.65	26.20	22.60	34.35	149.30	130.70	154.80	32.20	31.00	17.50	20.30	19.25		
3	21.00	57.80	22.60	37.50	110.20	129.85	180.00	31.40	19.95	17.50	19.95	14.70		
4	21.00	64.30	27.00	34.80	85.70	112.30	189.60	30.60	18.90	17.15	19.25	12.60		
5	20.65	57.28	32.60	32.20	62.00	79.83	184.80	30.60	18.55	17.85	16.10	14.35		
6	20.30	64.87	33.00	30.60	51.50	123.40	145.15	33.90	18.20	17.85	9.30	15.40		
7	21.00	53.60	34.35	28.60	50.55	161.40	99.70	48.65	17.85	17.85	16.45	15.40		
8	21.00	54.13	31.40	27.80	42.00	110.90	95.50	49.13	17.50	17.50	18.55	14.70		
9	21.00	38.85	29.80	28.20	55.18	103.90	94.10	41.55	17.50	17.50	18.55	15.40		
10	25.00	62.00	27.40	31.00	87.10	99.00	90.60	31.00	17.50	17.50	25.40	18.90		
11	32.60	27.80	26.20	24.60	93.40	82.13	87.80	25.00	16.45	17.50	42.95	31.00		
12	32.20	35.25	27.00	17.50	102.50	67.17	110.90	17.85	16.10	17.50	43.90	31.80		
13	33.90	22.60	30.60	18.20	125.80	80.40	108.80	26.20	15.75	18.20	43.90	31.80		
14	37.05	21.00	37.95	21.00	118.60	105.30	97.60	27.80	19.25	21.80	42.95	31.40		
15	37.05	48.17	33.90	27.80	89.20	114.60	78.10	26.20	15.75	27.00	40.20	27.00		
16	36.15	15.05	32.20	44.37	77.52	108.10	75.22	24.60	15.05	22.60	31.40	25.40		
17	29.80	20.30	31.00	62.57	64.87	99.70	55.70	24.20	14.70	22.20	10.85	24.20		
18	22.60	25.40	30.60	60.95	88.50	93.40	55.18	24.20	14.70	20.65	16.80	23.80		
19	22.20	59.37	31.00	44.37	94.10	91.30	52.55	23.80	14.35	18.55	16.45	23.40		
20	22.20	70.62	30.60	38.40	95.50	94.10	50.07	23.00	14.00	17.85	15.75	24.20		
21	21.40	51.50	28.60	54.13	97.60	87.10	48.65	22.20	14.00	17.50	14.70	16.10		
22	16.80	45.80	24.20	63.15	114.60	134.10	44.37	21.80	14.00	17.15	14.70	24.20		
23	18.90	40.20	18.90	52.03	106.00	129.85	42.95	20.65	14.00	15.75	14.35	24.20		
24	31.40	41.10	13.30	56.22	88.50	116.20	42.47	31.40	14.35	15.40	6.60	24.20		
25	23.40	30.60	13.65	75.22	94.80	170.40	39.30	21.80	14.00	16.10	11.20	23.80		
26	31.00	19.95	20.30	62.57	271.70	102.50	37.50	21.00	14.35	18.55	6.60	23.40		
27	31.80	20.30	33.90	52.55	207.40	155.90	35.70	21.40	15.05	18.55	13.65	23.40		
28	19.60	23.40	25.80	49.13	150.40	203.20	33.90	21.40	17.50	18.20	14.70	22.60		
29	19.60	25.80	23.00	46.75	140.05	279.45	34.35	21.00	17.50	18.20	13.65	23.40		
30	21.80	32.60	36.60	43.43	134.95	168.00	35.70	20.65	17.50	18.90		23.40		
31		40.65		50.07	132.40		35.70		17.50	19.25		23.00		
Total	753.70	1215.74	835.05	1281.86	3308.52	3664.88	2574.26	828.18	523.80	573.10	598.40	673.90	16831.39	CMSDAY
Mean	25.12	39.22	27.83	41.35	106.73	122.16	83.04	27.61	16.90	18.49	20.63	21.74	45.99	CMS
Max	37.05	70.62	37.95	75.22	271.70	279.45	189.60	49.13	31.00	27.00	43.90	31.80	279.45	CMS
Min	16.80	15.05	13.30	17.50	42.00	67.17	33.90	17.85	14.00	15.40	6.60	7.50	6.60	CMS
Runoff	65.12	105.04	72.15	110.75	285.86	316.65	222.42	71.56	45.26	49.52	51.70	58.23	1454.23	MCM
Momentary Peak	337.80	CMS. at 342.12 m. (MSL.) at 11.00 Hours , on Aug 26 , 2011												
Runoff Yield	14.89	Liters/Second/Square KM.			Momentary Peak Yield		109.391	Liters/Second/Square KM.						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.00	20.10	22.87	14.45	20.89	38.72	64.38	29.35	5.32	1.74	1.30	1.06	
2	1.70	14.45	18.15	13.40	27.60	32.05	112.80	23.26	5.10	1.63	1.74	0.98	
3	1.40	10.18	13.05	12.42	57.13	40.45	374.90	15.00	4.66	1.22	1.85	0.98	
4	1.06	9.66	19.32	11.02	65.63	30.70	366.80	15.00	6.50	1.14	1.63	0.90	
5	1.06	41.03	22.87	11.58	47.35	27.21	299.20	15.00	5.10	1.22	1.52	0.98	
6	1.06	26.02	24.84	16.20	27.60	77.90	201.20	14.00	4.00	1.96	1.30	0.82	
7	1.06	17.76	30.25	12.42	20.89	59.43	124.80	14.00	3.52	1.85	1.22	0.82	
8	0.99	14.45	20.50	11.02	19.71	38.15	97.90	12.24	4.44	1.96	1.22	0.66	
9	0.78	13.75	16.98	9.90	19.32	34.30	79.25	13.50	3.52	1.85	1.14	0.74	
10	1.06	126.40	15.50	8.70	18.54	32.95	67.50	14.00	4.44	2.07	1.06	0.74	
11	1.70	260.80	14.80	9.18	16.98	37.58	58.85	13.00	4.88	2.18	1.14	0.66	
12	1.40	67.50	13.75	8.22	22.47	55.98	45.05	12.62	4.00	2.18	1.14	0.82	
13	1.70	39.30	14.10	9.90	23.26	90.20	38.72	12.24	3.52	2.18	1.22	1.06	
14	2.50	36.10	13.40	7.74	17.76	128.80	37.00	11.86	3.20	2.18	0.98	1.06	
15	2.50	37.58	12.42	13.40	16.98	100.80	33.40	11.10	3.04	2.29	1.06	0.98	
16	2.65	22.47	10.46	28.45	19.32	54.83	39.88	10.34	3.68	2.07	1.06	1.06	
17	2.10	16.98	9.90	30.25	20.10	38.72	60.63	9.20	3.04	2.29	1.06	1.06	
18	1.90	58.85	6.45	26.42	18.93	36.55	76.55	8.00	3.04	2.07	0.90	1.41	
19	2.10	75.20	7.50	28.45	25.63	33.85	65.00	8.30	2.07	2.07	0.98	1.30	
20	4.38	70.00	14.45	24.05	27.60	34.30	49.65	8.00	5.32	2.07	1.06	1.22	
21	13.05	50.80	23.65	17.37	28.45	32.50	43.33	8.30	5.54	1.96	2.18	1.22	
22	5.23	34.30	19.32	17.76	19.71	40.45	38.72	7.70	4.66	1.85	2.07	1.06	
23	3.40	26.82	15.50	15.50	13.75	47.93	35.65	7.40	3.84	1.85	1.96	0.98	
24	3.70	24.84	10.74	12.70	13.40	43.90	31.15	8.00	3.04	1.74	1.63	0.98	
25	4.04	18.93	13.05	11.86	13.05	54.83	29.80	8.30	2.18	1.63	1.52	0.90	
26	3.87	23.26	14.80	11.02	75.87	45.62	29.35	8.00	1.85	1.52	1.22	0.74	
27	4.72	28.45	22.47	10.18	170.90	118.40	27.21	8.00	1.63	1.52	1.06	0.82	
28	4.04	28.90	22.47	9.90	94.40	96.50	22.87	7.40	3.84	1.52	1.14	0.82	
29	5.06	21.68	17.76	10.18	49.07	83.98	21.28	6.80	4.44	1.52	1.06	0.82	
30	16.98	23.65	15.50	9.42	38.15	128.00	20.10	5.54	3.52	1.52		0.74	
31		31.15		8.94	54.83		21.68		3.20	1.52		0.74	
Total	99.19	1291.36	496.82	442.00	1105.27	1715.58	2614.60	345.45	120.13	56.37	38.42	29.13	8354.32 CMSDAY
Mean	3.31	41.66	16.56	14.26	35.65	57.19	84.34	11.51	3.88	1.82	1.32	0.94	22.83 CMS
Max	16.98	260.80	30.25	30.25	170.90	128.80	374.90	29.35	6.50	2.29	2.18	1.41	374.90 CMS
Min	0.78	9.66	6.45	7.74	13.05	27.21	20.10	5.54	1.63	1.14	0.90	0.66	0.66 CMS
Runoff	8.57	111.57	42.93	38.19	95.50	148.23	225.90	29.85	10.38	4.87	3.32	2.52	721.81 MCM
Momentary Peak	558.75 CMS. at 370.22 m. (MSL.) at 24.00 Hours , on May 10 , 2011												
Runoff Yield	14.78	Liters/Second/Square KM.			Momentary Peak Yield			361.885	Liters/Second/Square KM.				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.12	8.38	2.60	7.30	156.80	10.60	21.85	5.68	1.90	0.95	0.38	0.42		
2	2.12	8.38	2.72	7.07	55.70	19.30	65.20	6.40	1.90	0.95	0.30	0.30		
3	2.12	5.69	2.96	32.88	48.70	15.45	39.88	4.96	1.72	0.95	0.42	0.42		
4	2.00	9.73	2.48	22.75	35.50	11.50	30.77	5.68	1.54	0.95	0.46	0.42		
5	2.12	6.38	1.30	13.00	16.90	9.46	26.05	7.12	1.54	0.95	0.55	0.42		
6	2.00	3.08	16.15	9.46	8.92	31.83	22.75	5.68	1.72	0.90	0.80	0.42		
7	2.24	4.28	10.00	7.84	8.92	58.50	18.90	4.24	1.54	0.90	0.75	0.46		
8	2.12	3.74	5.69	6.15	11.50	39.25	14.75	4.24	1.54	0.90	0.70	0.42		
9	2.12	3.38	4.64	6.38	10.30	74.80	13.00	4.24	1.54	0.90	0.50	0.42		
10	2.12	66.00	4.64	7.30	9.73	57.10	12.40	3.52	1.54	0.85	0.50	0.42		
11	2.12	30.77	4.28	8.11	11.20	46.13	12.70	3.52	1.18	0.80	0.50	0.42		
12	2.12	14.05	4.28	7.57	16.90	38.63	12.40	3.52	1.36	0.75	0.50	0.46		
13	2.84	7.57	4.10	7.07	16.50	77.20	10.90	2.80	1.18	0.75	0.38	0.46		
14	10.00	8.38	5.46	7.30	13.70	59.90	10.60	2.62	1.18	0.80	0.50	0.50		
15	5.46	20.95	4.10	44.25	13.70	69.20	10.30	2.44	1.18	0.90	0.50	0.60		
16	4.10	11.20	5.46	30.25	12.10	34.45	10.60	2.44	1.18	0.95	0.50	1.54		
17	2.96	12.10	7.07	20.95	20.10	24.55	10.90	4.24	1.00	0.95	0.46	0.46		
18	2.12	22.75	5.69	12.10	29.20	16.90	10.90	2.08	1.00	0.95	0.46	0.60		
19	2.00	18.10	4.64	9.19	33.92	15.10	10.60	1.90	0.95	0.95	0.46	0.85		
20	1.90	26.05	6.15	8.65	33.92	15.10	10.00	1.90	1.00	0.95	0.46	0.75		
21	1.90	15.10	16.15	7.84	23.65	15.10	10.00	1.90	1.00	0.85	0.38	0.80		
22	1.90	8.65	7.07	7.07	16.50	20.95	9.19	1.90	1.00	0.80	0.50	0.85		
23	1.70	4.82	5.46	5.92	12.40	26.58	8.92	1.90	1.00	0.80	0.50	0.80		
24	2.12	4.64	4.64	6.15	9.46	26.58	8.92	1.90	1.00	0.75	0.50	0.80		
25	3.08	3.56	3.74	7.07	10.30	27.62	8.65	1.90	1.00	0.65	0.46	0.75		
26	2.60	3.56	10.00	7.84	18.10	21.40	8.38	1.72	1.00	0.34	0.46	0.70		
27	2.36	3.56	38.63	6.61	24.10	20.50	8.38	1.72	0.95	0.38	0.46	0.75		
28	2.12	3.74	15.80	6.38	20.95	59.20	8.38	1.72	1.00	0.34	0.46	0.65		
29	1.80	2.84	10.90	5.92	12.70	58.50	8.11	1.72	1.00	0.34	0.46	0.65		
30	1.80	2.84	8.38	5.23	13.70	25.52	5.68	1.72	1.00	0.38		0.60		
31		2.84		9.46	11.50		6.40		0.95	0.38		0.55		
Total	78.08	347.11	225.18	351.06	737.57	1026.90	466.46	97.32	38.59	23.96	14.26	18.66	3425.15	CMSDAY
Mean	2.60	11.20	7.51	11.32	23.79	34.23	15.05	3.24	1.24	0.77	0.49	0.60	9.36	CMS
Max	10.00	66.00	38.63	44.25	156.80	77.20	65.20	7.12	1.90	0.95	0.80	1.54	156.80	CMS
Min	1.70	2.84	1.30	5.23	8.92	9.46	5.68	1.72	0.95	0.34	0.30	0.30	0.30	CMS
Runoff	6.75	29.99	19.46	30.33	63.73	88.72	40.30	8.41	3.33	2.07	1.23	1.61	295.93	MCM
Momentary Peak	CMS. at 369.15 m. (MSL.) at 16.00 Hours , on Aug 1 , 2011													
Runoff Yield	17.02	Liters/Second/Square KM.			Momentary Peak Yield		545.455	Liters/Second/Square KM.						

WATER YEAR : 2011

PING RIVER BASIN

Khlong Khlung at Ban Sam Ruean , Kamphaeng Phet (P.78)

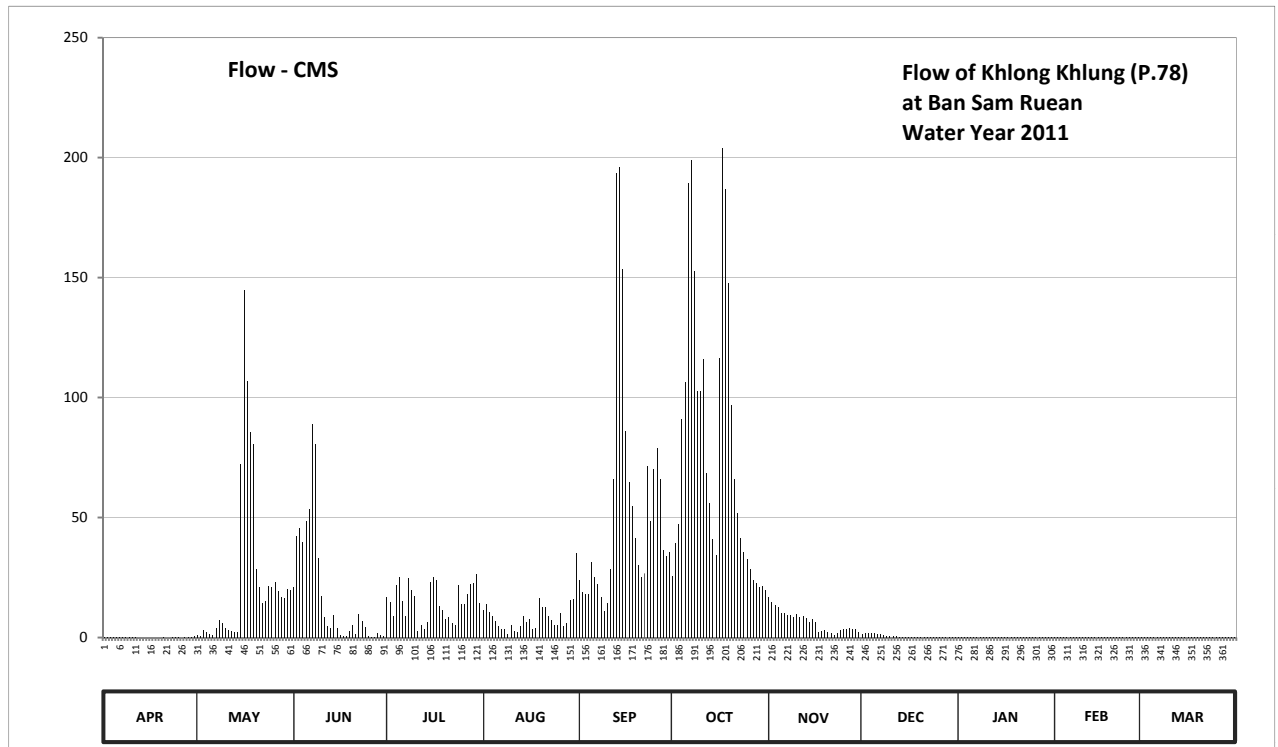
Lat 16 - 11 - 03 N Long 99 - 36 - 09 E

Location : on left bank at Ban Sam Ruean.

	Ban	Sam Ruean	Amphoe	Khlong Khlung	Changwat	Tak
Drainage Area	1,119	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+65.177	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+73.494 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2005 to date					
Rating Operation						
Period of Rating	2005 to date					
Rated by Flot	-					
Rated by Current Meter	2005 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +71.400 m. (MSL.), records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.32	66.57	67.85	67.65	67.37	67.98	68.05	67.64	66.64	66.38	66.37	66.36	
2	66.31	66.56	68.69	67.53	67.49	67.74	68.59	67.54	66.70	66.38	66.37	66.36	
3	66.30	66.80	68.80	67.25	67.34	67.70	68.85	67.47	66.69	66.38	66.37	66.36	
4	66.29	66.73	68.60	67.88	67.25	67.70	70.04	67.43	66.68	66.38	66.37	66.36	
5	66.28	66.65	68.89	68.04	67.10	68.29	70.35	67.31	66.67	66.38	66.37	66.36	
6	66.27	66.61	69.05	67.57	66.96	68.04	71.60	67.32	66.66	66.38	66.37	66.36	
7	66.26	66.89	70.00	67.24	66.87	67.90	71.72	67.27	66.64	66.38	66.37	66.36	
8	66.25	67.14	69.81	68.02	66.86	67.64	71.11	67.26	66.57	66.38	66.37	66.36	
9	66.24	67.05	68.35	67.78	66.65	67.35	70.28	67.22	66.51	66.38	66.37	66.36	
10	66.23	66.91	67.67	67.67	67.01	67.52	70.28	67.28	66.48	66.38	66.37	66.36	
11	66.22	66.81	67.21	66.77	66.76	68.17	70.54	67.21	66.48	66.38	66.37	66.36	
12	66.21	66.75	66.95	67.00	66.71	69.43	69.50	67.24	66.47	66.38	66.37	66.36	
13	66.20	66.74	66.89	66.84	66.96	71.65	69.13	67.18	66.46	66.38	66.37	66.36	
14	66.19	66.71	67.27	67.09	67.25	71.68	68.64	67.07	66.45	66.38	66.37	66.36	
15	66.18	69.61	66.90	67.94	67.08	71.12	68.40	67.16	66.44	66.38	66.37	66.36	
16	66.17	71.00	66.59	68.03	67.17	69.93	70.55	67.07	66.44	66.38	66.37	66.36	
17	66.17	70.36	66.56	67.97	66.87	69.40	71.78	66.73	66.43	66.38	66.37	66.36	
18	66.16	69.92	66.54	67.45	66.88	69.09	71.57	66.78	66.42	66.38	66.37	66.36	
19	66.16	69.81	66.78	67.37	67.62	68.65	71.04	66.80	66.42	66.38	66.36	66.36	
20	66.37	68.18	67.01	67.16	67.43	68.23	70.16	66.73	66.41	66.38	66.36	66.36	
21	66.19	67.85	66.64	67.21	67.44	68.04	69.43	66.69	66.41	66.38	66.36	66.36	
22	66.16	67.52	67.28	67.04	67.25	68.10	69.01	66.60	66.40	66.38	66.36	66.36	
23	66.28	67.57	67.11	66.99	67.13	69.58	68.66	66.68	66.39	66.38	66.36	66.36	
24	66.30	67.87	66.94	67.89	67.00	68.89	68.45	66.80	66.39	66.38	66.36	66.36	
25	66.25	67.84	66.50	67.50	67.00	69.55	68.33	66.84	66.38	66.38	66.36	66.36	
26	66.21	67.93	66.42	67.50	67.30	69.77	68.18	66.87	66.38	66.38	66.36	66.36	
27	66.22	67.76	66.37	67.71	66.97	69.44	67.98	66.88	66.38	66.38	66.36	66.36	
28	66.42	67.64	66.67	67.91	67.05	68.48	67.92	66.84	66.38	66.38	66.36	66.36	
29	66.37	67.63	66.60	67.92	67.58	68.39	67.84	66.85	66.38	66.38	66.36	66.36	
30	66.54	67.81	66.48	68.09	67.60	68.45	67.87	66.72	66.38	66.38	66.36	66.36	
31		67.78		67.51	68.44		67.79		66.38	66.38		66.36	
Mean	66.26	67.71	67.45	67.53	67.17	68.80	69.47	67.05	66.48	66.38	66.37	66.36	
Max	66.54	71.00	70.00	68.09	68.44	71.68	71.78	67.64	66.70	66.38	66.37	66.36	71.78
Min	66.16	66.56	66.37	66.77	66.65	67.35	67.79	66.60	66.38	66.38	66.36	66.36	66.16
Annual Max Momentary Gage Height		71.88		m. (MSL.) ,		at 18.00 Hours , on Sep 13 , 2011							
Zero Gage at Bottom Elevation		65.18		m. (MSL.) ,		River Bed	65.98	m. (MSL)					
Left Bank Elevation			71.39	m. (MSL.) ,									
Right Bank Elevation		72.53		m. (MSL.) ,		Drainage Area	1119	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.13	0.85	21.12	17.00	11.40	24.05	25.63	16.80	1.40	0.22	0.21	0.19	
2	0.11	0.80	42.45	14.60	13.80	18.80	39.47	14.80	2.00	0.22	0.21	0.19	
3	0.10	3.00	45.75	9.13	10.80	18.00	47.25	13.40	1.90	0.22	0.21	0.19	
4	0.09	2.30	39.75	21.80	9.13	18.00	90.90	12.60	1.80	0.22	0.21	0.19	
5	0.08	1.50	48.45	25.40	6.75	31.50	106.25	10.20	1.70	0.22	0.21	0.19	
6	0.07	1.10	53.38	15.40	4.75	25.40	189.50	10.40	1.60	0.22	0.21	0.19	
7	0.06	3.90	89.00	8.95	3.70	22.25	199.10	9.47	1.40	0.22	0.21	0.19	
8	0.05	7.35	80.45	24.95	3.60	16.80	152.72	9.30	0.85	0.22	0.21	0.19	
9	0.04	6.00	33.00	19.60	1.50	11.00	102.75	8.60	0.55	0.22	0.21	0.19	
10	0.03	4.13	17.40	17.40	5.40	14.40	102.75	9.65	0.45	0.22	0.21	0.19	
11	0.02	3.10	8.43	2.70	2.60	28.50	115.85	8.43	0.45	0.22	0.21	0.19	
12	0.01	2.50	4.62	5.25	2.10	65.80	68.25	8.95	0.43	0.22	0.21	0.19	
13	0.00	2.40	3.90	3.40	4.75	193.50	55.97	7.95	0.40	0.22	0.21	0.19	
14	0.00	2.10	9.47	6.60	9.13	195.90	40.95	6.30	0.37	0.22	0.21	0.19	
15	0.00	72.40	4.00	23.15	6.45	153.45	34.25	7.65	0.35	0.22	0.21	0.19	
16	0.00	144.75	0.95	25.17	7.80	85.85	116.38	6.30	0.35	0.22	0.21	0.19	
17	0.00	106.75	0.80	23.83	3.70	64.75	203.90	2.30	0.32	0.22	0.21	0.19	
18	0.00	85.40	0.70	13.00	3.80	54.67	187.10	2.80	0.30	0.22	0.21	0.19	
19	0.00	80.45	2.80	11.40	16.40	41.25	147.65	3.00	0.30	0.22	0.19	0.19	
20	0.21	28.75	5.40	7.65	12.60	30.00	96.75	2.30	0.28	0.22	0.19	0.19	
21	0.00	21.12	1.40	8.43	12.80	25.40	65.80	1.90	0.28	0.22	0.19	0.19	
22	0.00	14.40	9.65	5.85	9.13	26.75	52.08	1.00	0.25	0.22	0.19	0.19	
23	0.08	15.40	6.90	5.12	7.20	71.25	41.55	1.80	0.23	0.22	0.19	0.19	
24	0.10	21.58	4.50	22.02	5.25	48.45	35.62	3.00	0.23	0.22	0.19	0.19	
25	0.05	20.90	0.50	14.00	5.25	70.13	32.50	3.40	0.22	0.22	0.19	0.19	
26	0.01	22.92	0.30	14.00	10.00	78.80	28.75	3.70	0.22	0.22	0.19	0.19	
27	0.02	19.20	0.21	18.20	4.88	66.15	24.05	3.80	0.22	0.22	0.19	0.19	
28	0.30	16.80	1.70	22.48	6.00	36.45	22.70	3.40	0.22	0.22	0.19	0.19	
29	0.21	16.60	1.00	22.70	15.60	34.00	20.90	3.50	0.22	0.22	0.19	0.19	
30	0.70	20.22	0.45	26.52	16.00	35.62	21.58	2.20	0.22	0.22		0.19	
31		19.60		14.20	35.35		19.80		0.22	0.22		0.19	
Total	2.47	768.27	538.43	469.90	267.62	1606.87	2488.70	198.90	19.73	6.82	5.87	5.89	6379.47 CMSDAY
Mean	0.08	24.78	17.95	15.16	8.63	53.56	80.28	6.63	0.64	0.22	0.20	0.19	17.43 CMS
Max	0.70	144.75	89.00	26.52	35.35	195.90	203.90	16.80	2.00	0.22	0.21	0.19	203.90 CMS
Min	0.00	0.80	0.21	2.70	1.50	11.00	19.80	1.00	0.22	0.22	0.19	0.19	0.00 CMS
Runoff	0.21	66.38	46.52	40.60	23.12	138.83	215.02	17.19	1.71	0.59	0.51	0.51	551.19 MCM
Momentary Peak	212.10 CMS. at 71.88 m. (MSL.) at 18.00 Hours , on Sep 13 , 2011												
Runoff Yield	15.58	Liters/Second/Square KM.		Momentary Peak Yield			189.544	Liters/Second/Square KM.					

WATER YEAR : 2011

PING RIVER BASIN

Nam Mae Kuang at Ban Mae Wan , Chiang Mai (P.79)

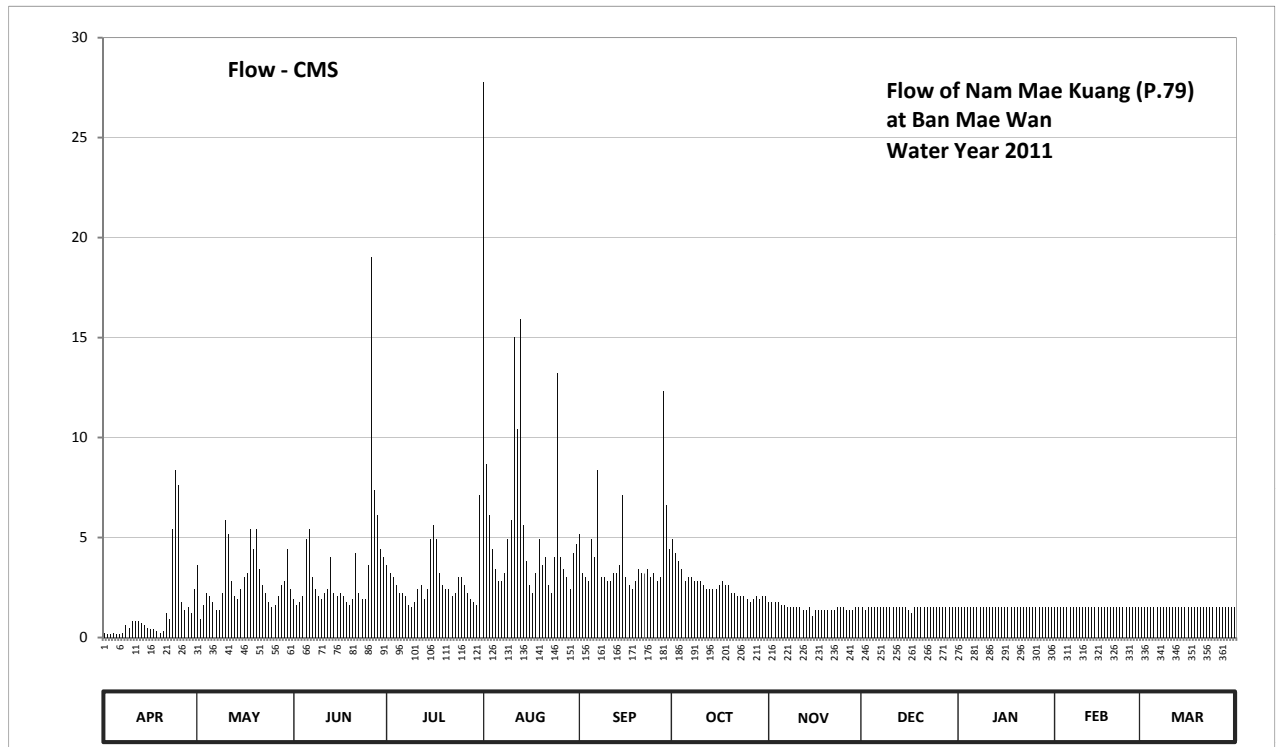
Lat 18 - 57 - 45 N Long 99 - 14 - 31 E

Location : on left bank at the bridge on road.

	Ban	Mae Wan	Amphoe	Doi Saket	Changwat	Chiang Mai
Drainage Area	136	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+442.300	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the approach of the bridge.				Elevation	+447.326 m. (MSL.)
Gage Reading Frequency	Recording.					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2001 to date					
Rating Operation						
Period of Rating	2001 to date					
Rated by Flot	-					
Rated by Current Meter	2001 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 36 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	442.63	442.87	442.78	442.87	443.69	442.94	442.93	442.77	442.75	442.75	442.75	442.75	
2	442.62	442.71	442.76	442.85	443.08	442.85	442.90	442.77	442.74	442.75	442.75	442.75	
3	442.62	442.76	442.77	442.84	442.98	442.84	442.88	442.77	442.75	442.75	442.75	442.75	
4	442.63	442.80	442.79	442.82	442.91	442.83	442.86	442.77	442.75	442.75	442.75	442.75	
5	442.62	442.79	442.93	442.80	442.86	442.93	442.83	442.76	442.75	442.75	442.75	442.75	
6	442.62	442.77	442.95	442.80	442.83	442.89	442.84	442.76	442.75	442.75	442.75	442.75	
7	442.63	442.74	442.84	442.79	442.83	443.07	442.84	442.75	442.75	442.75	442.75	442.75	
8	442.68	442.74	442.81	442.76	442.85	442.84	442.83	442.75	442.75	442.75	442.75	442.75	
9	442.66	442.80	442.79	442.75	442.93	442.84	442.83	442.75	442.75	442.75	442.75	442.75	
10	442.70	442.97	442.78	442.77	442.97	442.83	442.83	442.75	442.75	442.75	442.75	442.75	
11	442.70	442.94	442.80	442.81	443.31	442.83	442.82	442.75	442.75	442.75	442.75	442.75	
12	442.70	442.83	442.81	442.82	443.15	442.85	442.81	442.74	442.75	442.75	442.75	442.75	
13	442.69	442.79	442.89	442.78	443.34	442.85	442.81	442.74	442.75	442.75	442.75	442.75	
14	442.68	442.78	442.80	442.81	442.96	442.87	442.81	442.75	442.75	442.75	442.75	442.75	
15	442.66	442.81	442.79	442.93	442.88	443.02	442.81	442.72	442.75	442.75	442.75	442.75	
16	442.65	442.84	442.80	442.96	442.82	442.84	442.82	442.74	442.74	442.75	442.75	442.75	
17	442.65	442.85	442.79	442.93	442.80	442.82	442.83	442.74	442.73	442.75	442.75	442.75	
18	442.64	442.95	442.77	442.85	442.85	442.81	442.82	442.74	442.75	442.75	442.75	442.75	
19	442.63	442.91	442.76	442.82	442.93	442.83	442.82	442.74	442.75	442.75	442.75	442.75	
20	442.64	442.95	442.78	442.81	442.87	442.86	442.80	442.74	442.75	442.75	442.75	442.75	
21	442.73	442.86	442.90	442.81	442.89	442.85	442.80	442.74	442.75	442.75	442.75	442.75	
22	442.71	442.82	442.80	442.79	442.82	442.85	442.79	442.74	442.75	442.75	442.75	442.75	
23	442.95	442.80	442.78	442.80	442.80	442.86	442.79	442.75	442.75	442.75	442.75	442.75	
24	443.07	442.77	442.78	442.84	442.89	442.84	442.79	442.75	442.75	442.75	442.75	442.75	
25	443.04	442.75	442.87	442.84	443.25	442.85	442.78	442.75	442.75	442.75	442.75	442.75	
26	442.77	442.76	443.44	442.82	442.89	442.83	442.77	442.74	442.75	442.75	442.75	442.75	
27	442.74	442.79	443.03	442.80	442.86	442.84	442.78	442.74	442.75	442.75	442.75	442.75	
28	442.75	442.82	442.98	442.78	442.84	443.22	442.79	442.74	442.75	442.75	442.75	442.75	
29	442.73	442.83	442.91	442.77	442.81	443.00	442.78	442.75	442.75	442.75	442.75	442.75	
30	442.81	442.91	442.89	442.76	442.90	442.91	442.79	442.75	442.75	442.75	442.75	442.75	
31		442.81		443.02	442.92		442.79		442.75	442.75	442.75	442.75	
Mean	442.71	442.82	442.85	442.83	442.96	442.88	442.82	442.75	442.75	442.75	442.75	442.75	
Max	443.07	442.97	443.44	443.02	443.69	443.22	442.93	442.77	442.75	442.75	442.75	442.75	443.69
Min	442.62	442.71	442.76	442.75	442.80	442.81	442.77	442.72	442.73	442.75	442.75	442.75	442.62
Annual Max Momentary Gage Height	444.75		m. (MSL.) , at 07.00 Hours , on Aug 1 , 2011										
Zero Gage at Bottom Elevation	442.30		m. (MSL.) , River Bed 442.30 m. (MSL)										
Left Bank Elevation	446.86		m. (MSL.) ,										
Right Bank Elevation	446.08		m. (MSL.) , Drainage Area 136 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	3.60	1.92	3.60	27.77	5.16	4.92	1.78	1.50	1.50	1.50	1.50	
2	0.16	0.94	1.64	3.20	8.64	3.20	4.20	1.78	1.36	1.50	1.50	1.50	
3	0.16	1.64	1.78	3.00	6.12	3.00	3.80	1.78	1.50	1.50	1.50	1.50	
4	0.24	2.20	2.06	2.60	4.44	2.80	3.40	1.78	1.50	1.50	1.50	1.50	
5	0.16	2.06	4.92	2.20	3.40	4.92	2.80	1.64	1.50	1.50	1.50	1.50	
6	0.16	1.78	5.40	2.20	2.80	4.00	3.00	1.64	1.50	1.50	1.50	1.50	
7	0.24	1.36	3.00	2.06	2.80	8.39	3.00	1.50	1.50	1.50	1.50	1.50	
8	0.64	1.36	2.40	1.64	3.20	3.00	2.80	1.50	1.50	1.50	1.50	1.50	
9	0.48	2.20	2.06	1.50	4.92	3.00	2.80	1.50	1.50	1.50	1.50	1.50	
10	0.80	5.88	1.92	1.78	5.88	2.80	2.80	1.50	1.50	1.50	1.50	1.50	
11	0.80	5.16	2.20	2.40	15.00	2.80	2.60	1.50	1.50	1.50	1.50	1.50	
12	0.80	2.80	2.40	2.60	10.42	3.20	2.40	1.36	1.50	1.50	1.50	1.50	
13	0.72	2.06	4.00	1.92	15.90	3.20	2.40	1.36	1.50	1.50	1.50	1.50	
14	0.64	1.92	2.20	2.40	5.64	3.60	2.40	1.50	1.50	1.50	1.50	1.50	
15	0.48	2.40	2.06	4.92	3.80	7.11	2.40	1.08	1.50	1.50	1.50	1.50	
16	0.40	3.00	2.20	5.64	2.60	3.00	2.60	1.36	1.36	1.50	1.50	1.50	
17	0.40	3.20	2.06	4.92	2.20	2.60	2.80	1.36	1.22	1.50	1.50	1.50	
18	0.32	5.40	1.78	3.20	3.20	2.40	2.60	1.36	1.50	1.50	1.50	1.50	
19	0.24	4.44	1.64	2.60	4.92	2.80	2.60	1.36	1.50	1.50	1.50	1.50	
20	0.32	5.40	1.92	2.40	3.60	3.40	2.20	1.36	1.50	1.50	1.50	1.50	
21	1.22	3.40	4.20	2.40	4.00	3.20	2.20	1.36	1.50	1.50	1.50	1.50	
22	0.94	2.60	2.20	2.06	2.60	3.20	2.06	1.36	1.50	1.50	1.50	1.50	
23	5.40	2.20	1.92	2.20	2.20	3.40	2.06	1.50	1.50	1.50	1.50	1.50	
24	8.39	1.78	1.92	3.00	4.00	3.00	2.06	1.50	1.50	1.50	1.50	1.50	
25	7.62	1.50	3.60	3.00	13.20	3.20	1.92	1.50	1.50	1.50	1.50	1.50	
26	1.78	1.64	19.02	2.60	4.00	2.80	1.78	1.36	1.50	1.50	1.50	1.50	
27	1.36	2.06	7.36	2.20	3.40	3.00	1.92	1.36	1.50	1.50	1.50	1.50	
28	1.50	2.60	6.12	1.92	3.00	12.30	2.06	1.36	1.50	1.50	1.50	1.50	
29	1.22	2.80	4.44	1.78	2.40	6.60	1.92	1.50	1.50	1.50	1.50	1.50	
30	2.40	4.44	4.00	1.64	4.20	4.44	2.06	1.50	1.50	1.50		1.50	
31		2.40		7.11	4.68		2.06		1.50	1.50		1.50	
Total	40.23	86.22	104.34	86.69	184.93	119.52	80.62	44.30	45.94	46.50	43.50	46.50	929.29 CMSDAY
Mean	1.34	2.78	3.48	2.80	5.97	3.98	2.60	1.48	1.48	1.50	1.50	1.50	2.54 CMS
Max	8.39	5.88	19.02	7.11	27.77	12.30	4.92	1.78	1.50	1.50	1.50	1.50	27.77 CMS
Min	0.16	0.94	1.64	1.50	2.20	2.40	1.78	1.08	1.22	1.50	1.50	1.50	0.16 CMS
Runoff	3.48	7.45	9.02	7.49	15.98	10.33	6.97	3.83	3.97	4.02	3.76	4.02	80.29 MCM
Momentary Peak	82.00 CMS. at 444.75 m. (MSL.) at 07.00 Hours , on Aug 1 , 2011												
Runoff Yield	18.67	Liters/Second/Square KM.			Momentary Peak Yield			602.941	Liters/Second/Square KM.				

WATER YEAR : 2011

PING RIVER BASIN

Nam Mae Lai at Ban Pong Din , Chiang Mai (P.80)

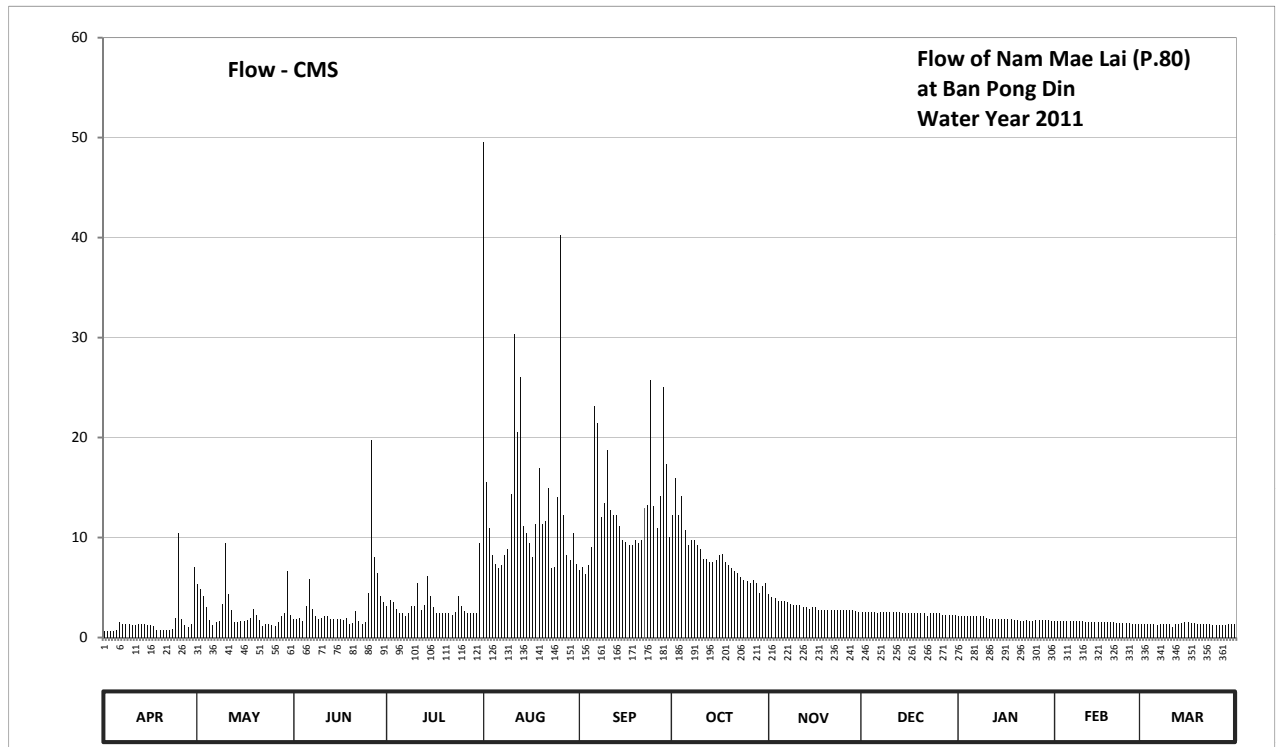
Lat 18 - 54 - 49 N Long 99 - 14 - 17 E

Location : on left bank at the bridge on road.

	Ban	Pong Din	Amphoe	Doi Saket	Changwat	Chiang Mai
Drainage Area	129	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+455.096	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the approach of the bridge.				Elevation	+462.021 m. (MSL.)
Gage Reading Frequency	Recording.					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2001 to date					
Rating Operation						
Period of Rating	2001 to date					
Rated by Flot	-					
Rated by Current Meter	2001 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 36 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	455.65	456.07	455.80	455.91	457.93	456.17	456.49	456.00	455.86	455.83	455.78	455.75	
2	455.65	456.04	455.80	455.96	456.67	456.19	456.69	455.98	455.86	455.83	455.78	455.75	
3	455.65	455.99	455.81	455.94	456.42	456.14	456.49	455.97	455.86	455.83	455.78	455.75	
4	455.65	455.90	455.78	455.89	456.26	456.20	456.60	455.95	455.86	455.83	455.78	455.75	
5	455.66	455.79	455.91	455.85	456.21	456.31	456.41	455.95	455.86	455.83	455.78	455.75	
6	455.77	455.74	456.11	455.85	456.18	457.02	456.32	455.95	455.85	455.83	455.78	455.74	
7	455.75	455.77	455.89	455.83	456.20	456.95	456.35	455.94	455.86	455.83	455.78	455.75	
8	455.75	455.78	455.83	455.85	456.26	456.48	456.35	455.93	455.86	455.83	455.78	455.75	
9	455.75	455.93	455.80	455.91	456.30	456.56	456.32	455.92	455.86	455.83	455.78	455.75	
10	455.74	456.33	455.81	455.91	456.61	456.83	456.30	455.92	455.86	455.81	455.78	455.75	
11	455.74	456.00	455.83	456.08	457.31	456.52	456.24	455.92	455.86	455.80	455.77	455.72	
12	455.75	455.88	455.83	455.88	456.91	456.49	456.24	455.90	455.86	455.80	455.77	455.75	
13	455.75	455.77	455.80	455.92	457.14	456.49	456.22	455.90	455.86	455.80	455.77	455.75	
14	455.75	455.77	455.80	456.13	456.43	456.43	456.22	455.89	455.85	455.80	455.77	455.76	
15	455.74	455.78	455.80	455.99	456.39	456.35	456.23	455.90	455.85	455.80	455.77	455.77	
16	455.74	455.78	455.80	455.90	456.33	456.34	456.26	455.90	455.85	455.80	455.77	455.77	
17	455.73	455.79	455.79	455.85	456.25	456.32	456.27	455.88	455.85	455.80	455.77	455.76	
18	455.66	455.81	455.81	455.85	456.44	456.32	456.22	455.88	455.85	455.80	455.77	455.76	
19	455.66	455.89	455.75	455.85	456.74	456.35	456.20	455.88	455.85	455.79	455.77	455.75	
20	455.66	455.84	455.76	455.85	456.44	456.33	456.18	455.88	455.85	455.79	455.77	455.75	
21	455.66	455.79	455.87	455.85	456.46	456.35	456.16	455.88	455.85	455.78	455.76	455.75	
22	455.66	455.73	455.78	455.84	456.64	456.53	456.15	455.88	455.83	455.78	455.76	455.75	
23	455.68	455.75	455.75	455.86	456.18	456.55	456.12	455.88	455.85	455.79	455.76	455.75	
24	455.81	455.75	455.77	455.99	456.19	457.13	456.10	455.88	455.85	455.78	455.76	455.74	
25	456.39	455.74	456.01	455.91	456.59	456.54	456.09	455.88	455.85	455.78	455.76	455.74	
26	455.80	455.73	456.87	455.87	457.65	456.42	456.08	455.88	455.85	455.79	455.75	455.74	
27	455.74	455.77	456.25	455.85	456.49	456.60	456.10	455.88	455.84	455.79	455.75	455.74	
28	455.72	455.83	456.15	455.85	456.26	457.10	456.08	455.88	455.84	455.79	455.75	455.74	
29	455.75	455.85	455.99	455.85	456.23	456.76	456.01	455.87	455.84	455.79	455.75	455.75	
30	456.19	456.16	455.94	455.85	456.39	456.37	456.06	455.86	455.84	455.79		455.75	
31		455.84		456.33	456.21		456.08		455.84	455.78		455.75	
Mean	455.75	455.86	455.90	455.91	456.54	456.50	456.25	455.91	455.85	455.80	455.77	455.75	
Max	456.39	456.33	456.87	456.33	457.93	457.13	456.69	456.00	455.86	455.83	455.78	455.77	457.93
Min	455.65	455.73	455.75	455.83	456.18	456.14	456.01	455.86	455.83	455.78	455.75	455.72	455.65
Annual Max Momentary Gage Height	459.72		m. (MSL.) ,		at 09.00 Hours , on Aug 1 , 2011								
Zero Gage at Bottom Elevation	455.10		m. (MSL.) ,		River Bed	455.27		m. (MSL)					
Left Bank Elevation	461.89		m. (MSL.) ,										
Right Bank Elevation	461.91		m. (MSL.) ,		Drainage Area	129		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.65	5.32	1.80	3.13	49.55	6.77	12.22	4.30	2.52	2.16	1.62	1.35		
2	0.65	4.88	1.80	3.78	15.57	7.05	15.96	4.04	2.52	2.16	1.62	1.35		
3	0.65	4.17	1.92	3.52	10.96	6.33	12.22	3.91	2.52	2.16	1.62	1.35		
4	0.65	3.00	1.62	2.88	8.22	7.20	14.20	3.65	2.52	2.16	1.62	1.35		
5	0.70	1.71	3.13	2.40	7.37	9.07	10.78	3.65	2.52	2.16	1.62	1.35		
6	1.53	1.26	5.89	2.40	6.91	23.09	9.24	3.65	2.40	2.16	1.62	1.26		
7	1.35	1.53	2.88	2.16	7.20	21.48	9.75	3.52	2.52	2.16	1.62	1.35		
8	1.35	1.62	2.16	2.40	8.22	12.04	9.75	3.39	2.52	2.16	1.62	1.35		
9	1.35	3.39	1.80	3.13	8.90	13.48	9.24	3.26	2.52	2.16	1.62	1.35		
10	1.26	9.41	1.92	3.13	14.39	18.77	8.90	3.26	2.52	1.92	1.62	1.35		
11	1.26	4.30	2.16	5.46	30.36	12.76	7.88	3.26	2.52	1.80	1.53	1.08		
12	1.35	2.76	2.16	2.76	20.58	12.22	7.88	3.00	2.52	1.80	1.53	1.35		
13	1.35	1.53	1.80	3.26	26.03	12.22	7.54	3.00	2.52	1.80	1.53	1.35		
14	1.35	1.53	1.80	6.18	11.14	11.14	7.54	2.88	2.40	1.80	1.53	1.44		
15	1.26	1.62	1.80	4.17	10.43	9.75	7.71	3.00	2.40	1.80	1.53	1.53		
16	1.26	1.62	1.80	3.00	9.41	9.58	8.22	3.00	2.40	1.80	1.53	1.53		
17	1.17	1.71	1.71	2.40	8.05	9.24	8.39	2.76	2.40	1.80	1.53	1.44		
18	0.70	1.92	1.92	2.40	11.32	9.24	7.54	2.76	2.40	1.80	1.53	1.44		
19	0.70	2.88	1.35	2.40	16.93	9.75	7.20	2.76	2.40	1.71	1.53	1.35		
20	0.70	2.28	1.44	2.40	11.32	9.41	6.91	2.76	2.40	1.71	1.53	1.35		
21	0.70	1.71	2.64	2.40	11.68	9.75	6.62	2.76	2.40	1.62	1.44	1.35		
22	0.70	1.17	1.62	2.28	14.98	12.94	6.47	2.76	2.16	1.62	1.44	1.35		
23	0.80	1.35	1.35	2.52	6.91	13.30	6.04	2.76	2.40	1.71	1.44	1.35		
24	1.92	1.35	1.53	4.17	7.05	25.78	5.75	2.76	2.40	1.62	1.44	1.26		
25	10.43	1.26	4.45	3.13	14.02	13.12	5.60	2.76	2.40	1.62	1.44	1.26		
26	1.80	1.17	19.68	2.64	40.20	10.96	5.46	2.76	2.40	1.71	1.35	1.26		
27	1.26	1.53	8.05	2.40	12.22	14.20	5.75	2.76	2.28	1.71	1.35	1.26		
28	1.08	2.16	6.47	2.40	8.22	25.05	5.46	2.76	2.28	1.71	1.35	1.26		
29	1.35	2.40	4.17	2.40	7.71	17.32	4.45	2.64	2.28	1.71	1.35	1.35		
30	7.05	6.62	3.52	2.40	10.43	10.09	5.17	2.52	2.28	1.71		1.35		
31		2.28		9.41	7.37		5.46		2.28	1.62		1.35		
Total	48.33	81.44	96.34	99.51	433.65	383.10	251.30	93.05	75.00	57.54	44.10	41.67	1705.03	CMSDAY
Mean	1.61	2.63	3.21	3.21	13.99	12.77	8.11	3.10	2.42	1.86	1.52	1.34	4.66	CMS
Max	10.43	9.41	19.68	9.41	49.55	25.78	15.96	4.30	2.52	2.16	1.62	1.53	49.55	CMS
Min	0.65	1.17	1.35	2.16	6.91	6.33	4.45	2.52	2.16	1.62	1.35	1.08	0.65	CMS
Runoff	4.18	7.04	8.32	8.60	37.47	33.10	21.71	8.04	6.48	4.97	3.81	3.60	147.32	MCM
Momentary Peak	129.84 CMS. at 459.72 m. (MSL.) at 09.00 Hours , on Aug 1 , 2011													
Runoff Yield	36.11	Liters/Second/Square KM.			Momentary Peak Yield		1006.512	Liters/Second/Square KM.						

WATER YEAR : 2011

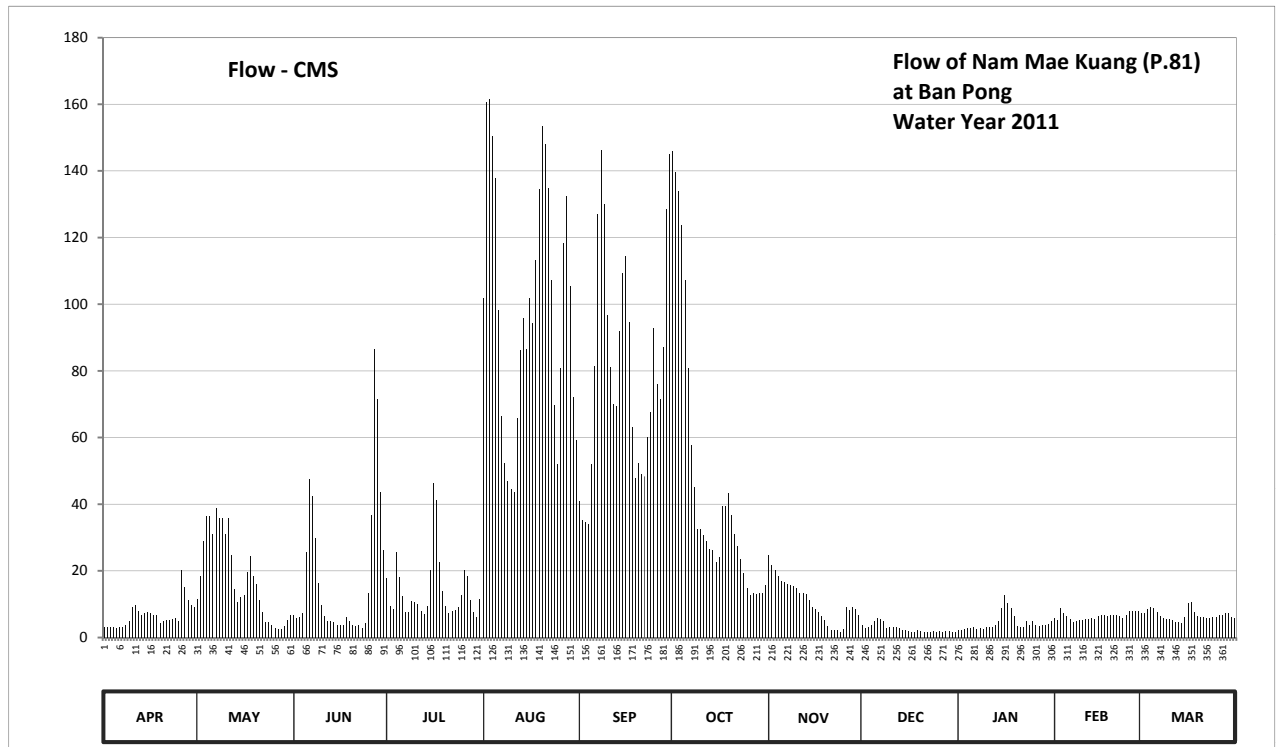
PING RIVER BASIN

Nam Mae Kuang at Ban Pong , Chiang Mai (P.81)

Lat 18 - 41 - 37 N Long 99 - 04 - 55 E

Location : on right bank at Ban Pong.

	Ban Pong	Amphoe San Kamphaeng	Changwat Chiang Mai										
Drainage Area	1,190 sq.km.												
Type of Gage	Water - stage recorder												
Zero Gage at Bottom	+289.919 m. (MSL.)												
Bench Mark	B.M.-H.D.												
Location BM	On right bank at the abutment of the bridge.	Elevation	+295.749 m. (MSL.)										
Gage Reading Frequency	Recording.												
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings												
Period of Available Gage Records	2002 to date												
Rating Operation													
Period of Rating	2002 to date												
Rated by Flot	-												
Rated by Current Meter	2002 to date												
Stability of Channel Regimes	Fairly stable.												
Overbank Flow Conditions	No overbank flow.												
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2011.												
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	291.02	291.80	291.43	292.16	295.17	293.25	296.21	292.54	291.09	290.91	291.32	291.46	
2	291.02	292.19	291.32	291.64	296.56	293.01	296.06	292.38	291.01	290.91	291.27	291.48	
3	291.02	292.73	291.35	291.57	296.58	292.99	295.93	292.30	291.02	290.95	291.59	291.55	
4	291.02	293.06	291.46	292.59	296.32	292.96	295.69	292.20	291.11	291.00	291.48	291.62	
5	290.99	293.06	292.59	292.18	296.02	293.67	295.30	292.12	291.25	290.99	291.39	291.59	
6	291.02	292.83	293.51	291.85	295.07	294.61	294.59	292.10	291.33	291.03	291.29	291.49	
7	291.04	293.16	293.32	291.49	294.15	295.77	293.87	292.06	291.30	290.95	291.22	291.39	
8	291.11	293.04	292.78	291.49	293.68	296.22	293.42	292.05	291.23	291.00	291.23	291.32	
9	291.24	293.04	292.09	291.75	293.49	295.84	292.89	292.03	291.00	290.94	291.27	291.30	
10	291.60	292.83	291.66	291.72	293.40	295.03	292.89	292.01	291.03	291.03	291.28	291.30	
11	291.66	293.04	291.39	291.69	293.37	294.60	292.82	291.92	291.02	291.02	291.30	291.27	
12	291.51	292.53	291.24	291.52	294.13	294.26	292.74	291.92	291.02	291.03	291.31	291.22	
13	291.43	291.98	291.26	291.45	294.75	294.24	292.63	291.89	290.99	291.11	291.32	291.21	
14	291.48	291.73	291.21	291.64	295.01	294.90	292.62	291.77	290.92	291.26	291.31	291.17	
15	291.49	291.83	291.12	292.29	294.76	295.35	292.42	291.61	290.92	291.58	291.39	291.37	
16	291.46	291.87	291.11	293.47	295.17	295.47	292.50	291.56	290.89	291.87	291.42	291.71	
17	291.43	292.27	291.12	293.27	294.97	294.98	293.19	291.50	290.81	291.71	291.41	291.73	
18	291.41	292.52	291.37	292.43	295.44	294.05	293.19	291.39	290.84	291.59	291.39	291.49	
19	291.19	292.19	291.25	291.94	295.94	293.52	293.35	291.27	290.92	291.40	291.42	291.40	
20	291.24	292.07	291.10	291.63	296.39	293.68	293.08	291.05	290.89	291.06	291.42	291.37	
21	291.27	291.78	291.08	291.47	296.26	293.56	292.83	290.93	290.82	291.02	291.42	291.35	
22	291.27	291.50	291.10	291.51	295.95	293.54	292.67	290.92	290.82	291.04	291.39	291.32	
23	291.31	291.22	290.99	291.53	295.30	293.95	292.48	290.90	290.84	291.23	291.34	291.34	
24	291.32	291.20	291.19	291.61</									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.06	11.50	6.87	17.76	101.88	40.90	145.92	24.79	3.62	2.18	5.70	7.25		
2	3.06	18.32	5.70	9.50	160.80	35.14	139.55	21.83	2.98	2.18	5.20	7.50		
3	3.06	28.83	6.00	8.63	161.65	34.67	134.02	20.35	3.06	2.50	8.88	8.37		
4	3.06	36.34	7.25	25.71	150.60	34.00	123.82	18.50	3.78	2.90	7.50	9.25		
5	2.82	36.34	25.71	18.13	137.85	51.93	107.25	17.02	5.00	2.82	6.40	8.88		
6	3.06	31.07	47.53	12.33	98.13	81.35	80.67	16.65	5.80	3.14	5.40	7.62		
7	3.22	38.74	42.58	7.62	66.37	127.22	57.60	15.91	5.50	2.50	4.70	6.40		
8	3.78	35.86	29.95	7.62	52.20	146.35	45.05	15.72	4.80	2.90	4.80	5.70		
9	4.90	35.86	16.46	10.88	46.97	130.20	32.43	15.35	2.90	2.42	5.20	5.50		
10	9.00	31.07	9.75	10.50	44.50	96.62	32.43	14.99	3.14	3.14	5.30	5.50		
11	9.75	35.86	6.40	10.13	43.78	81.00	30.85	13.48	3.06	3.06	5.50	5.20		
12	7.88	24.60	4.90	8.00	65.73	69.95	29.05	13.48	3.06	3.14	5.60	4.70		
13	6.87	14.47	5.10	7.13	86.25	69.30	26.57	12.99	2.82	3.78	5.70	4.60		
14	7.50	10.63	4.60	9.50	95.88	91.75	26.35	11.13	2.26	5.10	5.60	4.26		
15	7.62	11.99	3.86	20.17	86.60	109.37	22.57	9.12	2.26	8.75	6.40	6.20		
16	7.25	12.66	3.78	46.43	101.88	114.47	24.05	8.50	2.04	12.66	6.75	10.38		
17	6.87	19.79	3.86	41.38	94.38	94.75	39.46	7.75	1.56	10.38	6.63	10.63		
18	6.63	24.42	6.20	22.75	113.20	63.12	39.46	6.40	1.74	8.88	6.40	7.62		
19	4.42	18.32	5.00	13.81	134.45	47.80	43.30	5.20	2.26	6.50	6.75	6.50		
20	4.90	16.10	3.70	9.38	153.58	52.20	36.82	3.30	2.04	3.38	6.75	6.20		
21	5.20	11.25	3.54	7.38	148.05	48.90	31.07	2.34	1.62	3.06	6.75	6.00		
22	5.20	7.75	3.70	7.88	134.88	48.35	27.48	2.26	1.62	3.22	6.40	5.70		
23	5.60	4.70	2.82	8.13	107.25	60.00	23.68	2.10	1.74	4.80	5.90	5.90		
24	5.70	4.50	4.42	9.12	69.62	67.68	19.42	1.62	1.80	3.86	6.87	6.20		
25	5.00	3.70	13.48	12.66	51.93	92.87	14.80	2.66	1.68	4.80	7.88	6.30		
26	20.35	2.98	36.82	20.17	80.67	76.13	12.82	9.12	1.86	3.70	7.88	6.75		
27	15.17	2.50	86.60	18.32	118.30	71.57	13.32	8.25	1.68	3.54	8.00	6.75		
28	11.13	2.42	71.57	11.38	132.33	86.95	12.99	9.25	1.80	3.78	7.88	7.38		
29	9.75	3.54	43.78	7.62	105.55	128.50	13.48	8.37	1.80	3.86	7.38	7.25		
30	9.12	5.20	26.35	6.30	72.22	145.07	13.48	6.87	1.56	4.02		6.20		
31		6.75		11.50	59.10		15.72		1.74	4.80		5.70		
Total	200.93	548.06	538.28	437.82	3076.58	2398.11	1415.48	325.30	82.58	135.75	186.10	208.39	9553.38	CMSDAY
Mean	6.70	17.68	17.94	14.12	99.24	79.94	45.66	10.84	2.66	4.38	6.42	6.72	26.10	CMS
Max	20.35	38.74	86.60	46.43	161.65	146.35	145.92	24.79	5.80	12.66	8.88	10.63	161.65	CMS
Min	2.82	2.42	2.82	6.30	43.78	34.00	12.82	1.62	1.56	2.18	4.70	4.26	1.56	CMS
Runoff	17.36	47.35	46.51	37.83	265.82	207.20	122.30	28.11	7.14	11.73	16.08	18.01	825.41	MCM
Momentary Peak		165.05	CMS. at 296.66 m. (MSL.) at 15.00 Hours , on Aug 2 , 2011											
Runoff Yield	21.93	Liters/Second/Square KM.			Momentary Peak Yield			138.697	Liters/Second/Square KM.					

WATER YEAR : 2011

PING RIVER BASIN

Nam Mae Wang at Ban Sop Win , Chiang Mai (P.82)

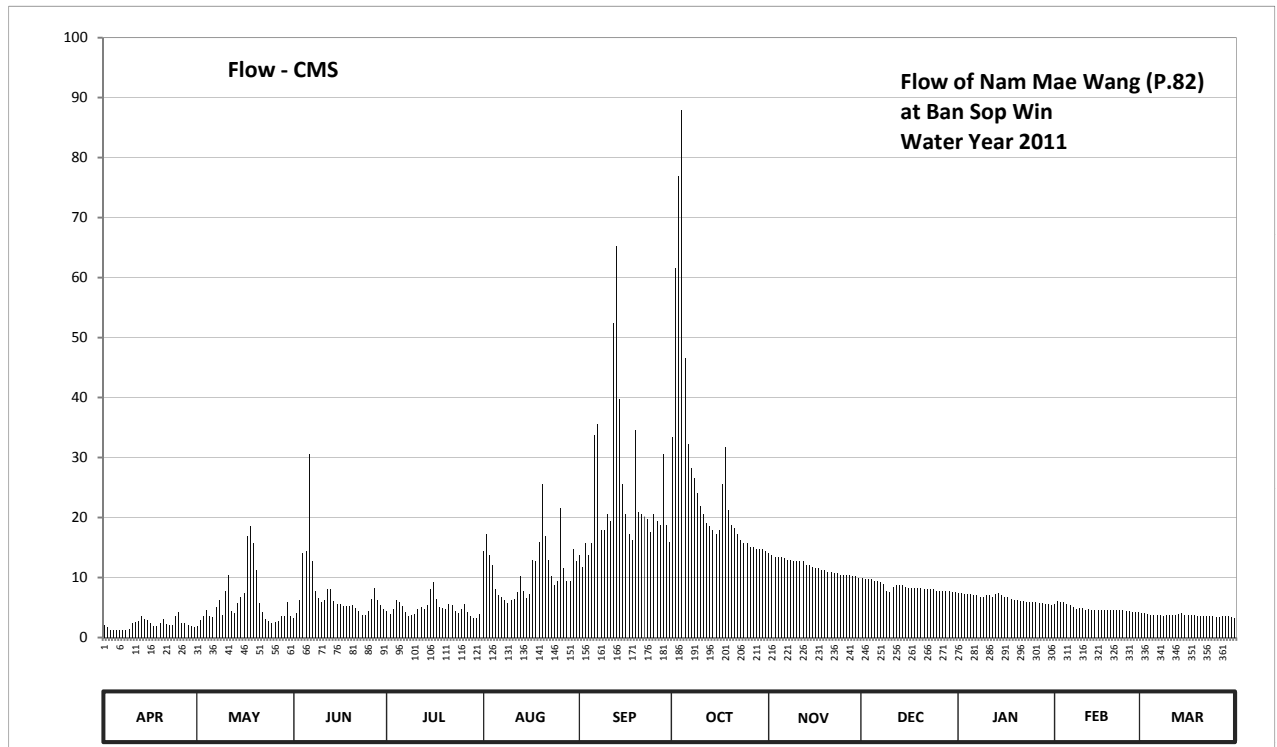
Lat 18 - 39 - 08 N Long 98 - 41 - 26 E

Location : on left bank at Ban Sop Win.

	Ban	Sop Win	Amphoe	Mae Wang	Changwat	Chiang Mai
Drainage Area	389	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+400.196	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 5.00 meters from the top staff gage.				Elevation	+406.756 m. (MSL.)
Gage Reading Frequency	Recording.					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 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 36 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	401.00	400.99	401.11	401.19	401.63	401.61	402.16	401.62	401.47	401.36	401.26	401.17	
2	400.97	401.08	401.17	401.16	401.72	401.54	402.71	401.61	401.46	401.36	401.29	401.17	
3	400.93	401.14	401.30	401.21	401.61	401.67	402.96	401.60	401.46	401.35	401.28	401.16	
4	400.93	401.20	401.62	401.30	401.55	401.61	403.12	401.60	401.46	401.35	401.28	401.15	
5	400.93	401.14	401.63	401.28	401.39	401.67	402.44	401.60	401.45	401.35	401.26	401.15	
6	400.93	401.12	402.09	401.24	401.34	402.17	402.13	401.59	401.45	401.34	401.25	401.15	
7	400.93	401.23	401.57	401.18	401.33	402.21	402.03	401.58	401.44	401.34	401.23	401.15	
8	400.93	401.30	401.38	401.14	401.30	401.74	401.99	401.58	401.43	401.33	401.21	401.13	
9	400.95	401.15	401.32	401.15	401.27	401.74	401.92	401.57	401.38	401.33	401.22	401.15	
10	401.04	401.38	401.28	401.16	401.30	401.82	401.86	401.57	401.37	401.34	401.22	401.15	
11	401.05	401.49	401.30	401.21	401.31	401.79	401.82	401.57	401.41	401.34	401.20	401.15	
12	401.07	401.19	401.39	401.23	401.37	402.55	401.78	401.57	401.42	401.33	401.21	401.15	
13	401.13	401.17	401.39	401.21	401.48	402.77	401.76	401.55	401.42	401.35	401.20	401.16	
14	401.10	401.27	401.29	401.25	401.38	402.30	401.74	401.55	401.42	401.36	401.20	401.17	
15	401.09	401.33	401.26	401.39	401.32	401.96	401.72	401.54	401.41	401.34	401.20	401.15	
16	401.03	401.36	401.26	401.44	401.35	401.82	401.74	401.53	401.40	401.33	401.20	401.15	
17	400.99	401.71	401.24	401.31	401.58	401.72	401.96	401.53	401.40	401.33	401.20	401.15	
18	400.99	401.76	401.24	401.23	401.57	401.69	402.12	401.52	401.40	401.31	401.20	401.15	
19	401.03	401.67	401.24	401.22	401.68	402.19	401.84	401.52	401.40	401.30	401.20	401.13	
20	401.10	401.52	401.25	401.21	401.96	401.83	401.77	401.51	401.40	401.30	401.20	401.13	
21	401.02	401.27	401.22	401.26	401.71	401.82	401.75	401.51	401.39	401.29	401.20	401.13	
22	401.00	401.18	401.19	401.25	401.58	401.81	401.72	401.50	401.39	401.29	401.20	401.13	
23	401.01	401.10	401.15	401.19	401.48	401.80	401.69	401.50	401.39	401.28	401.20	401.13	
24	401.14	401.06	401.15	401.17	401.42	401.73	401.67	401.49	401.39	401.28	401.19	401.13	
25	401.18	401.04	401.19	401.21	401.45	401.82	401.67	401.49	401.38	401.28	401.19	401.12	
26	401.04	401.05	401.31	401.26	401.85	401.79	401.65	401.49	401.38	401.28	401.18	401.12	
27	401.04	401.06	401.40	401.18	401.53	401.77	401.65	401.49	401.38	401.27	401.18	401.13	
28	401.00	401.13	401.30	401									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011

PING RIVER BASIN

Nam Mae Wang at Ban Phan Ton , Chiang Mai (P.84)

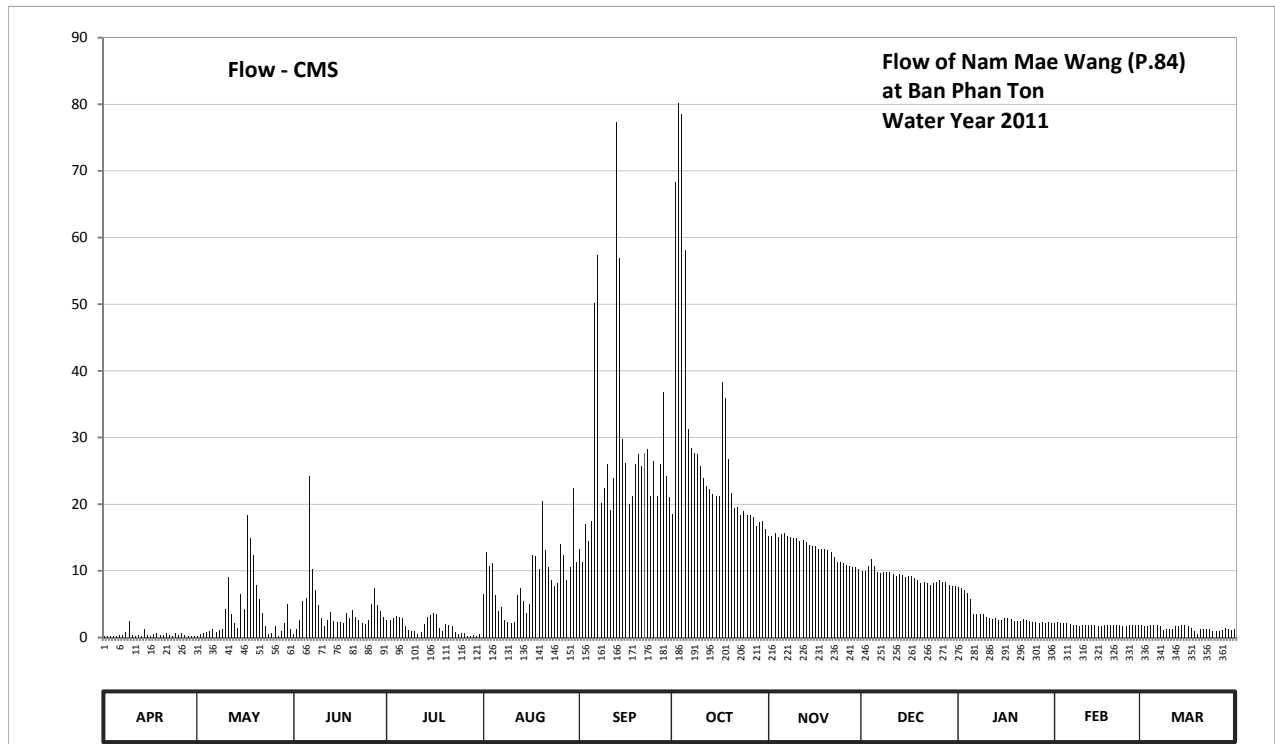
Lat 18 - 35 - 20 N Long 98 - 47 - 59 E

Location : on left bank at Ban Phan Ton.

	Ban	Phan Ton	Amphoe	Mae Wang	Changwat	Chiang Mai
Drainage Area	491	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+303.244	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+309.244 m. (MSL.)
Gage Reading Frequency	Recording.					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records Fair. Stage-discharge relation defined by 39 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	303.49	303.50	303.56	303.85	304.19	304.59	304.85	304.69	304.41	304.26	304.03	303.99	
2	303.48	303.56	303.69	303.85	304.56	304.48	306.48	304.69	304.41	304.25	304.04	303.95	
3	303.49	303.57	303.85	303.88	304.45	304.78	306.77	304.71	304.45	304.23	304.02	303.96	
4	303.47	303.61	304.10	303.92	304.47	304.65	306.73	304.68	304.51	304.20	304.02	303.97	
5	303.48	303.63	304.14	303.91	304.17	304.80	306.21	304.70	304.45	304.13	304.03	303.97	
6	303.51	303.69	305.10	303.88	303.98	305.99	305.38	304.71	304.40	304.22	304.00	303.97	
7	303.52	303.60	304.43	303.74	304.03	306.19	305.27	304.69	304.39	304.21	303.97	303.95	
8	303.61	303.65	304.23	303.64	303.86	304.93	305.24	304.68	304.40	304.21	303.97	303.85	
9	303.83	303.67	304.06	303.63	303.82	305.03	305.23	304.67	304.40	304.22	303.95	303.89	
10	303.51	304.00	303.88	303.62	303.80	305.17	305.16	304.67	304.40	304.15	303.98	303.87	
11	303.49	304.35	303.74	303.56	303.81	304.88	305.09	304.65	304.38	304.13	303.97	303.89	
12	303.51	303.94	303.86	303.61	304.17	305.09	305.04	304.66	304.36	304.12	303.97	303.94	
13	303.50	303.79	303.97	303.78	304.25	306.70	305.02	304.64	304.38	304.14	303.98	303.95	
14	303.68	303.70	303.83	303.90	304.10	306.18	304.99	304.62	304.37	304.10	303.97	303.98	
15	303.53	304.19	303.82	303.93	303.95	305.32	304.98	304.61	304.35	304.11	303.94	303.99	
16	303.48	304.01	303.82	303.95	304.07	305.18	304.98	304.61	304.36	304.13	303.94	303.94	
17	303.55	304.84	303.79	303.94	304.54	304.92	305.63	304.59	304.36	304.14	303.97	303.91	
18	303.57	304.67	303.95	303.71	304.53	304.98	305.55	304.59	304.34	304.12	303.97	303.82	
19	303.51	304.54	303.89	303.63	304.43	305.17	305.20	304.59	304.32	304.09	303.98	303.72	
20	303.52	304.28	303.99	303.77	304.94	305.23	305.00	304.58	304.29	304.07	303.97	303.88	
21	303.57	304.13	303.91	303.76	304.58	305.16	304.89	304.56	304.30	304.08	303.97	303.89	
22	303.51	303.95	303.85	303.73	304.44	305.24	304.90	304.52	304.29	304.12	303.97	303.88	
23	303.49	303.73	303.79	303.60	304.32	305.26	304.84	304.48	304.28	304.11	303.96	303.86	
24	303.59	303.55	303.78	303.56	304.27	304.98	304.87	304.48	304.29	304.09	303.96	303.81	
25	303.52	303.57	303.86	303.59	304.29	305.19	304.84	304.47	304.30	304.06	303.97	303.82	
26	303.57	303.73	304.07	303.58	304.63	304.98	304.84	304.46	304.32	304.04	303.97	303.81	
27	303.51	303.50	304.25	303.47	304.54	305.17	304.83	304.45	304.30	304.03	303.99	303.84	
28	303.50	303.63	304.06	303									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.22	0.25	0.58	2.60	6.57	13.31	18.55	15.30	9.99	7.63	2.18	1.94		
2	0.20	0.58	1.34	2.60	12.76	11.28	68.40	15.30	9.99	7.47	2.24	1.70		
3	0.22	0.64	2.60	2.84	10.73	17.10	80.25	15.70	10.73	7.17	2.12	1.76		
4	0.18	0.86	5.45	3.24	11.10	14.50	78.60	15.10	11.84	6.70	2.12	1.82		
5	0.20	0.98	5.95	3.12	6.33	17.50	58.07	15.50	10.73	5.82	2.18	1.82		
6	0.31	1.34	24.20	2.84	3.96	50.16	31.20	15.70	9.80	3.58	2.00	1.82		
7	0.36	0.80	10.35	1.72	4.57	57.34	28.45	15.30	9.65	3.49	1.82	1.70		
8	0.86	1.10	7.17	1.04	2.68	20.23	27.70	15.10	9.80	3.49	1.82	1.15		
9	2.44	1.22	4.95	0.98	2.36	22.45	27.45	14.90	9.80	3.58	1.70	1.35		
10	0.31	4.20	2.84	0.92	2.20	25.95	25.70	14.90	9.80	3.00	1.88	1.25		
11	0.22	9.03	1.72	0.58	2.28	19.18	23.95	14.50	9.49	2.84	1.82	1.35		
12	0.31	3.48	2.68	0.86	6.33	23.95	22.70	14.70	9.18	2.76	1.82	1.64		
13	0.25	2.12	3.84	2.04	7.47	77.35	22.20	14.30	9.49	2.92	1.88	1.70		
14	1.28	1.40	2.44	3.00	5.45	56.98	21.49	13.90	9.33	2.60	1.82	1.88		
15	0.41	6.57	2.36	3.36	3.60	29.70	21.28	13.70	9.03	2.68	1.64	1.94		
16	0.20	4.33	2.36	3.60	5.08	26.20	21.28	13.70	9.18	2.84	1.64	1.64		
17	0.52	18.34	2.12	3.48	12.39	20.02	38.35	13.31	9.18	2.92	1.82	1.46		
18	0.64	14.90	3.60	1.48	12.20	21.28	35.97	13.31	8.87	2.76	1.82	1.00		
19	0.31	12.39	2.92	0.98	10.35	25.95	26.70	13.31	8.56	2.54	1.88	0.50		
20	0.36	7.94	4.08	1.96	20.44	27.45	21.70	13.13	8.10	2.42	1.82	1.30		
21	0.64	5.82	3.12	1.88	13.13	25.70	19.39	12.76	8.25	2.48	1.82	1.35		
22	0.31	3.60	2.60	1.64	10.54	27.70	19.60	12.02	8.10	2.76	1.82	1.30		
23	0.22	1.64	2.12	0.80	8.56	28.20	18.34	11.28	7.94	2.68	1.76	1.20		
24	0.74	0.52	2.04	0.58	7.78	21.28	18.97	11.28	8.10	2.54	1.76	0.95		
25	0.36	0.64	2.68	0.74	8.10	26.45	18.34	11.10	8.25	2.36	1.82	1.00		
26	0.64	1.64	5.08	0.69	14.10	21.28	18.34	10.91	8.56	2.24	1.82	0.95		
27	0.31	0.25	7.47	0.18	12.39	25.95	18.13	10.73	8.25	2.18	1.94	1.10		
28	0.25	0.98	4.95	0.18	8.56	36.83	16.70	10.54	8.25	2.24	1.82	1.46		
29	0.20	2.12	3.96	0.36	10.54	24.20	17.30	10.54	7.94	2.18	1.88	1.25		
30	0.25	5.08	3.12	0.18	22.45	21.07	17.50	10.35	7.78	2.24		1.10		
31		1.28		0.58	11.28		16.30		7.78	2.12		1.20		
Total	13.72	116.04	130.69	51.05	276.28	836.54	898.90	402.17	281.74	105.23	54.46	43.58	3210.40	CMSDAY
Mean	0.46	3.74	4.36	1.65	8.91	27.88	29.00	13.41	9.09	3.39	1.88	1.41	8.77	CMS
Max	2.44	18.34	24.20	3.60	22.45	77.35	80.25	15.70	11.84	7.63	2.24	1.94	80.25	CMS
Min	0.18	0.25	0.58	0.18	2.20	11.28	16.30	10.35	7.78	2.12	1.64	0.50	0.18	CMS
Runoff	1.19	10.03	11.29	4.41	23.87	72.28	77.67	34.75	24.34	9.09	4.71	3.77	277.38	MCM
Momentary Peak	17.86	106.89	CMS. at 307.38 m. (MSL.) at 18.00 Hours , on Sep 13 , 2011											
Runoff Yield	17.86				Liters/Second/Square KM.		Momentary Peak Yield	217.699	Liters/Second/Square KM.					

WATER YEAR : 2011

PING RIVER BASIN

Nam Mae Li at Ban Lai Khaeo , Lamphun (P.85)

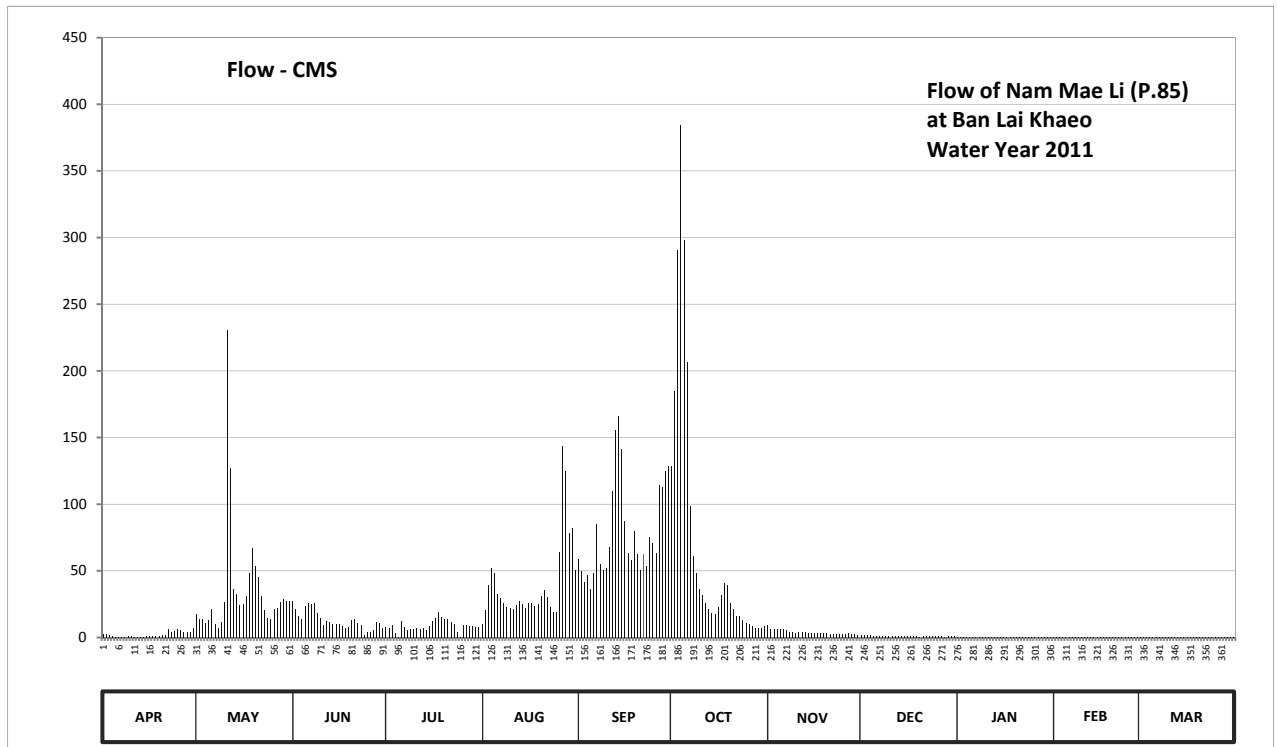
Lat 18 - 21 - 50 N Long 98 - 46 - 32 E

Location : on right bank at Ban Lai Khaeo.

	Ban	Lai Khaeo	Amphoe	Ban Hong	Changwat	Lamphun
Drainage Area	2,037	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+290.368	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+295.123 m. (MSL.)
Gage Reading Frequency	Recording.					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Fairly stable because of back water effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.91	291.33	291.33	291.09	290.64	292.02	292.88	290.58	289.91	289.67	289.47	289.50	
2	290.92	291.24	291.14	291.07	291.10	291.85	293.39	290.41	289.90	289.67	289.49	289.50	
3	290.85	291.24	290.95	291.14	291.63	291.68	294.12	290.38	289.89	289.66	289.49	289.50	
4	290.74	291.17	290.83	290.95	291.90	291.80	294.66	290.39	289.86	289.62	289.49	289.50	
5	290.52	291.22	291.21	290.52	291.82	291.56	294.17	290.37	289.77	289.62	289.49	289.50	
6	290.47	291.42	291.28	291.20	291.47	291.83	293.55	290.37	289.74	289.59	289.49	289.50	
7	290.60	291.16	291.26	291.10	291.38	292.41	292.56	290.32	289.76	289.62	289.49	289.50	
8	290.64	291.08	291.27	291.03	291.27	291.96	292.06	290.22	289.81	289.62	289.49	289.50	
9	290.70	291.19	291.04	291.05	291.19	291.87	291.82	290.17	289.76	289.62	289.49	289.49	
10	290.77	291.53	290.86	291.05	291.16	291.90	291.57	290.13	289.77	289.62	289.49	289.49	
11	290.64	293.72	290.62	291.07	291.12	292.17	291.45	290.19	289.77	289.62	289.49	289.49	
12	290.45	292.86	290.77	291.06	291.23	292.68	291.27	290.22	289.75	289.62	289.49	289.49	
13	290.46	291.71	290.73	291.07	291.31	293.14	291.12	290.23	289.73	289.62	289.50	289.49	
14	290.64	291.65	290.66	291.04	291.25	293.23	291.04	290.12	289.73	289.62	289.48	289.48	
15	290.78	291.48	290.66	291.11	291.15	293.01	290.99	290.15	289.73	289.62	289.47	289.48	
16	290.82	291.50	290.64	291.21	291.28	292.44	291.18	290.11	289.73	289.62	289.47	289.49	
17	290.82	291.62	290.54	291.26	291.28	292.10	291.44	290.10	289.76	289.62	289.47	289.49	
18	290.82	291.91	290.46	291.37	291.21	292.01	291.67	290.09	289.73	289.62	289.47	289.49	
19	290.82	292.19	290.49	291.28	291.26	292.34	291.63	290.09	289.73	289.62	289.47	289.49	
20	290.83	291.99	290.82	291.24	291.43	292.08	291.27	290.07	289.67	289.62	289.47	289.49	
21	290.87	291.86	290.83	291.25	291.54	291.87	291.13	290.04	289.71	289.62	289.50	289.49	
22	291.06	291.62	290.69	291.18	291.41	292.08	290.95	290.05	289.74	289.62	289.52	289.49	
23	290.99	291.40	290.58	291.15	291.20	291.92	290.93	289.98	289.76	289.55	289.51	289.49	
24	291.00	291.27	290.84	290.97	291.05	292.28	290.79	289.96	289.72	289.47	289.50	289.49	
25	291.05	291.25	290.98	290.61	291.05	292.21	290.70	289.97	289.72	289.47	289.50	289.49	
26	291.04	291.12	290.97	290.59	292.11	292.10	290.63	290.04	289.70	289.46	289.50	289.49	
27	290.99	291.17	291.02	290.57	293.03	292.73	290.55	290.06	289.69	289.47	289.50	289.49	
28	290.97	291.30	291.19	290									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.70	17.35	27.62	7.65	10.08	58.75	128.60	9.08	1.87	0.71	0.14	0.20	
2	2.90	13.60	21.49	6.95	20.35	49.63	184.80	6.63	1.80	0.71	0.18	0.20	
3	1.85	13.60	16.35	9.60	39.10	41.42	290.60	6.24	1.74	0.68	0.18	0.20	
4	0.93	10.80	13.66	3.50	52.25	47.00	384.40	6.37	1.56	0.56	0.18	0.20	
5	0.56	12.80	23.54	0.56	48.05	36.16	298.35	6.11	1.08	0.56	0.18	0.20	
6	0.50	21.40	25.92	12.00	32.70	48.57	206.25	6.11	0.96	0.47	0.18	0.20	
7	0.64	10.40	25.24	8.00	29.32	84.90	98.40	5.46	1.04	0.56	0.18	0.20	
8	0.69	7.30	25.58	5.55	25.58	55.40	61.25	4.24	1.26	0.56	0.18	0.20	
9	0.75	11.60	18.64	6.25	22.91	50.68	48.05	3.76	1.04	0.56	0.18	0.18	
10	1.06	26.50	14.32	6.25	22.06	52.25	36.55	3.44	1.08	0.56	0.18	0.18	
11	0.69	230.40	9.74	6.95	20.92	68.13	31.93	3.92	1.08	0.56	0.18	0.18	
12	0.48	126.70	12.43	6.60	24.22	109.60	25.58	4.24	1.00	0.56	0.18	0.18	
13	0.49	36.10	11.67	6.95	26.94	155.40	20.92	4.36	0.92	0.56	0.20	0.18	
14	0.69	32.75	10.42	5.90	24.90	165.60	18.64	3.36	0.92	0.56	0.16	0.16	
15	1.11	24.10	10.42	8.40	21.77	141.10	17.27	3.60	0.92	0.56	0.14	0.16	
16	1.46	25.00	10.08	12.40	25.92	87.60	22.63	3.28	0.92	0.56	0.14	0.18	
17	1.46	31.10	8.44	14.40	25.92	63.75	31.54	3.20	1.04	0.56	0.14	0.18	
18	1.46	48.65	7.28	19.15	23.54	58.13	40.96	3.13	0.92	0.56	0.14	0.18	
19	1.46	67.32	7.67	15.20	25.24	79.80	39.10	3.13	0.92	0.56	0.14	0.18	
20	1.59	53.85	13.44	13.60	31.15	62.50	25.58	2.99	0.71	0.56	0.14	0.18	
21	2.11	45.40	13.66	14.00	35.39	50.68	21.20	2.78	0.84	0.56	0.20	0.18	
22	6.60	31.10	10.93	11.20	30.39	62.50	16.35	2.85	0.96	0.56	0.26	0.18	
23	4.30	20.50	9.08	10.00	23.20	53.30	15.89	2.36	1.04	0.35	0.23	0.18	
24	4.50	14.80	1.72	3.90	18.92	75.60	12.81	2.22	0.88	0.14	0.20	0.18	
25	6.25	14.00	4.10	0.65	18.92	70.70	11.10	2.29	0.88	0.14	0.20	0.18	
26	5.90	20.92	3.90	9.24	64.37	63.75	9.91	2.78	0.80	0.12	0.20	0.18	
27	4.30	22.35	5.20	8.92	143.30	114.35	8.60	2.92	0.77	0.14	0.20	0.18	
28	3.90	26.60	11.60	8.60	124.80	112.45	7.41	2.57	0.71	0.16	0.20	0.23	
29	3.90	28.98	10.80	8.28	78.40	124.80	6.76	2.22	0.77	0.20	0.20	0.20	
30	6.95	26.94	6.95	8.12	81.90	128.60	6.76	2.08	0.77	0.20		0.18	
31		26.94		8.12	50.68		8.44		0.77	0.20		0.44	
Total	72.18	1099.85	391.89	266.89	1223.19	2373.10	2136.63	117.72	31.97	14.30	5.21	6.03	7738.96 CMSDAY
Mean	2.41	35.48	13.06	8.61	39.46	79.10	68.92	3.92	1.03	0.46	0.18	0.19	21.14 CMS
Max	6.95	230.40	27.62	19.15	143.30	165.60	384.40	9.08	1.87	0.71	0.26	0.44	384.40 CMS
Min	0.48	7.30	1.72	0.56	10.08	36.16	6.76	2.08	0.71	0.12	0.14	0.16	0.12 CMS
Runoff	6.24	95.03	33.86	23.06	105.68	205.04	184.61	10.17	2.76	1.24	0.45	0.52	668.65 MCM
Momentary Peak	420.75	CMS. at 294.85 m. (MSL.) at 03.00 Hours , on Oct 4 , 2011											
Runoff Yield	10.38	Liters/Second/Square KM.				Momentary Peak Yield	206.554	Liters/Second/Square KM.					

WATER YEAR : 2011

PING RIVER BASIN

Nam Mae On at Ban Hong , Chiang Mai (P.86)

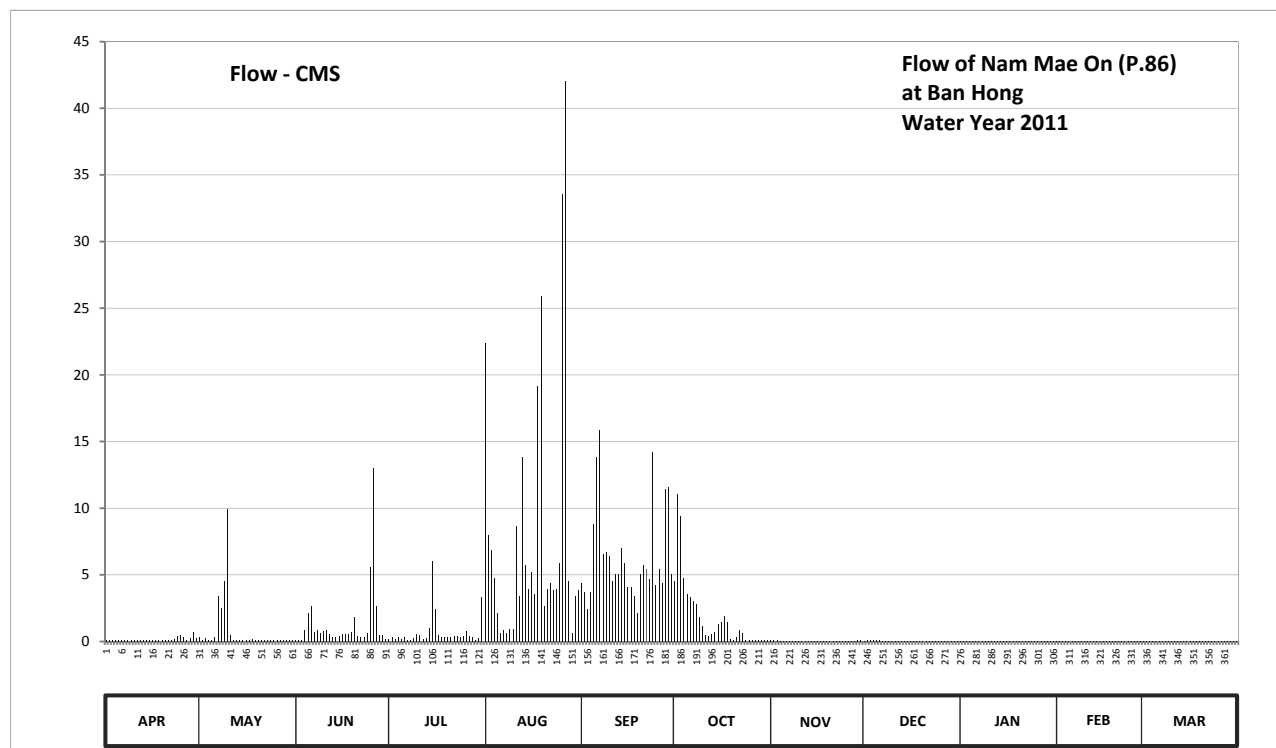
Lat 18 - 44 - 18 N Long 99 - 13 - 18 E

Location : on left bank at Ban Hong.

	Ban Hong	Amphoe	San Kamphaeng	Changwat	Chiang Mai
Drainage Area	97	sq.km.			
Type of Gage	Water - stage recorder				
Zero Gage at Bottom	+341.205	m. (MSL.)			
Bench Mark	B.M.-H.D.				
Location BM	On left bank at the abutment of the bridge.			Elevation	+345.535 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings				
Period of Available Gage Records	2004 to date				
Rating Operation					
Period of Rating	2004 to date				
Rated by Flot	-				
Rated by Current Meter	2004 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 2011.				

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	341.61	341.66	341.61	341.62	343.02	342.05	342.06	341.58	341.57	341.54	341.56	341.56	
2	341.61	341.61	341.61	341.65	342.30	342.00	342.48	341.61	341.61	341.54	341.56	341.56	
3	341.61	341.63	341.61	341.62	342.23	341.90	342.39	341.60	341.61	341.54	341.56	341.56	
4	341.61	341.61	341.75	341.65	342.08	342.00	342.08	341.56	341.61	341.54	341.56	341.56	
5	341.61	341.61	341.88	341.62	341.88	342.35	341.99	341.56	341.61	341.54	341.56	341.56	
6	341.61	341.65	341.92	341.65	341.72	342.63	341.97	341.56	341.60	341.54	341.56	341.57	
7	341.61	341.98	341.73	341.61	341.75	342.73	341.95	341.56	341.55	341.54	341.56	341.56	
8	341.61	341.91	341.75	341.61	341.72	342.21	341.93	341.56	341.51	341.54	341.56	341.56	
9	341.61	342.06	341.72	341.64	341.76	342.22	341.85	341.56	341.51	341.54	341.56	341.56	
10	341.61	342.42	341.74	341.71	341.76	342.20	341.79	341.56	341.51	341.54	341.56	341.56	
11	341.61	341.70	341.75	341.69	342.34	342.06	341.70	341.56	341.51	341.54	341.56	341.56	
12	341.61	341.61	341.71	341.62	341.98	342.10	341.68	341.56	341.51	341.55	341.56	341.56	
13	341.61	341.61	341.66	341.64	342.63	342.10	341.71	341.56	341.53	341.55	341.56	341.56	
14	341.61	341.61	341.66	341.77	342.15	342.24	341.73	341.54	341.56	341.56	341.55	341.56	
15	341.61	341.61	341.68	342.17	342.02	342.16	341.81	341.56	341.56	341.56	341.56	341.56	
16	341.61	341.61	341.71	341.90	342.11	342.03	341.82	341.56	341.56	341.56	341.56	341.56	
17	341.61	341.61	341.71	341.69	341.99	342.03	341.86	341.56	341.56	341.55	341.56	341.56	
18	341.61	341.62	341.71	341.66	342.88	341.98	341.82	341.56	341.56	341.55	341.56	341.56	
19	341.61	341.61	341.73	341.66	343.16	341.88	341.62	341.56	341.56	341.56	341.56	341.56	
20	341.61	341.61	341.85	341.66	341.92	342.10	341.61	341.56	341.56	341.56	341.56	341.56	
21	341.61	341.61	341.67	341.66	342.02	342.15	341.66	341.56	341.56	341.56	341.56	341.56	
22	341.61	341.61	341.66	341.67	342.05	342.13	341.75	341.56	341.55	341.56	341.56	341.56	
23	341.62	341.61	341.66	341.67	342.01	342.07	341.72	341.55	341.54	341.56	341.56	341.55	
24	341.67	341.61	341.72	341.66	342.02	342.65	341.61	341.56	341.54	341.56	341.56	341.55	
25	341.70	341.61	342.14	341.67	342.16	342.04	341.61	341.56	341.54	341.54	341.56	341.56	
26	341.65	341.61	342.59	341.74	343.45	342.13	341.61	341.56	341.54	341.56	341.56	341.56	
27	341.61	341.61	341.92	341.67	343.74	342.05	341.61	341.56	341.54	341.56	341.56	341.56	
28	341.63	341.61	341.69	341									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.14	0.34	0.14	0.18	22.40	4.37	4.51	0.08	0.07	0.04	0.06	0.06		
2	0.14	0.14	0.14	0.30	8.00	3.70	11.04	0.14	0.14	0.04	0.06	0.06		
3	0.14	0.22	0.14	0.18	6.88	2.40	9.44	0.10	0.14	0.04	0.06	0.06		
4	0.14	0.14	0.85	0.30	4.78	3.70	4.78	0.06	0.14	0.04	0.06	0.06		
5	0.14	0.14	2.16	0.18	2.16	8.80	3.57	0.06	0.14	0.04	0.06	0.06		
6	0.14	0.30	2.66	0.30	0.64	13.82	3.31	0.06	0.10	0.04	0.06	0.07		
7	0.14	3.44	0.71	0.14	0.85	15.87	3.05	0.06	0.05	0.04	0.06	0.06		
8	0.14	2.53	0.85	0.14	0.64	6.56	2.79	0.06	0.01	0.04	0.06	0.06		
9	0.14	4.51	0.64	0.26	0.92	6.72	1.80	0.06	0.01	0.04	0.06	0.06		
10	0.14	9.96	0.78	0.57	0.92	6.40	1.13	0.06	0.01	0.04	0.06	0.06		
11	0.14	0.50	0.85	0.46	8.64	4.51	0.50	0.06	0.01	0.04	0.06	0.06		
12	0.14	0.14	0.57	0.18	3.44	5.05	0.42	0.06	0.01	0.05	0.06	0.06		
13	0.14	0.14	0.34	0.26	13.82	5.05	0.57	0.06	0.03	0.05	0.06	0.06		
14	0.14	0.14	0.34	0.99	5.72	7.04	0.71	0.04	0.06	0.06	0.05	0.06		
15	0.14	0.14	0.42	6.00	3.97	5.86	1.32	0.06	0.06	0.06	0.06	0.06		
16	0.14	0.14	0.57	2.40	5.18	4.10	1.44	0.06	0.06	0.06	0.06	0.06		
17	0.14	0.14	0.57	0.46	3.57	4.10	1.92	0.06	0.06	0.05	0.06	0.06		
18	0.14	0.18	0.57	0.34	19.14	3.44	1.44	0.06	0.06	0.05	0.06	0.06		
19	0.14	0.14	0.71	0.34	25.90	2.16	0.18	0.06	0.06	0.06	0.06	0.06		
20	0.14	0.14	1.80	0.34	2.66	5.05	0.14	0.06	0.06	0.06	0.06	0.06		
21	0.14	0.14	0.38	0.34	3.97	5.72	0.34	0.06	0.06	0.06	0.06	0.06		
22	0.14	0.14	0.34	0.38	4.37	5.45	0.85	0.06	0.05	0.06	0.06	0.06		
23	0.18	0.14	0.34	0.38	3.84	4.65	0.64	0.05	0.04	0.06	0.06	0.05		
24	0.38	0.14	0.64	0.34	3.97	14.22	0.14	0.06	0.04	0.06	0.06	0.05		
25	0.50	0.14	5.59	0.38	5.86	4.24	0.14	0.06	0.04	0.04	0.06	0.06		
26	0.30	0.14	13.02	0.78	33.53	5.45	0.14	0.06	0.04	0.06	0.06	0.06		
27	0.14	0.14	2.66	0.38	42.07	4.37	0.14	0.06	0.04	0.06	0.06	0.06		
28	0.22	0.14	0.46	0.30	4.51	11.40	0.14	0.07	0.04	0.06	0.06	0.06		
29	0.71	0.14	0.46	0.14	0.64	11.58	0.14	0.14	0.04	0.06	0.06	0.06		
30	0.22	0.14	0.18	0.22	3.44	5.05	0.14	0.14	0.04	0.06		0.06		
31		0.14		3.31	3.84		0.14		0.04	0.06		0.06		
Total	5.73	25.06	39.88	21.27	250.27	190.83	57.01	2.08	1.75	1.58	1.73	1.85	599.04	CMSDAY
Mean	0.19	0.81	1.33	0.69	8.07	6.36	1.84	0.07	0.06	0.05	0.06	0.06	1.64	CMS
Max	0.71	9.96	13.02	6.00	42.07	15.87	11.04	0.14	0.14	0.06	0.06	0.07	42.07	CMS
Min	0.14	0.14	0.14	0.14	0.64	2.16	0.14	0.04	0.01	0.04	0.05	0.05	0.01	CMS
Runoff	0.50	2.17	3.45	1.84	21.62	16.49	4.93	0.18	0.15	0.14	0.15	0.16	51.76	MCM
Momentary Peak	63.12	CMS. at 344.38 m. (MSL.) at 03.00 Hours , on Aug 19 , 2011												
Runoff Yield	16.87	Liters/Second/Square KM.				Momentary Peak Yield		650.722	Liters/Second/Square KM.					

WATER YEAR : 2011

PING RIVER BASIN

Nam Mae Tha at Ban Pa Cang Noy, Lamphun (P.87)

Lat 18 - 31 - 04 N Long 98 - 56 - 42 E

Location : on left bank at Ban Pa Cang Noy.

	Ban	Pa Cang Noy	Amphoe	Pa Sang	Changwat	Lamphun
Drainage Area	934	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+288.954	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+293.954 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2005 to date					
Rating Operation						
Period of Rating	2005 to date					
Rated by Flot	-					
Rated by Current Meter	2005 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +293.690 m.(MSL.), records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 39 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	289.49	289.50	289.83	289.71	292.76	290.76	290.66	289.73	289.45	289.35	289.35	289.35	
2	289.49	289.50	289.78	289.74	291.93	290.34	291.80	289.70	289.44	289.35	289.35	289.34	
3	289.49	289.60	289.78	290.36	291.17	290.50	292.69	289.51	289.43	289.35	289.35	289.35	
4	289.49	290.77	289.84	290.54	291.02	290.25	292.04	289.56	289.42	289.35	289.35	289.35	
5	289.49	290.46	289.88	290.19	290.56	290.06	291.64	289.81	289.41	289.35	289.35	289.35	
6	289.49	290.25	290.12	289.85	290.34	290.80	291.02	289.69	289.41	289.35	289.35	289.35	
7	289.50	290.49	290.24	289.72	290.16	291.87	290.71	289.63	289.41	289.35	289.35	289.35	
8	289.50	290.36	290.01	289.64	290.36	291.53	290.47	289.56	289.37	289.35	289.35	289.35	
9	289.50	290.17	289.87	289.65	290.14	292.36	290.23	289.53	289.36	289.35	289.35	289.35	
10	289.50	291.51	289.81	289.60	290.01	291.86	290.16	289.51	289.36	289.35	289.35	289.35	
11	289.50	291.55	289.89	289.62	290.02	291.50	290.05	289.66	289.35	289.35	289.35	289.35	
12	289.50	290.59	289.92	289.67	290.34	291.31	290.16	289.93	289.35	289.35	289.35	289.35	
13	289.50	290.20	289.90	289.59	290.18	292.28	290.04	289.72	289.35	289.35	289.35	289.35	
14	289.50	290.11	289.87	289.58	290.12	292.59	289.70	289.58	289.36	289.35	289.35	289.34	
15	289.50	290.89	289.85	290.35	290.00	291.65	289.77	289.43	289.37	289.36	289.35	289.34	
16	289.50	290.40	289.85	290.84	290.20	291.16	289.83	289.40	289.35	289.36	289.35	289.35	
17	289.50	290.52	289.82	290.78	289.86	290.88	290.44	289.40	289.35	289.36	289.35	289.35	
18	289.50	291.32	289.81	290.15	290.22	290.59	290.31	289.49	289.35	289.35	289.35	289.35	
19	289.49	290.96	289.72	289.93	290.21	290.44	290.08	289.63	289.35	289.35	289.35	289.35	
20	289.50	291.18	289.66	289.80	290.85	290.63	290.02	289.45	289.35	289.35	289.34	289.35	
21	289.50	290.49	290.01	289.72	290.68	290.32	289.94	289.42	289.35	289.35	289.35	289.35	
22	289.50	290.20	289.78	289.70	290.37	290.63	289.79	289.42	289.35	289.35	289.35	289.35	
23	289.50	290.07	289.61	289.66	290.18	290.73	289.66	289.40	289.35	289.35	289.35	289.35	
24	289.50	289.94	289.53	289.65	290.11	290.42	289.55	289.40	289.35	289.35	289.35	289.35	
25	289.50	289.89	289.55	290.00	289.99	290.78	289.47	289.42	289.35	289.35	289.35	289.35	
26	289.50	289.81	289.81	289.99	290.68	290.38	289.49	289.49	289.35	289.35	289.35	289.35	
27	289.50	289.77	290.92	289.56	291.03	290.86	289.57	289.47	289.35	289.35	289.35	289.35	
28	289.49	289.89	290.23	289.22	290.64	292.12	289.60	289.52	289.35	289.35	289.35	289.34	
29	289.49	289.87	289.97	289.71	290.25	292.17	289.63	289.49	289.35	289.35	289.35	289.34	
30	289.49	289.76	289.86	289.58	290.08	291.12	289.81	289.47	289.35	289.35	289.35	289.34	
31		289.80		290.16	290.20		289.76		289.35	289.35		289.34	
Mean	289.50	290.32	289.89	289.88	290.47	291.10	290.26	289.55	289.37	289.35	289.35	289.35	
Max	289.50	291.55	290.92	290.84	292.76	292.59	292.69	289.93	289.45	289.36	289.35	289.35	292.76
Min	289.49	289.50	289.53	289.22	289.86	290.06	289.47	289.40	289.35	289.35	289.34	289.34	289.22
Annual Max Momentary Gage Height			293.75	m. (MSL.) ,		at 22.00 Hours , on Aug 1 , 2011							
Zero Gage at Bottom Elevation			288.95	m. (MSL.) ,		River Bed	289.23	m. (MSL)					
Left Bank Elevation			293.93	m. (MSL.) ,									
Right Bank Elevation			293.68	m. (MSL.) ,		Drainage Area	934	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.09	0.10	3.02	1.52	118.50	22.86	20.01	1.76	0.07	0.02	0.02	0.02	
2	0.09	0.10	2.36	1.88	70.32	12.24	63.50	1.40	0.06	0.02	0.02	0.02	
3	0.09	0.60	2.36	12.66	36.15	15.90	114.13	0.15	0.06	0.02	0.02	0.02	
4	0.09	23.14	3.16	16.86	30.90	10.35	76.14	0.40	0.05	0.02	0.02	0.02	
5	0.09	14.94	3.72	9.12	17.34	6.78	55.90	2.74	0.05	0.02	0.02	0.02	
6	0.09	10.35	7.86	3.30	12.24	24.00	30.90	1.32	0.05	0.02	0.02	0.02	
7	0.10	15.66	10.14	1.64	8.58	67.18	21.43	0.84	0.05	0.02	0.02	0.02	
8	0.10	12.66	5.88	0.92	12.66	50.85	15.18	0.40	0.03	0.02	0.02	0.02	
9	0.10	8.76	3.58	1.00	8.22	94.14	9.93	0.25	0.02	0.02	0.02	0.02	
10	0.10	49.95	2.74	0.60	5.88	66.65	8.58	0.15	0.02	0.02	0.02	0.02	
11	0.10	51.75	3.86	0.76	6.06	49.50	6.60	1.08	0.02	0.02	0.02	0.02	
12	0.10	18.06	4.34	1.16	12.24	41.49	8.58	4.51	0.02	0.02	0.02	0.02	
13	0.10	9.30	4.00	0.55	8.94	89.42	6.42	1.64	0.02	0.02	0.02	0.02	
14	0.10	7.68	3.58	0.50	7.86	107.90	1.40	0.50	0.02	0.02	0.02	0.02	
15	0.10	26.79	3.30	12.45	5.70	56.37	2.24	0.06	0.03	0.02	0.02	0.02	
16	0.10	13.50	3.30	25.24	9.30	35.80	3.02	0.04	0.02	0.02	0.02	0.02	
17	0.10	16.38	2.88	23.43	3.44	26.48	14.46	0.04	0.02	0.02	0.02	0.02	
18	0.10	41.88	2.74	8.40	9.72	18.06	11.61	0.09	0.02	0.02	0.02	0.02	
19	0.09	28.96	1.64	4.51	9.51	14.46	7.14	0.84	0.02	0.02	0.02	0.02	
20	0.10	36.50	1.08	2.60	25.55	19.16	6.06	0.07	0.02	0.02	0.02	0.02	
21	0.10	15.66	5.88	1.64	20.58	11.82	4.68	0.05	0.02	0.02	0.02	0.02	
22	0.10	9.30	2.36	1.40	12.87	19.16	2.48	0.05	0.02	0.02	0.02	0.02	
23	0.10	6.96	0.68	1.08	8.94	22.01	1.08	0.04	0.02	0.02	0.02	0.02	
24	0.10	4.68	0.25	1.00	7.68	13.98	0.35	0.04	0.02	0.02	0.02	0.02	
25	0.10	3.86	0.35	5.70	5.53	23.43	0.08	0.05	0.02	0.02	0.02	0.02	
26	0.10	2.74	2.74	5.53	20.58	13.08	0.09	0.09	0.02	0.02	0.02	0.02	
27	0.10	2.24	27.72	0.40	31.25	25.86	0.45	0.08	0.02	0.02	0.02	0.02	
28	0.09	3.86	9.93	0.00	19.44	80.42	0.60	0.20	0.02	0.02	0.02	0.02	
29	0.09	3.58	5.19	1.52	10.35	83.10	0.84	0.09	0.02	0.02	0.02	0.02	
30	0.09	2.12	3.44	0.50	7.14	34.40	2.74	0.08	0.02	0.02		0.02	
31		2.60		8.58	9.30		2.12		0.02	0.02		0.02	
Total	2.90	444.66	134.08	156.45	572.77	1156.85	498.74	19.05	0.89	0.62	0.58	0.62	2988.21
Mean	0												

WATER YEAR : 2011

PING RIVER BASIN

Ping River at Ban Thap Dua, Chiang Mai (P.90)

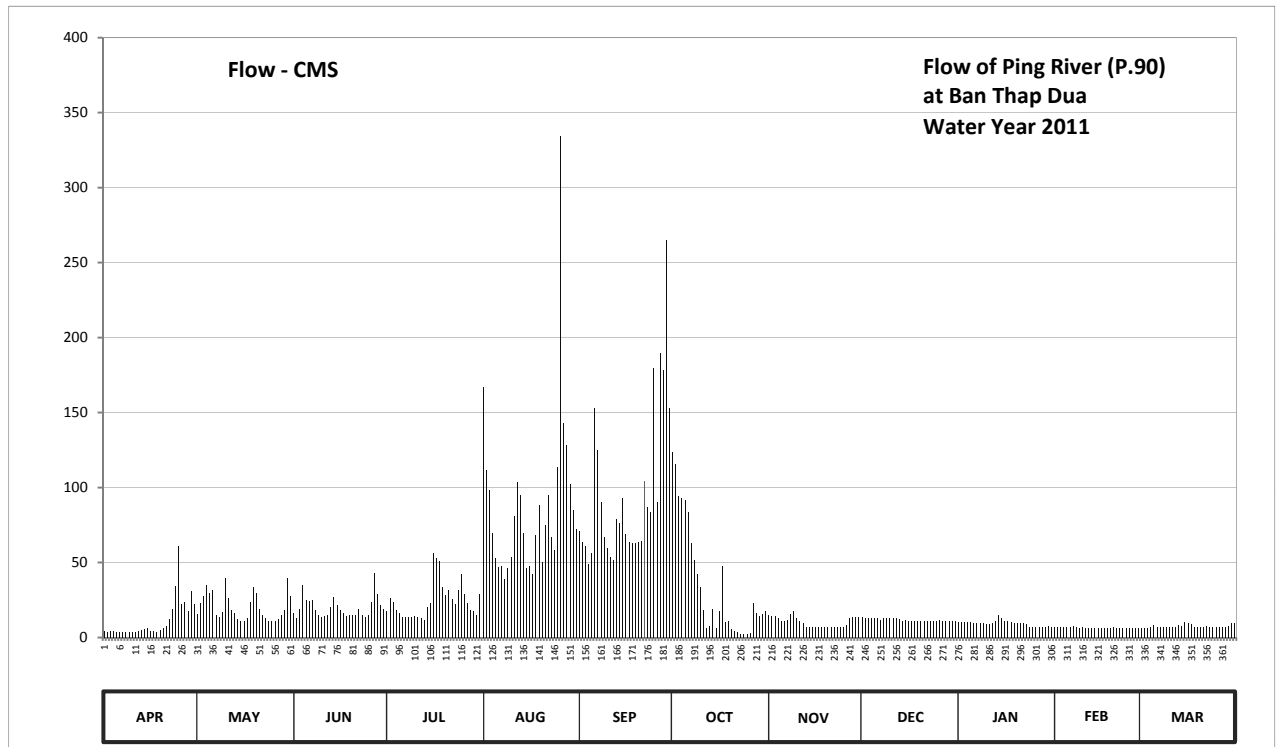
Lat 19 - 12 - 54 N Long 98 - 58 - 20 E

Location : on right bank at Ban Thap Dua.

	Ban	Thap Dua	Amphoe	Mae Taeng	Changwat	Chiang Mai
Drainage Area	1,661	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+343.338	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+348.850 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2011 to date					
Rating Operation						
Period of Rating	2011 to date					
Rated by Flot	-					
Rated by Current Meter	2011 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	Overbank flow starts at elevation +346.410 m.(MSL.) and is including overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 36 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	343.83	344.17	344.20	344.22	346.01	345.12	345.64	344.15	344.12	344.03	343.94	343.91	
2	343.82	344.35	344.10	344.42	345.53	345.04	345.57	344.14	344.11	344.03	343.94	343.91	
3	343.83	344.44	344.26	344.36	345.40	345.01	345.36	344.14	344.11	344.03	343.94	343.92	
4	343.83	344.59	344.60	344.24	345.11	344.83	345.35	344.11	344.11	344.03	343.94	343.94	
5	343.82	344.49	344.39	344.19	344.89	344.94	345.34	344.04	344.11	344.03	343.94	343.97	
6	343.82	344.52	344.37	344.13	344.80	345.89	345.26	344.04	344.10	344.02	343.94	343.94	
7	343.82	344.16	344.39	344.12	344.81	345.65	345.03	344.06	344.06	344.01	343.95	343.94	
8	343.82	344.13	344.24	344.12	344.67	345.32	344.87	344.18	344.11	344.01	343.94	343.94	
9	343.81	344.21	344.15	344.13	344.79	345.08	344.72	344.23	344.11	344.01	343.92	343.94	
10	343.81	344.68	344.13	344.14	344.91	345.00	344.57	344.11	344.11	344.00	343.93	343.94	
11	343.82	344.41	344.14	344.13	345.23	344.90	344.24	344.05	344.10	344.00	343.92	343.94	
12	343.83	344.24	344.16	344.10	345.45	344.87	343.91	344.01	344.10	344.01	343.92	343.94	
13	343.86	344.19	344.29	344.06	345.37	345.21	343.96	343.94	344.09	344.04	343.92	343.98	
14	343.90	344.09	344.43	344.29	345.11	345.18	344.25	343.94	344.05	344.15	343.92	343.96	
15	343.92	344.05	344.31	344.35	344.79	345.35	343.91	343.94	344.07	344.10	343.92	344.03	
16	343.85	344.04	344.24	344.95	344.81	345.10	344.23	343.94	344.04	344.04	343.92	344.02	
17	343.83	344.11	344.20	344.89	344.72	345.04	344.81	343.94	344.04	344.04	343.92	343.99	
18	343.82	344.36	344.14	344.86	345.09	345.03	344.03	343.94	344.04	344.03	343.92	343.94	
19	343.86	344.57	344.15	344.57	345.30	345.03	344.04	343.94	344.04	344.02	343.92	343.94	
20	343.91	344.48	344.15	344.46	344.85	345.04	343.90	343.94	344.04	344.01	343.93	343.94	
21	343.96	344.26	344.16	344.52	345.17	345.05	343.84	343.94	344.04	344.01	343.92	343.94	
22	344.08	344.15	344.25	344.40	345.37	345.46	343.82	343.93	344.04	344.01	343.92	343.96	
23	344.25	344.10	344.15	344.33	345.08	345.29	343.74	343.93	344.04	343.99	343.92	343.94	
24	344.58	344.04	344.13	344.53	344.97	345.26	343.74	343.94	344.04	343.94	343.92	343.93	
25	345.01	344.04	344.15	344.72	345.55	346.11	343.74	343.94	344.04	343.94	343.92	343.94	
26	344.33	344.05	344.36	344.47	347.09	345.32	343.80	343.98	344.06	343.94	343.92	343.94	
27	344.36	344.09	344.74	344.34	345.81	346.19	344.35	344.11	344.04	343.94	343.92	343.94	
28	344.22	344.15	344.47	344.24	345.68	346.10	344.20	344.12	344.04	343.94	343.91	343.94	
29	344.51	344.24	344.31	344.22	345.44	346.68	344.14	344.12	344.04	343.94	343.91	343.95	
30	344.33	344.68	344.25	344.15	345.27	345.89	344.17	344.13	344.04	343.95		344.01	
31		344.44		344.47	345.14		344.23		344.04	343.94		344.01	
Mean	344.01	344.27	344.27	344.36	345.23	345.33	344.41	344.03	344.07	344.01	343.93	343.95	
Max	345.01	344.68	344.74	344.95	347.09	346.68	345.64	344.23	344.12	344.15	343.95	344.03	347.09
Min	343.81	344.04	344.10	344.06	344.67	344.83	343.74	343.93	344.04	343.94	343.91	343.91	343.74
Annual Max Momentary Gage Height	348.28		m. (MSL.) ,		at 10.00 Hours , on Aug 26 , 2011								
Zero Gage at Bottom Elevation	343.34		m. (MSL.) ,		River Bed	343.30	m. (MSL)						
Left Bank Elevation	347.66		m. (MSL.) ,										
Right Bank Elevation	346.40		m. (MSL.) ,		Drainage Area	1661	Square Kilometers						

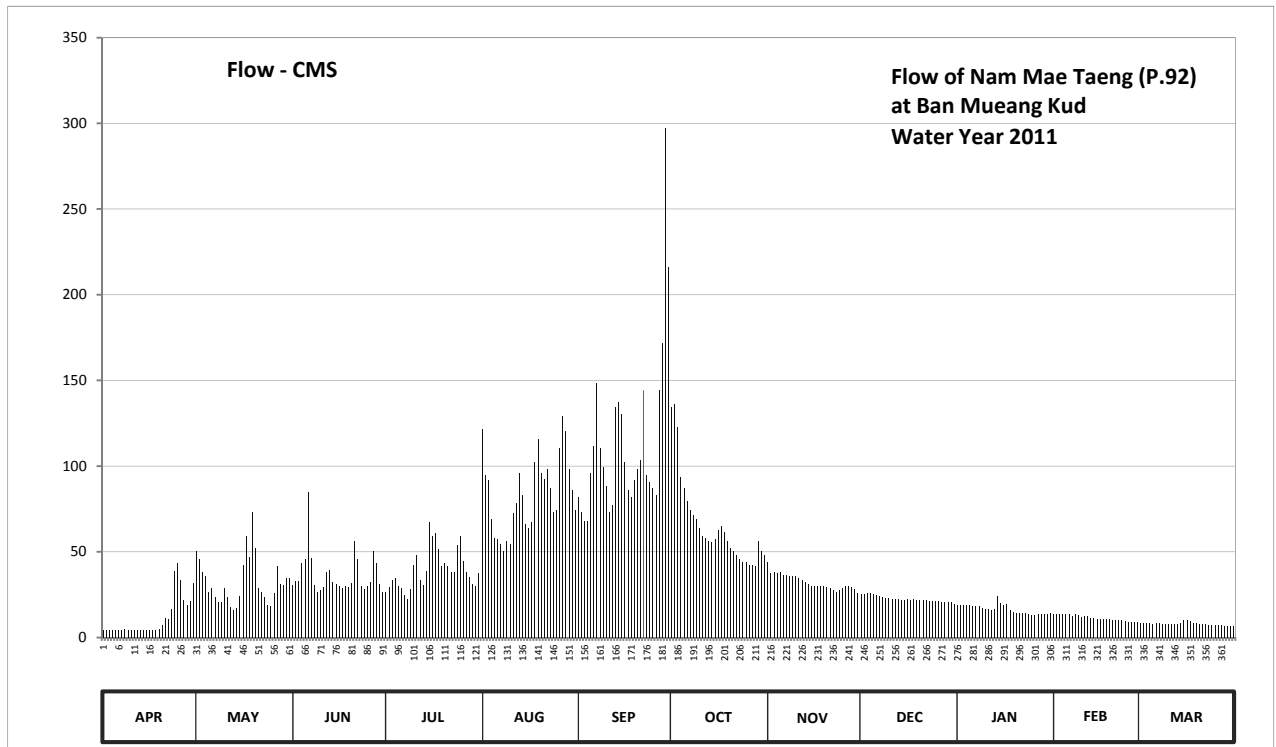


Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.98	15.39	16.50	17.36	167.25	70.80	123.60	14.65	13.54	10.28	7.16	6.14	
2	3.72	23.20	12.80	26.56	111.65	63.60	115.85	14.28	13.17	10.28	7.16	6.14	
3	3.98	27.52	19.08	23.68	98.00	60.90	94.00	14.28	13.17	10.28	7.16	6.48	
4	3.98	34.72	35.20	18.22	69.90	48.69	93.00	13.17	13.17	10.28	7.16	7.16	
5	3.72	29.92	25.12	16.13	52.69	56.01	92.00	10.64	13.17	10.28	7.16	8.18	
6	3.72	31.36	24.16	13.91	46.70	152.80	84.00	10.64	12.80	9.92	7.16	7.16	
7	3.72	15.02	25.12	13.54	47.37	124.75	62.70	11.36	11.36	9.56	7.50	7.16	
8	3.72	13.91	18.22	13.54	39.23	90.00	51.36	15.76	13.17	9.56	7.16	7.16	
9	3.46	16.93	14.65	13.91	46.13	67.20	42.10	17.79	13.17	9.56	6.48	7.16	
10	3.46	39.80	13.91	14.28	54.02	60.00	33.76	13.17	13.17	9.20	6.82	7.16	
11	3.72	26.08	14.28	13.91	81.00	53.35	18.22	11.00	12.80	9.20	6.48	7.16	
12	3.98	18.22	15.02	12.80	103.25	51.36	6.14	9.56	12.80	9.56	6.48	7.16	
13	4.76	16.13	20.37	11.36	95.00	79.00	7.84	7.16	12.44	10.64	6.48	8.52	
14	5.80	12.44	27.04	20.37	69.90	76.20	18.65	7.16	11.00	14.65	6.48	7.84	
15	6.48	11.00	21.28	23.20	46.13	93.00	6.14	7.16	11.72	12.80	6.48	10.28	
16	4.50	10.64	18.22	56.68	47.37	69.00	17.79	7.16	10.64	10.64	6.48	9.92	
17	3.98	13.17	16.50	52.69	42.10	63.60	47.37	7.16	10.64	10.64	6.48	8.86	
18	3.72	23.68	14.28	50.69	68.10	62.70	10.28	7.16	10.64	10.28	6.48	7.16	
19	4.76	33.76	14.65	33.76	88.00	62.70	10.64	7.16	10.64	9.92	6.48	7.16	
20	6.14	29.44	14.65	28.48	50.03	63.60	5.80	7.16	10.64	9.56	6.82	7.16	
21	7.84	19.08	15.02	31.36	75.30	64.50	4.24	7.16	10.64	9.56	6.48	7.16	
22	12.08	14.65	18.65	25.60	95.00	104.30	3.72	6.82	10.64	9.56	6.48	7.84	
23	18.65	12.80	14.65	22.24	67.20	87.00	2.18	6.82	10.64	8.86	6.48	7.16	
24	34.24	10.64	13.91	31.84	58.01	84.00	2.18	7.16	10.64	7.16	6.48	6.82	
25	60.90	10.64	14.65	42.10	113.75	179.75	2.18	7.16	10.64	7.16	6.48	7.16	
26	22.24	11.00	23.68	28.96	334.20	90.00	3.20	8.52	11.36	7.16	6.48	7.16	
27	23.68	12.44	43.25	22.72	143.20	189.75	23.20	13.17	10.64	7.16	6.48	7.16	
28	17.36	14.65	28.96	18.22	128.20	178.50	16.50	13.54	10.64	7.16	6.14	7.16	
29	30.88	18.22	21.28	17.36	102.20	264.80	14.28	13.54	10.64	7.16	6.14	7.50	
30	22.24	39.80	18.65	14.65	85.00	152.80	15.39	13.91	10.64	7.50		9.56	
31		27.52		28.96	72.60		17.79		10.64	7.16		9.56	
Total	335.41	633.77	593.75	759.08	2698.48	2864.66	1046.10	311.38	361.61	292.69	193.70	235.36	10325.99 CMSDAY
Mean	11.18	20.44	19.79	24.49	87.05	95.49	33.75	10.38	11.66	9.44	6.68	7.59	28.21 CMS
Max	60.90	39.80	43.25	56.68	334.20	264.80	123.60	17.79	13.54	14.65	7.50	10.28	334.20 CMS
Min	3.46	10.64	12.80	11.36	39.23	48.69	2.18	6.82	10.64	7.16	6.14	6.14	2.18 CMS
Runoff	28.98	54.76	51.30	65.59	233.15	247.51	90.38	26.90	31.24	25.29	16.74	20.34	892.17 MCM
Momentary Peak	584.40 CMS. at 348.28 m. (MSL.) at 10.00 Hours , on Aug 26 , 2011												
Runoff Yield	16.99	Liters/Second/Square KM.			Momentary Peak Yield 351.836			Liters/Second/Square KM.					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	413.66	413.73	413.80	413.80	416.15	414.19	414.46	414.04	413.90	413.90	413.90	413.86	
2	413.67	413.71	413.74	413.79	414.61	414.17	414.31	414.00	413.94	413.90	413.90	413.87	
3	413.67	413.69	413.71	413.78	414.27	414.21	414.28	414.00	413.92	413.90	413.90	413.87	
4	413.67	413.69	413.73	413.78	414.16	414.27	414.27	414.01	413.92	413.90	413.88	413.86	
5	413.66	413.68	413.76	413.76	414.10	414.93	414.24	414.04	413.91	413.90	413.87	413.86	
6	413.66	413.66	413.79	413.73	414.10	414.65	414.18	414.02	413.91	413.90	413.87	413.86	
7	413.66	413.66	413.78	413.70	414.10	414.29	414.18	414.01	413.92	413.90	413.88	413.86	
8	413.66	413.64	413.76	413.70	414.11	414.29	414.17	414.04	413.92	413.90	413.88	413.86	
9	413.66	413.52	413.74	413.74	414.21	414.13	414.17	414.14	413.91	413.89	413.88	413.86	
10	413.66	413.50	413.77	413.84	414.27	414.11	414.16	414.04	413.90	413.88	413.88	413.86	
11	413.65	413.49	413.88	413.86	415.11	414.11	414.10	414.00	413.90	413.90	413.88	413.86	
12	413.65	413.49	414.17	413.77	414.47	414.12	414.11	414.00	413.90	413.88	413.88	413.84	
13	413.65	413.48	414.02	413.78	414.68	414.23	414.12	414.00	413.91	413.88	413.88	413.83	
14	413.65	413.51	413.75	413.99	414.26	414.40	414.10	414.00	413.93	413.90	413.88	413.84	
15	413.65	413.53	413.71	414.03	414.18	414.57	414.10	414.00	413.92	413.92	413.88	413.84	
16	413.65	413.54	413.70	413.90	414.21	414.26	414.12	414.00	413.92	413.90	413.88	413.83	
17	413.65	413.60	413.70	413.90	414.16	414.18	414.17	414.00	413.92	413.90	413.86	413.80	
18	413.65	413.71	413.69	413.90	414.21	414.20	414.15	414.00	413.92	413.90	413.86	413.80	
19	413.65	413.77	413.68	413.90	414.47	414.42	414.14	414.00	413.91	413.90	413.86	413.80	
20	413.65	413.81	413.70	413.87	414.95	414.47	414.12	414.00	413.90	413.90	413.86	413.80	
21	413.59	413.82	413.75	413.79	414.58	415.10	414.10	413.99	413.89	413.90	413.88	413.81	
22	413.59	413.80	413.72	413.80	414.29	414.49	414.10	413.96	413.91	413.90	413.88	413.80	
23	413.72	413.76	413.75	413.80	414.19	414.29	414.09	413.94	413.92	413.88	413.88	413.79	
24	413.80	413.72	413.87	413.82	414.44	414.31	414.08	413.96	413.92	413.89	413.87	413.80	
25	413.89	413.66	413.91	413.86	414.45	414.27	414.06	413.98	413.92	413.87	413.88	413.80	
26	413.85	413.89	413.93	413.87	416.72	414.21	414.06	414.00	413.92	413.87	413.88	413.80	
27	413.80	414.12	413.94	413.81	415.12	414.64	414.07	414.00	413.90	413.88	413.88	413.80	
28	413.76	414.12	413.91	413.80	414.15	416.42	414.08	413.98	413.90	413.88	413.88	413.80	
29	413.75	413.97	413.88	413.80	414.23	414.78	414.07	413.90	413.91	413.88	413.88	413.80	
30	413.74	413.89	413.84	413.79	414.27	414.49	414.09	413.90	413.90	413.88		413.80	
31		413.86		414.07	414.15		414.09		413.90	413.89			
Mean	413.69	413.71	413.80	413.83	414.50	414.44	414.15	414.00	413.91	413.89	413.88	413.83	
Max	413.89	414.12	414.17	414.07	416.72	416.42	414.46	414.14	413.94	413.92	413.90	413.87	416.72
Min	413.59	413.48	413.68	413.70	414.10	414.11	414.06	413.90	413.89	413.87	413.86	413.79	413.48
Annual Max Momentary Gage Height			417.26	m. (MSL.) ,		at 09.00 Hours , on Aug 1 , 2011							
Zero Gage at Bottom Elevation			413.10	m. (MSL.) ,		River Bed	413.37	m. (MSL)					
Left Bank Elevation			418.78	m. (MSL.) ,									
Right Bank Elevation			418.84	m. (MSL.) ,		Drainage Area	130	Square Kilometers					

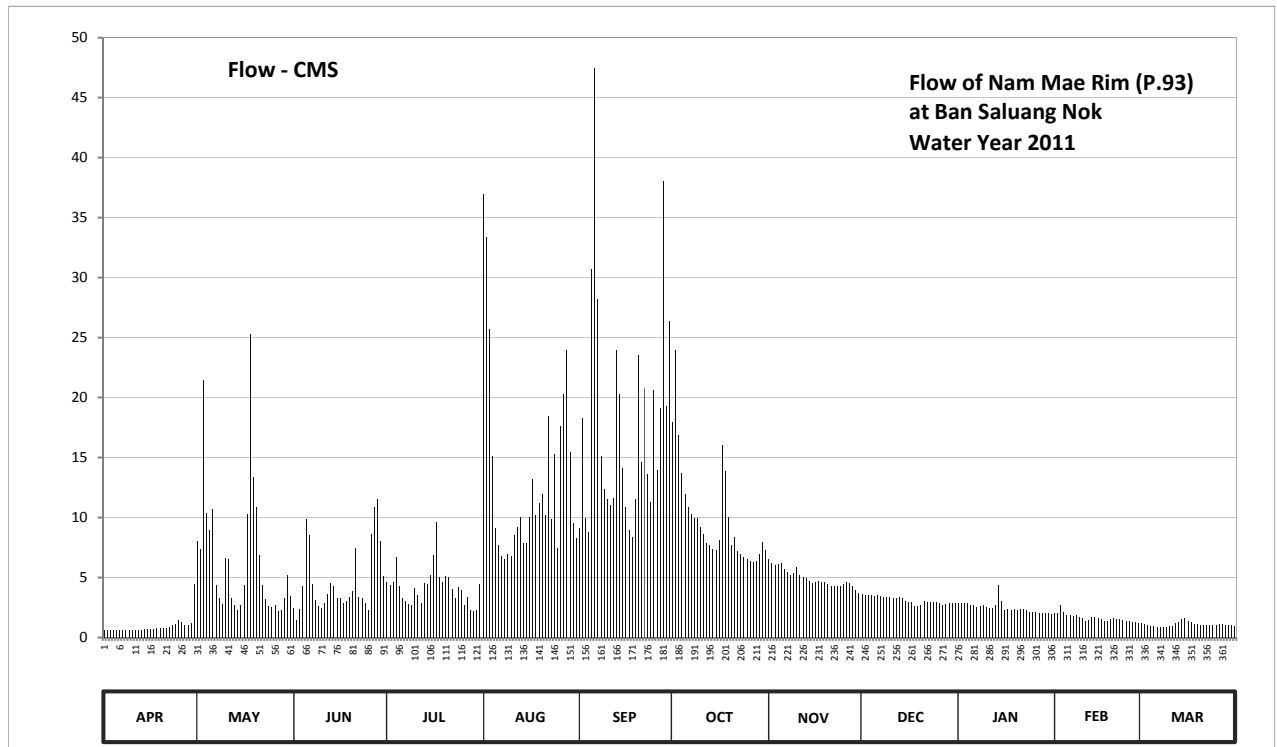
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.42	0.68	1.10	1.10	78.12	6.34	11.71	3.94	2.20	2.20	2.20	1.76		
2	0.44	0.56	0.74	1.04	15.27	6.02	8.59	3.30	2.64	2.20	2.20	1.87		
3	0.44	0.48	0.56	0.98	7.83	6.69	8.02	3.30	2.42	2.20	2.20	1.87		
4	0.44	0.48	0.68	0.98	5.86	7.83	7.83	3.46	2.42	2.20	1.98	1.76		
5	0.42	0.46	0.86	0.86	4.90	24.23	7.26	3.94	2.31	2.20	1.87	1.76		
6	0.42	0.42	1.04	0.68	4.90	16.35	6.18	3.62	2.31	2.20	1.87	1.76		
7	0.42	0.42	0.98	0.50	4.90	8.21	6.18	3.46	2.42	2.20	1.98	1.76		
8	0.42	0.38	0.86	0.50	5.06	8.21	6.02	3.94	2.42	2.20	1.98	1.76		
9	0.42	0.14	0.74	0.74	6.69	5.38	6.02	5.54	2.31	2.09	1.98	1.76		
10	0.42	0.10	0.92	1.54	7.83	5.06	5.86	3.94	2.20	1.98	1.98	1.76		
11	0.40	0.09	1.98	1.76	29.98	5.06	4.90	3.30	2.20	2.20	1.98	1.76		
12	0.40	0.09	6.02	0.92	11.95	5.22	5.06	3.30	2.20	1.98	1.98	1.54		
13	0.40	0.08	3.62	0.98	17.16	7.07	5.22	3.30	2.31	1.98	1.98	1.43		
14	0.40	0.12	0.80	3.19	7.64	10.30	4.90	3.30	2.53	2.20	1.98	1.54		
15	0.40	0.16	0.56	3.78	6.18	14.30	4.90	3.30	2.42	2.42	1.98	1.54		
16	0.40	0.18	0.50	2.20	6.69	7.64	5.22	3.30	2.42	2.20	1.98	1.43		
17	0.40	0.30	0.50	2.20	5.86	6.18	6.02	3.30	2.42	2.20	1.76	1.10		
18	0.40	0.56	0.48	2.20	6.69	6.50	5.70	3.30	2.42	2.20	1.76	1.10		
19	0.40	0.92	0.46	2.20	11.95	10.77	5.54	3.30	2.31	2.20	1.76	1.10		
20	0.40	1.21	0.50	1.87	24.83	11.95	5.22	3.30	2.20	2.20	1.76	1.10		
21	0.28	1.32	0.80	1.04	14.53	29.65	4.90	3.19	2.09	2.20	1.98	1.21		
22	0.28	1.10	0.62	1.10	8.21	12.41	4.90	2.86	2.31	2.20	1.98	1.10		
23	0.62	0.86	0.80	1.10	6.34	8.21	4.74	2.64	2.42	1.98	1.98	1.04		
24	1.10	0.62	1.87	1.32	11.24	8.59	4.58	2.86	2.42	2.09	1.87	1.10		
25	2.09	0.42	2.31	1.76	11.48	7.83	4.26	3.08	2.42	1.87	1.98	1.10		
26	1.65	2.09	2.53	1.87	115.20	6.69	4.26	3.30	2.42	1.87	1.98	1.10		
27	1.10	5.22	2.64	1.21	30.32	16.08	4.42	3.30	2.20	1.98	1.98	1.10		
28	0.86	5.22	2.31	1.10	5.70	94.80	4.58	3.08	2.20	1.98	1.98	1.10		
29	0.80	2.97	1.98	1.10	7.07	19.86	4.42	2.20	2.31	1.98	1.98	1.10		
30	0.74	2.09	1.54	1.04	7.83	12.41	4.74	2.20	2.20	1.98		1.10		
31		1.76		4.42	5.70		4.74		2.20	2.09		1.10		
Total	17.78	31.50	41.30	47.28	493.91	395.84	176.89	100.15	72.27	65.67	56.87	43.61	1543.07	CMSDAY
Mean	0.59	1.02	1.38	1.53	15.93									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.40	50.55	30.58	26.80	121.75	81.80	134.40	44.10	25.24	19.20	13.65	8.40		
2	4.40	45.66	33.10	29.32	94.80	73.40	135.80	37.36	25.24	18.72	13.65	8.40		
3	4.40	38.07	33.10	33.81	91.50	68.15	123.00	38.07	25.76	18.72	13.65	8.40		
4	4.40	35.94	43.32	34.52	69.20	68.15	93.70	37.36	25.76	19.20	13.65	8.40		
5	4.40	26.80	45.66	29.95	58.20	95.90	87.10	38.07	25.24	18.72	13.65	8.08		
6	4.40	28.69	84.95	28.69	57.35	111.75	79.70	36.65	24.72	18.24	13.65	8.40		
7	4.40	23.68	46.44	24.72	54.80	148.40	74.45	36.65	24.20	18.24	12.75	8.40		
8	4.82	20.64	30.58	22.64	50.55	110.50	71.30	35.94	23.68	18.24	13.65	8.08		
9	4.40	20.64	26.80	28.06	56.50	99.20	69.20	35.94	23.16	17.28	13.20	8.08		
10	4.40	28.69	27.43	42.54	54.80	88.20	64.15	35.94	23.16	16.80	11.91	8.08		
11	4.40	23.68	29.32	48.00	72.35	73.40	59.05	34.52	22.64	16.35	12.30	7.76		
12	4.40	17.76	38.07	33.81	78.65	77.60	58.20	33.81	22.64	15.90	12.30	7.76		
13	4.40	15.90	39.49	30.58	95.90	134.40	56.50	32.47	22.64	16.80	11.52	8.08		
14	4.40	17.28	32.47	38.78	82.85	137.20	55.65	31.21	22.12	24.20	11.13	8.40		
15	4.40	24.20	31.21	67.10	66.05	130.50	57.35	29.95	22.12	20.16	10.74	10.35		
16	4.40	42.54	29.95	59.05	64.15	102.50	62.45	29.95	22.64	19.20	10.74	9.96		
17	4.40	59.05	28.69	60.75	67.10	86.00	65.00	29.95	22.12	19.68	10.74	9.57		
18	4.40	47.22	29.95	51.40	102.50	81.80	61.60	29.95	22.64	15.90	10.74	8.40		
19	5.24	73.40	29.32	41.76	115.50	91.50	56.50	29.95	22.12	15.00	10.74	8.40		
20	7.51	52.25	31.84	43.32	95.90	98.10	52.25	29.32	21.60	14.55	10.35	8.08		
21	11.55	28.69	56.50	41.76	92.60	103.60	50.55	28.69	21.60	14.55	10.35	8.08		
22	10.54	26.28	45.66	38.07	98.10	144.20	48.00	27.43	21.60	14.55	10.35	8.08		
23	16.80	23.68	29.95	38.07	87.10	94.80	45.66	26.80	21.12	14.10	10.35	7.44		
24	38.78	19.20	28.06	53.95	73.40	90.40	44.10	27.43	21.12	13.65	9.57	7.12		
25	43.32	18.24	29.95	59.05	74.45	87.10	44.10	28.69	21.12	13.20	9.18	7.12		
26	33.81	25.76	32.47	44.88	110.50	82.85	42.54	29.95	21.12	13.20	8.79	7.12		
27	22.12	41.76	50.55	38.07	129.25	144.20	42.54	29.95	20.64	13.65	8.79	7.12		
28	19.20	31.21	43.32	35.23	120.50	171.50	41.76	29.32	20.64	13.65	8.79	6.80		
29	21.12	30.58	31.21	31.21	98.10	297.00	56.50	28.06	20.64	13.65	8.40	6.80		
30	31.84	34.52	26.80	29.95	86.00	215.75	50.55	25.76	20.64	13.65		6.80		
31		34.52		37.36	74.45		48.00		19.68	14.10		6.80		
Total	341.45	1007.08	1096.74	1223.20	2594.85	3389.85	2031.65	969.24	699.36	513.05	329.28	248.76	14444.51	CMSDAY
Mean	11.38	32.49	36.56	39.46	83.70	113.00	65.54	32.31	22.56	16.55	11.35	8.02	39.47	CMS
Max	43.32	73.40	84.95	67.10	129.25	297.00	135.80	44.10	25.76	24.20	13.65	10.35	297.00	CMS
Min	4.40	15.90	26.80	22.64	50.55	68.15	41.76	25.76	19.68	13.20	8.40	6.80	4.40	CMS
Runoff	29.50	87.01	94.76	105.68	224.20	292.88	175.54	83.74	60.43	44.33	28.45	21.49	1248.01	MCM
Momentary Peak	341.60	CMS. at 443.64 m. (MSL.) at 15.00 Hours , on Sep 29 , 2011												
Runoff Yield	23.88	Liters/Second/Square KM.			Momentary Peak Yield		206.655	Liters/Second/Square KM.						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	340.61	341.76	341.03	341.35	343.45	341.87	342.57	341.59	341.22	341.10	340.94	340.77	
2	340.61	341.69	340.83	341.32	343.32	342.59	342.91	341.55	341.20	341.09	340.94	340.75	
3	340.61	342.78	341.01	341.35	343.00	341.95	342.50	341.53	341.20	341.09	341.07	340.73	
4	340.61	341.99	341.31	341.61	342.38	341.84	342.27	341.54	341.20	341.09	340.96	340.72	
5	340.62	341.85	341.94	341.31	341.87	343.22	342.13	341.55	341.19	341.06	340.91	340.71	
6	340.62	342.02	341.81	341.17	341.72	343.80	342.03	341.49	341.20	341.06	340.91	340.70	
7	340.62	341.32	341.33	341.13	341.62	343.11	341.98	341.46	341.19	341.04	340.90	340.70	
8	340.62	341.16	341.14	341.08	341.59	342.38	341.95	341.43	341.18	341.05	340.91	340.70	
9	340.62	341.08	341.05	341.06	341.64	342.16	341.95	341.45	341.18	341.07	340.89	340.70	
10	340.62	341.60	341.03	341.28	341.62	342.09	341.88	341.51	341.18	341.04	340.86	340.71	
11	340.63	341.59	341.09	341.21	341.81	342.05	341.82	341.43	341.17	341.02	340.81	340.72	
12	340.63	341.17	341.22	341.09	341.88	342.10	341.74	341.41	341.17	341.02	340.83	340.78	
13	340.63	341.07	341.34	341.34	341.96	342.91	341.72	341.39	341.18	341.07	340.89	340.79	
14	340.64	340.99	341.30	341.33	341.74	342.71	341.69	341.36	341.17	341.32	340.88	340.84	
15	340.64	341.06	341.17	341.43	341.74	342.30	341.68	341.34	341.13	341.12	340.86	340.86	
16	340.64	341.32	341.17	341.63	341.96	342.03	341.77	341.35	341.11	341.00	340.84	340.81	
17	340.65	341.98	341.09	341.92	342.23	341.85	342.44	341.36	341.11	341.01	340.82	340.79	
18	340.68	342.98	341.12	341.40	341.97	341.80	342.28	341.35	341.05	341.00	340.82	340.75	
19	340.68	342.24	341.18	341.35	342.06	342.09	341.96	341.35	341.05	341.01	340.84	340.75	
20	340.68	342.03	341.25	341.42	342.13	342.89	341.72	341.33	341.07	341.00	340.86	340.74	
21	340.68	341.63	341.70	341.40	341.97	342.34	341.80	341.31	341.12	341.01	340.85	340.74	
22	340.69	341.32	341.18	341.27	342.60	342.74	341.67	341.30	341.11	341.01	340.84	340.74	
23	340.74	341.15	341.17	341.17	341.94	342.26	341.64	341.30	341.11	341.00	340.83	340.74	
24	340.75	341.05	341.10	341.29	342.39	342.07	341.61	341.30	341.11	340.97	340.82	340.74	
25	340.83	341.04	341.00	341.26	341.70	342.73	341.59	341.33	341.11	340.97	340.81	340.73	
26	340.80	341.06	341.82	341.06	342.55	342.29	341.57	341.35	341.10	340.96	340.80	340.75	
27	340.73	340.98	342.03	341.18	342.71	342.64	341.56	341.34	341.07	340.94	340.79	340.75	
28	340.74	340.99	342.09	341.00	342.91	343.49	341.57	341.30	341.08	340.94	340.77	340.74	
29	340.77	341.17	341.76	340.98	342.40	342.65	341.64	341.26	341.10	340.94	340.77	340.74	
30	341.33	341.43	341.42	340.99	341.91	343.03	341.75	341.23	341.10	340.94		340.73	
31		341.19		341.33	341.79		341.68		341.10	340.93		340.72	
Mean	340.69	341.51	341.32	341.28	342.15	342.47	341.91	341.39	341.14	341.03	340.86	340.75	
Max	341.33	342.98	342.09	341.92	343.45	343.80	342.91	341.59	341.22	341.32	341.07	340.86	343.80
Min	340.61	340.98	340.83	340.98	341.59	341.80	341.56	341.23	341.05	340.93	340.77	340.70	340.61
Annual Max Momentary Gage Height	344.19		m. (MSL.) ,		at 22.00 Hours , on Sep 5 , 2011								
Zero Gage at Bottom Elevation	340.59		m. (MSL.) ,		River Bed	340.15		m. (MSL)					
Left Bank Elevation	344.19		m. (MSL.) ,										
Right Bank Elevation	344.08		m. (MSL.) ,		Drainage Area	411		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.58	8.04	2.48	4.63	36.93	9.14	17.95	6.52	3.65	2.90	2.00	1.18	
2	0.58	7.41	1.45	4.40	33.38	18.25	23.95	6.20	3.50	2.84	2.00	1.10	
3	0.58	21.46	2.36	4.63	25.70	9.98	16.90	6.04	3.50	2.84	2.72	1.02	
4	0.58	10.39	4.32	6.69	15.14	8.82	13.71	6.12	3.50	2.84	2.10	0.98	
5	0.62	8.93	9.87	4.32	9.14	30.73	11.99	6.20	3.44	2.66	1.85	0.94	
6	0.62	10.73	8.51	3.32	7.68	47.50	10.84	5.72	3.50	2.66	1.85	0.90	
7	0.62	4.40	4.47	3.08	6.78	28.17	10.29	5.48	3.44	2.54	1.80	0.90	
8	0.62	3.26	3.14	2.78	6.52	15.14	9.98	5.24	3.38	2.60	1.85	0.90	
9	0.62	2.78	2.60	2.66	6.96	12.34	9.98	5.40	3.38	2.72	1.75	0.90	
10	0.62	6.60	2.48	4.10	6.78	11.53	9.24	5.88	3.38	2.54	1.60	0.94	
11	0.65	6.52	2.84	3.57	8.51	11.07	8.61	5.24	3.32	2.42	1.35	0.98	
12	0.65	3.32	3.65	2.84	9.24	11.65	7.86	5.08	3.32	2.42	1.45	1.22	
13	0.65	2.72	4.55	4.55	10.08	23.95	7.68	4.93	3.38	2.72	1.75	1.26	
14	0.69	2.25	4.25	4.47	7.86	20.27	7.41	4.70	3.32	4.40	1.70	1.50	
15	0.69	2.66	3.32	5.24	7.86	14.10	7.32	4.55	3.08	3.02	1.60	1.60	
16	0.69	4.40	3.32	6.87	10.08	10.84	8.13	4.63	2.96	2.30	1.50	1.35	
17	0.72	10.29	2.84	9.66	13.19	8.93	16.00	4.70	2.96	2.36	1.40	1.26	
18	0.83	25.31	3.02	5.00	10.19	8.40	13.84	4.63	2.60	2.30	1.40	1.10	
19	0.83	13.32	3.38	4.63	11.19	11.53	10.08	4.63	2.60	2.36	1.50	1.10	
20	0.83	10.84	3.87	5.16	11.99	23.56	7.68	4.47	2.72	2.30	1.60	1.06	
21	0.83	6.87	7.50	5.00	10.19	14.62	8.40	4.32	3.02	2.36	1.55	1.06	
22	0.86	4.40	3.38	4.02	18.40	20.78	7.23	4.25	2.96	2.36	1.50	1.06	
23	1.06	3.20	3.32	3.32	9.87	13.58	6.96	4.25	2.96	2.30	1.45	1.06	
24	1.10	2.60	2.90	4.18	15.27	11.31	6.69	4.25	2.96	2.15	1.40	1.06	
25	1.45	2.54	2.30	3.95	7.50	20.61	6.52	4.47	2.96	2.15	1.35	1.02	
26	1.30	2.66	8.61	2.66	17.65	13.97	6.36	4.63	2.90	2.10	1.30	1.10	
27	1.02	2.20	10.84	3.38	20.27	19.08	6.28	4.55	2.72	2.00	1.26	1.10	
28	1.06	2.25	11.53	2.30	23.95	38.06	6.36	4.25	2.78	2.00	1.18	1.06	
29	1.18	3.32	8.04	2.20	15.40	19.25	6.96	3.95	2.90	2.00	1.18	1.06	
30	4.47	5.24	5.16	2.25	9.56	26.37	7.95	3.73	2.90	2.00		1.02	
31		3.44		4.47	8.31		7.32		2.90	1.95		0.98	
Total	27.60	204.35	140.30	130.33	411.57	533.53	306.47	149.01	96.89	77.11	46.94	33.77	2157.87 CMSDAY
Mean	0.92	6.59	4.68	4.20	13.28	17.78	9.89	4.97	3.13	2.49	1.62	1.09	5.90 CMS
Max	4.47	25.31	11.53	9.66	36.93	47.50	23.95	6.52	3.65	4.40	2.72	1.60	47.50 CMS
Min	0.58	2.20	1.45	2.20	6.52	8.40	6.28	3.73	2.60	1.95	1.18	0.90	0.58 CMS
Runoff	2.39	17.66	12.12	11.26	35.56	46.10	26.48	12.87	8.37	6.66	4.06	2.92	186.44 MCM
Momentary Peak	60.94 CMS. at 344.19 m. (MSL.) at 22.00 Hours , on Sep 5 , 2011												
Runoff Yield	14.35	Liters/Second/Square KM.			Momentary Peak Yield			148.273	Liters/Second/Square KM.				

WATER YEAR : 2011

WANG RIVER BASIN

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

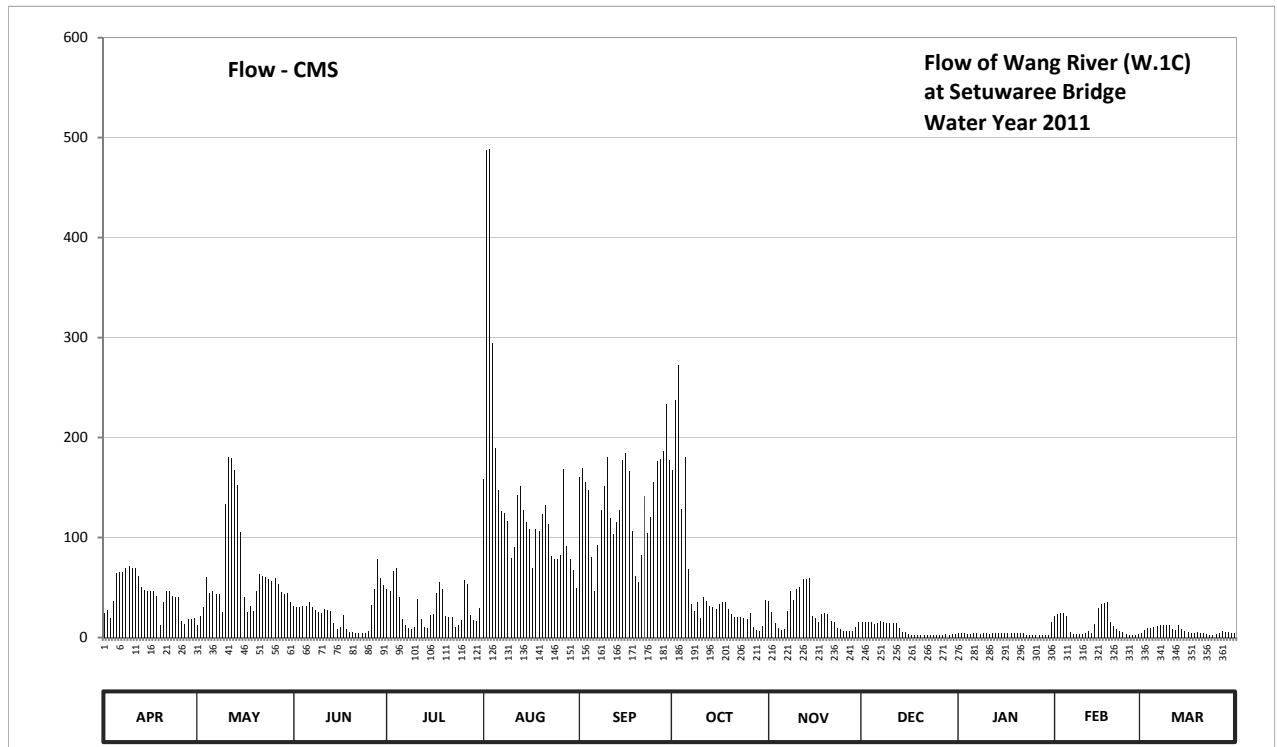
Lat 18 - 17 - 51 N Long 99 - 30 - 56 E

Location : on left bank at the bridge.

	Ban	Setuwaree Bridge	Amphoe	Mueang	Changwat	Lampang
Drainage Area	3,478	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+229.300	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the approach of the bridge.				Elevation	+234.725 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1990 - 1998, 2006 to date					
Rating Operation						
Period of Rating	1990 - 1998, 2006 to date					
Rated by Flot	-					
Rated by Current Meter	1990 - 1998, 2006 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 51 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	229.39	229.08	229.53	229.84	231.26	231.28	231.35	229.62	229.19	228.72	229.33	228.70	
2	229.45	229.33	229.51	229.80	233.55	231.37	231.99	229.41	229.18	228.76	229.37	228.87	
3	229.28	229.50	229.51	230.13	233.56	231.23	232.27	229.15	229.18	228.72	229.40	228.96	
4	229.62	230.03	229.53	230.17	232.44	231.15	230.95	228.96	229.18	228.63	229.38	228.99	
5	230.10	229.77	229.52	229.69	231.56	230.34	231.48	228.90	229.13	228.63	229.32	229.01	
6	230.11	229.80	229.60	229.25	231.15	229.80	230.16	228.95	229.15	228.73	228.80	229.04	
7	230.12	229.76	229.50	229.09	230.92	230.50	229.57	229.43	229.21	228.70	228.68	229.09	
8	230.18	229.76	229.45	228.99	230.90	230.93	229.42	229.81	229.18	228.69	228.65	229.09	
9	230.20	229.41	229.41	228.91	230.81	231.19	229.60	229.64	229.15	228.72	228.68	229.07	
10	230.18	231.01	229.40	229.00	230.32	231.48	229.28	229.85	229.16	228.72	228.66	229.10	
11	230.18	231.48	229.46	229.67	230.47	230.84	229.70	229.87	229.16	228.69	228.72	228.91	
12	230.06	231.47	229.45	229.25	231.10	230.64	229.63	230.00	229.16	228.71	228.85	228.88	
13	229.87	231.35	229.43	229.00	231.19	230.79	229.52	230.01	228.98	228.74	228.73	229.07	
14	229.83	231.20	229.15	228.96	230.93	230.93	229.51	230.02	228.78	228.73	229.12	228.92	
15	229.80	230.67	228.95	229.35	230.79	231.45	229.46	229.32	228.79	228.74	229.49	228.84	
16	229.80	229.70	229.00	229.36	230.70	231.52	229.57	229.28	228.65	228.74	229.57	228.77	
17	229.80	229.41	229.35	229.78	230.17	231.34	229.61	229.19	228.59	228.75	229.58	228.74	
18	229.71	229.53	228.94	229.96	230.70	230.68	229.60	229.37	228.59	228.73	229.60	228.74	
19	229.07	229.42	228.82	229.85	230.68	230.06	229.46	229.39	228.57	228.73	229.17	228.79	
20	229.60	229.80	228.77	229.33	230.89	229.95	229.36	229.37	228.55	228.72	229.05	228.76	
21	229.80	230.08	228.75	229.31	231.00	230.36	229.31	229.22	228.54	228.73	228.94	228.73	
22	229.81	230.05	228.75	229.31	230.77	231.09	229.31	229.17	228.55	228.70	228.84	228.64	
23	229.71	230.04	228.75	229.02	230.35	230.66	229.31	228.99	228.62	228.60	228.78	228.60	
24	229.69	230.00	228.76	229.07	230.31	230.85	229.28	228.95	228.62	228.58	228.67	228.62	
25	229.70	229.98	228.84	229.24	230.31	231.23	229.26	228.85	228.60	228.58	228.62	228.66	
26	229.21	230.02	229.55	229.99	230.37	231.44	229.38	228.85	228.61	228.57	228.60	228.76	
27	229.13	229.92	229.85	229.93	231.36	231.46	229.02	228.85	228.60	228.55	228.59	228.83	
28	229.25	229.79	230.31	229.34	230.48	231.54	228.88	228.86	228.63	228.53	228.64	228.82	
29	229.25	229.76	230.02	229.24	230.31	231.95	228.85	229.00	228.61	228.53	228.70	228.78	
30	229.27	229.78	229.91	229.21	230.15	231.45	229.05	229.19	228.64	228.58		228.75	
31		229.61		229.49	229.86		229.65		228.68	229.18		228.75	
Mean	229.71	230.02	229.33	229.44	230.95	230.98	229.77	229.32	228.85	228.69	228.98	228.85	
Max	230.20	231.48	230.31	230.17	233.56	231.95	232.27	230.02	229.21	229.18	229.60	229.10	233.56
Min	229.07	229.08	228.75	228.91	229.86	229.80	228.85	228.85	228.54	228.53	228.59	228.60	228.53
Annual Max Momentary Gage Height	234.04		m. (MSL.) ,		at 16.00 Hours , on Aug 3 , 2011								
Zero Gage at Bottom Elevation	229.30		m. (MSL.) ,		River Bed	227.62	m. (MSL)						
Left Bank Elevation	234.51		m. (MSL.) ,										
Right Bank Elevation	235.05		m. (MSL.) ,		Drainage Area	3478	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.55	12.40	31.50	48.40	158.00	160.00	167.00	36.10	15.70	4.30	21.85	4.00	
2	27.50	21.85	30.50	46.00	487.00	169.00	237.80	25.50	15.40	4.90	23.65	7.07	
3	19.60	30.00	30.50	66.45	489.00	155.00	272.75	14.50	15.40	4.30	25.00	9.10	
4	36.10	59.95	31.50	69.05	294.60	147.25	128.75	9.10	15.40	2.95	24.10	9.78	
5	64.50	44.35	31.00	39.95	188.80	80.80	180.40	7.75	13.90	2.95	21.40	10.30	
6	65.15	46.00	35.00	18.25	147.25	46.00	68.40	8.87	14.50	4.45	5.50	11.20	
7	65.80	43.80	30.00	12.70	126.20	92.50	33.50	26.50	16.45	4.00	3.70	12.70	
8	69.70	43.80	27.50	9.78	124.50	127.05	26.00	46.60	15.40	3.85	3.25	12.70	
9	71.00	25.50	25.50	7.98	116.85	151.05	35.00	37.20	14.50	4.30	3.70	12.10	
10	69.70	133.95	25.00	10.00	79.40	180.40	19.60	49.00	14.80	4.30	3.40	13.00	
11	69.70	180.40	28.00	38.85	90.25	119.40	40.50	50.20	14.80	3.85	4.30	7.98	
12	61.90	179.35	27.50	18.25	142.50	103.20	36.65	58.00	14.80	4.15	6.63	7.30	
13	50.20	167.00	26.50	10.00	151.05	115.20	31.00	58.65	9.55	4.60	4.45	12.10	
14	47.80	152.00	14.50	9.10	127.05	127.05	30.50	59.30	5.20	4.45	13.60	8.20	
15	46.00	105.60	8.87	22.75	115.20	177.25	28.00	21.40	5.35	4.60	29.50	6.40	
16	46.00	40.50	10.00	23.20	108.00	184.60	33.50	19.60	3.25	4.60	33.50	5.05	
17	46.00	25.50	22.75	44.90	69.05	166.00	35.55	15.70	2.43	4.75	34.00	4.60	
18	41.05	31.50	8.65	55.60	108.00	106.40	35.00	23.65	2.43	4.45	35.00	4.60	
19	12.10	26.00	5.95	49.00	106.40	61.90	28.00	24.55	2.31	4.45	15.10	5.35	
20	35.00	46.00	5.05	21.85	123.65	55.00	23.20	23.65	2.18	4.30	11.50	4.90	
21	46.00	63.20	4.75	20.95	133.00	82.20	20.95	16.90	2.11	4.45	8.65	4.45	
22	46.60	61.25	4.75	20.95	113.60	141.55	20.95	15.10	2.18	4.00	6.40	3.10	
23	41.05	60.60	4.75	10.60	81.50	104.80	20.95	9.78	2.80	2.50	5.20	2.50	
24	39.95	58.00	4.90	12.10	78.70	120.25	19.60	8.87	2.80	2.37	3.55	2.80	
25	40.50	56.80	6.40	17.80	78.70	155.00	18.70	6.63	2.50	2.37	2.80	3.40	
26	16.45	59.30	32.50	57.40	82.90	176.20	24.10	6.63	2.65	2.31	2.50	4.90	
27	13.90	53.20	49.00	53.80	168.00	178.30	10.60	6.63	2.50	2.18	2.43	6.17	
28	18.25	45.45	78.70	22.30	91.00	186.70	7.30	6.85	2.95	2.04	3.10	5.95	
29	18.25	43.80	59.30	17.80	78.70	233.00	6.63	10.00	2.65	2.04	4.00	5.20	
30	19.15	44.90	52.60	16.45	67.75	177.25	11.50	15.70	3.10	2.37		4.75	
31		35.55		29.50	49.60		37.75		3.70	15.40		4.75	
Total	1269.45	1997.50	753.42	901.71	4376.20	4080.30	1690.13	718.91	243.69	126.53	361.76	216.40	16736.00 CMSDAY
Mean	42.32	64.44	25.11	29.09	141.17	136.01	54.52	23.96	7.86	4.08	12.47	6.98	45.73 CMS
Max	71.00	180.40	78.70	69.05	489.00	233.00	272.75	59.30	16.45	15.40	35.00	13.00	489.00 CMS
Min	12.10	12.40	4.75	7.98	49.60	46.00	6.63	6.63	2.11	2.04	2.43	2.50	2.04 CMS
Runoff	109.68	172.58	65.10	77.91	378.10	352.54	146.03	62.11	21.06	10.93	31.26	18.70	1445.99 MCM
Momentary Peak	593.20	CMS. at 234.04 m. (MSL.)	at 16.00 Hours , on Aug 3 , 2011										
Runoff Yield	13.15	Liters/Second/Square KM.			Momentary Peak Yield	170.558	Liters/Second/Square KM.						

WATER YEAR : 2011**WANG RIVER BASIN****Wang River at Ban Don Chai , Lampang (W.3A)**

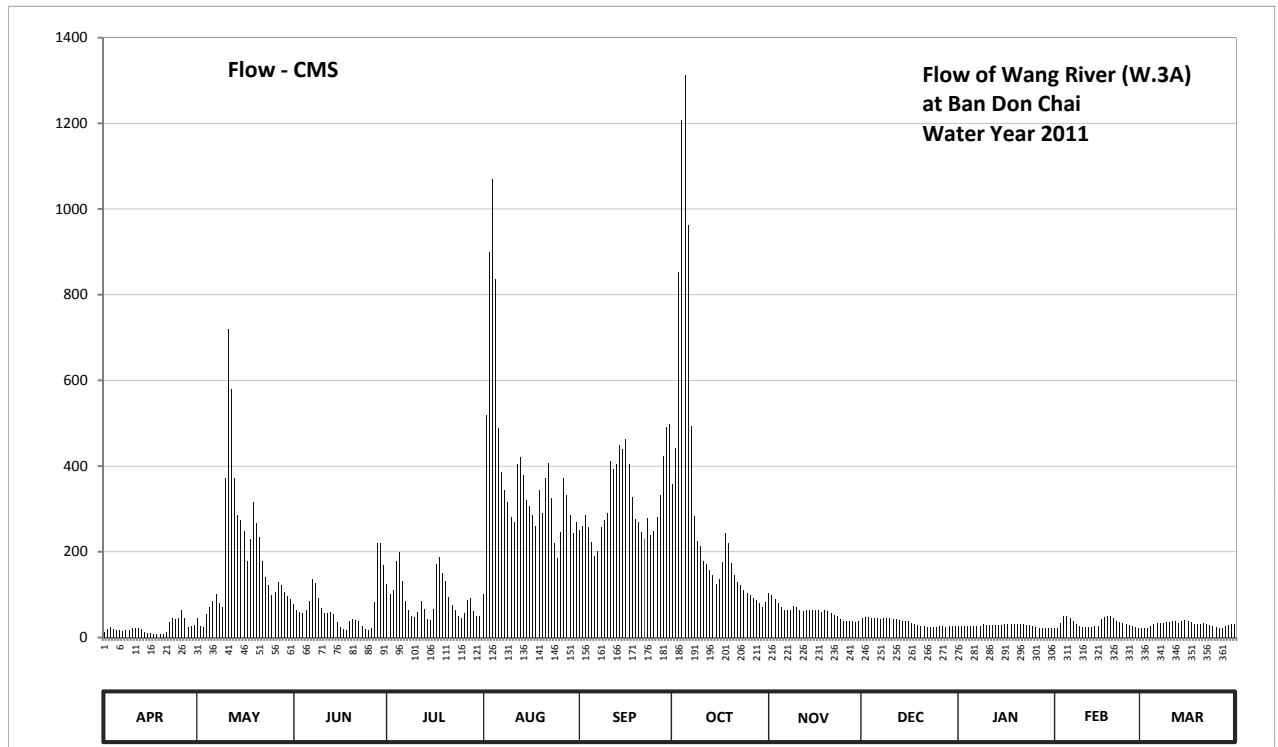
Lat 17 - 38 - 28 N Long 99 - 14 - 01 E

Location : on right bank about 30 meters upstream from Siriyoung Bridge.

	Ban	Don Chai	Amphoe	Thoen	Changwat	Lampang
Drainage Area	8,924	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+161.000 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 15 meters from automatic gage building				Elevation	+167.074 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1967 to date					
Rating Operation						
Period of Rating	1967 to date					
Rated by Flot	-					
Rated by Current Meter	1967 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. The channel is filled of the Mimosa pudica plants.					
	Stage-discharge relation defined by 46 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.94	161.48	161.86	162.27	162.07	163.14	163.76	162.09	161.49	161.19	161.12	161.12	
2	161.09	161.20	161.69	162.08	164.49	163.20	164.14	162.06	161.50	161.19	161.11	161.12	
3	161.16	161.16	161.64	162.17	165.82	163.36	165.68	161.97	161.50	161.20	161.32	161.14	
4	161.07	161.60	161.61	162.68	166.31	163.19	166.68	161.87	161.49	161.20	161.55	161.22	
5	161.03	161.78	161.69	162.81	165.63	162.97	166.95	161.77	161.49	161.21	161.54	161.29	
6	161.04	161.92	161.93	162.34	164.35	162.76	166.00	161.70	161.48	161.21	161.49	161.31	
7	161.01	162.08	162.38	161.93	163.89	162.83	164.37	161.69	161.45	161.20	161.37	161.31	
8	161.03	161.88	162.29	161.69	163.68	163.19	163.34	161.71	161.47	161.22	161.28	161.31	
9	161.05	161.78	161.99	161.54	163.53	163.28	162.99	161.81	161.48	161.28	161.20	161.35	
10	161.11	163.82	161.75	161.50	163.33	163.39	162.91	161.77	161.47	161.25	161.18	161.35	
11	161.13	165.25	161.62	161.66	163.25	164.01	162.67	161.69	161.45	161.26	161.16	161.38	
12	161.14	164.73	161.63	161.91	163.97	163.92	162.62	161.68	161.44	161.25	161.16	161.37	
13	161.07	163.82	161.66	161.74	164.05	163.98	162.52	161.69	161.43	161.25	161.16	161.32	
14	160.92	163.36	161.59	161.44	163.85	164.18	162.44	161.70	161.40	161.24	161.19	161.40	
15	160.90	163.28	161.36	161.42	163.57	164.13	162.27	161.70	161.40	161.25	161.22	161.43	
16	160.88	163.13	161.18	161.74	163.48	164.24	162.37	161.70	161.37	161.30	161.44	161.39	
17	160.81	162.68	161.07	162.63	163.35	163.97	162.66	161.69	161.33	161.30	161.51	161.34	
18	160.76	163.02	161.06	162.74	163.20	163.60	163.10	161.66	161.30	161.29	161.55	161.30	
19	160.76	163.53	161.40	162.47	163.69	163.30	162.95	161.69	161.25	161.29	161.54	161.29	
20	160.82	163.24	161.45	162.34	163.38	163.25	162.64	161.67	161.20	161.28	161.49	161.29	
21	160.93	163.04	161.43	162.01	163.82	163.12	162.44	161.62	161.19	161.27	161.40	161.31	
22	161.35	162.68	161.39	161.84	163.99	163.02	162.31	161.58	161.18	161.27	161.36	161.30	
23	161.49	162.41	161.22	161.71	163.59	163.31	162.25	161.53	161.17	161.26	161.31	161.25	
24	161.44	162.25	161.10	161.55	162.96	163.07	162.16	161.44	161.17	161.24	161.28	161.21	
25	161.48	162.06	161.05	161.48	162.72	163.13	162.09	161.40	161.17	161.20	161.24	161.16	
26	161.71	162.12	161.14	161.63	163.12	163.33	162.06	161.38	161.19	161.17	161.19	161.13	
27	161.49	162.32	161.89	161.94	163.82	163.63	162.00	161.38	161.20	161.15	161.16	161.14	
28	161.18	162.26	162.95	162.00	163.63	164.06	161.95	161.37	161.18	161.15	161.15	161.19	
29	161.20	162.12	162.95	161.67	163.35	164.36	161.87	161.36	161.19	161.14	161.14	161.25	
30	161.26	162.03	162.61	161.54	163.10	164.40	161.79	161.39	161.20	161.13		161.29	
31		161.96		161.55	163.25		161.89		161.19	161.12		161.29	
Mean	161.11	162.58	161.69	161.94	163.75	163.51	163.09	161.66	161.34	161.22	161.30	161.28	
Max	161.71	165.25	162.95	162.81	166.31	164.40	166.95	162.09	161.50	161.30	161.55	161.43	166.95
Min	160.76	161.16	161.05	161.42	162.07	162.76	161.79	161.36	161.17	161.12	161.11	161.12	160.76
Annual Max Momentary Gage Height	167.05		m. (MSL.) ,		at 05.00 Hours , on Oct 5 , 2011								
Zero Gage at Bottom Elevation	161.00		m. (MSL.) ,		River Bed	159.70		m. (MSL)					
Left Bank Elevation	169.04		m. (MSL.) ,										
Right Bank Elevation	169.07		m. (MSL.) ,		Drainage Area	8924		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.90	45.40	79.00	123.80	100.70	250.10	359.00	102.90	46.20	25.50	21.60	21.60	
2	19.90	26.00	63.10	101.80	519.70	260.00	440.80	99.60	47.00	25.50	21.10	21.60	
3	23.80	23.80	58.60	111.70	899.90	286.40	853.40	90.00	47.00	26.00	33.80	22.70	
4	18.90	55.00	55.90	179.60	1070.60	258.40	1208.20	80.00	46.20	26.00	51.00	27.30	
5	16.60	71.20	63.10	198.50	836.90	222.50	1312.70	70.30	46.20	26.70	50.20	31.80	
6	17.20	85.00	86.00	132.50	487.80	191.20	962.00	64.00	45.40	26.70	46.20	33.20	
7	15.50	101.80	137.50	86.00	386.30	201.50	492.30	63.10	43.00	26.00	37.10	33.20	
8	16.60	81.00	126.20	63.10	343.00	258.40	283.10	64.90	44.60	27.30	31.20	33.20	
9	17.80	71.20	92.00	50.20	315.10	273.20	225.50	74.00	45.40	31.20	26.00	35.80	
10	21.10	371.30	68.50	47.00	281.50	291.40	213.50	70.30	44.60	29.30	24.90	35.80	
11	22.20	719.50	56.80	60.40	268.30	412.20	178.10	63.10	43.00	29.90	23.80	37.70	
12	22.70	579.40	57.70	84.00	403.60	392.80	170.90	62.20	42.20	29.30	23.80	37.10	
13	18.90	371.30	60.40	67.60	421.00	405.70	156.80	63.10	41.40	29.30	23.80	33.80	
14	12.20	286.40	54.20	42.20	377.80	449.60	145.60	64.00	39.00	28.60	25.50	39.00	
15	11.50	273.20	36.40	40.60	321.90	438.60	123.80	64.00	39.00	29.30	27.30	41.40	
16	10.80	248.50	24.90	67.60	306.60	463.00	136.30	64.00	37.10	32.50	42.20	38.40	
17	8.30	179.60	18.90	172.30	284.80	403.60	176.70	63.10	34.50	32.50	47.80	35.10	
18	7.20	230.30	18.30	188.30	260.00	327.00	243.50	60.40	32.50	31.80	51.00	32.50	
19	7.20	315.10	39.00	149.80	345.00	276.50	219.50	63.10	29.30	31.80	50.20	31.80	
20	8.70	266.60	43.00	132.50	289.70	268.30	173.80	61.30	26.00	31.20	46.20	31.80	
21	12.50	233.60	41.40	94.10	371.30	246.80	145.60	56.80	25.50	30.60	39.00	33.20	
22	35.80	179.60	38.40	77.00	407.90	230.30	128.80	53.40	24.90	30.60	36.40	32.50	
23	46.20	141.40	27.30	64.90	325.30	278.20	121.30	49.40	24.40	29.90	33.20	29.30	
24	42.20	121.30	20.50	51.00	221.00	238.60	110.60	42.20	24.40	28.60	31.20	26.70	
25	45.40	99.60	17.80	45.40	185.40	248.50	102.90	39.00	24.40	26.00	28.60	23.80	
26	64.90	106.20	22.70	57.70	246.80	281.50	99.60	37.70	25.50	24.40	25.50	22.20	
27	46.20	130.00	82.00	87.00	371.30	333.00	93.00	37.70	26.00	23.20	23.80	22.70	
28	24.90	122.50	219.50	93.00	333.00	423.20	88.00	37.10	24.90	23.20	23.20	25.50	
29	26.00	106.20	219.50	61.30	284.80	490.00	80.00	36.40	25.50	22.70	22.70	29.30	
30	29.90	96.30	169.40	50.20	243.50	499.00	72.10	38.40	26.00	22.20		31.80	
31		89.00		51.00	268.30		82.00		25.50	21.60		31.80	
Total	684.00	5827.30	2098.00	2832.10	11778.80	9599.50	9199.40	1835.50	1096.60	859.40	968.30	963.60	47742.50 CMSDAY
Mean	22.80	188.00	69.90	91.40	380.00	320.00	296.80	61.20	35.40	27.70	33.40	31.10	130.40 CMS
Max	64.90	719.50	219.50	198.50	1070.60	499.00	1312.70	102.90	47.00	32.50	51.00	41.40	1312.70 CMS
Min	7.20	23.80	17.80	40.60	100.70	191.20	72.10	36.40	24.40	21.60	21.10	21.60	7.20 CMS
Runoff	59.10	503.48	181.27	244.69	1017.69	829.40	794.83	158.59	94.75	74.25	83.66	83.26	4124.95 MCM
Momentary Peak	1352.75 CMS. at 167.05 m. (MSL.) at 05.00 Hours , on Oct 5 , 2011												
Runoff Yield	14.62	Liters/Second/Square KM.			Momentary Peak Yield			151.586	Liters/Second/Square KM.				

WATER YEAR : 2011

WANG RIVER BASIN

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

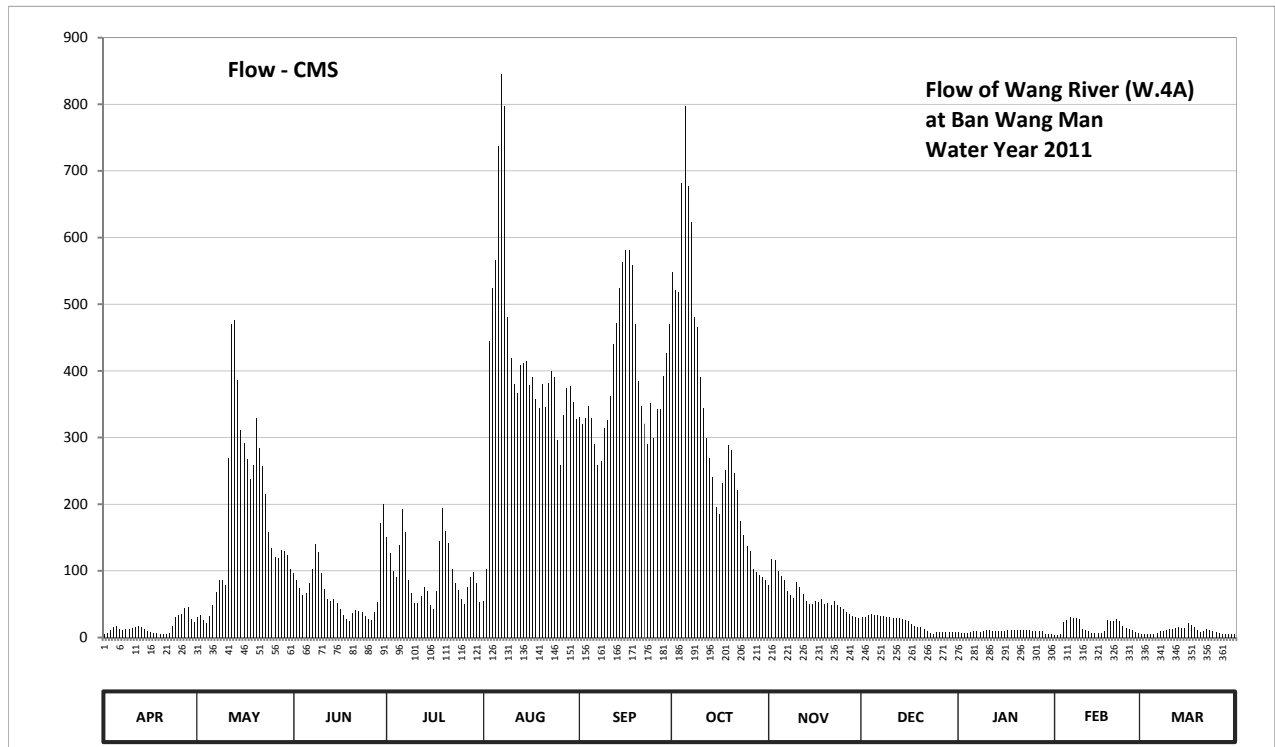
Lat 17 - 12 - 19 N Long 99 - 06 - 05 E

Location : on left bank about 200 meters upstream from the bridge on highway.

	Ban	Wang Man	Amphoe	Sam Ngao	Changwat	Tak
Drainage Area	10,439	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+130.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	In front of Wat Wang Man				Elevation	+143.191 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1968 to date					
Rating Operation						
Period of Rating	1971 to date					
Rated by Flot	-					
Rated by Current Meter	1971 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good.Stage-discharge relation defined by 26 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.66	131.40	132.66	133.41	131.92	135.22	136.43	132.36	131.42	130.78	130.60	130.69	
2	130.72	131.50	132.48	133.08	132.73	135.14	136.35	132.95	131.43	130.77	130.61	130.65	
3	130.89	131.30	132.29	132.69	136.03	135.21	136.34	132.93	131.48	130.76	130.66	130.65	
4	131.05	131.19	132.11	132.56	136.36	135.35	136.73	132.69	131.52	130.77	131.21	130.65	
5	131.06	131.47	132.17	133.26	136.48	135.21	136.93	132.59	131.49	130.78	131.32	130.65	
6	130.95	131.82	132.40	133.92	136.83	134.88	136.72	132.48	131.48	130.85	131.42	130.71	
7	130.90	132.18	132.75	133.50	137.01	134.61	136.62	132.20	131.46	130.84	131.38	130.84	
8	130.94	132.49	133.27	132.49	136.93	134.66	136.21	132.10	131.46	130.82	131.37	130.87	
9	130.96	132.48	133.11	132.15	136.21	135.09	136.14	132.01	131.43	130.85	131.34	130.92	
10	131.00	132.35	132.65	131.88	135.87	135.19	135.68	132.44	131.41	130.92	130.93	130.95	
11	131.04	134.70	132.27	131.87	135.60	135.46	135.32	132.31	131.39	130.89	130.89	130.96	
12	131.06	136.16	132.00	132.09	135.50	136.01	134.96	132.12	131.37	130.84	130.84	131.02	
13	131.05	136.19	131.95	132.30	135.80	136.17	134.70	131.92	131.36	130.85	130.73	131.05	
14	130.97	135.64	132.00	132.20	135.82	136.36	134.42	131.85	131.35	130.85	130.70	131.02	
15	130.86	135.06	131.87	131.80	135.84	136.47	133.96	131.85	131.32	130.85	130.70	131.01	
16	130.81	134.90	131.70	131.69	135.59	136.52	133.84	131.93	131.25	130.86	130.70	131.20	
17	130.77	134.69	131.49	132.22	135.67	136.52	134.33	131.91	131.15	130.91	130.86	131.10	
18	130.73	134.39	131.33	133.34	135.43	136.46	134.53	131.99	131.07	130.92	131.30	131.03	
19	130.69	134.60	131.26	133.93	135.32	136.16	134.87	131.85	131.04	130.91	131.25	130.92	
20	130.64	135.21	131.56	133.52	135.60	135.63	134.81	131.87	131.03	130.90	131.25	130.79	
21	130.68	134.83	131.66	133.29	135.33	135.35	134.49	131.83	130.95	130.90	131.34	130.87	
22	130.76	134.59	131.64	132.74	135.61	135.14	134.23	131.92	130.87	130.90	131.25	130.95	
23	131.06	134.17	131.60	132.40	135.74	134.89	133.70	131.82	130.75	130.89	131.09	130.91	
24	131.41	133.51	131.46	132.24	135.68	135.38	133.45	131.76	130.65	130.89	131.02	130.85	
25	131.50	133.19	131.35	132.00	134.93	134.96	133.22	131.69	130.80	130.87	130.94	130.80	
26	131.53	132.99	131.32	131.85	134.61	135.31	133.13	131.59	130.79	130.84	130.90	130.72	
27	131.72	132.97	131.60	132.30	135.24	135.31	132.75	131.53	130.82	130.84	130.83	130.67	
28	131.75	133.15	131.91	132.57	135.56	135.69	132.68	131.47	130.83	130.84	130.74	130.66	
29	131.34	133.13	133.68	132.67	135.58	135.92	132.61	131.41	130.82	130.65	130.72	130.65	
30	131.24	133.03	134.01	132.41	135.39	136.16	132.56	131.37	130.78	130.66		130.65	
31		132.73		131.90	135.20		132.49		130.78	130.62		130.66	
Mean	131.02	133.48	132.12	132.59	135.53	135.55	134.68	132.02	131.15	130.83	131.00	130.84	
Max	131.75	136.19	134.01	133.93	137.01	136.52	136.93	132.95	131.52	130.92	131.42	131.20	137.01
Min	130.64	131.19	131.26	131.69	131.92	134.61	132.49	131.37	130.65	130.62	130.60	130.65	130.60
Annual Max Momentary Gage Height	137.07		m. (MSL.) ,		at 06.00 Hours , on Aug 8 , 2011								
Zero Gage at Bottom Elevation	130.00		m. (MSL.) ,		River Bed	129.41	m. (MSL)						
Left Bank Elevation	140.65		m. (MSL.) ,										
Right Bank Elevation	140.91		m. (MSL.) ,		Drainage Area	10439	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.20	30.00	97.20	150.80	54.00	330.60	547.40	78.60	30.80	7.60	4.00	5.80	
2	6.40	34.00	85.80	126.60	102.10	320.80	521.50	117.50	31.20	7.40	4.20	5.00	
3	10.70	26.00	74.40	99.30	444.00	329.30	518.60	116.10	33.20	7.20	5.20	5.00	
4	16.00	21.60	64.10	90.60	524.40	347.50	682.20	99.30	34.80	7.40	22.40	5.00	
5	16.40	32.80	67.40	139.50	566.40	329.30	796.70	92.40	33.60	7.60	26.80	5.00	
6	12.50	49.00	81.00	192.80	737.70	289.60	676.80	85.80	33.20	9.50	30.80	6.20	
7	11.00	67.90	103.50	158.00	845.60	259.10	622.80	69.00	32.40	9.20	29.20	9.20	
8	12.20	86.40	140.30	86.40	796.70	264.60	480.90	63.50	32.40	8.60	28.80	10.10	
9	12.80	85.80	128.70	66.20	480.90	314.80	466.00	58.50	31.20	9.50	27.60	11.60	
10	14.00	78.00	96.50	52.00	418.50	326.80	391.20	83.40	30.40	11.60	11.90	12.50	
11	15.60	269.00	73.20	51.50	380.00	361.80	343.60	75.60	29.60	10.70	10.70	12.80	
12	16.40	470.00	58.00	62.90	367.00	440.00	299.20	64.60	28.80	9.20	9.20	14.80	
13	16.00	476.00	55.50	75.00	408.00	472.00	269.00	54.00	28.40	9.50	6.60	16.00	
14	13.10	385.60	58.00	69.00	411.00	524.40	240.00	50.50	28.00	9.50	6.00	14.80	
15	9.80	311.20	51.50	48.00	414.00	562.60	196.40	50.50	26.80	9.50	6.00	14.40	
16	8.30	292.00	43.00	42.50	378.70	581.60	185.60	54.50	24.00	9.80	6.00	22.00	
17	7.40	267.90	33.60	70.20	389.80	581.60	231.00	53.50	20.00	11.30	9.80	18.00	
18	6.60	237.00	27.20	145.50	357.90	558.80	251.00	57.50	16.80	11.60	26.00	15.20	
19	5.80	258.00	24.40	193.70	343.60	470.00	288.40	50.50	15.60	11.30	24.00	11.60	
20	4.80	329.30	36.40	159.60	380.00	384.20	281.20	51.50	15.20	11.00	24.00	7.80	
21	5.60	283.60	41.00	141.70	344.90	347.50	247.00	49.50	12.50	11.00	27.60	10.10	
22	7.20	257.00	40.00	102.80	381.40	320.80	221.00	54.00	10.10	11.00	24.00	12.50	
23	16.40	215.30	38.00	81.00	399.60	290.80	174.00	49.00	7.00	10.70	17.60	11.30	
24	30.40	158.80	32.40	71.40	391.20	351.40	154.00	46.00	5.00	10.70	14.80	9.50	
25	34.00	134.30	28.00	58.00	295.60	299.20	136.50	42.50	8.00	10.10	12.20	8.00	
26	35.20	120.30	26.80	50.50	259.10	342.30	130.10	37.60	7.80	9.20	11.00	6.40	
27	44.00	118.90	38.00	75.00	333.20	342.30	103.50	35.20	8.60	9.20	8.90	5.40	
28	45.50	131.50	53.50	91.20	374.80	392.60	98.60	32.80	8.90	9.20	6.80	5.20	
29	27.60	130.10	172.40	97.90	377.40	426.00	93.70	30.40	8.60	5.00	6.40	5.00	
30	23.60	123.10	200.90	81.60	352.70	470.00	90.60	28.80	7.60	5.20		5.00	
31		102.10		53.00	328.00		86.40		7.60	4.40		5.20	
Total	490.50	5582.50	2070.70	2984.20	12638.20	11632.30	9824.90	1832.60	648.10	284.70	448.50	306.40	48743.60 CMSDAY
Mean	16.40	180.10	69.00	96.30	407.70	387.70	316.90	61.10	20.90	9.20	15.50	9.90	133.20 CMS
Max	45.50	476.00	200.90	193.70	845.60	581.60	796.70	117.50	34.80	11.60	30.80	22.00	845.60 CMS
Min	4.80	21.60	24.40	42.50	54.00	259.10	86.40	28.80	5.00	4.40	4.00	5.00	4.00 CMS
Runoff	42.38	482.33	178.91	257.83	1091.94	1005.03	848.87	158.34	56.00	24.60	38.75	26.47	4211.45 MCM
Momentary Peak	891.20 CMS. at 137.07 m. (MSL.) at 06.00 Hours , on Aug 8 , 2011												
Runoff Yield	12.76	Liters/Second/Square KM.			Momentary Peak Yield			85,372	Liters/Second/Square KM.				

WATER YEAR : 2011

WANG RIVER BASIN

Wang River at Ban Ko Kha , Lampang (W.5A)

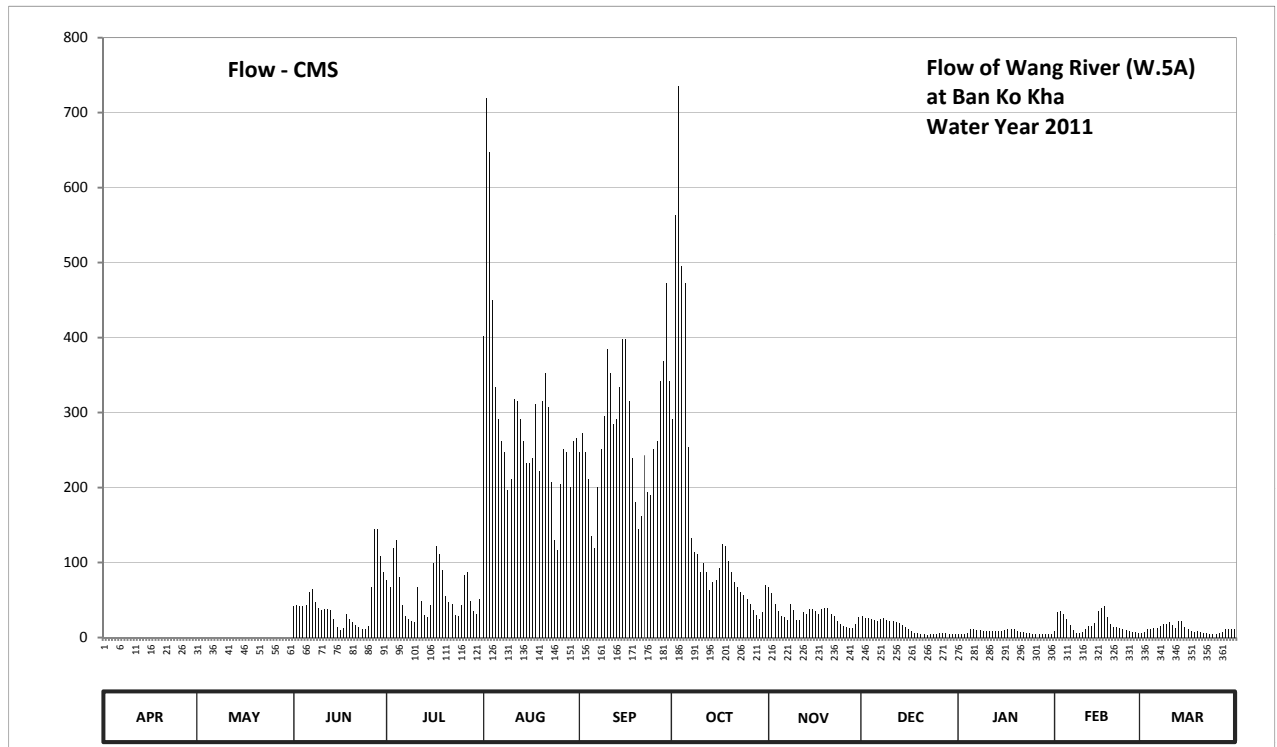
Lat 18 - 11 - 21 N Long 99 - 24 - 04 E

Location : on right bank upstream from Siriyong Bridge.

	Ban	Ko Kha	Amphoe	Ko Kha	Changwat	Lampang
Drainage Area	5,278	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+216.855	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near automatic gage building				Elevation	+219.743 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2011 to date					
Rating Operation						
Period of Rating	2011 to date					
Rated by Flot	-					
Rated by Current Meter	2011 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 46 discharge measurements made in 2011.					
Remark	beginning on 1 st May 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	0.29	217.29	217.46	218.44	218.04	218.16	217.42	217.21	216.95	217.04	216.99	
2	*****	0.30	217.30	217.42	219.08	218.11	218.79	217.38	217.19	216.95	217.24	217.01	
3	*****	0.31	217.29	217.64	218.95	218.04	219.11	217.31	217.19	216.96	217.25	217.06	
4	*****	0.52	217.29	217.68	218.55	217.94	218.65	217.25	217.18	217.00	217.23	217.07	
5	*****	0.48	217.30	217.48	218.27	217.70	218.60	217.21	217.17	217.06	217.18	217.08	
6	*****	0.48	217.39	217.30	218.16	217.64	218.06	217.20	217.16	217.06	217.12	217.09	
7	*****	0.48	217.41	217.21	218.08	217.91	217.69	217.17	217.18	217.05	217.05	217.11	
8	*****	0.47	217.32	217.18	218.04	218.05	217.62	217.31	217.19	217.05	217.00	217.13	
9	*****	0.55	217.28	217.16	217.90	218.17	217.61	217.26	217.17	217.04	216.99	217.13	
10	*****	1.26	217.26	217.15	217.94	218.40	217.51	217.17	217.16	217.04	217.01	217.15	
11	*****	1.48	217.27	217.42	218.23	218.32	217.56	217.17	217.16	217.03	217.07	217.12	
12	*****	1.19	217.27	217.33	218.22	218.14	217.51	217.24	217.15	217.03	217.11	217.08	
13	*****	1.07	217.26	217.22	218.16	218.16	217.40	217.23	217.14	217.03	217.11	217.16	
14	*****	0.99	217.18	217.20	218.08	218.27	217.45	217.27	217.12	217.04	217.14	217.16	
15	*****	0.96	217.10	217.30	218.00	218.43	217.46	217.27	217.10	217.04	217.25	217.10	
16	*****	0.68	217.05	217.56	218.00	218.43	217.53	217.25	217.07	217.05	217.28	217.07	
17	*****	0.51	217.08	217.65	218.02	218.22	217.66	217.23	217.04	217.06	217.29	217.03	
18	*****	0.73	217.23	217.61	218.21	218.02	217.65	217.27	217.00	217.06	217.20	217.01	
19	*****	0.61	217.18	217.52	217.97	217.85	217.57	217.28	216.98	217.06	217.13	217.03	
20	*****	0.66	217.15	217.36	218.22	217.73	217.51	217.28	216.95	217.04	217.10	217.01	
21	*****	0.71	217.12	217.32	218.32	217.79	217.45	217.23	216.95	217.02	217.10	217.00	
22	*****	0.65	217.10	217.31	218.20	218.03	217.42	217.21	216.94	217.01	217.08	216.99	
23	*****	0.62	217.07	217.22	217.93	217.89	217.39	217.16	216.95	216.99	217.07	216.96	
24	*****	0.60	217.07	217.21	217.68	217.88	217.37	217.13	216.96	216.98	217.05	216.96	
25	*****	0.58	217.11	217.30	217.63	218.05	217.34	217.11	216.97	216.97	217.04	216.95	
26	*****	0.62	217.42	217.49	217.92	218.08	217.31	217.10	216.98	216.96	217.02	216.99	
27	*****	0.60	217.73	217.51	218.05	218.29	217.26	217.09	216.99	216.96	217.01	217.02	
28	*****	0.55	217.73	217.33	218.04	218.36	217.22	217.09	216.98	216.96	217.00	217.06	
29	*****	0.52	217.60	217.25	217.91	218.60	217.18	217.13	216.97	216.96	216.98	217.06	
30	*****	0.52	217.51	217.23	218.08	218.29	217.24	217.20	216.96	216.95		217.07	
31	*****	0.48		217.34	218.09		217.43		216.95	216.95		217.07	
Mean	*****	0.66	217.28	217.37	218.14	218.09	217.67	217.22	217.07	217.01	217.11	217.06	
Max	*****	1.48	217.73	217.68	219.08	218.60	219.11	217.42	217.21	217.06	217.29	217.16	219.11
Min	*****	0.29	217.05	217.15	217.63	217.64	217.18	217.09	216.94	216.95	216.98	216.95	*****
Annual Max Momentary Gage Height		219.38	m. (MSL.) ,		at 16.00 Hours , on Oct 3 , 2011								
Zero Gage at Bottom Elevation		216.86	m. (MSL.) ,		River Bed	212.48	m. (MSL)						
Left Bank Elevation		221.25	m. (MSL.) ,										
Right Bank Elevation		221.10	m. (MSL.) ,		Drainage Area	5278	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	0.00	41.40	76.20	401.80	246.80	291.80	67.40	28.60	4.00	9.20	5.60	
2	*****	0.00	43.00	67.40	718.80	272.80	563.00	59.00	25.70	4.00	33.40	6.80	
3	*****	0.00	41.40	119.40	647.00	246.80	735.80	45.00	25.70	4.40	35.00	10.80	
4	*****	0.00	41.40	129.80	449.50	211.00	495.00	35.00	24.40	6.00	31.80	11.60	
5	*****	0.00	43.00	80.60	333.60	135.00	472.00	28.60	23.10	10.80	24.40	12.40	
6	*****	0.00	61.00	43.00	291.80	119.40	254.20	27.00	21.80	10.80	16.60	13.20	
7	*****	0.00	65.20	28.60	261.60	200.50	132.40	23.10	24.40	10.00	10.00	15.30	
8	*****	0.00	47.00	24.40	246.80	250.50	114.20	45.00	25.70	10.00	6.00	17.90	
9	*****	0.00	39.80	21.80	197.00	295.60	111.60	36.60	23.10	9.20	5.60	17.90	
10	*****	0.00	36.60	20.50	211.00	385.00	87.40	23.10	21.80	9.20	6.80	20.50	
11	*****	0.00	38.20	67.40	318.40	353.00	99.40	23.10	21.80	8.40	11.60	16.60	
12	*****	0.00	38.20	49.00	314.60	284.20	87.40	33.40	20.50	8.40	15.30	12.40	
13	*****	0.00	36.60	30.20	291.80	291.80	63.00	31.80	19.20	8.40	15.30	21.80	
14	*****	0.00	24.40	27.00	261.60	333.60	74.00	38.20	16.60	9.20	19.20	21.80	
15	*****	0.00	14.00	43.00	232.00	397.60	76.20	38.20	14.00	9.20	35.00	14.00	
16	*****	0.00	10.00	99.40	232.00	397.60	92.20	35.00	11.60	10.00	39.80	11.60	
17	*****	0.00	12.40	122.00	239.40	314.60	124.60	31.80	9.20	10.80	41.40	8.40	
18	*****	0.00	31.80	111.60	310.80	239.40	122.00	38.20	6.00	10.80	27.00	6.80	
19	*****	0.00	24.40	89.80	221.50	181.00	101.80	39.80	5.20	10.80	17.90	8.40	
20	*****	0.00	20.50	55.00	314.60	144.00	87.40	39.80	4.00	9.20	14.00	6.80	
21	*****	0.00	16.60	47.00	353.00	162.00	74.00	31.80	4.00	7.60	14.00	6.00	
22	*****	0.00	14.00	45.00	307.00	243.10	67.40	28.60	3.60	6.80	12.40	5.60	
23	*****	0.00	11.60	30.20	207.50	193.80	61.00	21.80	4.00	5.60	11.60	4.40	
24	*****	0.00	11.60	28.60	129.80	190.60	57.00	17.90	4.40	5.20	10.00	4.40	
25	*****	0.00	15.30	43.00	116.80	250.50	51.00	15.30	4.80	4.80	9.20	4.00	
26	*****	0.00	67.40	82.80	204.00	261.60	45.00	14.00	5.20	4.40	7.60	5.60	
27	*****	0.00	144.00	87.40	250.50	341.20	36.60	13.20	5.60	4.40	6.80	7.60	
28	*****	0.00	144.00	49.00	246.80	369.00	30.20	13.20	5.20	4.40	6.00	10.80	
29	*****	0.00	109.00	35.00	200.50	472.00	24.40	17.90	4.80	4.40	5.20	10.80	
30	*****	0.00	87.40	31.80	261.60	341.20	33.40	27.00	4.40	4.00		11.60	
31	*****	0.00		51.00	265.30		69.60		4.00	4.00		11.60	</

WATER YEAR : 2011

WANG RIVER BASIN

Wang River at Ban Sop Prap , Lampang (W.6A)

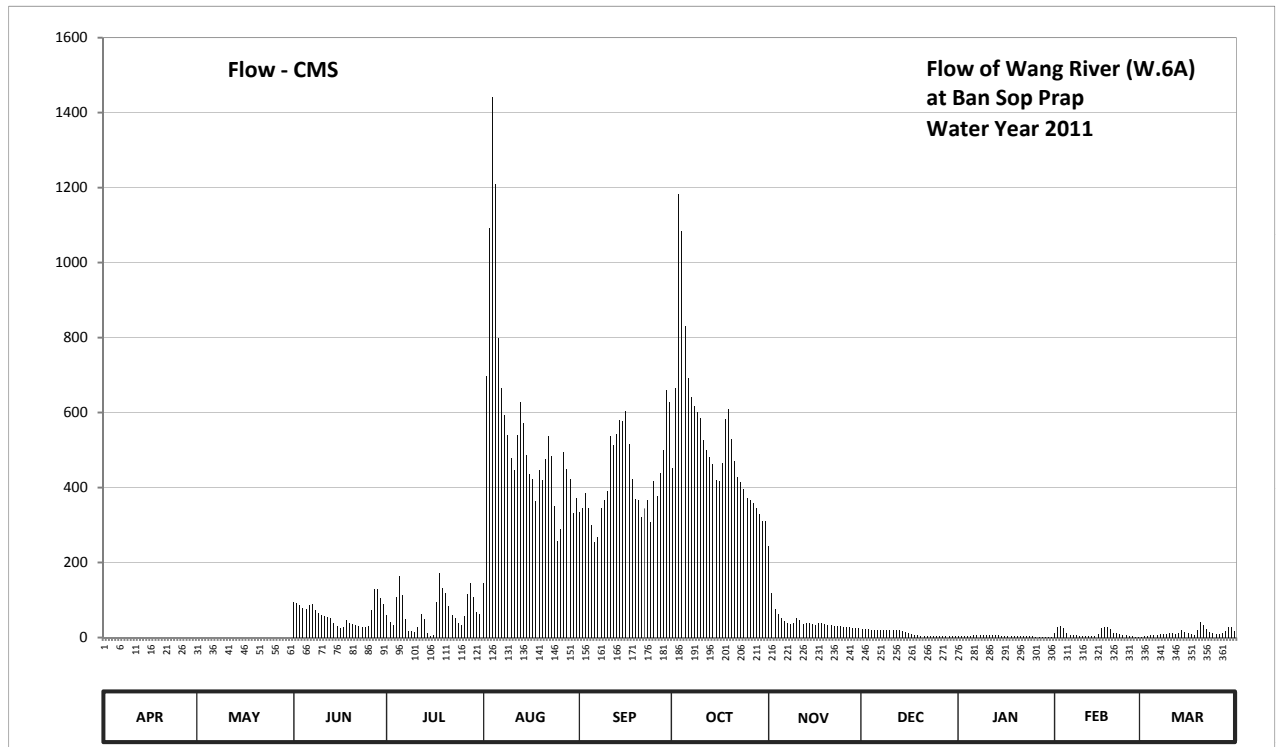
Lat 17 - 52 - 41 N Long 99 - 19 - 52 E

Location : on left bank at Ban Sop Prap.

	Ban	Sop Prap	Amphoe	Sop Prap	Changwat	Lampang
Drainage Area	8,150	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+184.050	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+187.165 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2011 to date					
Rating Operation						
Period of Rating	2011 to date					
Rated by Flot	-					
Rated by Current Meter	2011 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +189.810 m.(MSL.), records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 39 discharge measurements made in 2011.					
Remark	beginning on 1 st May 2011					

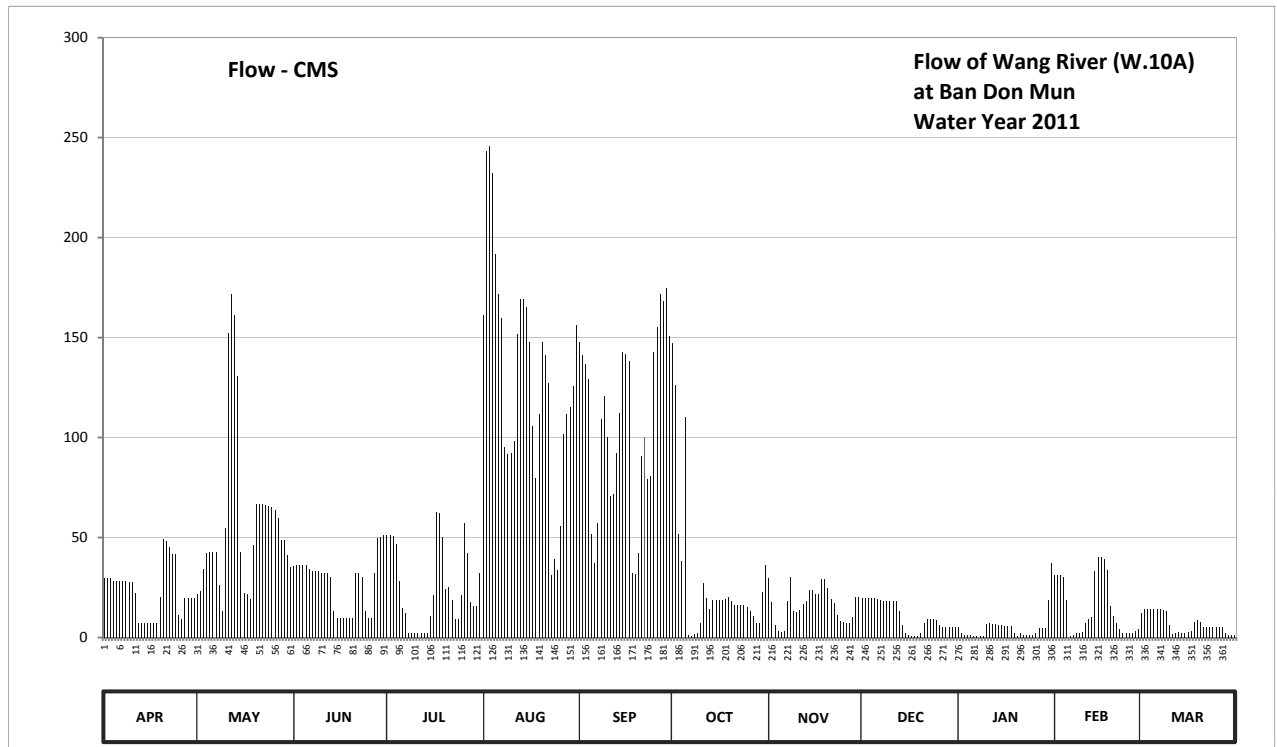
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	1.10	185.73	185.52	186.01	186.96	187.47	186.53	185.22	184.83	185.07	184.79	
2	*****	1.10	185.71	185.39	188.43	187.01	188.32	185.87	185.21	184.83	185.26	184.81	
3	*****	1.09	185.68	185.33	189.79	187.18	190.06	185.62	185.21	184.83	185.29	184.87	
4	*****	1.30	185.64	185.80	190.79	187.01	189.76	185.53	185.20	184.83	185.24	184.96	
5	*****	1.27	185.63	186.11	190.14	186.79	188.92	185.46	185.19	184.87	185.10	184.98	
6	*****	1.29	185.69	185.84	188.81	186.58	188.42	185.40	185.18	184.95	184.99	184.99	
7	*****	1.30	185.70	185.45	188.31	186.65	188.22	185.36	185.18	184.95	184.94	185.02	
8	*****	1.30	185.61	185.17	188.04	187.01	188.13	185.35	185.18	184.95	184.91	185.03	
9	*****	1.46	185.56	185.16	187.84	187.10	188.07	185.37	185.18	184.95	184.88	185.04	
10	*****	3.63	185.52	185.11	187.59	187.21	188.01	185.47	185.18	184.95	184.85	185.06	
11	*****	4.62	185.51	185.26	187.45	187.83	187.78	185.43	185.18	184.95	184.82	185.10	
12	*****	3.73	185.49	185.53	187.84	187.73	187.67	185.35	185.18	184.94	184.81	185.03	
13	*****	2.96	185.46	185.44	188.17	187.85	187.60	185.37	185.18	184.92	184.81	185.05	
14	*****	2.57	185.37	185.10	187.96	187.99	187.52	185.37	185.16	184.91	184.81	185.18	
15	*****	2.61	185.29	184.89	187.62	187.98	187.34	185.35	185.11	184.90	185.03	185.12	
16	*****	2.36	185.24	184.99	187.40	188.08	187.32	185.33	185.05	184.89	185.25	185.07	
17	*****	1.94	185.27	185.73	187.35	187.74	187.53	185.37	185.00	184.88	185.27	185.01	
18	*****	2.52	185.42	186.15	187.09	187.35	188.00	185.36	184.95	184.87	185.26	184.95	
19	*****	2.68	185.37	185.94	187.45	187.11	188.10	185.34	184.91	184.86	185.23	185.19	
20	*****	2.43	185.34	185.87	187.34	187.10	187.79	185.33	184.90	184.85	185.10	185.38	
21	*****	2.30	185.31	185.67	187.57	186.89	187.55	185.31	184.90	184.84	185.06	185.33	
22	*****	2.04	185.29	185.52	187.82	187.00	187.37	185.30	184.89	184.84	185.01	185.23	
23	*****	1.88	185.26	185.46	187.61	187.10	187.31	185.30	184.89	184.83	184.97	185.11	
24	*****	1.77	185.26	185.37	187.03	186.83	187.23	185.29	184.88	184.81	184.92	185.06	
25	*****	1.71	185.30	185.33	186.59	187.32	187.13	185.27	184.87	184.81	184.85	185.04	
26	*****	1.72	185.61	185.50	186.74	187.15	187.10	185.26	184.86	184.80	184.81	185.04	
27	*****	1.73	185.92	185.85	187.65	187.41	187.06	185.26	184.86	184.79	184.78	185.09	
28	*****	1.71	185.92	186.01	187.46	187.67	187.00	185.25	184.85	184.79	184.75	185.17	
29	*****	1.70	185.79	185.81	187.35	188.29	186.93	185.24	184.85	184.79	184.77	185.26	
30	*****	1.70	185.70	185.57	186.94	188.17	186.84	185.24	184.84	184.78		185.27	
31	*****	1.70		185.53	187.12		186.84		184.83	184.78		185.17	
Mean	*****	2.04	185.52	185.53	187.78	187.34	187.75	185.41	185.03	184.86	184.99	185.08	
Max	*****	4.62	185.92	186.15	190.79	188.29	190.06	186.53	185.22	184.95	185.29	185.38	190.79
Min	*****	1.09	185.24	184.89	186.01	186.58	186.84	185.24	184.83	184.78	184.75	184.79	*****
Annual Max Momentary Gage Height		190.87	m. (MSL.) ,		at 14.00 Hours , on Aug 4 , 2011								
Zero Gage at Bottom Elevation		184.05	m. (MSL.) ,		River Bed	180.86	m. (MSL)						
Left Bank Elevation		189.86	m. (MSL.) ,										
Right Bank Elevation		189.80	m. (MSL.) ,		Drainage Area	8150	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	0.00	94.40	60.00	145.85	335.70	450.95	244.00	22.20	3.25	11.50	2.35	
2	*****	0.00	90.80	41.80	695.60	346.70	666.30	119.95	21.10	3.25	26.60	2.75	
3	*****	0.00	85.60	34.60	1093.30	384.10	1182.90	75.40	21.10	3.25	29.90	4.25	
4	*****	0.00	78.80	107.00	1442.80	346.70	1083.70	61.50	20.00	3.25	24.40	6.80	
5	*****	0.00	77.10	164.35	1210.10	298.85	830.10	51.40	19.30	4.25	13.00	7.40	
6	*****	0.00	87.30	114.40	799.30	254.00	692.90	43.00	18.60	6.50	7.70	7.70	
7	*****	0.00	89.00	50.00	663.65	268.75	639.80	38.20	18.60	6.50	6.20	9.00	
8	*****	0.00	73.70	17.90	592.90	346.70	616.30	37.00	18.60	6.50	5.30	9.50	
9	*****	0.00	66.00	17.20	540.90	366.50	600.70	39.40	18.60	6.50	4.50	10.00	
10	*****	0.00	60.00	13.70	479.15	390.80	585.10	52.80	18.60	6.50	3.75	11.00	
11	*****	0.00	58.50	26.60	446.25	538.30	525.60	47.20	18.60	6.50	3.00	13.00	
12	*****	0.00	55.60	61.50	540.90	513.35	498.65	37.00	18.60	6.20	2.75	9.50	
13	*****	0.00	51.40	48.60	626.70	543.50	481.50	39.40	18.60	5.60	2.75	10.50	
14	*****	0.00	39.40	13.00	572.10	579.90	462.70	39.40	17.20	5.30	2.75	18.60	
15	*****	0.00	29.90	4.75	486.40	577.30	420.70	37.00	13.70	5.00	9.50	14.40	
16	*****	0.00	24.40	7.70	434.50	603.30	416.10	34.60	10.50	4.75	25.50	11.50	
17	*****	0.00	27.70	94.40	423.00	515.80	465.05	39.40	8.00	4.50	27.70	8.50	
18	*****	0.00	45.80	171.75	364.30	423.00	582.50	38.20	6.50	4.25	26.60	6.50	
19	*****	0.00	39.40	132.90	446.25	368.70	608.50	35.80	5.30	4.00	23.30	19.30	
20	*****	0.00	35.80	119.95	420.70	366.50	528.05	34.60	5.00	3.75	13.00	40.60	
21	*****	0.00	32.20	83.90	474.45	320.35	469.75	32.20	5.00	3.50	11.00	34.60	
22	*****	0.00	29.90	60.00	535.70	344.50	427.60	31.00	4.75	3.50	8.50	23.30	
23	*****	0.00	26.60	51.40	483.95	366.50	413.80	31.00	4.75	3.25	7.10	13.70	
24	*****	0.00	26.60	39.40	351.10	307.45	395.40	29.90	4.50	2.75	5.60	11.00	
25	*****	0.00	31.00	34.60	256.00	416.10	373.10	27.70	4.25	2.75	3.75	10.00	
26	*****	0.00	73.70	57.00	288.10	377.50	366.50	26.60	4.00	2.50	2.75	10.00	
27	*****	0.00	129.20	116.25	493.75	436.85	357.70	26.60	4.00	2.35	2.20	12.50	
28	*****	0.00	129.20	145.85	448.60	498.65	344.50	25.50	3.75	2.35	1.75	17.90	
29	*****	0.00	105.20	108.85	423.00	658.35	329.10	24.40	3.75	2.35	2.05	26.60	
30	*****	0.00	89.00	67.50	331.30	626.70	309.60	24.40	3.50	2.20		27.70	
31	*****	0.00		61.50	370.90		309.60		3.25	2.20		17.90	
Total	*****	0.00	1883.20	2128.35	16881.50	12721.40	16434.75	1424.55	364.20	129.30	314.40	428.35	***** CMSDAY
Mean	*****	0.00	62.77	68.66	544.56	424.05	530.15	47.48	11.75	4.17	10.84	13.82	***** CMS
Max	*****	0.00	129.20	171.75	1442.80	658.35	1182.90	244.00	22.20	6.50	29.90	40.60	1442.80 CMS
Min	*****	0.00	24.40	4.75	145.85	254.00	309.60	24.40	3.25	2.20	1.75	2.35	***** CMS
Runoff	*****	0.00	162.71	183.89	1458.56	1099.13	1419.96	123.08	31.47	11.17	27.16	37.01	***** MCM
Momentary Peak	1473.10 CMS. at 190.87 m. (MSL.) at 14.00 Hours , on Aug 4 , 2011												
Runoff Yield	*****	Liters/Second/Square KM.			Momentary Peak Yield			Liters/Second/Square KM.					
							180.748						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	29.50	21.55	35.50	51.40	161.25	147.75	147.00	29.50	19.75	5.00	31.00	12.20		
2	29.50	23.35	36.00	51.40	243.35	141.00	126.33	17.50	19.75	2.24	31.00	14.35		
3	29.50	34.00	36.50	50.85	245.90	136.50	51.95	6.20	19.75	0.99	31.00	14.35		
4	28.50	42.05	36.50	47.00	232.40	129.17	38.50	3.00	19.75	0.99	30.50	14.35		
5	28.50	42.60	36.50	28.00	191.60	51.95	110.04	2.75	19.75	0.99	18.85	14.35		
6	28.00	42.60	34.00	14.80	171.60	37.00	1.33	3.25	19.30	0.71	0.71	14.35		
7	28.00	42.60	33.00	12.20	159.75	57.30	0.92	17.95	18.85	0.50	1.06	14.35		
8	28.00	26.05	33.00	2.24	95.17	109.33	1.59	30.50	18.40	0.50	2.37	13.90		
9	27.50	13.00	33.00	2.11	91.62	120.67	2.11	13.00	18.40	0.50	2.37	13.45		
10	27.50	54.90	32.50	2.11	92.33	100.13	7.40	12.60	18.40	6.60	2.75	6.20		
11	22.00	152.25	32.50	2.11	98.00	70.50	27.00	13.90	18.40	7.00	7.00	1.85		
12	7.40	171.60	32.00	2.37	151.50	71.70	19.75	16.60	18.40	6.60	9.00	2.11		
13	7.00	161.25	30.50	2.11	169.20	92.33	14.35	17.95	13.45	6.60	10.20	2.75		
14	7.00	130.58	13.45	2.50	169.20	112.17	18.85	23.80	6.20	6.20	33.00	2.50		
15	7.00	42.60	9.80	10.60	165.20	142.50	18.85	23.80	2.24	6.20	40.50	2.50		
16	7.00	22.00	9.80	21.10	147.75	141.75	18.85	21.55	1.06	5.80	40.00	2.75		
17	7.00	21.55	9.80	62.70	105.79	138.00	18.85	21.55	0.92	5.80	39.00	3.00		
18	7.00	19.30	9.80	62.10	79.75	32.00	19.30	29.00	0.92	5.80	33.50	7.80		
19	20.20	46.45	9.80	50.30	111.46	31.50	20.20	29.00	0.92	1.98	15.70	8.60		
20	49.20	66.90	9.80	24.25	147.75	42.05	17.95	24.70	2.11	0.64	10.60	7.80		
21	48.10	66.90	32.50	25.15	141.00	90.92	16.15	19.30	7.40	2.11	7.00	5.00		
22	45.35	66.90	32.00	18.85	127.04	100.13	16.15	17.05	9.40	1.06	4.25	5.00		
23	41.50	66.30	30.50	9.40	31.00	79.10	16.15	11.40	9.40	1.06	2.11	5.00		
24	41.50	65.70	13.45	9.40	39.00	80.40	16.15	8.20	9.40	0.99	2.11	5.00		
25	11.00	65.10	9.80	21.10	33.50	142.50	15.25	7.80	8.60	0.99	2.11	5.40		
26	9.00	63.90	9.80	57.30	55.50	155.25	13.00	7.40	6.20	2.24	2.11	5.40		
27	19.75	59.70	32.00	42.05	101.54	171.60	10.60	7.40	5.40	4.75	3.00	5.40		
28	19.75	48.65	49.75	17.50	111.46	168.40	7.00	10.20	5.40	4.75	4.50	2.50		
29	19.75	48.65	50.30	15.70	115.00	174.80	7.00	20.20	5.40	4.75	4.50	1.06		
30	19.75	41.00	51.40	15.70	125.63	150.75	22.90	20.20	5.40	18.85		1.13		
31		35.00		32.50	156.00		36.50		5.00	37.00		1.13		
Total	700.75	1804.98	825.25	766.90	4067.24	3219.15	857.97	487.25	333.72	150.19	421.80	215.53	13850.73	CMSDAY
Mean	23.36	58.23	27.51	24.74	131.20	107.31	27.68	16.24	10.77	4.84	14.54	6.95	37.84	CMS
Max	49.20	171.60	51.40	62.70	245.90	174.80	147.00	30.50	19.75	37.00	40.50	14.35	245.90	CMS
Min	7.00	13.00	9.80	2.11	31.00	31.50	0.92	2.75	0.92	0.50	0.71	1.06	0.50	CMS
Runoff	60.55	155.95	71.30	66.26	351.41	278.14	74.13	42.10	28.83	12.98	36.44	18.62	1196.70	MCM
Momentary Peak		252.70	CMS. at 262.92 m. (MSL.) at 09.00 Hours , on Aug 2 , 2011											
Runoff Yield	13.53	Liters/Second/Square KM.			Momentary Peak Yield			90.315	Liters/Second/Square KM.					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.21	0.35	44.46	3.25	86.93	71.90	89.37	11.75	3.55	3.10	7.50	6.70	
2	11.21	0.25	43.96	1.66	57.53	69.80	85.30	5.50	3.40	3.10	7.50	6.70	
3	11.21	0.20	35.02	1.66	52.44	66.30	89.37	4.30	3.55	3.10	7.50	6.70	
4	11.21	1.18	17.58	1.48	48.00	58.16	87.74	7.30	3.55	3.40	12.83	6.70	
5	31.18	5.30	27.05	1.39	67.70	34.54	62.80	7.50	3.55	4.90	19.31	6.70	
6	41.44	5.70	11.21	1.30	67.00	9.59	11.48	7.50	3.55	5.10	35.50	6.70	
7	11.48	7.70	11.21	1.30	67.00	18.27	10.67	7.50	3.55	5.90	32.14	6.70	
8	11.21	7.70	10.94	1.24	70.50	18.97	10.40	7.50	3.55	5.70	31.66	6.70	
9	11.48	9.86	10.94	1.24	79.59	32.14	10.13	7.50	3.55	6.30	50.54	6.50	
10	11.48	29.74	10.67	1.39	78.77	35.02	9.86	7.30	3.55	7.30	27.05	6.50	
11	11.48	32.14	10.67	1.57	85.30	32.14	9.86	5.50	3.70	8.51	9.86	4.70	
12	11.48	36.46	5.90	1.39	86.11	19.65	9.86	7.70	3.70	8.51	39.92	3.10	
13	11.75	42.44	1.30	2.11	99.55	20.00	9.59	7.70	3.70	8.51	40.42	3.10	
14	11.48	11.21	1.39	6.10	93.85	78.77	9.32	7.50	3.90	5.90	40.42	3.40	
15	11.48	0.76	1.30	7.30	91.00	87.74	9.05	7.10	5.10	3.70	33.58	3.40	
16	11.21	1.18	1.24	7.30	88.55	75.51	9.05	7.30	3.10	3.70	25.40	3.25	
17	11.21	7.10	1.24	7.10	92.90	31.18	9.05	4.70	3.90	3.70	17.24	4.30	
18	11.21	16.20	1.39	6.90	89.37	33.10	9.05	4.90	5.90	3.55	11.48	5.50	
19	11.21	23.74	1.39	6.90	101.45	32.62	8.78	4.90	4.70	3.55	11.48	5.50	
20	11.21	35.50	11.75	6.90	91.95	36.46	8.78	4.90	3.10	4.30	11.48	5.50	
21	11.21	42.95	35.02	5.50	91.00	30.70	8.78	4.70	2.35	5.30	11.48	5.50	
22	11.21	42.44	15.17	2.50	87.74	82.85	8.51	3.90	2.02	5.10	11.48	6.90	
23	11.21	43.45	1.18	4.30	82.04	84.48	8.51	3.25	1.84	4.70	10.13	7.97	
24	11.21	46.49	1.12	7.50	71.90	79.59	8.24	3.25	2.35	4.70	6.90	7.70	
25	11.48	45.98	1.24	8.24	69.10	48.63	7.97	2.65	2.35	4.70	6.90	7.70	
26	11.21	45.98	5.30	8.24	68.40	32.14	7.97	2.65	2.80	4.70	6.90	7.70	
27	11.21	45.98	7.70	13.45	77.96	40.93	10.40	3.70	3.55	4.70	7.10	7.97	
28	11.21	45.47	56.89	23.32	77.15	78.77	23.74	3.70	2.80	4.50	7.10	7.70	
29	2.95	45.98	56.25	27.89	75.51	90.19	8.78	3.70	3.10	4.50	6.70	7.70	
30	0.40	45.47	25.81	40.93	78.77	90.19	8.24	3.70	3.10	2.50		7.97	
31		45.47		47.49	77.96		7.97		3.10	2.95		7.70	
Total	370.13	770.37	466.29	258.84	2453.02	1520.33							

WATER YEAR : 2011

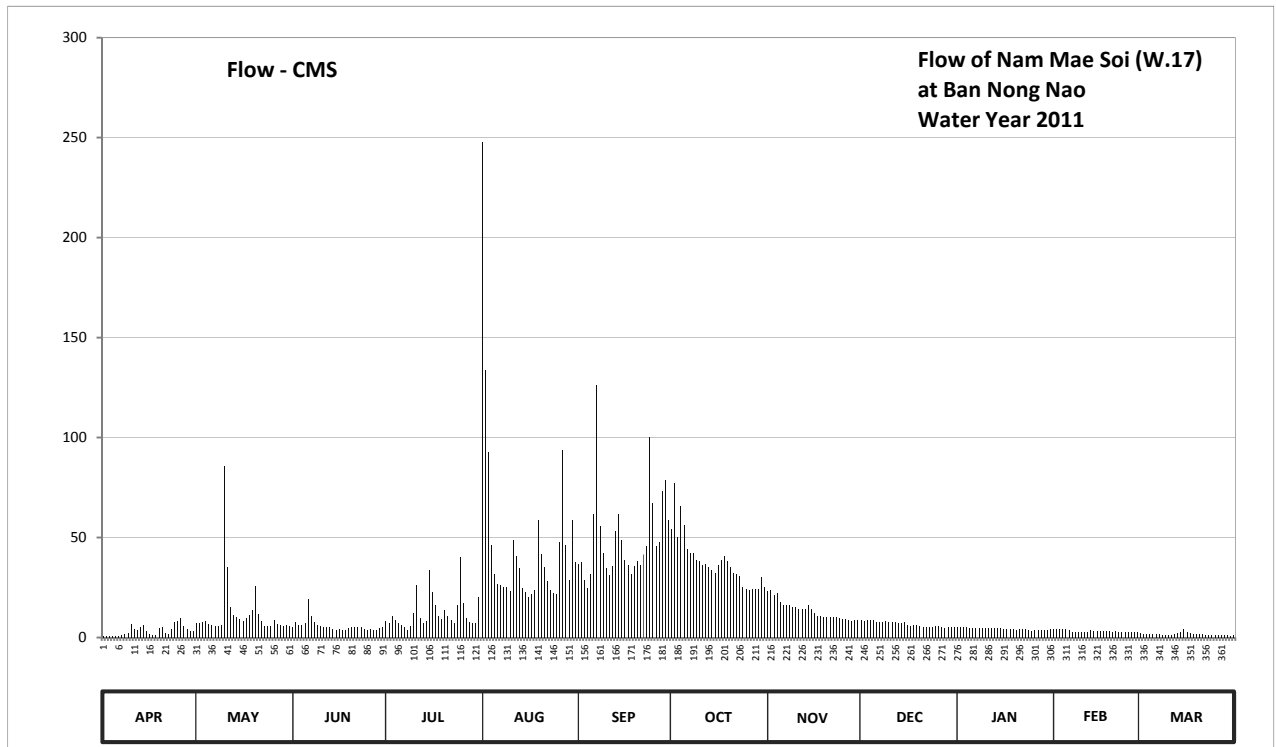
WANG RIVER BASIN

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

Lat 18 - 43 - 13 N Long 99 - 34 - 04 E

Location : on right at the bridge of Lampang - Wang Nua Road.

[illegible]



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.88	7.04	5.00	8.39	247.55	36.95	54.10	23.04	8.54	5.20	4.18	2.38	
2	0.88	7.31	7.58	7.31	133.55	37.50	77.22	23.52	8.17	5.46	4.35	1.90	
3	0.88	7.58	6.50	10.95	92.50	28.62	50.32	21.12	8.91	5.46	4.35	1.80	
4	0.54	8.12	6.25	8.66	46.27	24.96	65.73	22.50	8.54	5.46	4.35	1.70	
5	0.54	6.77	7.04	7.04	31.95	31.95	56.43	17.50	8.54	4.69	4.18	1.60	
6	0.54	6.25	19.20	6.50	26.95	61.85	44.25	16.50	7.80	4.86	3.50	1.50	
7	1.44	5.50	10.95	5.25	26.40	126.20	42.23	16.50	7.54	4.69	2.86	1.50	
8	1.58	5.50	7.85	3.80	25.44	55.65	42.23	16.00	7.54	4.69	2.54	1.40	
9	2.40	6.25	6.25	5.50	25.44	42.23	38.85	15.00	8.17	4.52	2.70	1.40	
10	6.77	85.85	5.75	12.35	23.04	34.73	38.18	15.00	7.80	4.69	2.86	1.40	
11	4.25	35.28	5.00	26.40	48.98	31.40	36.39	14.50	7.80	4.52	2.86	1.30	
12	3.60	15.16	5.00	9.90	40.88	35.83	36.95	14.50	7.54	4.69	2.86	1.70	
13	5.25	11.30	5.00	7.04	34.73	53.33	35.28	14.50	7.28	4.52	3.50	2.38	
14	6.25	10.25	4.50	8.12	24.96	61.85	33.61	16.00	7.28	4.69	3.34	2.54	
15	3.00	9.20	3.60	33.61	22.56	48.98	32.50	14.00	7.54	4.86	3.34	4.01	
16	1.86	8.39	4.00	22.56	20.16	38.85	36.39	12.00	5.98	4.18	3.34	2.70	
17	1.16	9.90	3.60	15.98	21.60	36.39	38.85	10.76	5.72	4.18	3.02	2.06	
18	1.02	11.30	3.80	10.60	23.52	31.95	40.88	10.76	6.24	4.01	3.34	1.90	
19	4.75	13.93	4.75	9.20	58.75	35.83	38.18	10.39	6.24	4.01	3.02	1.60	
20	5.00	25.92	5.25	13.93	41.55	38.18	35.28	10.39	5.72	3.84	2.70	1.50	
21	2.40	11.65	5.00	10.95	35.28	36.39	32.50	10.39	5.03	4.01	3.02	1.50	
22	1.72	8.39	5.00	8.66	28.07	41.55	31.95	10.02	5.20	4.35	2.70	1.30	
23	4.00	5.75	5.00	7.04	23.52	45.60	30.84	10.39	5.46	4.18	2.54	1.20	
24	7.58	5.50	4.50	16.39	22.08	100.10	25.44	9.65	5.46	3.84	2.54	1.10	
25	8.39	5.50	3.60	40.20	21.60	67.33	24.00	9.28	5.72	3.34	2.54	1.00	
26	9.90	8.66	4.00	17.28	47.62	45.60	23.52	9.28	5.72	3.50	2.70	1.00	
27	5.50	6.77	3.60	9.55	93.45	47.62	24.48	8.91	5.20	3.50	2.70	1.10	
28	4.25	6.00	3.80	7.85	46.27	73.10	24.00	8.17	4.69	3.50	2.54	1.10	
29	3.40	5.75	4.75	7.31	28.62	78.88	24.48	8.54	5.20	3.50	2.54	1.10	
30	3.00	6.25	5.25	7.04	58.75	58.75	30.28	8.54	5.46	3.67		0.90	
31		5.75		20.16	37.50		25.44		5.46	4.18		1.10	
Total	102.73	372.77	171.37	385.52	1459.54	1488.15	1170.78	4					

WATER YEAR : 2011

WANG RIVER BASIN

Nam Mae Soi at Ban Thung Thong , Lampang (W.17A)

Lat 18 - 42 - 16 N Long 99 - 53 - 52 E

Location : on left bank at Ban Thung Thong.

	Ban	Thung Thong	Amphoe	Chae Hom	Changwat	Lampang
Drainage Area	788	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+295.655	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	About 21 meters from the top staff gage.				Elevation	+300.250 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2011 to date					
Rating Operation						
Period of Rating	2011 to date					
Rated by Flot	-					
Rated by Current Meter	2011 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 45 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	296.03	296.56	296.26	296.42	298.62	297.09	297.31	296.74	296.52	296.32	296.18	296.01	
2	296.03	296.47	296.37	296.39	297.95	297.07	297.45	296.73	296.52	296.27	296.25	296.00	
3	296.02	296.42	296.33	296.51	297.52	296.99	297.19	296.73	296.51	296.29	296.21	296.01	
4	296.00	296.38	296.33	296.42	297.13	296.88	297.27	296.76	296.50	296.29	296.21	296.00	
5	296.02	296.38	296.33	296.35	296.98	296.98	297.17	296.71	296.51	296.24	296.21	295.99	
6	296.03	296.38	296.69	296.31	296.91	297.29	297.07	296.71	296.50	296.27	296.16	296.00	
7	295.98	296.28	296.46	296.23	297.02	297.66	296.98	296.69	296.50	296.27	296.12	296.01	
8	295.99	296.29	296.34	296.15	296.88	297.26	296.97	296.68	296.49	296.26	296.05	296.01	
9	296.07	296.56	296.28	296.25	296.88	297.14	296.95	296.67	296.51	296.25	296.00	296.00	
10	296.30	297.54	296.27	296.56	296.83	297.04	296.93	296.66	296.50	296.24	296.01	296.01	
11	296.19	296.91	296.23	296.78	297.18	297.01	296.91	296.66	296.49	296.25	296.00	296.02	
12	296.15	296.64	296.23	296.43	297.06	297.08	296.90	296.66	296.49	296.26	296.01	296.05	
13	296.32	296.52	296.21	296.35	297.02	297.25	296.86	296.66	296.47	296.25	296.14	296.20	
14	296.54	296.49	296.18	296.40	296.90	297.28	296.84	296.66	296.46	296.26	296.12	296.25	
15	296.29	296.45	296.12	297.00	296.88	297.18	296.84	296.66	296.43	296.25	296.11	296.25	
16	296.22	296.41	296.14	296.76	296.82	297.09	296.87	296.71	296.39	296.26	296.12	296.18	
17	296.13	296.44	296.11	296.63	296.86	297.03	296.88	296.66	296.39	296.23	296.11	296.08	
18	296.12	296.52	296.14	296.46	296.94	296.93	297.00	296.65	296.38	296.20	296.12	296.06	
19	296.40	296.69	296.16	296.45	297.30	296.94	296.96	296.59	296.40	296.20	296.12	296.03	
20	296.42	296.74	296.27	296.58	297.05	297.08	296.84	296.54	296.37	296.20	296.09	296.04	
21	296.24	296.48	296.16	296.45	297.03	297.03	296.83	296.57	296.34	296.21	296.09	296.01	
22	296.19	296.40	296.13	296.33	296.93	297.11	296.62	296.62	296.30	296.20	296.08	296.00	
23	296.38	296.32	296.12	296.25	296.86	297.18	295.81	296.60	296.33	296.10	296.09	296.00	
24	296.60	296.31	296.12	296.57	296.83	297.83	295.79	296.57	296.36	296.06	296.09	295.97	
25	296.61	296.31	296.35	297.04	296.85	297.26	295.76	296.56	296.35	296.03	296.09	295.94	
26	296.60	296.44	297.25	296.65	297.38	297.05	295.76	296.56	296.35	296.04	296.08	295.94	
27	296.41	296.40	297.05	296.40	297.60	297.15	295.81	296.54	296.36	296.09	296.08	295.95	
28	296.35	296.31	296.81	296									

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.11	12.30	4.28	8.10	248.40	40.11	57.71	19.80	11.10	5.66	2.69	0.91	
2	1.11	9.60	6.81	7.27	131.00	38.65	70.63	19.35	11.10	4.51	4.05	0.80	
3	1.01	8.10	5.89	10.80	77.80	32.95	47.46	19.35	10.80	4.97	3.13	0.91	
4	0.80	7.04	5.89	8.10	43.05	26.90	54.25	20.70	10.50	4.97	3.13	0.80	
5	1.01	7.04	5.89	6.35	32.40	32.40	46.00	18.45	10.80	3.82	3.13	0.76	
6	1.11	7.04	17.55	5.43	28.55	55.99	38.65	18.45	10.50	4.51	2.48	0.80	
7	0.72	4.74	9.30	3.59	34.97	93.20	32.40	17.55	10.50	4.51	2.06	0.91	
8	0.76	4.97	6.12	2.37	26.90	53.39	31.85	17.10	10.20	4.28	1.32	0.91	
9	1.54	12.30	4.74	4.05	26.90	43.79	30.75	16.65	10.80	4.05	0.80	0.80	
10	5.20	79.85	4.51	12.30	24.15	36.44	29.65	16.20	10.50	3.82	0.91	0.91	
11	2.79	28.55	3.59	21.60	46.73	34.24	28.55	16.20	10.20	4.05	0.80	1.01	
12	2.37	15.30	3.59	8.40	37.91	39.38	28.00	16.20	10.20	4.28	0.91	1.32	
13	5.66	11.10	3.13	6.35	34.97	52.52	25.80	16.20	9.60	4.05	2.27	2.90	
14	11.70	10.20	2.69	7.50	28.00	55.12	24.70	16.20	9.30	4.28	2.06	4.05	
15	4.97	9.00	2.06	33.50	26.90	46.73	24.70	16.20	8.40	4.05	1.95	4.05	
16	3.36	7.80	2.27	20.70	23.60	40.11	26.35	18.45	7.27	4.28	2.06	2.69	
17	2.16	8.70	1.95	14.85	25.80	35.70	26.90	16.20	7.27	3.59	1.95	1.64	
18	2.06	11.10	2.27	9.30	30.20	29.65	33.50	15.75	7.04	2.90	2.06	1.43	
19	7.50	17.55	2.48	9.00	56.85	30.20	31.30	13.20	7.50	2.90	2.06	1.11	
20	8.10	19.80	4.51	12.90	37.17	39.38	24.70	11.70	6.81	2.90	1.74	1.22	
21	3.82	9.90	2.48	9.00	35.70	35.70	24.15	12.60	6.12	3.13	1.74	0.91	
22	2.79	7.50	2.16	5.89	29.65	41.58	14.40	14.40	5.20	2.90	1.64	0.80	
23	7.04	5.66	2.06	4.05	25.80	46.73	0.13	13.50	5.89	1.85	1.74	0.80	
24	13.50	5.43	2.06	12.60	24.15	114.20	0.09	12.60	6.58	1.43	1.74	0.68	
25	13.95	5.43	6.35	36.44	25.25	53.39	0.06	12.30	6.35	1.11	1.74	0.56	
26	13.50	8.70	52.52	15.75	63.77	37.17	0.06	12.30	6.35	1.22	1.64	0.56	
27	7.80	7.50	37.17	7.50	86.00	44.52	0.13	11.70	6.58	1.74	1.64	0.60	
28	6.35	5.43	23.05	5.43	45.26	66.53	5.66	11.70	6.12	2.37	1.64	0.56	
29	5.20	5.43	13.95	5.43	30.20	66.53	19.80	11.70	6.12	2.48	0.91	0.48	
30	4.74	5.20	10.50	5.20	62.90	54.25	25.25	11.40	6.12	2.69		0.48	
31		4.97		29.10	39.38		21.15		5.89	2.69		0.56	
Total	143.73	363.23	251.82	348.85	1490.31	1417.4							

WATER YEAR : 2011

WANG RIVER BASIN

Nam Mae Tam at Ban Sop Tam , Lampang (W.18A)

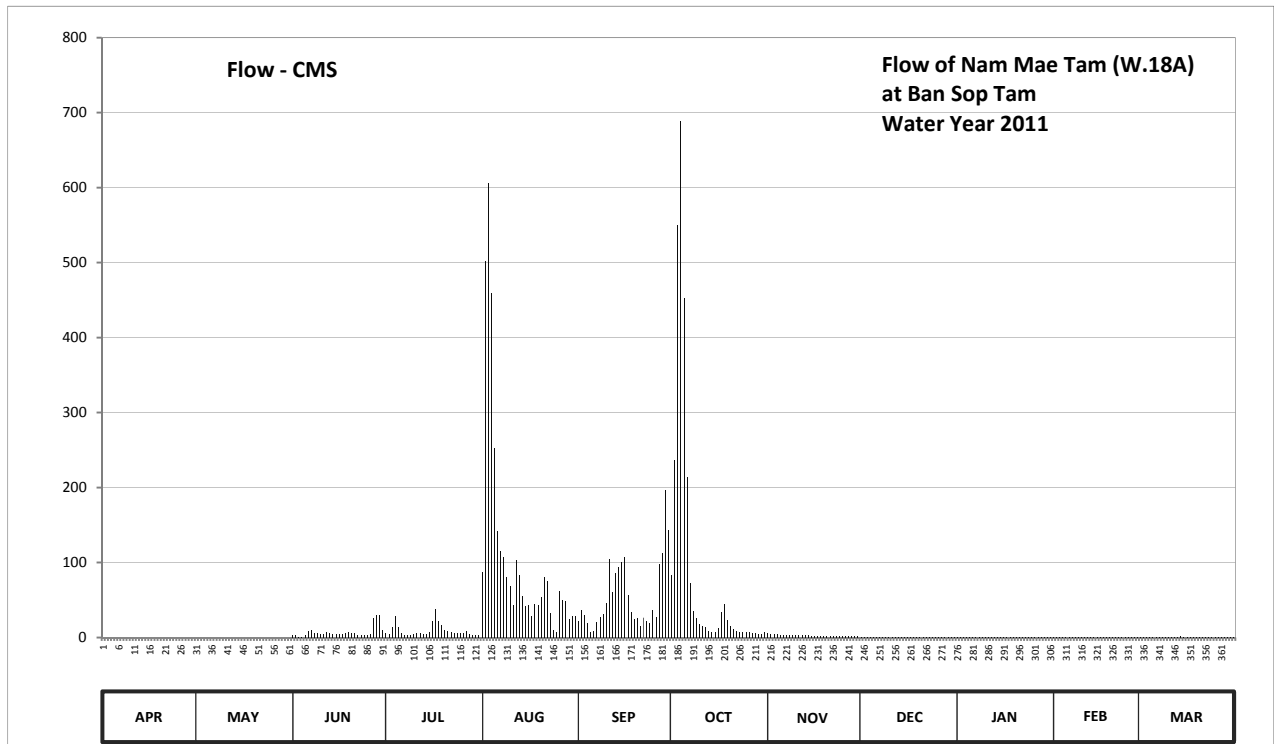
Lat 18 - 02 - 38 N Long 99 - 14 - 14 E

Location : on left bank at Ban Sop Tam.

	Ban	Sop Tam	Amphoe	Ko Kha	Changwat	Lampang
Drainage Area	371	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+204.920	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	About 21 meters from the top staff gage.				Elevation	+213.703 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2011 to date					
Rating Operation						
Period of Rating	2011 to date					
Rated by Flot	-					
Rated by Current Meter	2011 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 40 discharge measurements made in 2011.					
Remark	beginning on 1 st May 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	0.35	205.48	205.75	207.89	207.35	207.82	205.70	205.33	205.26	205.16	205.16	
2	*****	0.36	205.50	205.65	211.71	207.77	209.67	205.64	205.30	205.26	205.19	205.15	
3	*****	0.37	205.33	206.17	212.36	207.61	212.01	205.60	205.26	205.26	205.21	205.15	
4	*****	0.47	205.32	206.70	211.44	207.22	212.88	205.60	205.24	205.26	205.22	205.14	
5	*****	0.58	205.51	206.18	209.82	206.72	211.39	205.53	205.21	205.26	205.22	205.14	
6	*****	0.60	205.90	205.72	208.65	206.79	209.46	205.49	205.18	205.26	205.22	205.13	
7	*****	0.54	205.99	205.54	208.30	207.27	207.64	205.49	205.15	205.26	205.21	205.13	
8	*****	0.48	205.75	205.49	208.18	207.50	206.87	205.49	205.13	205.26	205.21	205.14	
9	*****	0.70	205.67	205.49	207.78	207.62	206.62	205.49	205.14	205.26	205.21	205.14	
10	*****	4.17	205.61	205.65	207.58	208.02	206.37	205.49	205.14	205.25	205.20	205.14	
11	*****	4.67	205.58	205.76	207.94	208.83	206.26	205.48	205.23	205.25	205.20	205.16	
12	*****	3.24	205.81	205.67	208.82	208.28	206.17	205.48	205.25	205.25	205.20	205.17	
13	*****	2.40	205.70	205.60	208.61	208.63	205.93	205.48	205.24	205.25	205.19	205.30	
14	*****	2.07	205.63	205.61	208.21	208.72	205.82	205.47	205.24	205.24	205.19	205.34	
15	*****	1.95	205.58	205.84	207.91	208.80	205.85	205.46	205.24	205.24	205.19	205.32	
16	*****	1.40	205.59	206.50	207.95	208.86	206.13	205.45	205.24	205.24	205.18	205.30	
17	*****	1.04	205.66	206.95	207.55	208.23	206.85	205.44	205.24	205.23	205.18	205.28	
18	*****	2.38	205.70	206.47	208.00	207.71	207.09	205.43	205.24	205.23	205.18	205.27	
19	*****	2.07	205.80	206.32	207.97	207.43	206.55	205.42	205.24	205.22	205.17	205.26	
20	*****	1.87	205.69	205.99	208.18	207.48	206.24	205.41	205.25	205.21	205.17	205.24	
21	*****	1.53	205.67	205.89	208.57	207.07	206.07	205.40	205.25	205.21	205.18	205.22	
22	*****	1.15	205.56	205.81	208.49	207.48	205.93	205.40	205.25	205.20	205.18	205.20	
23	*****	0.94	205.49	205.76	207.67	207.33	205.81	205.39	205.26	205.20	205.18	205.19	
24	*****	0.81	205.49	205.76	206.82	207.22	205.82	205.38	205.26	205.19	205.18	205.19	
25	*****	0.73	205.49	205.68	206.73	207.76	205.82	205.38	205.26	205.18	205.18	205.18	
26	*****	0.86	205.61	205.77	208.30	207.49	205.78	205.37	205.27	205.17	205.18	205.19	
27	*****	0.85	206.62	205.86	208.09	208.06	205.75	205.36	205.27	205.17	205.18	205.19	
28	*****	0.82	206.75	205.58	208.06	208.27	205.69	205.36	205.27	205.16	205.18	205.18	
29	*****	0.70	206.75	205.49	207.44	209.28	205.62	205.35	205.				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	0.00	2.78	6.35	87.40	22.55	83.20	5.60	1.27	0.72	0.22	0.22	
2	*****	0.00	3.00	4.90	501.60	36.38	236.35	4.76	1.00	0.72	0.28	0.20	
3	*****	0.00	1.27	13.29	605.60	30.37	549.60	4.20	0.72	0.72	0.37	0.20	
4	*****	0.00	1.18	28.50	459.60	18.78	688.80	4.20	0.58	0.72	0.44	0.18	
5	*****	0.00	3.12	13.46	252.30	7.44	452.60	3.36	0.37	0.72	0.44	0.18	
6	*****	0.00	8.70	5.90	141.37	8.98	214.30	2.89	0.26	0.72	0.44	0.16	
7	*****	0.00	10.23	3.48	115.00	20.23	72.40	2.89	0.20	0.72	0.37	0.16	
8	*****	0.00	6.35	2.89	106.60	27.00	34.80	2.89	0.16	0.72	0.37	0.18	
9	*****	0.00	5.18	2.89	80.80	30.75	25.70	2.89	0.18	0.72	0.37	0.18	
10	*****	0.00	4.34	4.90	68.80	46.00	18.56	2.89	0.18	0.65	0.30	0.18	
11	*****	0.00	3.96	6.50	42.75	104.45	15.48	2.78	0.51	0.65	0.30	0.22	
12	*****	0.00	7.26	5.18	103.30	60.20	13.29	2.78	0.65	0.65	0.30	0.24	
13	*****	0.00	5.60	4.20	83.90	85.70	9.21	2.78	0.58	0.65	0.28	1.00	
14	*****	0.00	4.62	4.34	55.65	93.80	7.42	2.67	0.58	0.58	0.28	1.36	
15	*****	0.00	3.96	7.74	41.63	101.00	7.90	2.56	0.58	0.58	0.28	1.18	
16	*****	0.00	4.08	22.20	43.12	107.90	12.61	2.45	0.58	0.58	0.26	1.00	
17	*****	0.00	5.04	38.00	28.50	56.95	34.00	2.34	0.58	0.51	0.26	0.86	
18	*****	0.00	5.60	21.36	45.00	34.13	44.32	2.23	0.58	0.51	0.26	0.79	
19	*****	0.00	7.10	17.16	43.88	24.90	23.60	2.12	0.58	0.44	0.24	0.72	
20	*****	0.00	5.46	10.23	54.00	26.40	14.92	2.01	0.65	0.37	0.24	0.58	
21	*****	0.00	5.18	8.54	80.75	15.21	11.59	1.90	0.65	0.37	0.26	0.44	
22	*****	0.00	3.72	7.26	74.75	26.40	9.21	1.90	0.65	0.30	0.26	0.30	
23	*****	0.00	2.89	6.50	32.62	21.97	7.26	1.81	0.72	0.30	0.26	0.28	
24	*****	0.00	2.89	6.50	9.64	18.78	7.42	1.72	0.72	0.28	0.26	0.28	
25	*****	0.00	2.89	5.32	7.66	36.00	7.42	1.72	0.72	0.26	0.26	0.26	
26	*****	0.00	4.34	6.65	61.50	26.70	6.80	1.63	0.79	0.24	0.26	0.28	
27	*****	0.00	25.70	8.06	49.50	98.20	6.35	1.54	0.79	0.24	0.26	0.28	
28	*****	0.00	30.25	3.96	48.00	112.90	5.46	1.54	0.79	0.22	0.26	0.26	
29	*****	0.00	30.25	2.89	25.20	196.60	4.48	1.45	0.72	0.22	0.24	0.28	
30	*****	0.00	10.40	2.89	29.10	142.92	4.62	1.36	0.72	0.20		0.30	
31		0.00		3.60	28.20		6.80		0.72	0.20		0.30	
Total	*****	0.00	217.34	285.64	3407.72	1639.59	2636.47	77.86	18.78	15.48	8.62	13.05	***** CMSDAY
Mean	*****	0.00	7.24	9.21	109.93	54.65	85.05	2.6					

WATER YEAR : 2011

WANG RIVER BASIN

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

Lat 18 - 18 - 34 N Long 99 - 27 - 40 E

Location : on left bank at the bridge of Lampang - Hang Chat Highway.

	Ban	Tha Lo	Amphoe	Mueang	Changwat	Lampang
Drainage Area	941	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+230.420	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the approach of the bridge.				Elevation	+237.644 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings.					
Period of Available Gage Records	1993 to date					
Rating Operation						
Period of Rating	1993 to date					
Rated by Flot	-					
Rated by Current Meter	1993 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair.Flow effected by the local weir about 200 meters downstream from the gage site.					
	Stage-discharge relation defined by 50 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.70	230.68	230.48	230.68	232.62	231.09	231.18	230.50	230.19	230.66	230.03	229.87	
2	230.67	230.69	230.59	230.67	233.35	230.97	231.87	230.55	230.18	230.68	230.64	229.82	
3	230.65	230.71	230.54	231.27	232.35	231.03	231.99	230.59	230.24	230.68	230.71	229.83	
4	230.64	230.68	230.50	230.88	231.58	230.77	231.84	230.58	230.63	230.67	230.73	229.87	
5	230.63	230.68	230.54	230.68	231.12	230.80	231.62	230.47	230.66	230.73	230.72	229.89	
6	230.63	230.71	230.72	230.59	230.97	231.35	231.19	230.44	230.66	230.78	230.68	229.96	
7	230.63	230.67	230.79	230.74	231.03	231.98	231.06	230.41	230.65	230.82	230.63	230.01	
8	230.63	230.62	230.60	230.77	231.39	231.62	231.05	230.41	230.61	230.77	230.52	230.23	
9	230.64	230.91	230.54	230.74	231.25	231.92	230.99	230.38	230.42	230.74	230.32	230.68	
10	230.65	232.36	230.49	230.79	231.43	232.45	230.98	230.38	230.19	230.74	230.11	230.75	
11	230.65	232.27	230.48	231.06	231.54	231.85	230.91	230.38	230.10	230.73	229.96	230.76	
12	230.65	231.08	230.50	230.99	231.35	231.72	230.85	230.37	230.09	230.74	229.92	230.73	
13	230.65	230.80	230.48	230.85	231.18	231.59	230.81	230.36	230.09	230.75	229.89	230.89	
14	230.64	230.81	230.47	230.83	230.97	231.91	230.71	230.36	230.15	230.76	229.91	230.81	
15	230.64	231.26	230.43	231.00	230.73	232.24	230.71	230.35	230.27	230.78	229.90	230.75	
16	230.64	230.85	230.41	231.41	230.83	231.78	230.81	230.35	230.28	230.78	229.98	230.69	
17	230.63	230.92	230.47	231.57	231.02	231.39	231.01	230.31	230.33	230.75	230.04	230.64	
18	230.61	231.24	230.62	231.05	231.82	231.28	230.93	230.29	230.38	230.72	230.12	230.61	
19	230.60	230.83	230.51	230.88	231.52	231.35	230.91	230.28	230.46	230.71	230.61	230.56	
20	230.60	230.83	230.49	230.85	232.28	231.35	230.75	230.27	230.37	230.68	230.69	230.44	
21	230.60	230.71	230.49	230.84	232.23	231.21	230.70	230.26	230.34	230.69	230.70	230.32	
22	230.63	230.62	230.48	230.81	231.56	231.46	230.68	230.26	230.33	230.67	230.69	230.15	
23	230.66	230.59	230.54	230.81	231.14	231.21	230.65	230.25	230.32	230.61	230.64	229.98	
24	230.69	230.56	230.68	230.85	230.92	231.11	230.60	230.23	230.46	230.52	230.60	229.94	
25	230.75	230.53	230.74	230.94	230.82	231.47	230.57	230.22	230.58	230.34	230.48	229.96	
26	230.82	230.65	231.20	231.02	231.99	231.19	230.57	230.22	230.63	230.21	230.25	230.02	
27	230.81	230.58	231.57	230.96	231.59	231.14	230.50	230.21	230.63	230.02	230.09	230.36	
28	230.75	230.56	231.18	230									

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.30	6.94	3.84	6.94	95.34	17.00	19.94	4.10	0.96	6.58	0.39	0.17	
2	6.76	7.12	5.36	6.76	147.70	13.52	50.94	4.80	0.92	6.94	6.22	0.12	
3	6.40	7.50	4.66	23.33	78.25	15.20	57.45	5.36	1.32	6.94	7.50	0.13	
4	6.22	6.94	4.10	11.22	36.60	8.70	49.38	5.22	6.04	6.76	7.90	0.17	
5	6.04	6.94	4.66	6.94	17.96	9.30	38.44	3.71	6.58	7.90	7.70	0.19	
6	6.04	7.50	7.70	5.36	13.52	26.50	20.27	3.32	6.58	8.90	6.94	0.26	
7	6.04	6.76	9.10	8.10	15.20	56.90	16.10	2.93	6.40	9.78	6.04	0.33	
8	6.04	5.86	5.50	8.70	28.10	38.44	15.80	2.93	5.68	8.70	4.38	1.24	
9	6.22	11.96	4.66	8.10	22.55	53.60	14.04	2.60	3.06	8.10	2.00	6.94	
10	6.40	78.86	3.97	9.10	29.85	84.40	13.78	2.60	0.96	8.10	0.64	8.30	
11	6.40	73.43	3.84	16.10	34.80	49.90	11.96	2.60	0.60	7.90	0.26	8.50	
12	6.40	16.70	4.10	14.04	26.50	43.22	10.50	2.50	0.57	8.10	0.22	7.90	
13	6.40	9.30	3.84	10.50	19.94	37.05	9.54	2.40	0.57	8.30	0.19	11.46	
14	6.22	9.54	3.71	10.02	13.52	53.05	7.50	2.40	0.80	8.50	0.21	9.54	
15	6.22	22.94	3.19	14.30	7.90	71.66	7.50	2.30	1.56	8.90	0.20	8.30	
16	6.22	10.50	2.93	28.95	10.02	46.28	9.54	2.30	1.64	8.90	0.28	7.12	
17	6.04	12.22	3.71	36.15	14.90	28.10	14.60	1.90	2.10	8.30	0.42	6.22	
18	5.68	22.16	5.86	15.80	48.34	23.72	12.48	1.72	2.60	7.70	0.68	5.68	
19	5.50	10.02	4.24	11.22	33.90	26.50	11.96	1.64	3.58	7.50	5.68	4.94	
20	5.50	10.02	3.97	10.50	74.02	26.50	8.30	1.56	2.50	6.94	7.12	3.32	
21	5.50	7.50	3.97	10.26	71.07	20.99	7.30	1.48	2.20	7.12	7.30	2.00	
22	6.04	5.86	3.84	9.54	35.70	31.20	6.94	1.48	2.10	6.76	7.12	0.80	
23	6.58	5.36	4.66	9.54	18.62	20.99	6.40	1.40	2.00	5.68	6.22	0.28	
24	7.12	4.94	6.94	10.50	12.22	17.63	5.50	1.24	3.58	4.38	5.50	0.24	
25	8.30	4.52	8.10	12.74	9.78	31.65	5.08	1.16	5.22	2.20	3.84	0.26	
26	9.78	6.40	20.60	14.90	57.45	20.27	5.08	1.16	6.04	1.08	1.40	0.36	
27	9.54	5.22	36.15	13.26	37.05	18.62	4.10	1.08	6.04	0.36	0.57	2.40	
28	8.30	4.94	19.94	10.50	24.90	20.99	3.19	1.08	6.04	0.23	0.21	8.10	
29	7.70	4.52	14.30	9.78	14.90	47.82	2.80	1.00	6.04	0.18	0.18	8.10	
30	7.12	3.97	9.54	9.10	18.95	24.90	3.32	1.00	6.04	0.21		9.10	
31		3.84		12.22	14.04		4.10		6.22	0.36		8.70	
Total	200.02	400.28	220.98	384.47	1083.59	984.60	453.83	70.97	106.54	188.30	97.31		

WATER YEAR : 2011

WANG RIVER BASIN

Wang River at Ban Tha Dua , Lampang (W.21)

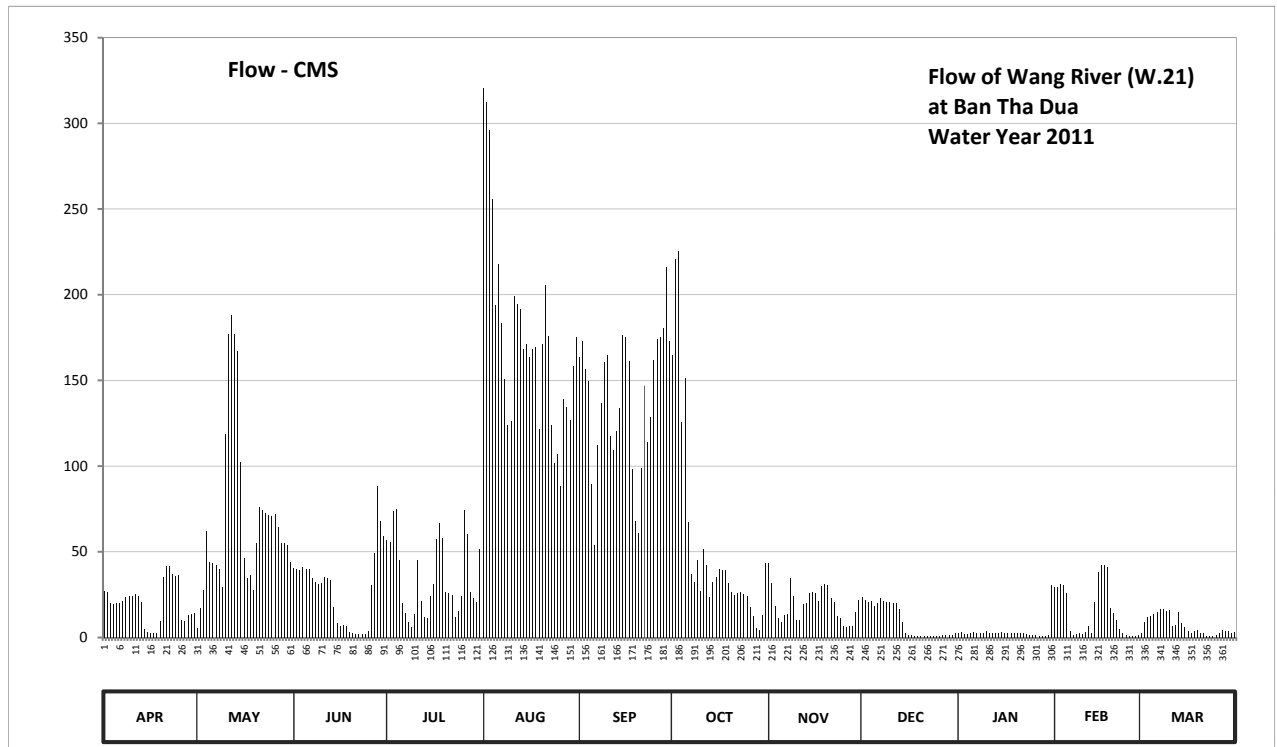
Lat 18 - 20 - 18 N Long 99 - 32 - 27 E

Location : on left bank at the bridge on highway.

	Ban	Tha Dua	Amphoe	Mueang	Changwat	Lampang
Drainage Area	3,367	sq.km.				
Type of Gage	Water	- stage recorder				
Zero Gage at Bottom	+232.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 5 meters from the top staff gage.				Elevation	+236.495 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings.					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 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 48 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	232.59	231.90	232.90	233.24	236.70	234.99	235.01	232.96	232.48	231.78	232.64	231.79	
2	232.57	232.30	232.89	233.22	236.64	235.11	235.70	232.70	232.44	231.81	232.65	232.03	
3	232.38	232.60	232.88	233.58	236.50	234.90	235.75	232.34	232.41	231.72	232.69	232.13	
4	232.37	233.35	232.91	233.60	236.09	234.81	234.47	232.11	232.42	231.68	232.68	232.15	
5	232.38	232.98	232.89	233.00	235.38	233.87	234.83	232.04	232.33	231.78	232.56	232.18	
6	232.39	232.97	232.89	232.38	235.66	233.18	233.45	232.17	232.38	231.81	231.83	232.23	
7	232.42	232.94	232.77	232.20	235.25	234.26	232.82	232.18	232.47	231.77	231.67	232.28	
8	232.49	232.89	232.72	232.04	234.82	234.63	232.72	232.77	232.42	231.74	231.68	232.27	
9	232.51	232.65	232.69	231.93	234.44	234.95	233.01	232.51	232.40	231.78	231.74	232.25	
10	232.51	234.36	232.70	232.18	234.48	235.01	232.59	232.08	232.40	231.82	231.68	232.26	
11	232.53	235.17	232.78	233.01	235.44	234.35	233.14	232.07	232.39	231.76	231.80	231.94	
12	232.51	235.31	232.77	232.43	235.39	234.22	232.94	232.37	232.39	231.75	231.95	231.96	
13	232.41	235.17	232.74	232.13	235.35	234.39	232.49	232.39	232.27	231.79	231.77	232.23	
14	231.89	235.04	232.31	232.11	235.05	234.59	232.71	232.56	232.04	231.79	232.40	232.01	
15	231.81	234.10	232.02	232.51	235.09	235.16	232.78	232.58	231.79	231.80	232.85	231.93	
16	231.78	233.03	231.95	232.69	234.99	235.14	232.89	232.55	231.65	231.77	232.94	231.82	
17	231.77	232.77	231.96	233.26	235.05	234.96	232.87	232.42	231.62	231.78	232.94	231.76	
18	231.78	232.81	231.95	233.44	235.07	234.03	232.88	232.66	231.60	231.76	232.91	231.82	
19	232.06	232.61	231.80	233.27	234.41	233.47	232.70	232.69	231.56	231.76	232.30	231.86	
20	232.79	233.21	231.73	232.57	235.09	233.33	232.58	232.67	231.54	231.76	232.21	231.78	
21	232.92	233.62	231.72	232.55	235.52	234.04	232.52	232.47	231.56	231.77	232.08	231.74	
22	232.93	233.59	231.69	232.52	235.15	234.77	232.56	232.40	231.59	231.73	231.89	231.60	
23	232.82	233.55	231.72	232.13	234.44	234.29	232.57	232.16	231.58	231.69	231.78	231.57	
24	232.80	233.53	231.70	232.25	234.09	234.51	232.53	232.11	231.56	231.67	231.66	231.60	
25	232.81	233.52	231.83	232.51	234.18	234.97	232.51	231.95	231.58	231.62	231.58	231.64	
26	232.08	233.54	232.67	233.59	233.85	235.13	232.32	231.93	231.60	231.62	231.58	231.79	
27	232.05	233.40	233.09	233.32	234.66	235.14	232.15	231.94	231.63	231.57	231.58	231.85	
28	232.17	233.21	233.85	232									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.15	5.50	40.50	56.70	320.75	163.49	165.01	43.20	23.30	2.80	29.20	2.90	
2	26.45	17.25	40.05	55.73	312.20	172.64	221.00	31.75	21.90	3.25	29.62	8.90	
3	19.85	27.50	39.60	73.95	296.00	156.62	225.25	18.55	20.85	2.20	31.32	11.90	
4	19.53	62.06	40.95	75.00	255.60	149.76	125.73	11.30	21.20	1.80	30.90	12.50	
5	19.85	44.10	40.05	45.00	193.90	89.35	151.29	9.20	18.23	2.80	26.10	13.40	
6	20.18	43.65	40.05	19.85	217.60	53.77	67.12	13.10	19.85	3.25	3.75	14.97	
7	21.20	42.30	34.73	14.00	183.50	111.90	36.90	13.40	22.95	2.70	1.70	16.60	
8	23.65	40.05	32.60	9.20	150.53	136.67	32.60	34.73	21.20	2.40	1.80	16.28	
9	24.35	29.62	31.32	6.25	123.70	160.44	45.49	24.35	20.50	2.80	2.40	15.63	
10	24.35	118.40	31.75	13.40	126.40	165.01	27.15	10.40	20.50	3.50	1.80	15.95	
11	25.05	177.21	35.15	45.49	198.90	117.75	51.83	10.10	20.18	2.60	3.00	6.50	
12	24.35	188.30	34.73	21.55	194.70	109.30	42.30	19.53	20.18	2.50	6.75	7.00	
13	20.85	177.21	33.45	11.90	191.50	120.35	23.65	20.18	16.28	2.90	2.70	14.97	
14	5.25	167.30	17.58	11.30	168.06	133.82	32.18	26.10	9.20	2.90	20.50	8.30	
15	3.25	102.25	8.60	24.35	171.11	176.45	35.15	26.80	2.90	3.00	38.25	6.25	
16	2.80	46.46	6.75	31.32	163.49	174.93	40.05	25.75	1.50	2.70	42.30	3.50	
17	2.70	34.73	7.00	57.67	168.06	161.20	39.15	21.20	1.20	2.80	42.30	2.60	
18	2.80	36.45	6.75	66.60	169.59	98.22	39.60	30.05	1.00	2.60	40.95	3.50	
19	9.80	27.92	3.00	58.16	121.68	68.18	31.75	31.32	0.80	2.60	17.25	4.50	
20	35.57	55.24	2.30	26.45	171.11	61.09	26.80	30.47	0.70	2.60	14.33	2.80	
21	41.40	76.05	2.20	25.75	205.70	98.80	24.70	22.95	0.80	2.70	10.40	2.40	
22	41.85	74.47	1.90	24.70	175.69	146.83	26.10	20.50	0.95	2.30	5.25	1.00	
23	36.90	72.37	2.20	11.90	123.70	113.85	26.45	12.80	0.90	1.90	2.80	0.85	
24	36.00	71.32	2.00	15.63	101.67	128.42	25.05	11.30	0.80	1.70	1.60	1.00	
25	36.45	70.80	3.75	24.35	106.85	161.96	24.35	6.75	0.90	1.20	0.90	1.40	
26	10.40	71.85	30.47	74.47	88.25	174.16	17.90	6.25	1.00	1.20	0.90	2.90	
27	9.50	64.50	49.39	60.60	138.85	174.93	12.50	6.50	1.30	0.85	0.90	4.25	
28	13.10	55.24	88.25	26.45	134.50	180.30	5.50	6.75	1.60	0.75	1.30	4.00	
29	13.70	55.24	67.65	22.95	127.08	215.90	4.50	14.65	1.70	0.65	2.40	3.50	
30	14.00	53.77	59.14	20.50	158.15	172.64	13.10	21.90	1.70	1.40		2.90	
31		44.10											

WATER YEAR : 2011

WANG RIVER BASIN

Nam Mae Chang at Ban Wang Phrao , Lampang (W.22)

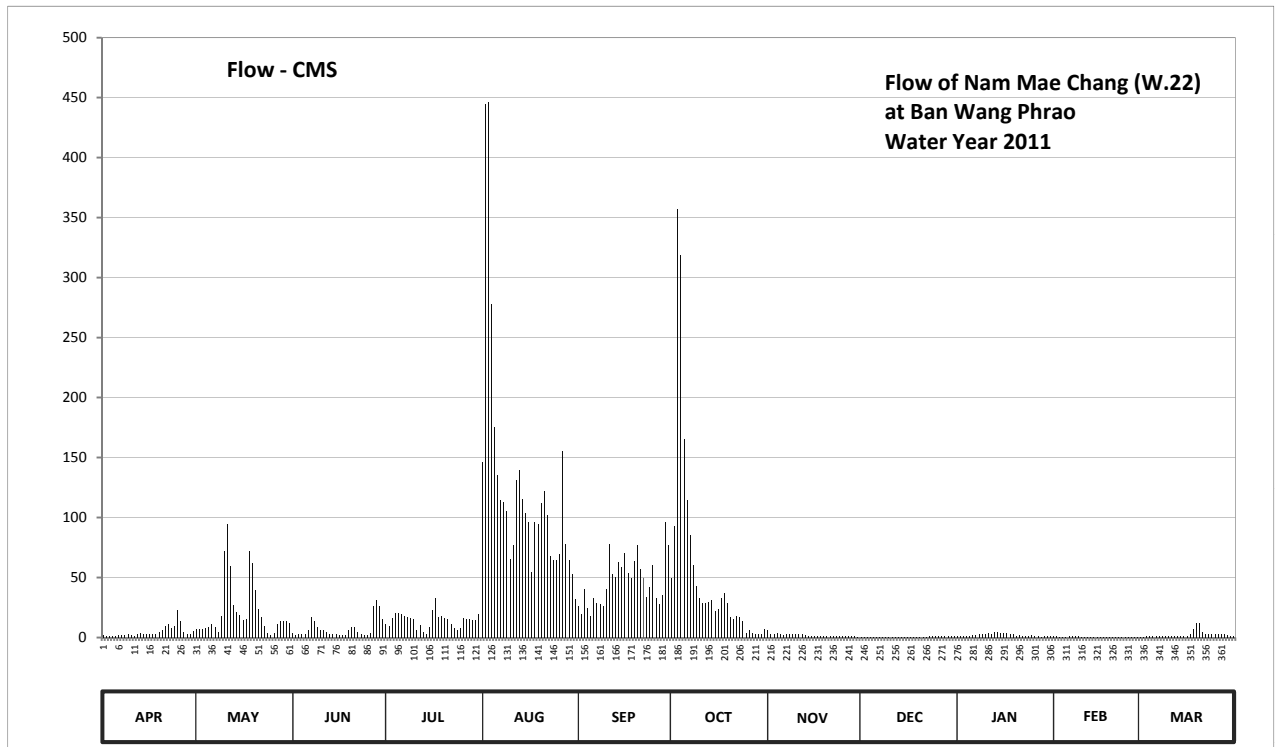
Lat 18 - 08 - 35 N Long 99 - 24 - 48 E

Location : on right bank at the bridge.

	Ban	Wang Phrao	Amphoe	Ko Kha	Changwat	Lampang
Drainage Area	1,549	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+215.161	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the approach of the bridge.				Elevation	+221.137 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings.					
Period of Available Gage Records	2001 to date					
Rating Operation						
Period of Rating	2001 to date					
Rated by Flot	-					
Rated by Current Meter	2001 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 48 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	215.08	215.27	215.21	215.35	217.12	215.63	215.97	215.25	214.93	215.04	214.96	214.90	
2	215.05	215.28	215.10	215.32	219.41	215.51	216.52	215.18	214.92	215.01	214.96	214.93	
3	215.03	215.28	215.13	215.45	219.42	215.84	218.86	215.15	214.90	215.02	214.94	214.95	
4	215.00	215.29	215.15	215.53	218.30	215.61	218.60	215.19	214.85	215.02	214.94	214.97	
5	215.03	215.30	215.17	215.53	217.42	215.49	217.32	215.12	214.82	215.02	214.94	214.97	
6	215.09	215.35	215.26	215.52	217.01	215.74	216.78	215.11	214.86	215.06	214.95	214.98	
7	215.06	215.30	215.46	215.49	216.78	215.67	216.43	215.13	214.91	215.08	214.95	214.98	
8	215.07	215.22	215.41	215.47	216.76	215.66	216.11	215.14	214.91	215.13	214.95	214.98	
9	215.12	215.49	215.30	215.45	216.67	215.63	215.88	215.14	214.91	215.14	214.95	214.99	
10	215.07	216.26	215.26	215.44	216.18	215.84	215.74	215.14	214.91	215.14	214.94	214.99	
11	215.05	216.54	215.25	215.26	216.33	216.34	215.67	215.18	214.91	215.19	214.93	214.99	
12	215.14	216.10	215.23	215.33	216.96	216.01	215.67	215.12	214.91	215.18	214.91	214.98	
13	215.21	215.65	215.18	215.23	217.05	215.98	215.69	215.08	214.91	215.23	214.93	214.98	
14	215.17	215.55	215.15	215.17	216.79	216.14	215.71	215.05	214.91	215.23	214.93	215.01	
15	215.14	215.50	215.14	215.31	216.65	216.09	215.56	215.04	214.91	215.19	214.94	215.04	
16	215.15	215.42	215.08	215.58	216.56	216.24	215.60	215.05	214.92	215.19	214.92	215.05	
17	215.16	215.44	215.08	215.74	216.03	216.02	215.74	215.03	214.93	215.20	214.91	215.13	
18	215.17	216.26	215.08	215.46	216.56	215.97	215.80	215.03	214.93	215.18	214.91	215.27	
19	215.23	216.13	215.25	215.48	216.54	216.16	215.67	215.03	214.81	215.14	214.91	215.37	
20	215.25	215.83	215.31	215.45	216.75	216.33	215.47	215.01	214.73	215.04	214.91	215.37	
21	215.32	215.60	215.30	215.43	216.86	216.07	215.44	215.01	214.73	215.09	214.91	215.22	
22	215.35	215.47	215.22	215.36	216.63	215.97	215.49	215.01	214.76	215.00	214.91	215.17	
23	215.29	215.32	215.18	215.29	216.21	215.75	215.46	215.02	214.97	215.03	214.91	215.14	
24	215.32	215.20	215.09	215.26	216.17	215.87	215.41	215.02	215.04	215.03	214.91	215.14	
25	215.58	215.10	215.08	215.29	216.17	216.11	215.20	215.01	215.04	215.11	214.91	215.16	
26	215.41	215.21	215.20	215.45	216.23	215.73	215.26	215.00	215.01	214.95	214.91	215.14	
27	215.23	215.36	215.63	215.44	217.22	215.66	215.20	214.99	215.01	214.95	214.91	215.15	
28	215.17	215.41	215.71	215									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.96	6.94	3.91	10.98	145.82	25.95	49.75	5.93	0.79	1.48	0.88	0.70	
2	1.60	7.44	2.20	9.46	444.70	19.27	92.90	3.16	0.76	1.12	0.88	0.79	
3	1.36	7.44	2.56	16.12	446.40	40.00	357.00	2.80	0.70	1.24	0.82	0.85	
4	1.00	7.94	2.80	20.32	277.50	24.65	319.00	3.28	0.55	1.24	0.82	0.91	
5	1.36	8.45	3.04	20.32	175.60	18.23	165.50	2.44	0.46	1.24	0.82	0.91	
6	2.08	10.98	6.43	19.80	135.26	33.10	114.80	2.32	0.58	1.72	0.85	0.94	
7	1.72	8.45	16.65	18.23	114.80	28.55	85.47	2.56	0.73	1.96	0.85	0.94	
8	1.84	4.41	14.03	17.18	113.10	27.90	60.25	2.68	0.73	2.56	0.85	0.94	
9	2.44	18.23	8.45	16.12	105.45	25.95	43.00	2.68	0.73	2.68	0.85	0.97	
10	1.84	71.80	6.43	15.60	65.50	40.00	33.10	2.68	0.73	2.68	0.82	0.97	
11	1.60	94.55	5.93	6.43	77.40	78.20	28.55	3.16	0.73	3.28	0.79	0.97	
12	2.68	59.50	4.91	9.97	130.74	52.75	28.55	2.44	0.73	3.16	0.73	0.94	
13	3.91	27.25	3.16	4.91	139.10	50.50	29.85	1.96	0.73	4.91	0.79	0.94	
14	3.04	21.37	2.80	3.04	115.65	62.50	31.15	1.60	0.73	4.91	0.79	1.12	
15	2.68	18.75	2.68	8.96	103.75	58.75	21.90	1.48	0.73	3.28	0.82	1.48	
16	2.80	14.55	1.96	22.95	96.20	70.20	24.00	1.60	0.76	3.28	0.76	1.60	
17	2.92	15.60	1.96	33.10	54.25	53.50	33.10	1.36	0.79	3.40	0.73	2.56	
18	3.04	71.80	1.96	16.65	96.20	49.75	37.00	1.36	0.79	3.16	0.73	6.94	
19	4.91	61.75	5.93	17.70	94.55	64.00	28.55	1.36	0.43	2.68	0.73	11.99	
20	5.93	39.25	8.96	16.12	112.25	77.40	17.18	1.12	0.26	1.48	0.73	11.99	
21	9.46	24.00	8.45	15.07	121.84	57.25	15.60	1.12	0.26	2.08	0.73	4.41	
22	10.98	17.18	4.41	11.48	102.05	49.75	18.23	1.12	0.32	1.00	0.73	3.04	
23	7.94	9.46	3.16	7.94	67.80	33.75	16.65	1.24	0.91	1.36	0.73	2.68	
24	9.46	3.40	2.08	6.43	64.75	42.25	14.03	1.24	1.48	1.36	0.73	2.68	
25	22.95	2.20	1.96	7.94	64.75	60.25	3.40	1.12	1.48	2.32	0.73	2.92	
26	14.03	3.91	3.40	16.12	69.40	32.45	6.43	1.00	1.12	0.85	0.73	2.68	
27	4.91	11.48	25.95	15.60	155.50	27.90	3.40	0.97	1.12	0.85	0.73	2.80	
28	3.04	14.03	31.15	15.60	78.20	35.05	2.92	0.91	1.48	0.82	0.73	3.16	
29	3.04	14.03	25.95	14.55	64.75	96.20	2.92	0.88	1.24	0.85	0.70	2.20	
30	5.42	14.03	15.60	14.55	52.75	77.40	3.04	0.82	1.24	0.85		1.12	
31		11.99		19.27	31.80		7.44		1.48	0.85		1.24	
Total	141.94	702.16	228.86	448.51	3917.81	1413.40							

WATER YEAR : 2011

WANG RIVER BASIN

Wang River at Ban Chiang Rai , Tak (W.23)

Lat 17 - 22 - 01 N Long 99 - 06 - 55 E

Location : on left bank at Amphoe Sam Ngao.

	Ban Chiang Rai	Amphoe Sam Ngao	Changwat Tak
Drainage Area	9,930 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+141.291 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	Elevation	+148.844 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings.		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Flot	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +147.560 m. (MSL.), records are channel flow only.		
General Description	Records very good.Stage-discharge relation defined by 24 discharge measurements made in 2011.		

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	142.27	142.72	143.33	143.83	143.05	145.61	147.57	143.43	142.65	142.28	142.09	142.20	
2	142.37	142.71	143.21	143.68	144.63	145.45	146.73	143.52	142.78	142.28	142.10	142.22	
3	142.48	142.63	143.06	143.37	147.72	145.97	147.89	143.41	142.77	142.28	142.58	142.20	
4	142.53	142.63	143.07	143.46	148.41	145.88	148.74	143.34	142.75	142.32	142.71	142.21	
5	142.44	142.98	143.29	144.25	148.82	145.43	149.03	143.28	142.73	142.33	142.79	142.29	
6	142.41	143.20	143.26	144.11	148.83	144.86	149.37	143.22	142.74	142.33	142.87	142.37	
7	142.40	143.29	143.64	143.53	148.24	144.70	149.13	143.09	142.72	142.32	142.72	142.41	
8	142.44	143.32	143.83	143.22	147.20	144.99	148.39	143.06	142.68	142.39	142.47	142.43	
9	142.43	143.15	143.49	143.03	146.41	145.71	146.63	142.98	142.69	142.44	142.38	142.46	
10	142.46	143.70	143.27	142.92	146.02	145.85	145.72	143.26	142.70	142.39	142.30	142.50	
11	142.48	146.81	143.08	143.09	145.89	146.18	145.02	143.04	142.68	142.37	142.27	142.52	
12	142.50	147.70	142.98	143.11	146.13	147.17	144.73	142.98	142.68	142.37	142.25	142.54	
13	142.50	147.16	143.00	143.26	147.05	147.45	144.48	142.95	142.67	142.37	142.21	142.54	
14	142.42	145.72	142.96	143.01	146.94	147.67	144.15	143.01	142.66	142.37	142.21	142.46	
15	142.31	145.14	142.87	142.82	146.50	147.65	143.82	142.99	142.63	142.37	142.31	142.66	
16	142.26	145.03	142.72	142.85	146.05	147.55	144.06	143.09	142.57	142.35	142.27	142.61	
17	142.24	144.71	142.60	143.57	146.02	147.53	144.27	143.05	142.49	142.37	142.67	142.55	
18	142.21	144.64	142.53	144.23	145.65	147.01	144.97	143.00	142.43	142.38	142.77	142.48	
19	142.19	145.49	142.63	144.20	145.87	146.30	145.49	143.00	142.46	142.36	142.86	142.42	
20	142.19	145.60	142.80	143.97	146.22	145.79	144.77	143.04	142.34	142.34	142.85	142.41	
21	142.24	145.04	142.81	143.68	146.18	145.75	144.31	143.03	142.33	142.35	142.66	142.48	
22	142.44	144.63	142.80	143.33	146.61	145.33	144.01	143.02	142.23	142.33	142.54	142.46	
23	142.66	144.16	142.76	143.27	146.72	145.62	143.86	142.92	142.27	142.32	142.49	142.40	
24	142.79	143.85	142.62	143.13	145.87	145.72	143.60	142.89	142.28	142.31	142.44	142.32	
25	142.76	143.65	142.52	142.95	144.59	145.15	143.63	142.84	142.25	142.28	142.38	142.27	
26	142.85	143.56	142.51	142.94	144.63	145.99	143.53	142.77	142.32	142.20	142.33	142.21	
27	142.98	143.68	142.77	143.20	146.27	146.12	143.42	142.74	142.28	142.14	142.28	142.20	
28	142.73	143.77	143.74	143.43	146.29	146.62	143.34	142.68	142.26	142.34	142.23	142.19	
29	142.58	143.72	144.42	143.32	146.13	147.28	143.26	142.65	142.28	142.14	142.20	142.22	
30	142.68	143.55	144.30	143.04	145.69	147.63	143.24	142.64	142.27	142.12		142.32	
31	143.27		142.94	145.71		143.22		142.32	142.09			142.38	
Mean	142.47	144.23	143.10	143.38	146.33	146.20	145.30	143.03	142.51	142.31	142.46	142.38	
Max	142.98	147.70	144.42	144.25	148.83	147.67	149.37	143.52	142.78	142.44	142.87	142.66	149.37
Min	142.19	142.63	142.51	142.82	143.05	144.70	143.22	142.64	142.23	142.09	142.09	142.19	142.09
Annual Max Momentary Gage Height	149.38		m. (MSL.) ,			at 06.00 Hours , on Oct 23 , 2011							
Zero Gage at Bottom Elevation	141.29		m. (MSL.) ,		River Bed	140.78		m. (MSL)					
Left Bank Elevation	147.55		m. (MSL.) ,										
Right Bank Elevation	148.66		m. (MSL.) ,		Drainage Area	9930		Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.50	31.40	69.50	104.40	51.30	266.10	507.80	76.10	28.20	12.80	7.20	10.00	
2	16.00	31.00	61.70	93.60	170.70	249.30	398.20	82.40	34.10	12.80	7.50	10.70	
3	20.60	27.40	51.90	72.10	528.80	306.60	553.50	74.70	33.70	12.80	25.10	10.00	
4	22.90	27.40	52.60	78.20	655.60	296.20	791.20	70.10	32.70	14.20	31.00	10.40	
5	18.80	46.70	66.80	138.00	834.00	247.10	985.20	66.20	31.80	14.60	34.50	13.10	
6	17.50	61.00	64.90	126.80	841.00	191.40	1342.20	62.30	32.30	14.60	39.50	16.00	
7	17.00	66.80	90.80	83.10	615.20	177.00	1069.20	53.80	31.40	14.20	31.40	17.50	
8	18.80	68.80	104.40	62.30	458.00	203.10	649.70	51.90	29.60	16.70	20.20	18.30	
9	18.30	57.70	80.30	49.90	358.30	277.10	385.80	46.70	30.10	18.80	16.30	19.70	
10	19.70	95.00	65.60	42.80	312.30	292.80	278.20	64.90	30.50	16.70	13.50	21.50	
11	20.60	408.20	53.20	53.80	297.30	330.70	206.00	50.60	29.60	16.00	12.50	22.40	
12	21.50	526.00	46.70	55.20	325.00	454.10	179.70	46.70	29.60	16.00	11.80	23.30	
13	21.50	452.80	48.00	64.90	438.50	491.00	157.20	44.70	29.10	16.00	10.40	23.30	
14	17.90	278.20	45.40	48.60	424.50	521.80	130.00	48.60	28.70	16.00	10.40	19.70	
15	13.90	218.00	39.50	36.30	369.50	519.00	103.60	47.40	27.40	16.00	13.90	28.70	
16	12.10	207.00	31.40	38.30	315.80	505.00	122.80	53.80	24.70	15.30	12.50	26.50	
17	11.40	177.90	26.00	85.90	312.30	502.20	139.60	51.30	21.10	16.00	29.10	23.80	
18	10.40	171.60	22.90	136.40	270.50	433.30	201.30	48.00	18.30	16.30	33.70	20.60	
19	9.80	253.50	27.40	134.00	295.00	345.00	253.50	48.00	19.70	15.60	38.90	17.90	
20	9.80	265.00	35.00	115.60	335.40	285.90	183.30	50.60	14.90	14.90	38.30	17.50	
21	11.40	208.00	35.60	93.60	330.70	281.50	142.80	49.90	14.60	15.30	28.70	20.60	
22	18.80	170.70	35.00	69.50	383.30	237.00	118.80	49.30	11.00	14.60	23.30	19.70	
23	28.70	130.80	33.20	65.60	397.00	267.20	106.80	42.80	12.50	14.20	21.10	17.00	
24	34.50	106.00	26.90	56.50	295.00	278.20	88.00	40.80	12.80	13.90	18.80	14.20	
25	33.20	91.50	22.40	44.70	167.10	219.00	90.10	37.60	11.80	12.80	16.30	12.50	
26	38.30	85.20	21.90	44.10	170.70	308.90	83.10	33.70	14.20	10.00	14.60	10.40	
27	46.70	93.60	33.70	61.00	341.40	323.80	75.40	32.30	12.80	8.50	12.80	10.00	
28	31.80	99.90	97.80	76.10	343.80	384.50	70.10	29.60	12.10	14.90	11.00	9.80	
29	25.10	96.40	151.80	68.80	325.00	468.40	64.90	28.20	12.80	8.50	10.00	10.70	

WATER YEAR : 2011**WANG RIVER BASIN****Wang River at Ban Tha Phai , Tak (W.24)**

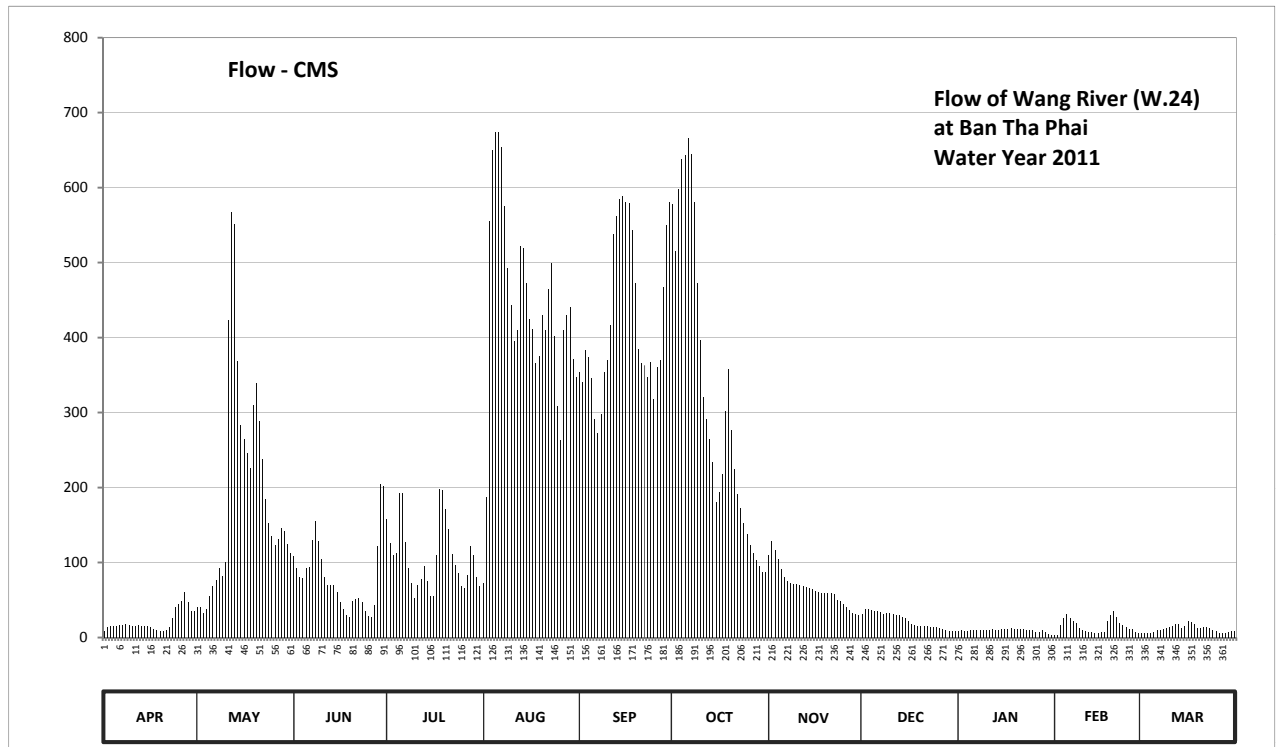
Lat 17 - 19 - 11 N Long 99 - 04 - 51 E

Location : on left bank at Ban Tha Phai

	Ban	Tha Phai	Amphoe	Sam Ngao	Changwat	Tak
Drainage Area	-	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+135.430 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+146.049 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings.					
Period of Available Gage Records	2010 to date					
Rating Operation						
Period of Rating	2010 to date					
Rated by Flot	-					
Rated by Current Meter	2010 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +143.960 m. (MSL.), records are channel flow only.					
General Description	Records good.Stage-discharge relation defined by 24 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.12	137.87	138.91	139.56	138.40	141.62	143.59	138.92	137.69	137.12	136.88	136.98	
2	137.28	137.87	138.68	139.15	139.92	141.51	143.06	139.19	137.81	137.13	136.88	136.98	
3	137.33	137.73	138.50	138.92	143.40	141.89	143.76	139.03	137.82	137.12	137.38	136.98	
4	137.34	137.81	138.49	138.97	144.19	141.81	144.09	138.86	137.80	137.12	137.60	136.98	
5	137.33	138.13	138.69	139.99	144.39	141.55	144.14	138.66	137.77	137.13	137.70	137.06	
6	137.38	138.34	138.70	140.00	144.39	141.03	144.32	138.50	137.76	137.14	137.60	137.15	
7	137.38	138.45	139.22	139.17	144.23	140.85	144.15	138.43	137.75	137.15	137.52	137.18	
8	137.41	138.68	139.53	138.68	143.57	141.10	143.62	138.39	137.70	137.16	137.44	137.22	
9	137.38	138.53	139.19	138.40	142.86	141.62	142.68	138.38	137.71	137.16	137.27	137.25	
10	137.35	138.80	138.85	138.07	142.43	141.77	142.01	138.38	137.71	137.17	137.15	137.30	
11	137.36	142.25	138.51	138.35	142.00	142.20	141.32	138.36	137.70	137.18	137.11	137.35	
12	137.39	143.50	138.36	138.47	142.13	143.25	141.03	138.34	137.68	137.19	137.07	137.42	
13	137.36	143.37	138.35	138.71	143.11	143.46	140.77	138.32	137.66	137.18	137.04	137.41	
14	137.33	141.76	138.35	138.43	143.09	143.65	140.45	138.29	137.63	137.17	137.02	137.25	
15	137.32	140.95	138.21	138.13	142.68	143.68	139.85	138.26	137.59	137.21	137.01	137.36	
16	137.28	140.77	137.98	138.13	142.26	143.61	140.02	138.23	137.51	137.22	137.05	137.52	
17	137.21	140.57	137.83	138.93	142.15	143.60	140.28	138.21	137.42	137.23	137.03	137.47	
18	137.15	140.36	137.68	140.06	141.73	143.30	141.14	138.18	137.38	137.24	137.50	137.42	
19	137.11	141.22	137.62	140.04	141.82	142.68	141.66	138.18	137.36	137.23	137.68	137.26	
20	137.11	141.49	138.02	139.72	142.31	141.90	140.88	138.18	137.34	137.23	137.77	137.27	
21	137.15	141.01	138.06	139.40	142.13	141.73	140.35	138.18	137.33	137.22	137.62	137.28	
22	137.31	140.49	138.07	138.94	142.61	141.71	139.98	138.16	137.32	137.20	137.45	137.29	
23	137.60	139.90	137.98	138.73	142.92	141.57	139.75	138.04	137.31	137.18	137.37	137.24	
24	137.87	139.49	137.78	138.58	142.06	141.75	139.49	138.02	137.30	137.18	137.30	137.15	
25	137.93	139.28	137.65	138.34	141.20	141.30	139.31	137.95	137.28	137.13	137.23	137.09	
26	138.00	139.12	137.62	138.30	140.75	141.69	139.11	137.86	137.25	137.06	137.19	137.02	
27	138.22	139.23	137.92	138.54	142.14	141.77	138.96	137.80	137.19	137.03	137.07	136.98	
28	137.99	139.41	139.10	139.09	142.31	142.64	138.84	137.73	137.14	137.16	137.01	136.97	
29	137.77	139.37	140.14	138.93	142.41	143.36	138.72	137.70	137.12	137.07	136.98	137.05	
30	137.78	139.14	140.11	138.50	141.78	143.62	138.61	137.68	137.08	136.92		137.11	
31		138.97		138.33	141.57		138.60		137.12	136.88		137.12	
Mean	137.45	139.80	138.47	138.89	142.35	142.24	141.11	138.28	137.49	137.15	137.27	137.20	
Max	138.22	143.50	140.14	140.06	144.39	143.68	144.32	139.19	137.82	137.24	137.77	137.52	144.39
Min	137.11	137.73	137.62	138.07	138.40	140.85	138.60	137.68	137.08	136.88	136.88	136.97	136.88
Annual Max Momentary Gage Height	144.40		m. (MSL.) ,			at 06.00 Hours , on Oct 23 , 2011							
Zero Gage at Bottom Elevation	135.43		m. (MSL.) ,		River Bed	135.49	m. (MSL)						
Left Bank Elevation	143.95		m. (MSL.) ,										
Right Bank Elevation	144.18		m. (MSL.) ,		Drainage Area		Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.00	40.85	108.70	157.80	73.00	353.20	577.80	109.40	30.95	9.00	3.60	5.60	
2	13.40	40.85	92.60	125.50	186.60	341.10	515.90	128.30	37.55	9.25	3.60	5.60	
3	14.90	33.15	80.00	109.40	555.00	382.90	598.20	117.10	38.10	9.00	16.40	5.60	
4	15.20	37.55	79.30	112.90	649.80	374.10	637.80	105.20	37.00	9.00	26.00	5.60	
5	14.90	55.80	93.30	192.20	673.80	345.50	643.80	91.20	35.35	9.25	31.50	7.50	
6	16.40	69.10	94.00	193.00	673.80	291.00	665.40	80.00	34.80	9.50	26.00	9.75	
7	16.40	76.50	130.60	126.90	654.60	273.00	645.00	75.10	34.25	9.75	22.40	10.50	
8	17.45	92.60	155.40	92.60	575.40	298.00	581.40	72.35	31.50	10.00	18.80	11.60	
9	16.40	82.10	128.30	73.00	492.90	353.20	472.20	71.70	32.05	10.00	13.10	12.50	
10	15.50	101.00	104.50	52.20	443.45	369.70	396.10	71.70	32.05	10.25	9.75	14.00	
11	15.80	422.75	80.70	69.75	395.00	417.00	320.60	70.40	31.50	10.50	8.75	15.50	
12	16.70	567.00	70.40	77.90	409.30	537.75	291.00	69.10	30.40	10.75	7.75	17.90	
13	15.80	551.55	69.75	94.70	521.65	562.20	265.00	67.80	29.30	10.50	7.00	17.45	
14	14.90	368.60	69.75	75.10	519.35	585.00	233.75	65.85	27.65	10.25	6.50	12.50	
15	14.60	283.00	60.65	55.80	472.20	588.60	181.00	63.90	25.55	11.30	6.25	15.80	
16	13.40	265.00	46.90	55.80	423.90	580.20	194.70	61.95	21.95	11.60	7.25	22.40	
17	11.30	245.15	38.65	110.10	411.50	579.00	217.60	60.65	17.90	11.90	6.75	20.15	
18	9.75	225.20	30.40	198.10	365.30	543.50	302.00	58.80	16.40	12.20	21.50	17.90	
19	8.75	310.10	27.10	196.40	375.20	472.20	357.60	58.80	15.80	11.90	30.40	12.80	
20	8.75	338.90	49.20	170.60	429.65	384.00	276.00	58.80	15.20	11.90	35.35	13.10	
21	9.75	289.00	51.60	145.00	409.30	365.30	224.25	58.80	14.90	11.60	27.10	13.40	
22	14.30	237.55	52.20	110.80	464.15	363.10	191.40	57.60	14.60	11.00	19.25	13.70	
23	26.00	185.00	46.90	96.10	499.80	347.70	173.00	50.40	14.30	10.50	16.10	12.20	
24	40.85	152.20	35.90	85.60	401.60	367.50	152.20	49.20	14.00	10.50	14.00	9.75	
25	44.15	135.40	28.75	69.10	308.00	318.50	137.80	45.25	13.40	9.25	11.90	8.25	
26	48.00	123.40	27.10	66.50	263.00	360.90	122.70	40.30	12.50	7.50	10.75	6.50	
27	61.30	131.40	43.60	82.80	410.40	369.70	112.20	37.00	10.75	6.75	7.75	5.60	
28	47.45	145.80	122.00	121.30	429.65	467.60	103.80	33.15	9.50	10.00	6.25	5.40	
29	35.35	142.60	204.90	110.10	441.15	550.40	95.40	31.50	9.00	7.75	5.60	7.25	
30	35												

WATER YEAR : 2011

WANG RIVER BASIN

Wang River at Ban Huai Kod , Lampang (W.25)

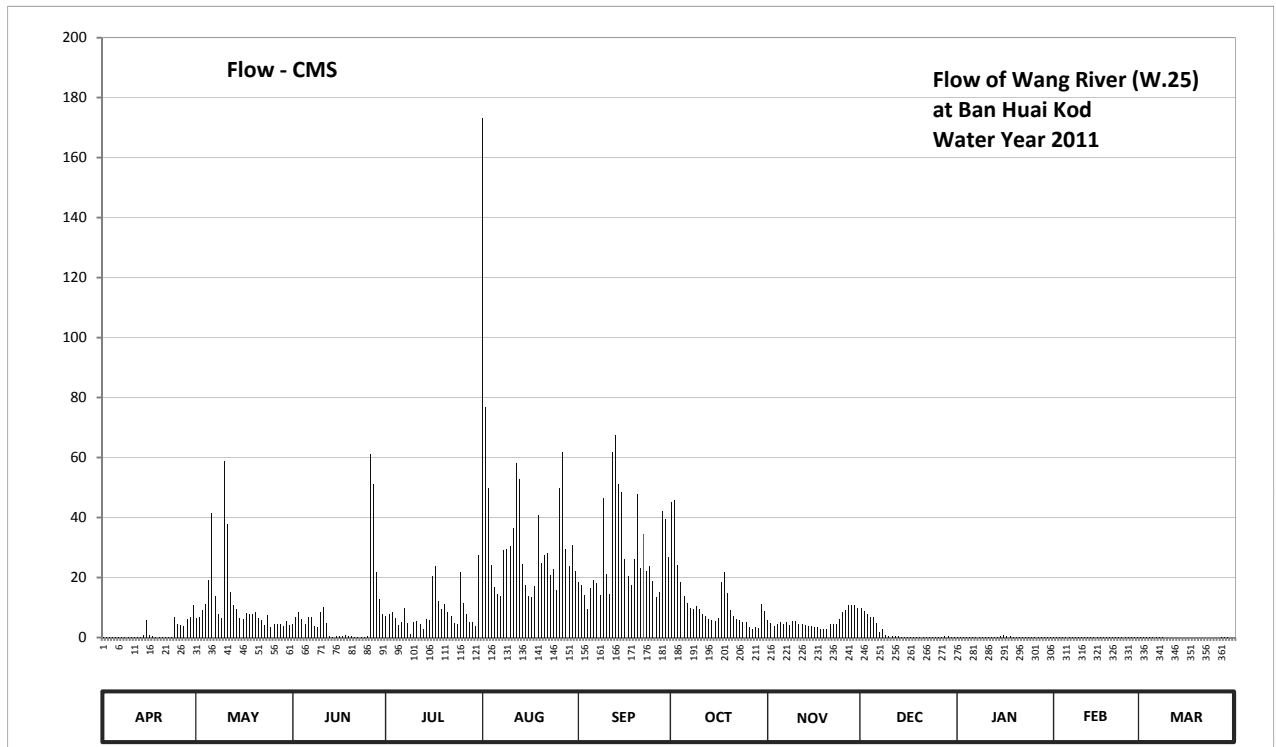
Lat 19 - 02 - 09 N Long 99 - 37 - 10 E

Location : on left bank at Ban Huai Kod.

	Ban	Huai Kod	Amphoe	Wang Nua	Changwat	Lampang
Drainage Area	762	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+381.903	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the approach of the bridge.				Elevation	+387.093 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings.					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 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 2010.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	381.64	382.19	381.98	382.23	384.34	382.60	383.14	382.17	381.89	381.69	381.50	381.48	
2	381.64	382.22	381.95	382.25	383.55	382.57	383.15	382.11	381.88	381.69	381.50	381.48	
3	381.64	382.30	381.93	382.28	383.21	382.47	382.74	382.06	381.87	381.67	381.54	381.48	
4	381.63	382.37	381.96	382.20	382.74	382.32	382.60	382.10	381.86	381.62	381.65	381.48	
5	381.64	382.62	382.09	382.08	382.55	382.54	382.46	382.13	381.86	381.61	381.61	381.48	
6	381.65	383.08	382.21	381.97	382.48	382.62	382.38	382.10	381.84	381.65	381.52	381.49	
7	381.64	382.46	382.21	381.89	382.46	382.59	382.33	382.12	381.81	381.62	381.50	381.48	
8	381.65	382.25	382.06	381.84	382.85	382.47	382.31	382.08	381.82	381.62	381.50	381.48	
9	381.64	382.20	381.99	381.80	382.86	383.16	382.35	382.14	381.79	381.67	381.50	381.47	
10	381.64	383.33	381.93	382.13	382.88	382.67	382.31	382.14	381.75	381.64	381.50	381.46	
11	381.64	383.02	381.91	382.14	383.00	382.48	382.25	382.10	381.73	381.61	381.50	381.46	
12	381.64	382.50	381.84	382.10	383.32	383.37	382.23	382.09	381.75	381.61	381.50	381.46	
13	381.65	382.36	381.73	382.01	383.25	383.44	382.18	382.07	381.73	381.65	381.49	381.46	
14	381.78	382.31	381.69	381.96	382.75	383.23	382.17	382.06	381.68	381.68	381.49	381.47	
15	381.85	382.20	381.74	382.17	382.57	383.19	382.15	382.05	381.67	381.72	381.50	381.47	
16	381.77	382.18	381.74	382.65	382.46	382.79	382.20	382.04	381.69	381.76	381.50	381.47	
17	381.73	382.27	381.74	382.73	382.45	382.65	382.60	382.03	381.68	381.73	381.48	381.46	
18	381.66	382.25	381.79	382.40	382.56	382.57	382.68	382.00	381.65	381.71	381.48	381.46	
19	381.65	382.25	381.74	382.32	383.07	382.79	382.49	382.00	381.69	381.65	381.48	381.46	
20	381.65	382.28	381.74	382.37	382.76	383.18	382.30	382.00	381.68	381.60	381.48	381.46	
21	381.66	382.19	381.69	382.28	382.82	382.72	382.23	381.98	381.69	381.60	381.49	381.47	
22	381.67	382.16	381.68	382.23	382.83	382.96	382.18	381.98	381.68	381.58	381.48	381.47	
23	381.70	382.07	381.65	382.11	382.66	382.69	382.17	381.98	381.67	381.58	381.48	381.46	
24	381.95	381.94	381.67	382.09	382.71	382.73	382.13	381.96	381.66	381.57	381.49	381.46	
25	382.10	382.04	381.72	382.68	382.52	382.61	382.12	381.93	381.66	381.57	381.49	381.46	
26	382.07	382.09	383.36	382.38	383.21	382.45	382.04	381.92	381.67	381.56	381.50	381.46	
27	382.06	382.10	383.23	382.25	383.37	382.50	382.01	381.90	381.70	381.55	381.52	381.50	
28	381.96	382.10	382.68	382									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	6.31	4.40	7.25	173.30	18.50	45.25	5.95	9.82	0.27	0.02	0.02	
2	0.14	7.00	6.80	7.75	76.75	17.53	45.87	4.83	8.84	0.27	0.02	0.02	
3	0.14	9.00	8.40	8.50	49.75	14.28	24.10	3.91	7.86	0.22	0.03	0.02	
4	0.12	11.10	6.00	6.50	24.10	9.60	18.50	4.65	6.88	0.09	0.17	0.02	
5	0.14	19.30	4.46	4.28	16.87	16.55	13.95	5.20	6.88	0.07	0.07	0.02	
6	0.17	41.50	6.75	5.20	14.60	19.30	11.40	4.65	4.92	0.17	0.02	0.02	
7	0.14	13.95	6.75	9.82	13.95	18.17	9.90	5.02	1.98	0.09	0.02	0.02	
8	0.17	7.75	3.91	4.92	29.00	14.28	9.30	4.28	2.96	0.09	0.02	0.02	
9	0.14	6.50	3.60	1.00	29.50	46.50	10.50	5.39	0.93	0.22	0.02	0.01	
10	0.14	58.75	8.40	5.20	30.50	21.30	9.30	5.39	0.65	0.14	0.02	0.01	
11	0.14	37.75	10.00	5.39	36.50	14.60	7.75	4.65	0.51	0.07	0.02	0.01	
12	0.14	15.25	4.92	4.65	58.00	61.75	7.25	4.46	0.65	0.07	0.02	0.01	
13	0.17	10.80	0.51	2.99	52.75	67.40	6.13	4.10	0.51	0.17	0.02	0.01	
14	0.86	9.30	0.27	6.00	24.50	51.25	5.95	3.91	0.25	0.25	0.02	0.01	
15	5.90	6.50	0.58	5.95	17.53	48.37	5.57	3.72	0.22	0.44	0.02	0.01	
16	0.79	6.13	0.58	20.50	13.95	26.10	6.50	3.54	0.27	0.72	0.02	0.01	
17	0.51	8.25	0.58	23.70	13.63	20.50	18.50	3.35	0.25	0.51	0.02	0.01	
18	0.20	7.75	0.93	12.00	17.20	17.53	21.70	2.80	0.17	0.37	0.02	0.01	
19	0.17	7.75	0.58	9.60	40.88	26.10	14.92	2.80	0.27	0.17	0.02	0.01	
20	0.17	8.50	0.58	11.10	24.90	47.75	9.00	2.80	0.25	0.04	0.02	0.01	
21	0.20	6.31	0.27	8.50	27.50	23.30	7.25	4.40	0.27	0.04	0.02	0.01	
22	0.22	5.76	0.25	7.25	28.00	34.50	6.13	4.40	0.25	0.04	0.02	0.01	
23	0.30	4.10	0.17	4.83	20.90	22.10	5.95	4.40	0.22	0.04	0.02	0.01	
24	6.80	7.60	0.22	4.46	22.90	23.70	5.20	6.00	0.20	0.03	0.02	0.01	
25	4.65	3.54	0.44	21.70	15.90	18.90	5.02	8.40	0.20	0.03	0.02	0.01	
26	4.10	4.46	61.00	11.40	49.75	13.63	3.54	9.20	0.22	0.03	0.02	0.01	
27	3.91	4.65	51.25	7.75	61.75	15.25	2.99	10.80	0.30	0.03	0.02	0.02	
28	6.00	4.65	21.70	5.20	29.50	42.12	3.54	10.80	0.51	0.02	0.02	0.02	
29	6.80	3.91	12.97	5.20	23.70	39.62	3.17	10.80	0.51	0.02	0.02	0.02	
30	10.80	5.39	7.75	3.91	31.00	27.00	11.10	9.82	0.27	0.02		0.01	
31		4.10		27.50	22.10		8.75		0.27	0.02		0.01	
Total	54.27	353.61	235.02	270.00	1091.16	837.48	363.98	164.42	58.29	4.76	0.79	0.42	343

WATER YEAR : 2011**WANG RIVER BASIN****Nam Mae Ta at Ban Huai Mae Ta , Lampang (W.26)**

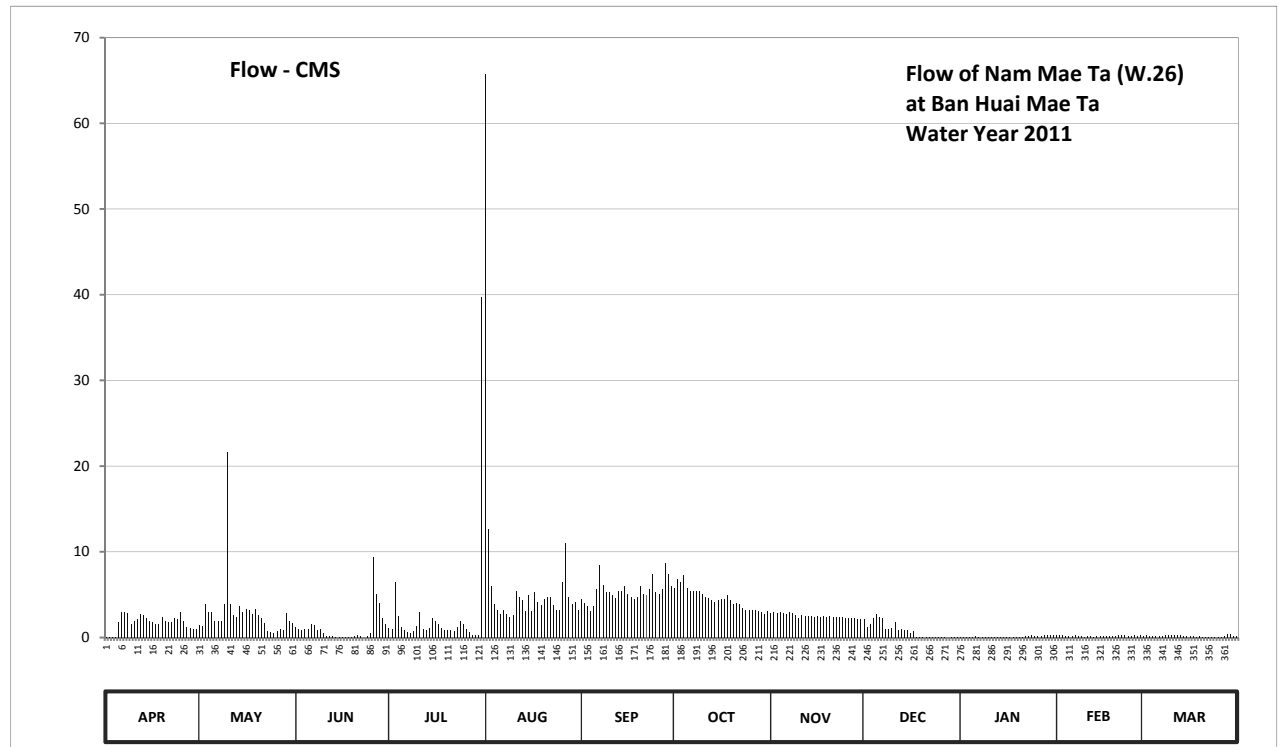
Lat 18 - 36 - 26 N Long 99 - 37 - 44 E

Location : on left bank at Ban Huai Mae Ta.

	Ban	Huai Mae Ta	Amphoe	Chae Hom	Changwat	Lampang
Drainage Area	150	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+286.470 m. (MSL.)					
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the approach of the bridge.				Elevation	+290.173 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings.					
Period of Available Gage Records	2011 to date					
Rating Operation						
Period of Rating	2011 to date					
Rated by Flot	-					
Rated by Current Meter	2011 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 46 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	286.51	286.50	286.46	286.43	288.22	286.79	286.87	286.67	286.60	286.47	286.72	286.71	
2	286.50	286.49	286.41	286.39	287.18	286.76	286.93	286.68	286.45	286.62	286.73	286.72	
3	286.52	286.75	286.34	286.91	286.88	286.73	286.91	286.67	286.53	286.62	286.72	286.69	
4	286.49	286.68	286.38	286.64	286.75	286.69	286.95	286.68	286.61	286.56	286.70	286.70	
5	286.55	286.68	286.41	286.45	286.70	286.73	286.87	286.67	286.66	286.55	286.68	286.68	
6	286.68	286.57	286.53	286.34	286.66	286.86	286.85	286.66	286.63	286.65	286.69	286.71	
7	286.68	286.57	286.51	286.27	286.70	287.01	286.85	286.68	286.61	286.61	286.73	286.67	
8	286.67	286.57	286.37	286.25	286.66	286.89	286.85	286.67	286.41	286.63	286.71	286.72	
9	286.52	286.75	286.39	286.33	286.63	286.84	286.85	286.65	286.39	286.62	286.68	286.76	
10	286.57	287.44	286.25	286.49	286.65	286.84	286.83	286.62	286.44	286.58	286.63	286.76	
11	286.60	286.75	286.10	286.68	286.85	286.82	286.81	286.65	286.55	286.61	286.64	286.76	
12	286.66	286.65	286.06	286.41	286.81	286.80	286.80	286.64	286.35	286.60	286.64	286.76	
13	286.65	286.63	286.06	286.34	286.78	286.85	286.78	286.64	286.38	286.55	286.63	286.76	
14	286.61	286.73	286.05	286.43	286.69	286.85	286.77	286.64	286.35	286.61	286.64	286.70	
15	286.57	286.68	286.04	286.62	286.82	286.88	286.78	286.63	286.35	286.61	286.65	286.67	
16	286.56	286.71	286.03	286.57	286.69	286.83	286.79	286.64	286.23	286.55	286.65	286.68	
17	286.53	286.70	286.04	286.52	286.84	286.81	286.79	286.63	286.30	286.55	286.64	286.65	
18	286.53	286.66	286.03	286.44	286.77	286.79	286.82	286.64	286.48	286.56	286.65	286.63	
19	286.63	286.71	286.05	286.37	286.74	286.81	286.78	286.63	286.60	286.53	286.66	286.64	
20	286.58	286.65	286.10	286.36	286.79	286.88	286.75	286.64	286.59	286.46	286.69	286.62	
21	286.55	286.62	286.13	286.34	286.81	286.83	286.76	286.63	286.58	286.51	286.74	286.59	
22	286.55	286.54	286.06	286.30	286.81	286.82	286.75	286.63	286.57	286.65	286.74	286.58	
23	286.62	286.31	286.00	286.46	286.74	286.86	286.72	286.63	286.57	286.69	286.76	286.57	
24	286.60	286.27	286.09	286.57	286.70	286.96	286.70	286.63	286.52	286.74	286.71	286.56	
25	286.68	286.24	286.23	286.52	286.70	286.84	286.70	286.61	286.61	286.71	286.70	286.57	
26	286.57	286.32	287.05	286.38	286.91	286.83	286.70	286.62	286.63	286.71	286.72	286.58	
27	286.46	286.38	286.83	286.27	287.12	286.86	286.70	286.61	286.61	286.71	286.70	286.65	
28	286.42	286.37	286.76	286.13	286.81	287.02	286.69	286.61	286.40	286.74	286.72	286.78	
29	286.41	286.67	286.62	286.16	286.75	286.96	286.68	286.60	286.57	286.74	286.66	286.78	
30	286.39	286.58	286.53	286.13	286.77	286.88	286.66	286.60	286.57	286.73		286.68	
31		286.54		287.83	286.70		286.69		286.50	286.74		286.65	
Mean	286.56	286.60	286.30	286.46	286.83	286.84	286.79	286.64	286.50	286.62	286.69	286.68	
Max	286.68	287.44	287.05	287.83	288.22	287.02	286.95	286.68	286.66	286.74	286.76	286.78	288.22
Min	286.39	286.24	286.00	286.13	286.63	286.69	286.66	286.60	286.23	286.46	286.63	286.56	286.00
Annual Max Momentary Gage Height	289.49		m. (MSL.) ,			at 22.00 Hours , on Jul 31 , 2011							
Zero Gage at Bottom Elevation	286.47		m. (MSL.) ,			River Bed	284.68	m. (MSL)					
Left Bank Elevation	291.23		m. (MSL.) ,										
Right Bank Elevation	291.26		m. (MSL.) ,			Drainage Area	150	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	1.40	1.24	1.12	65.80	4.46	5.79	2.87	2.10	0.01	0.24	0.22	
2	0.02	1.36	1.04	0.97	12.66	4.04	6.87	2.98	1.20	0.09	0.26	0.24	
3	0.03	3.90	0.82	6.49	5.96	3.62	6.49	2.87	1.61	0.09	0.24	0.19	
4	0.02	2.98	0.94	2.54	3.90	3.09	7.25	2.98	2.21	0.04	0.20	0.20	
5	1.75	2.98	1.04	1.20	3.20	3.62	5.79	2.87	2.76	0.04	0.17	0.17	
6	2.98	1.89	1.61	0.82	2.76	5.62	5.45	2.76	2.43	0.13	0.19	0.22	
7	2.98	1.89	1.47	0.61	3.20	8.43	5.45	2.98	2.21	0.07	0.26	0.16	
8	2.87	1.89	0.91	0.55	2.76	6.13	5.45	2.87	1.04	0.10	0.22	0.24	
9	1.54	3.90	0.97	0.79	2.43	5.28	5.45	2.65	0.97	0.09	0.17	0.32	
10	1.89	21.60	0.55	1.36	2.65	5.28	5.11	2.32	1.16	0.05	0.10	0.32	
11	2.10	3.90	0.20	2.98	5.45	4.94	4.77	2.65	1.75	0.07	0.12	0.32	
12	2.76	2.65	0.12	1.04	4.77	4.60	4.60	0.85	0.85	0.06	0.12	0.32	
13	2.65	2.43	0.12	0.82	4.32	5.45	4.32	2.54	0.94	0.04	0.10	0.32	
14	2.21	3.62	0.10	1.12	3.09	5.45	4.18	2.54	0.85	0.07	0.12	0.20	
15	1.89	2.98	0.08	2.32	4.94	5.96	4.32	2.43	0.85	0.07	0.13	0.16	
16	1.82	3.34	0.06	1.89	3.09	5.11	4.46	2.54	0.49	0.04	0.13	0.17	
17	1.61	3.20	0.08	1.54	5.28	4.77	4.46	2.43	0.70	0.04	0.12	0.13	
18	1.61	2.76	0.06	1.16	4.18	4.46	4.94	2.54	0.02	0.04	0.13	0.10	
19	2.43	3.34	0.10	0.91	3.76	4.77	4.32	2.43	0.06	0.03	0.14	0.12	
20	1.96	2.65	0.20	0.88	4.46	5.96	3.90	2.54	0.06	0.01	0.19	0.09	
21	1.75	2.32	0.26	0.82	4.77	5.11	4.04	2.43	0.05	0.02	0.28	0.06	
22	1.75	1.68	0.12	0.70	4.77	4.94	3.90	2.43	0.05	0.13	0.28	0.05	
23	2.32	0.73	0.00	1.24	3.76	5.62	3.48	2.43	0.05	0.19	0.32	0.05	
24	2.10	0.61	0.18	1.89	3.20	7.44	3.20	2.43	0.03	0.28	0.22	0.04	
25	2.98	0.52	0.49	1.54	3.20	5.28	3.20	2.21	0.07	0.22	0.20	0.05	
26	1.89	0.76	9.35	0.94	6.49	5.11	3.20	2.32	0.10	0.22	0.24	0.05	
27	1.24	0.94	5.11	0.61	11.04	5.62	3.20	2.21	0.07	0.22	0.20	0.13	
28	1.08	0.91	4.04	0.26	4.77	8.66	3.09	2.21	0.00	0.28	0.24	0.36	
29	1.04	2.87	2.32	0.32	3.90	7.44	2.98	2.10	0.05	0.28	0.14	0.36	
30	0.97	1.96	1.61	0.26	4.18	5.96	2.76	2.10	0.05	0.26		0.17	
31		1.68		39.72	3.20		3.09		0.02	0.28		0.13	
Total	52.26	89.64	35.19	79.41	201.94	162.22	139.51	76.20	24.80	3.56	5.47	5.66	875.86 CMSDAY
Mean	1.74	2.89	1.17	2.56	6.51	5.41	4.50	2.54	0.80				

WATER YEAR : 2011

YOM RIVER BASIN

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

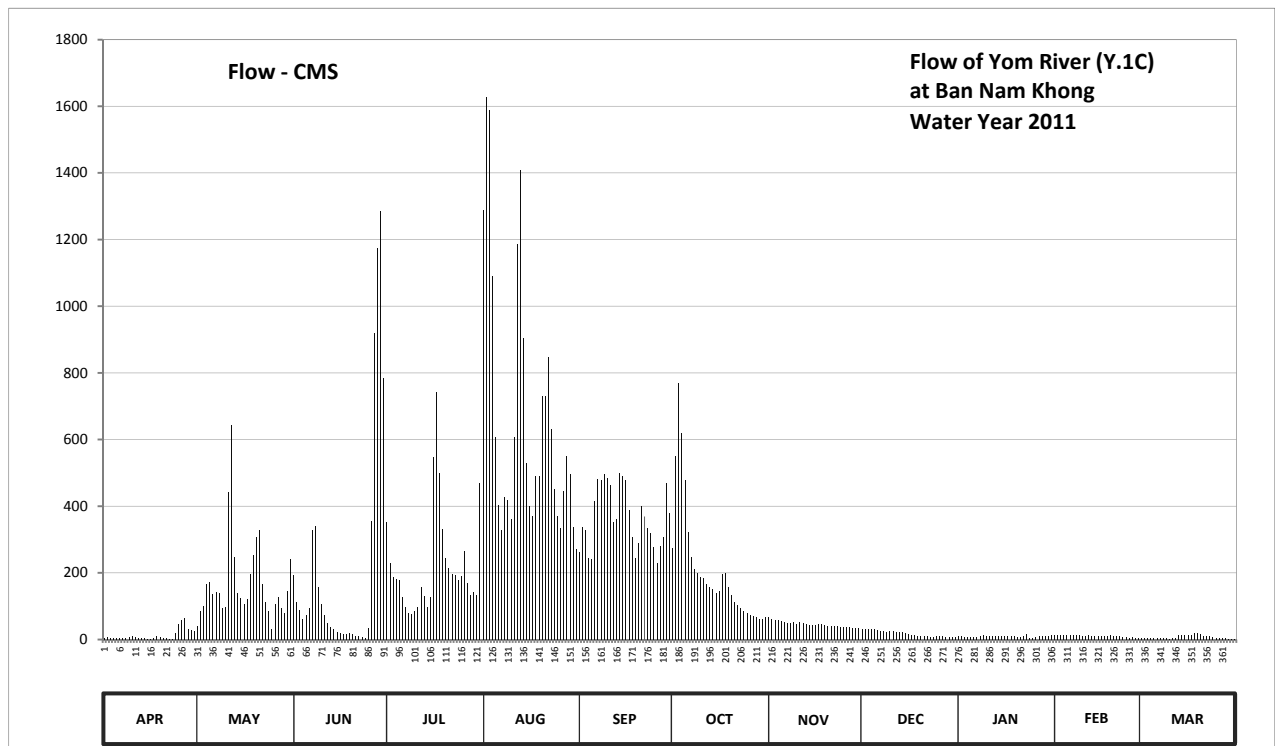
Lat 18 - 07 - 57 N Long 100 - 07 - 42 E

Location : on right bank about 5 meters downstream from Phathana Phak Nua 8 Bridge.

	Ban	Nam Khong	Amphoe	Mueang	Changwat	Phrae
Drainage Area	7,749	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+143.500	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	In front of the station office				Elevation	+153.972 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1979 to date					
Rating Operation						
Period of Rating	1979 to date					
Rated by Flot	-					
Rated by Current Meter	1979 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	Overbank flow starts at elevation +153.860 m.(MSL.), records are channel flow only.					
General Description	Records good. Mae yom weir situated about 76 kilometers above gage site.					
	Stage-discharge relation defined by 76 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.27	144.78	146.06	147.33	152.84	146.61	146.71	144.79	144.37	144.09	144.43	144.24	
2	144.30	145.01	145.27	146.36	153.78	147.22	148.77	144.71	144.37	144.08	144.43	144.23	
3	144.27	145.14	145.02	145.99	153.69	147.15	150.23	144.70	144.37	144.05	144.44	144.23	
4	144.26	145.80	144.89	145.95	152.09	146.47	149.24	144.68	144.37	144.04	144.44	144.23	
5	144.25	145.87	144.95	145.91	149.15	146.45	148.26	144.65	144.35	144.05	144.44	144.26	
6	144.25	145.51	145.08	145.41	147.73	147.81	147.09	144.64	144.33	144.05	144.44	144.26	
7	144.28	145.56	147.16	145.12	147.15	148.27	146.50	144.61	144.30	144.05	144.45	144.25	
8	144.26	145.53	147.24	144.94	147.90	148.25	146.20	144.60	144.28	144.08	144.44	144.25	
9	144.35	145.10	145.74	144.89	147.84	148.39	146.09	144.62	144.26	144.11	144.43	144.25	
10	144.41	145.11	145.22	145.00	147.41	148.31	146.00	144.57	144.28	144.09	144.42	144.20	
11	144.31	148.01	144.95	145.12	149.16	148.16	145.96	144.64	144.28	144.07	144.42	144.25	
12	144.26	149.40	144.83	145.72	152.48	147.33	145.80	144.59	144.26	144.08	144.43	144.27	
13	144.24	146.49	144.76	145.46	153.21	147.42	145.71	144.54	144.25	144.08	144.42	144.45	
14	144.23	145.54	144.69	145.12	151.08	148.41	145.67	144.52	144.25	144.09	144.41	144.46	
15	144.22	145.40	144.60	145.41	148.62	148.35	145.54	144.51	144.23	144.10	144.38	144.45	
16	144.22	145.21	144.54	148.75	147.71	148.26	145.61	144.52	144.17	144.10	144.40	144.45	
17	144.28	145.35	144.52	150.05	147.49	147.61	146.07	144.56	144.12	144.07	144.41	144.44	
18	144.38	146.08	144.50	148.41	148.35	146.99	146.09	144.56	144.11	144.08	144.39	144.54	
19	144.35	146.56	144.55	147.17	148.35	146.47	145.74	144.51	144.10	144.07	144.47	144.56	
20	144.28	146.99	144.49	146.47	149.99	146.83	145.48	144.48	144.08	144.05	144.40	144.53	
21	144.25	147.14	144.40	146.23	149.99	147.70	145.28	144.47	144.07	144.05	144.40	144.42	
22	144.19	145.80	144.38	146.07	150.73	147.47	145.17	144.47	144.07	144.07	144.39	144.39	
23	144.16	145.28	144.33	146.04	149.33	147.19	145.09	144.48	144.05	144.19	144.36	144.37	
24	144.56	145.01	144.28	145.92	148.07	147.08	144.99	144.45	144.05	144.27	144.31	144.30	
25	144.82	144.69	144.40	146.02	147.49	146.75	144.92	144.44	144.06	144.29	144.27	144.29	
26	144.87	145.21	147.37	146.64	147.19	146.34	144.85	144.44	144.07	144.36	144.31		



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.80	40.00	194.90	351.25	1288.00	261.25	273.75	67.10	31.60	10.85	11.80	3.60	
2	6.00	86.95	112.00	230.20	1626.50	337.50	550.65	59.90	31.60	10.20	11.80	3.20	
3	4.80	99.30	87.90	186.85	1588.25	328.75	768.65	59.00	31.60	8.25	12.40	3.20	
4	4.40	165.00	61.80	182.25	1090.25	243.75	619.00	57.20	31.60	7.60	12.40	3.20	
5	4.00	173.05	75.00	177.65	605.75	241.25	478.40	54.50	30.00	8.25	12.40	4.40	
6	4.00	136.00	93.60	126.00	404.20	415.40	321.25	53.60	28.40	8.25	12.40	4.40	
7	5.20	141.00	330.00	97.40	328.75	479.80	247.50	50.90	26.00	8.25	13.00	4.00	
8	4.40	138.00	340.00	80.60	428.00	477.00	211.00	50.00	24.40	10.20	12.40	4.00	
9	8.00	95.50	159.00	76.10	419.60	496.60	198.35	51.80	22.80	12.15	11.80	4.00	
10	10.60	96.45	107.00	86.00	361.30	485.40	188.00	47.60	24.40	10.85	11.20	2.00	
11	6.40	443.40	75.00	97.40	607.20	464.40	183.40	53.60	24.40	9.55	11.20	4.00	
12	4.40	643.00	48.60	157.00	1186.20	351.25	165.00	49.20	22.80	10.20	11.80	4.80	
13	3.60	246.25	38.00	131.00	1408.50	362.60	156.00	45.20	22.00	10.20	11.20	13.00	
14	3.20	139.00	31.00	97.40	902.80	499.40	152.00	43.60	22.00	10.85	10.60	13.60	
15	2.80	125.00	22.00	126.00	528.90	491.00	139.00	42.80	20.40	11.50	9.20	13.00	
16	2.80	106.00	18.40	547.75	401.40	478.40	146.00	43.60	16.05	11.50	10.00	13.00	
17	5.20	120.00	17.20	740.75	371.70	387.40	196.05	46.80	12.80	9.55	10.60	12.40	
18	9.20	197.20	16.00	499.40	491.00	308.75	198.35	46.80	12.15	10.20	9.60	18.40	
19	8.00	255.00	19.00	331.25	491.00	243.75	159.00	42.80	11.50	9.55	14.20	19.60	
20	5.20	308.75	15.40	243.75	731.50	288.75	133.00	40.40	10.20	8.25	10.00	17.80	
21	4.00	327.50	10.00	214.60	731.50	400.00	113.00	39.60	9.55	8.25	10.00	11.20	
22	1.95	165.00	9.20	196.05	846.80	369.10	102.15	39.60	9.55	9.55	9.60	9.60	
23	1.80	113.00	7.20	192.60	632.50	333.75	94.55	40.40	8.25	17.35	8.40	8.80	
24	19.60	86.95	5.20	178.80	451.80	320.00	85.10	38.00	8.25	4.80	6.40	6.00	
25	46.40	31.00	34.00	190.30	371.70	278.75	78.80	37.20	8.90	5.60	4.80	5.60	
26	57.40	106.00	356.25	265.00	333.75	227.80	72.50	37.20	9.55	8.40	6.40	4.40	
27	64.00	126.00	920.40	170.75	446.20	281.25	68.90	36.40	8.90	10.60	5.60	4.00	
28	31.00	93.60	1172.95	133.00	549.20	308.75	68.00	34.80	8.25	9.60	5.60	3.60	
29	29.00	79.40	1284.75	141.00	496.60	468.60	62.60	34.80	6.95	11.20	3.60	2.40	
30	26.00	146.00	784.15</										

WATER YEAR : 2011**YOM RIVER BASIN****Yom River at Ban Wang Mai Khon , Sukhothai (Y.3A)**

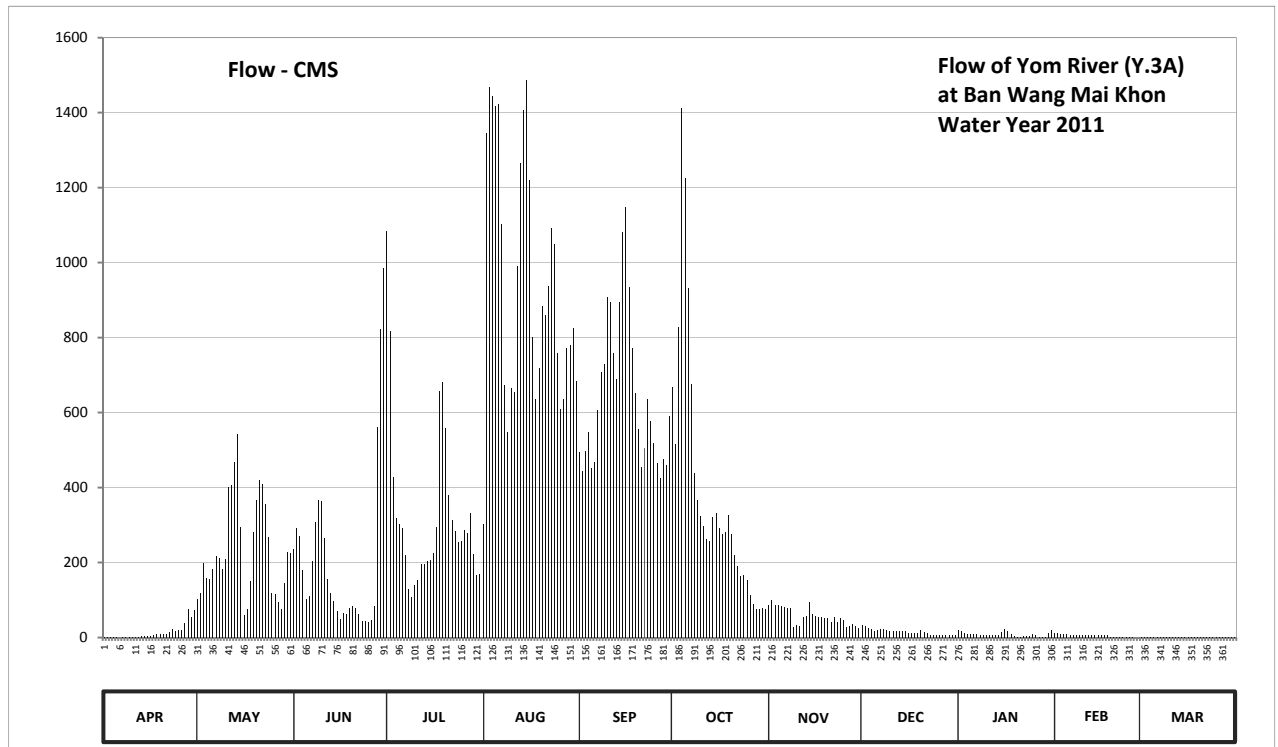
Lat 17 - 18 - 28 N Long 99 - 49 - 44 E

Location : on right bank about 100 meters downstream from the bridge on highway.

	Ban	Wang Mai Khon	Amphoe	Sawankhalok	Changwat	Sukhothai
Drainage Area	13,331	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+51.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	In front of automatic gage building.				Elevation	+65.350 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1967 to date					
Rating Operation						
Period of Rating	1967 to date					
Rated by Flot	-					
Rated by Current Meter	1967 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.63	52.78	54.35	60.69	55.00	56.71	58.01	52.57	51.64	51.39	51.16	50.71	
2	50.60	52.99	54.89	59.08	61.57	56.27	56.87	52.76	51.61	51.31	51.15	50.71	
3	50.39	53.93	54.70	56.15	61.82	56.73	59.15	52.55	51.49	51.20	51.08	50.70	
4	50.31	53.50	53.74	55.16	61.78	57.11	61.72	52.53	51.43	51.10	50.99	50.70	
5	50.29	53.46	52.78	55.01	61.73	56.35	61.24	52.51	51.31	51.04	50.99	50.68	
6	50.23	53.77	52.91	54.91	61.74	56.47	59.84	52.47	51.40	50.99	50.96	50.68	
7	50.38	54.15	53.99	54.19	60.43	57.58	58.07	52.42	51.41	50.99	50.92	50.67	
8	50.64	54.10	55.06	53.12	58.04	58.29	56.23	52.42	51.41	50.98	50.92	50.58	
9	50.63	53.75	55.62	52.87	57.13	58.44	55.61	51.54	51.39	50.97	50.92	50.39	
10	50.55	54.05	55.60	53.27	58.00	59.67	55.22	51.66	51.30	50.97	50.91	50.34	
11	50.55	55.93	54.63	53.44	57.92	59.59	54.95	51.63	51.33	50.96	50.91	50.33	
12	50.56	55.96	53.47	53.91	60.22	58.66	54.61	52.09	51.31	50.91	50.91	50.33	
13	50.75	56.48	52.99	53.92	61.36	58.16	54.54	52.14	51.30	50.88	50.91	50.60	
14	50.77	57.07	52.72	54.01	61.71	59.59	55.19	52.66	51.29	50.88	50.91	50.33	
15	50.80	54.93	52.34	54.02	61.85	60.58	55.30	52.22	51.29	51.21	50.90	50.33	
16	50.82	52.17	52.00	54.22	61.22	60.49	54.90	52.14	51.19	51.46	50.90	50.33	
17	50.88	52.41	52.25	54.92	58.96	59.85	54.74	52.10	51.19	51.30	50.89	50.33	
18	51.05	53.40	52.19	57.93	57.78	58.75	54.79	52.09	51.19	50.99	50.88	50.33	
19	51.05	54.80	52.43	58.11	58.37	57.90	55.25	52.05	51.18	50.85	50.73	50.33	
20	51.09	55.61	52.50	57.21	59.52	57.18	54.73	52.03	51.35	50.70	50.38	50.33	
21	51.06	56.08	52.43	55.75	59.35	56.37	54.17	51.82	51.26	50.71	50.37	50.33	
22	51.24	56.00	52.20	55.12	59.88	56.79	53.86	52.08	51.14	50.74	50.35	50.37	
23	51.42	55.53	51.85	54.81	60.57	57.78	53.57	51.81	50.96	50.74	50.33	50.66	
24	51.28	54.67	51.85	54.53	60.36	57.34	53.59	52.01	50.95	50.76	50.31	50.68	
25	51.35	52.99	51.84	54.54	58.65	56.89	53.43	51.93	50.95	50.99	50.30	50.67	
26	51.38	52.96	51.95	54.84	57.60	56.46	52.93	51.54	50.95	50.87	50.28	50.66	
27	51.77	52.67	52.51	54.78	57.78	56.12	52.59	51.59	50.95	50.73	50.26	50.65	
28	52.40	52.41	57.22	55.29	58.76	56.54	52.41	51.72	50.95	50.73	50.24	50.65	
29	52.06	53.34	59.10	54.21	58.81	56.42	52.38	51.59	50.95	50.73	50.60	50.67	
30	52.35	54.26	60.19	53.59	59.13	57.44	52.43	51.49	50.94	51.20		50.65	
31		54.22		53.62	58.12		52.38		50.91	51.36		50.64	
Mean	50.98	54.21	53.74	55.07	59.52	57.75	55.31	52.07	51.22	50.99	50.74	50.53	
Max	52.40	57.07	60.19	60.69	61.85	60.58	61.72	52.76	51.64	51.46	51.16	50.71	61.85
Min	50.23	52.17	51.84	52.87	55.00	56.12	52.38	51.49	50.91	50.70	50.24	50.33	50.23
Annual Max Momentary Gage Height	61.89		m. (MSL.) ,			at 12.00 Hours , on Aug 15 , 2011							
Zero Gage at Bottom Elevation	51.00		m. (MSL.) ,		River Bed	48.76	m. (MSL)						
Left Bank Elevation	62.98		m. (MSL.) ,										
Right Bank Elevation	66.66		m. (MSL.) ,		Drainage Area	13331	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	102.60	237.00	1082.80	302.00	495.20	667.40	87.90	32.00	20.60	11.80	2.20	
2	1.00	118.20	291.00	818.00	1346.40	442.40	515.10	101.20	30.50	17.40	11.50	2.20	
3	0.50	197.70	272.00	428.00	1467.40	497.60	828.50	86.50	24.60	13.00	9.60	2.00	
4	0.30	159.00	180.60	318.00	1444.40	546.30	1412.60	85.10	22.20	10.00	7.80	2.00	
5	0.20	155.80	102.60	303.00	1417.90	452.00	1226.20	83.70	17.40	8.80	7.80	1.80	
6	0.10	183.30	111.80	293.00	1423.20	466.40	932.00	80.90	21.00	7.80	7.20	1.80	
7	0.50	217.50	203.10	221.10	1103.50	607.40	675.80	77.40	21.40	7.80	6.40	1.70	
8	1.40	213.00	308.00	128.60	671.60	706.60	437.60	77.40	21.40	7.60	6.40	1.00	
9	1.30	181.50	366.20	108.90	548.90	727.60	365.10	27.00	20.60	7.40	6.40	0.50	
10	0.90	208.50	364.00	140.60	666.00	906.50	324.00	33.00	17.00	7.40	6.20	0.40	
11	0.90	401.60	265.00	154.20	654.80	894.50	297.00	31.50	18.20	7.20	6.20	0.30	
12	0.90	405.20	156.60	195.90	990.40	758.40	263.00	55.40	17.40	6.20	6.20	0.30	
13	3.00	467.60	118.20	196.80	1266.40	688.40	256.00	58.40	17.00	5.60	6.20	1.00	
14	3.40	541.10	98.40	204.90	1407.30	894.50	321.00	94.20	16.60	5.60	6.20	0.30	
15	4.00	295.00	71.80	205.80	1486.00	1081.80	332.00	63.40	16.60	13.40	6.00	0.30	
16	4.40	60.20	50.00	224.00	1219.60	1149.40	292.00	58.40	12.70	23.40	6.00	0.30	
17	5.60	76.70	65.50	294.00	800.40	933.50	276.00	56.00	12.70	17.00	5.80	0.30	
18	9.00	151.00	61.40	656.20	635.20	771.00	281.00	55.40	12.70	7.80	5.60	0.30	
19	9.00	282.00	78.10	681.40	717.80	652.00	327.00	53.00	12.40	5.00	2.60	0.30	
20	9.80	365.10	83.00	559.30	884.00	555.40	275.00	51.80	19.00	2.00	0.50	0.30	
21	9.20	419.60	78.10	380.50	858.50	454.40	219.30	41.00	15.40	2.20	0.40	0.30	
22	14.60	410.00	62.00	314.00	938.00	504.80	191.40	54.80	11.20	2.80	0.40	0.40	
23	21.80	356.30	42.50	283.00	1091.20	635.20	165.30	40.50	7.20	2.80	0.30	1.60	
24	16.20	269.00	42.50	255.00	1049.90	576.20	167.10	50.60	7.00	3.20	0.30	1.80	
25	19.00	118.20	42.00	256.00	757.00	517.70	153.40	46.50	7.00	7.80	0.20	1.70	
26	20.20	115.80	47.50	286.00	610.00	465.20	113.40	27.00	7.00	5.40	0.20	1.60	
27	38.50	94.90	83.70	280.00	635.20	424.40	89.30	29.50	7.00	2.60	0.10	1.50	
28	76.00	76.70	560.60	331.00	772.40	474.80	76.70	36.00	7.00	2.60	0.10	1.50	
29	53.60	146.20	821.00	223.00	779.40	460.40	74.60	29.50	7.00	2.60	1.00	1.70	
30	72.50	228.00	985.40	167.10	825.50	589.20	78.10	24.60	6.80	13.00		1.50	
31		224.00		169.80	682.80		74.60		6.20	19.40		1.40	
Total	399.10	7241.30	6249.60	10159.90	29453.10	19329.20	11707.50	1697.60	472.20	265.40	135.40	34.30	87144.60 CMSDAY
Mean	13.30	233.60	208.30	327.70	950.10	644.30	377.70	56.60	15.20	8.60	4.70	1.10	238.10 CMS
Max	76.00	541.10	985.40	1082.80	1486.00	1149.40	1412.60	101.20	32.00	23.40	11.80	2.20	1486.00 CMS
Min	0.10	60.20	42.00	108.90	302.00	424.40	74.60	24.60	6.20	2.00	0.10	0.30	0.10 CMS
Runoff	34.48	625.65	539.97	877.82	2544.75	1670.04	1011.53	146.67	40.80	22.93	11.70	2.96	7529.29 MCM
Momentary Peak	1510.80 CMS. at 61.89 m. (MSL.) at 12.00 Hours , on Aug 15 , 2011												
Runoff Yield	17.86	Liters/Second/Square KM.			Momentary Peak Yield			113.330	Liters/Second/Square KM.				

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	80.70	222.70	1357.00	535.60	340.40	461.40	145.00	45.20	10.30	2.40	0.10	
2	1.30	149.20	231.20	665.00	1842.40	334.10	383.20	112.40	40.50	9.30	1.70	0.00	
3	2.20	163.20	173.00	320.00	2341.80	376.30	772.00	114.60	41.00	8.80	1.00	0.00	
4	3.40	108.00	102.50	263.50	2378.90	387.80	1461.20	104.70	40.50	10.00	0.80	0.00	
5	4.80	117.90	83.40	286.00	2384.20	320.00	1177.40	92.00	45.20	15.00	0.80	0.00	
6	6.40	161.80	110.20	214.60	2278.20	387.80	722.80	78.00	43.50	17.70	0.80	0.00	
7	6.70	187.40	214.60	170.20	875.40	480.40	480.40	67.90	41.00	18.40	0.80	0.00	
8	6.50	137.20	232.90	167.40	459.10	533.20	357.20	63.70	38.00	20.70	0.80	0.00	
9	6.40	111.30	359.30	249.90	466.00	564.50	300.00	126.80	34.50	18.40	0.80	0.00	
10	6.40	187.40	255.00	139.80	490.00	757.00	266.90	106.90	36.50	16.90	0.80	0.00	
11	6.70	363.50	137.20	129.40	514.00	640.70	248.20	83.40	38.50	16.90	0.80	0.00	
12	5.90	272.00	102.50	132.00	1013.20	538.00	226.10	106.90	38.50	13.10	0.80	0.00	
13	8.60	535.60	84.30	128.10	1349.00	521.20	216.20	138.50	39.50	14.60	0.80	0.00	
14	66.50	494.80	71.60	159.00	1569.60	814.00	353.00	81.60	39.50	13.50	0.80	0.00	
15	81.60	192.20	66.50	137.20	1713.70	878.60	238.00	64.40	41.00	10.30	0.80	0.00	
16	96.00	168.80	89.00	157.60	1214.60	829.00	246.50	67.90	11.10	3.70	0.70	0.00	
17	86.10	192.20	77.20	314.00	550.00	673.10	239.70	65.10	20.70	1.30	0.20	0.80	
18	70.80	167.40	55.40	689.30	494.80	535.60	253.30	63.70	72.50	1.00	0.10	1.80	
19	62.30	236.30	51.20	694.80	587.00	447.60	276.00	63.00	82.50	1.50	0.10	5.20	
20	48.20	296.00	56.00	387.80	754.00	365.60	222.70	59.50	50.50	3.00	0.10	9.80	
21	43.50	304.00	54.80	265.20	654.20	344.60	181.00	60.90	20.70	5.50	0.10	12.40	
22	49.40	296.00	47.00	216.20	838.00	424.60	154.80	45.80	18.40	9.00	0.10	18.40	
23	36.50	232.90	42.00	201.80	996.70	485.20	134.60	48.80	20.00	13.50	0.10	20.00	
24	33.50	132.00	36.00	179.40	835.00	397.00	120.30	46.40	20.70	19.20	0.10	16.90	
25	32.50	93.00	31.50	217.80	499.60	371.90	129.40	37.00	18.40	12.70	0.20	12.00	
26	40.50	72.40	27.50	198.60	429.20	322.00	105.80	44.00	16.20	9.00	0.70	8.60	
27	50.60	53.60	67.90	227.80	602.00	340.40	105.80	52.40	13.90	9.80	0.70	5.90	
28	50.00	89.00	694.80	206.60	594.50	320.00	98.10	47.60	11.10	10.30	0.70	4.90	
29	63.00	110.20	1106.80	139.80	589.50	365.60	90.00	45.80	10.00	11.60	0.20	3.90	
3													

WATER YEAR : 2011

YOM RIVER BASIN

Nam Ngao at Ban Luang Nua , Lampang (Y.13A)

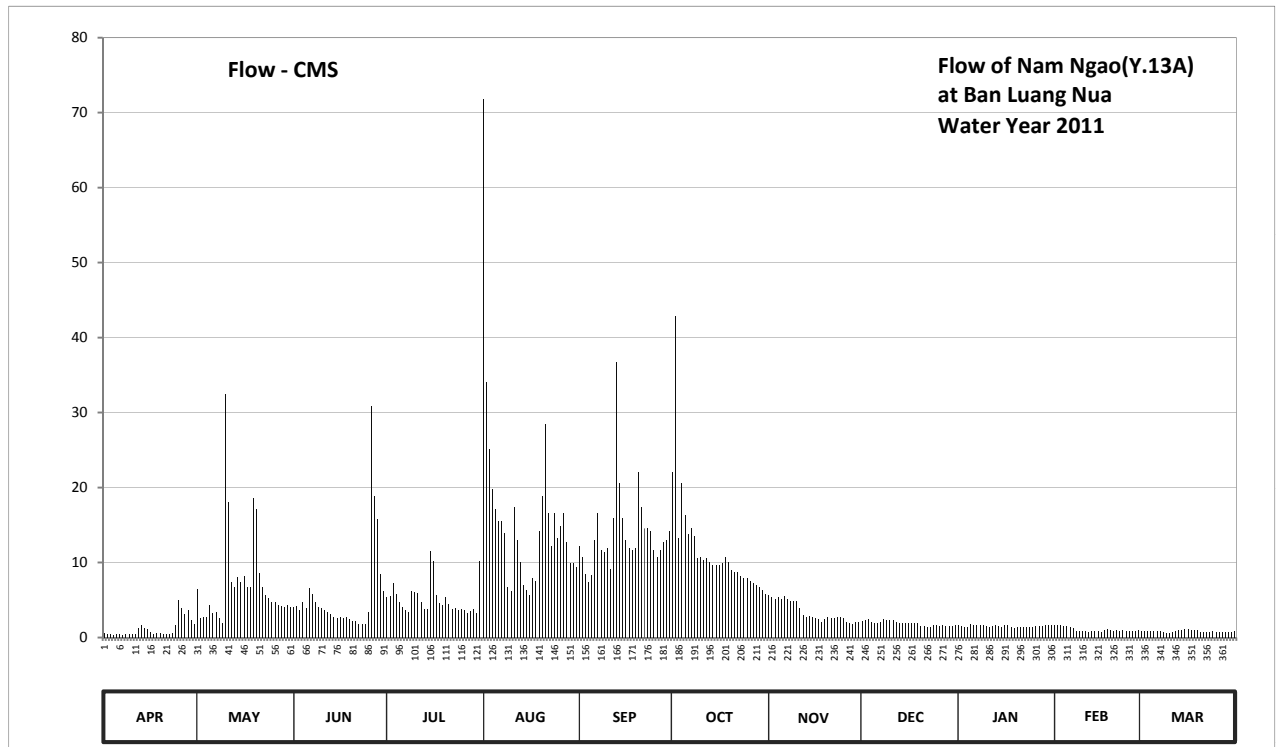
Lat 18 - 45 - 32 N Long 99 - 58 - 33 E

Location : on left bank at the bridge on highway about 1.6 kilometers upstream from station Y.13

	Ban	Luang Nua	Amphoe	Ngao	Changwat	Lampang
Drainage Area	381	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+268.300	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 10 meters from the top staff gage.				Elevation	+272.644 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1988 - 1995, 2001 to date					
Rating Operation						
Period of Rating	1988 - 1995, 2001 to date					
Rated by Flot	-					
Rated by Current Meter	1988 - 1995, 2001 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 47 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.61	269.16	269.00	269.09	270.79	269.85	270.11	269.54	269.22	269.12	269.13	268.97	
2	268.60	268.87	269.01	269.10	270.10	269.80	270.35	269.52	269.23	269.11	269.12	268.96	
3	268.57	268.88	268.97	269.21	269.86	269.70	269.89	269.51	269.25	269.09	269.12	268.94	
4	268.55	268.89	269.05	269.12	269.71	269.64	270.08	269.52	269.21	269.08	269.11	268.94	
5	268.56	269.02	268.99	269.05	269.62	269.69	269.98	269.51	269.18	269.16	269.10	268.94	
6	268.56	268.93	269.17	269.00	269.56	269.88	269.91	269.53	269.18	269.14	269.08	268.94	
7	268.55	268.94	269.12	268.97	269.56	269.99	269.93	269.51	269.21	269.14	269.05	268.95	
8	268.57	268.87	269.05	268.94	269.50	269.83	269.90	269.48	269.24	269.12	268.97	268.90	
9	268.58	268.81	269.00	269.15	269.60	269.82	269.79	269.48	269.23	269.12	268.95	268.85	
10	268.58	270.06	268.99	269.14	269.57	269.84	269.80	269.48	269.23	269.10	268.95	268.84	
11	268.58	269.65	268.97	269.13	270.01	269.73	269.78	269.39	269.23	269.07	268.94	268.90	
12	268.71	269.22	268.95	269.05	269.88	269.97	269.79	269.30	269.21	269.11	268.93	268.96	
13	268.77	269.18	268.92	268.98	269.77	270.29	269.77	269.28	269.19	269.12	268.97	268.99	
14	268.72	269.25	268.88	268.98	269.62	270.08	269.75	269.29	269.18	269.11	268.96	269.01	
15	268.69	269.22	268.87	269.40	269.58	269.97	269.75	269.28	269.18	269.09	268.94	269.03	
16	268.63	269.26	268.88	269.35	269.54	269.88	269.75	269.26	269.19	269.12	268.93	269.02	
17	268.59	269.18	268.87	269.11	269.67	269.84	269.76	269.24	269.18	269.12	269.00	269.00	
18	268.62	269.18	268.88	269.04	269.65	269.83	269.80	269.21	269.18	269.09	269.03	269.00	
19	268.62	269.67	268.86	269.02	269.92	269.84	269.77	269.24	269.18	269.06	268.98	269.00	
20	268.60	269.62	268.83	269.09	270.04	270.11	269.72	269.28	269.10	269.07	268.97	268.93	
21	268.59	269.28	268.83	269.03	270.21	270.01	269.71	269.26	269.10	269.08	268.98	268.90	
22	268.59	269.18	268.80	268.98	269.99	269.93	269.71	269.26	269.09	269.07	268.97	268.91	
23	268.62	269.11	268.80	268.99	269.85	269.93	269.68	269.27	269.08	269.08	268.99	268.93	
24	268.78	269.08	268.79	268.97	269.99	269.92	269.67	269.28	269.12	269.09	268.97	268.95	
25	269.07	269.05	268.94	268.98	269.89	269.83	269.67	269.26	269.13	269.09	268.97	268.92	
26	268.99	269.05	270.02	268.97	269.94	269.80	269.65	269.21	269.10	269.10	268.96	268.90	
27	268.92	269.02	269.68	268.93	269.99	269.83	269.63	269.18	269.12	269.10	268.96	268.89	
28	268.97	269.01	269.57	268									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.56	6.40	4.00	5.35	71.85	12.15	22.10	5.68	2.20	1.60	1.65	0.91		
2	0.50	2.57	4.15	5.50	34.00	10.80	42.88	5.34	2.30	1.55	1.60	0.88		
3	0.43	2.68	3.67	7.20	25.10	8.50	13.23	5.17	2.50	1.45	1.60	0.82		
4	0.37	2.79	4.75	5.80	19.85	7.42	20.60	5.34	2.10	1.40	1.55	0.82		
5	0.40	4.30	3.89	4.75	17.10	8.32	16.30	5.17	1.90	1.80	1.50	0.82		
6	0.40	3.23	6.55	4.00	15.50	12.96	13.85	5.51	1.90	1.70	1.40	0.82		
7	0.37	3.34	5.80	3.67	15.50	16.65	14.55	5.17	2.10	1.70	1.25	0.85		
8	0.43	2.57	4.75	3.34	14.00	11.61	13.50	4.80	2.40	1.60	0.91	0.70		
9	0.45	1.91	4.00	6.25	6.70	11.34	10.57	4.80	2.30	1.60	0.85	0.55		
10	0.45	32.40	3.89	6.10	6.19	11.88	10.80	4.80	2.30	1.50	0.85	0.52		
11	0.45	18.00	3.67	5.95	17.45	9.19	10.34	3.90	2.30	1.35	0.82	0.70		
12	1.21	7.40	3.45	4.75	12.96	15.95	10.57	3.00	2.10	1.55	0.79	0.88		
13	1.60	6.70	3.12	3.78	10.11	36.73	10.11	2.80	1.95	1.60	0.91	0.97		
14	1.28	8.00	2.68	3.78	7.06	20.60	9.65	2.90	1.90	1.55	0.88	1.05		
15	1.09	7.40	2.57	11.50	6.36	15.95	9.65	2.80	1.90	1.45	0.82	1.15		
16	0.70	8.20	2.68	10.25	5.68	12.96	9.65	2.60	1.95	1.60	0.79	1.10		
17	0.47	6.70	2.57	5.65	7.96	11.88	9.88	2.40	1.90	1.60	1.00	1.00		
18	0.63	6.70	2.68	4.60	7.60	11.61	10.80	2.10	1.90	1.45	1.15	1.00		
19	0.63	18.60	2.46	4.30	14.20	11.88	10.11	2.40	1.90	1.30	0.94	1.00		
20	0.50	17.10	2.13	5.35	18.80	22.10	8.96	2.80	1.50	1.35	0.91	0.79		
21	0.47	8.60	2.13	4.45	28.52	17.45	8.73	2.60	1.50	1.40	0.94	0.70		
22	0.47	6.70	1.80	3.78	16.65	14.55	8.73	2.60	1.45	1.35	0.91	0.73		
23	0.63	5.65	1.80	3.89	12.15	14.55	8.14	2.70	1.40	1.40	0.97	0.79		
24	1.67	5.20	1.74	3.67	16.65	14.20	7.96	2.80	1.60	1.45	0.91	0.85		
25	5.05	4.75	3.34	3.78	13.23	11.61	7.96	2.60	1.65	1.45	0.91	0.76		
26	3.89	4.75	30.80	3.67	14.90	10.80	7.60	2.10	1.50	1.50	0.88	0.70		
27	3.12	4.30	18.90	3.23	16.65	11.61	7.24	1.90	1.60	1.50	0.88	0.67		
28	3.67	4.15	15.75	3.56	12.69	12.69	7.06	1.85	1.55	1.50	0.94	0.73		
29	2.35	4.00	8.40	3.78	9.88	12.96	6.70	2.10	1.55	1.65	0.94	0.73		
30	1.80	4.30	6.25	3.23	9.88	14.20	6.36	2.10	1.55	1.65		0.79		
31		4.00		10.25	9.42		5.85		1.65	1.65		0.82		
Total	36.04	223.39	164.37	159.16	494.59	415.10	360.43	102.83	58.30	47.20	30.45	25.60	2117.46	CMSDAY
Mean</														

WATER YEAR : 2011**YOM RIVER BASIN****Yom River at Ban Don Rabiang , Sukhothai (Y.14)**

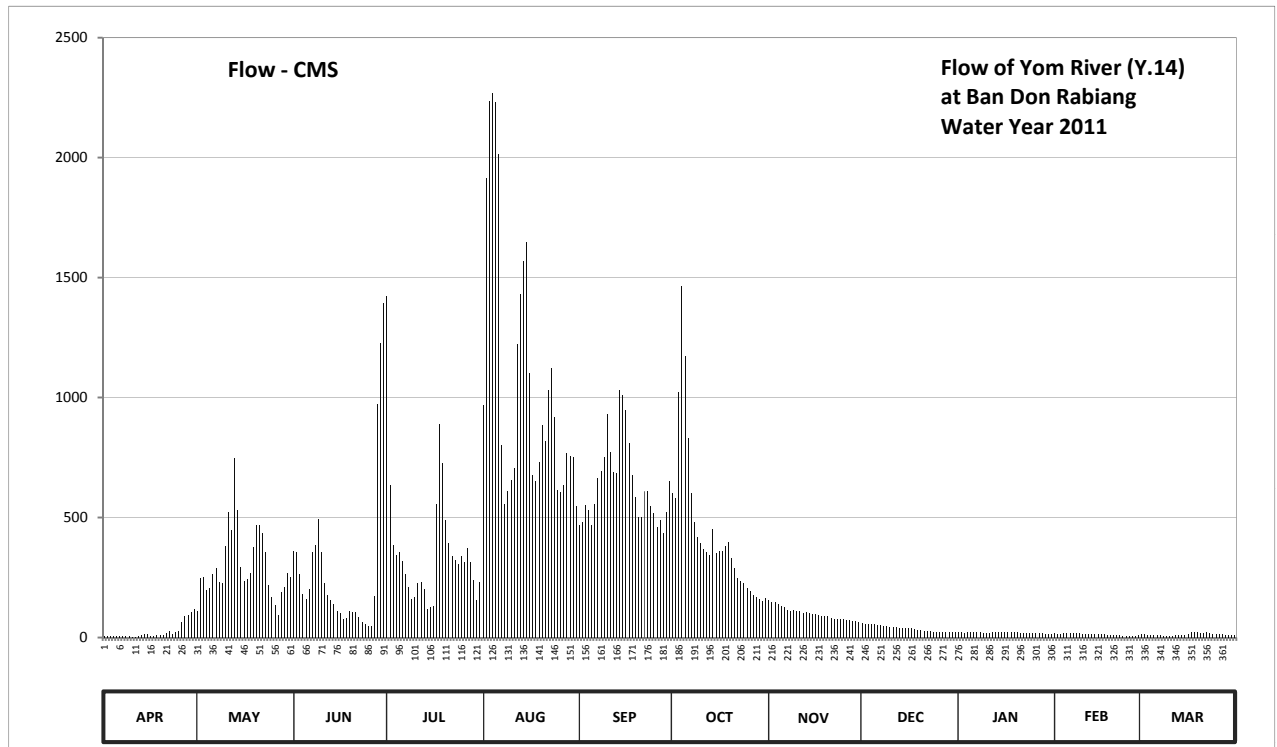
Lat 17 - 35 - 42 N Long 99 - 43 - 06 E

Location : on left bank about 50 meters from Si Satchanalai - Den Chai Highway No.101 at guidepost 44 th.

	Ban	Don Rabiang	Amphoe	Si Satchanalai	Changwat	Sukhothai
Drainage Area	12,100	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+65.100	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	In front of gage observer's house.				Elevation	+78.363 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1964 to date					
Rating Operation						
Period of Rating	1964 to date					
Rated by Flot	-					
Rated by Current Meter	1964 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +74.480 m. (MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.90	67.19	68.92	73.85	72.02	69.55	70.28	67.55	66.71	66.28	66.17	66.09	
2	65.90	68.21	68.91	70.47	75.71	69.63	70.17	67.51	66.70	66.26	66.16	66.08	
3	65.90	68.24	68.34	69.09	76.81	70.01	72.26	67.49	66.68	66.24	66.16	66.00	
4	65.90	67.86	67.75	68.82	76.93	69.89	74.02	67.42	66.68	66.25	66.18	65.99	
5	65.90	67.94	67.60	68.90	76.80	69.56	72.89	67.37	66.66	66.29	66.20	65.99	
6	65.89	68.34	67.91	68.66	76.05	70.04	71.41	67.32	66.64	66.28	66.18	65.98	
7	65.89	68.49	68.90	68.32	71.27	70.61	70.29	67.23	66.61	66.27	66.19	65.98	
8	65.88	68.11	69.09	67.96	70.05	70.77	69.62	67.21	66.60	66.26	66.21	65.96	
9	65.88	68.07	69.70	67.58	70.34	71.05	69.28	67.22	66.59	66.24	66.18	65.96	
10	65.86	69.06	68.90	67.67	70.57	71.86	69.12	67.18	66.56	66.24	66.16	65.95	
11	65.86	69.85	68.09	68.07	70.83	71.14	68.99	67.18	66.54	66.24	66.16	65.97	
12	65.90	69.44	67.72	68.11	73.08	70.75	68.90	67.11	66.52	66.26	66.15	66.03	
13	65.99	71.02	67.56	67.90	73.89	70.72	68.83	67.16	66.50	66.29	66.14	66.04	
14	66.13	69.91	67.43	67.28	74.42	72.30	69.47	67.10	66.50	66.27	66.14	66.03	
15	66.08	68.52	67.20	67.32	74.72	72.21	68.87	67.09	66.49	66.27	66.14	66.00	
16	65.92	68.12	67.12	67.36	72.59	71.93	68.92	67.08	66.49	66.27	66.13	66.16	
17	65.97	68.18	66.89	70.05	70.67	71.32	68.93	67.03	66.47	66.25	66.12	66.30	
18	65.98	68.36	66.94	71.67	70.55	70.68	69.05	67.01	66.44	66.25	66.05	66.30	
19	65.98	69.02	67.18	70.92	70.94	70.19	69.15	67.02	66.41	66.25	66.04	66.27	
20	65.99	69.55	67.17	69.68	71.66	69.75	68.74	67.00	66.38	66.25	66.03	66.22	
21	66.20	69.56	67.15	69.13	71.35	69.74	68.48	66.93	66.36	66.24	66.02	66.21	
22	66.33	69.38	66.95	68.81	72.30	70.33	68.21	66.90	66.35	66.24	65.98	66.25	
23	66.16	68.90	66.76	68.69	72.69	70.33	68.15	66.90	66.33	66.22	65.96	66.21	
24	66.28	68.03	66.70	68.59	71.80	70.00	68.08	66.88	66.31	66.20	65.95	66.14	
25	66.33	67.65	66.57	68.81	70.36	69.84	67.93	66.88	66.31	66.19	65.94	66.12	
26	66.76	67.40	66.59	68.65	70.31	69.51	67.84	66.86	66.30	66.18	65.93	66.11	
27	66.99	67.04	67.69	69.01	70.47	69.67	67.72	66.83	66.29	66.17	65.93	66.08	
28	67.05	67.82	72.04	68.65	71.12	69.37	67.67	66.80	66.28	66.17	66.03	66.05	
29	67.17	67.95	73.09	68.17	71.06	69.86	67.60	66.80	66.28	66.16	66.09	66.01	
30	67.25	68.37	73.75	67.56	71.05	70.54	67.53	66.76	66.28	66.15		66.00	
31		68.26		68.11	69.99		67.63		66.28	66.15		65.99	
Mean	66.17	68.51	68.22	68.83	72.34	70.44	69.23	67.09	66.47	66.23	66.09	66.08	
Max	67.25	71.02	73.75	73.85	76.93	72.30	74.02	67.55	66.71	66.29	66.21	66.30	76.93
Min	65.86	67.04	66.57	67.28	69.99	69.37	67.53	66.76	66.28	66.15	65.93	65.95	65.86
Annual Max Momentary Gage Height	76.96		m. (MSL.) ,			at 18.00 Hours , on Aug 4 , 2011							
Zero Gage at Bottom Elevation	65.10		m. (MSL.) ,		River Bed	62.37	m. (MSL)						
Left Bank Elevation	78.34		m. (MSL.) ,										
Right Bank Elevation	74.47		m. (MSL.) ,		Drainage Area	12100	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.00	109.90	358.40	1421.00	967.60	468.00	600.20	154.50	59.00	22.80	16.50	12.60	
2	5.00	246.50	356.70	636.30	1914.00	482.40	579.60	149.30	58.00	21.60	16.00	12.20	
3	5.00	251.00	266.00	387.30	2234.90	550.80	1022.80	146.70	56.20	20.40	16.00	9.00	
4	5.00	196.40	181.00	342.20	2269.70	529.20	1465.20	137.60	56.20	21.00	17.00	8.60	
5	5.00	207.60	161.00	355.00	2232.00	469.80	1174.50	131.40	54.40	23.40	18.00	8.60	
6	4.70	266.00	203.40	316.60	2014.50	556.20	830.20	125.40	52.60	22.80	17.00	8.20	
7	4.70	289.40	355.00	263.00	799.40	663.00	602.10	114.60	49.90	22.20	17.50	8.20	
8	4.40	231.50	387.30	210.40	558.00	695.00	480.60	112.20	49.00	21.60	18.60	7.40	
9	4.40	225.80	495.00	158.40	611.60	752.50	419.60	113.40	48.10	20.40	17.00	7.40	
10	3.80	382.20	355.00	170.10	655.30	930.80	392.40	108.80	45.40	20.40	16.00	7.00	
11	3.80	522.00	228.60	225.80	707.00	771.40	370.30	108.80	43.60	20.40	16.00	7.80	
12	5.00	448.20	176.80	231.50	1222.00	691.00	355.00	101.10	41.80	21.60	15.50	10.20	
13	8.60	746.20	155.80	202.00	1431.40	685.00	343.80	106.60	40.00	23.40	15.00	10.60	
14	14.50	532.80	138.90	120.60	1569.20	1032.00	453.60	100.00	40.00	22.20	15.00	10.20	
15	12.20	294.20	111.00	125.40	1647.10	1011.30	350.20	98.90	39.20	22.20	15.00	9.00	
16	5.80	233.00	102.20	130.20	1100.60	946.90	358.40	97.80	39.20	22.20	14.50	16.00	
17	7.80	242.00	77.00	558.00	675.00	810.40	360.10	92.30	37.60	21.00	14.00	24.00	
18	8.20	269.00	82.40	887.40	651.50	677.00	380.50	90.10	35.20	21.00	11.00	24.00	
19	8.20	375.40	108.80	725.20	729.40	583.20	397.50	91.20	32.80	21.00	10.60	22.20	
20	8.60	468.00	107.70	491.40	885.20	504.00	329.40	89.00	30.40	21.00	10.20	19.20	
21	18.00	469.80	105.50	394.10	817.00	502.20	287.80	81.30	28.80	20.40	9.80	18.60	
22	26.40	437.40	83.50	340.60	1032.00	609.70	246.50	78.00	28.00	20.40	8.20	21.00	
23	16.00	355.00	64.00	321.40	1124.60	609.70	237.50	78.00	26.40	19.20	7.40	18.60	
24	22.80	220.20	58.00	305.40	917.00	549.00	227.20	76.00	24.80	18.00	7.00	15.00	
25	26.40	167.50	46.30	340.60	615.40	520.20	206.20	76.00	24.80	17.50	6.60	14.00	
26	64.00	135.00	48.10	315.00	605.90	460.80	193.60	74.00	24.00	17.00	6.20	13.50	
27	87.90	93.40	172.70	373.70	636.30	489.60	176.80	71.00	23.40	16.50	6.20	12.20	
28	94.50	190.80	972.20	315.00	767.20	435.60	170.10	68.00	22.80	16.50	10.20	11.00	
29	107.70	209.00	1224.50	240.50	754.60	523.80	1						

WATER YEAR : 2011**YOM RIVER BASIN****Yom River at Ban Kong , Sukhothai (Y.15)**

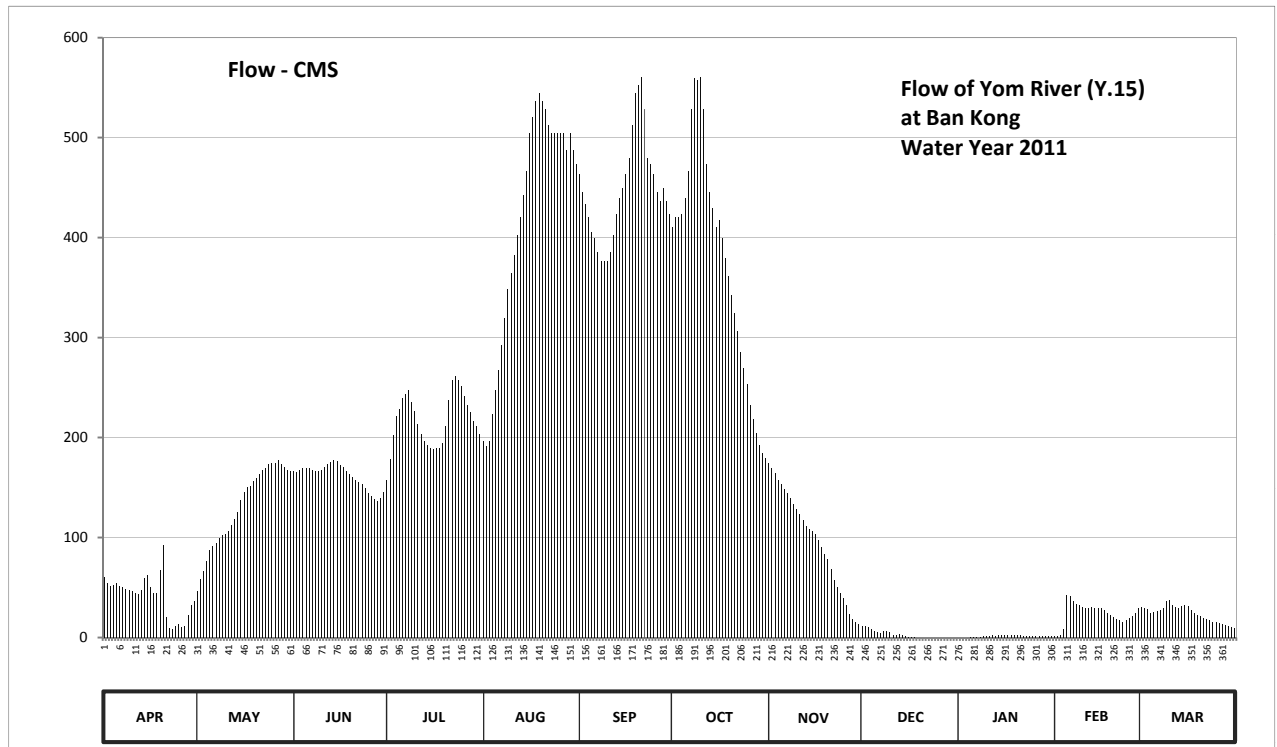
Lat 16 - 55 - 47 N Long 99 - 57 - 41 E

Location : on left bank at Ban Kong.

	Ban Kong	Amphoe Kong Krailat	Changwat Sukhothai
Drainage Area	19,936	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+35.320	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		Elevation +46.520 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	2010 to date		
Rating Operation			
Period of Rating	2010 to date		
Rated by Flot	-		
Rated by Current Meter	2010 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	Overbank flow starts at elevation + 41.220 m. (MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2011.		

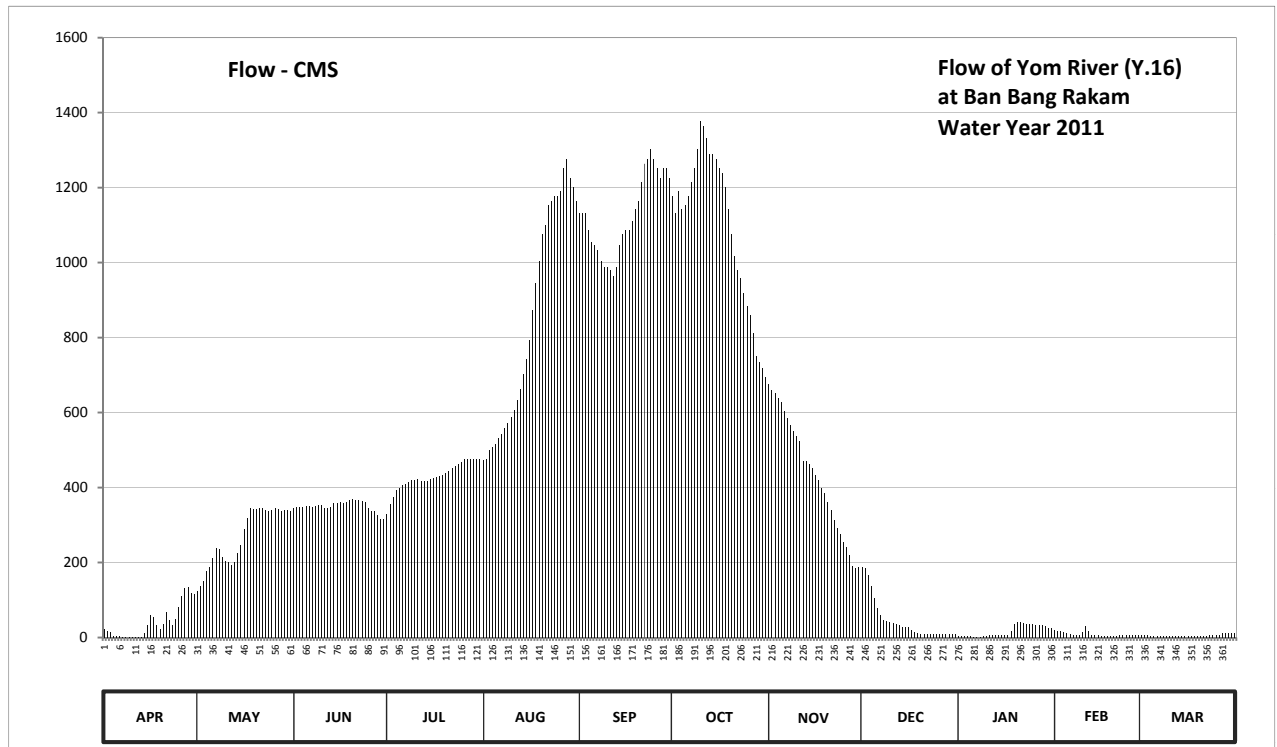
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.25	39.75	42.80	42.66	43.20	44.35	44.19	42.94	37.77	35.33	36.36	39.09	
2	40.06	40.19	42.79	42.99	43.15	44.30	44.22	42.86	37.77	35.27	36.44	39.05	
3	39.94	40.45	42.82	43.25	43.20	44.26	44.22	42.77	37.65	35.52	36.57	38.99	
4	39.99	40.75	42.85	43.38	43.39	44.22	44.23	42.66	37.37	35.63	37.43	38.81	
5	40.04	41.04	42.86	43.42	43.52	44.17	44.28	42.58	37.19	35.66	39.58	38.83	
6	39.96	41.15	42.85	43.48	43.62	44.15	44.36	42.49	37.06	35.67	39.57	38.88	
7	39.91	41.22	42.82	43.50	43.74	44.10	44.46	42.40	36.94	35.72	39.35	38.95	
8	39.84	41.35	42.80	43.52	43.86	44.07	44.53	42.30	37.11	35.89	39.24	39.07	
9	39.79	41.44	42.81	43.46	43.97	44.07	44.56	42.17	37.22	36.08	39.22	39.34	
10	39.75	41.47	42.83	43.41	44.03	44.07	44.51	42.07	37.01	36.26	39.08	39.41	
11	39.66	41.55	42.87	43.33	44.09	44.10	44.46	41.96	36.50	36.42	39.05	39.21	
12	39.62	41.69	42.92	43.26	44.16	44.16	44.38	41.81	36.63	36.49	39.03	39.09	
13	39.81	41.84	42.95	43.20	44.22	44.23	44.30	41.66	36.71	36.48	39.09	39.07	
14	40.23	41.99	42.97	43.16	44.29	44.28	44.25	41.59	36.57	36.53	39.07	39.15	
15	40.31	42.27	42.96	43.13	44.36	44.31	44.19	41.55	36.32	36.57	39.06	39.17	
16	39.92	42.44	42.91	43.11	44.43	44.35	44.21	41.46	36.04	36.61	39.05	39.13	
17	39.70	42.53	42.87	43.12	44.45	44.40	44.15	41.30	35.82	36.61	38.95	38.93	
18	39.67	42.55	42.81	43.13	44.47	44.44	44.08	41.13	35.67	36.61	38.76	38.77	
19	40.48	42.64	42.75	43.18	44.48	44.48	44.02	40.94	35.52	36.60	38.65	38.67	
20	41.18	42.69	42.70	43.32	44.47	44.49	43.95	40.78	35.46	36.59	38.52	38.59	
21	38.55	42.75	42.66	43.47	44.46	44.51	43.88	40.50	35.45	36.53	38.41	38.48	
22	37.59	42.83	42.62	43.57	44.44	44.46	43.80	40.16	35.43	36.44	38.30	38.38	
23	37.46	42.86	42.58	43.59	44.43	44.40	43.71	39.92	35.42	36.32	38.18	38.30	
24	37.70	42.92	42.50	43.57	44.43	44.38	43.63	39.67	35.41	36.22	38.34	38.18	
25	37.97	42.94	42.41	43.54	44.43	44.35	43.55	39.49	35.40	36.17	38.46	38.10	
26	37.64	42.93	42.35	43.49	44.43	44.30	43.44	39.19	35.40	36.18	38.59	38.03	
27	37.71	42.97	42.28	43.44	44.43	44.27	43.36	38.75	35.39	36.20	38.81	37.92	
28	38.64	42.92	42.25	43.40	44.41	44.31	43.27	38.36	35.39	36.22	39.04	37.83	
29	39.21	42.87	42.31	43.35	44.43	44.27	43.16	38.18	35.38	36.26	39.09	37.72	
30	39.36	42.82	42.44	43.32	44.41	44.23	43.07	37.93	35.36	36.30		37.61	
31		42.80		43.26	44.38		43.00		35.35	36.31		37.51	
Mean	39.40	42.02	42.71	43.32	44.12	44.28	43.98	41.05	36.25	36.18	38.60	38.65	
Max	41.18	42.97	42.97	43.59	44.48	44.51	44.56	42.94	37.77	36.61	39.58	39.41	44.56
Min	37.46	39.75	42.25	42.66	43.15	44.07	43.00	37.93	35.35	35.27	36.36	37.51	35.27
Annual Max Momentary Gage Height	44.57		m. (MSL.) ,			at 09.00 Hours , on Oct 9 , 2011							
Zero Gage at Bottom Elevation	35.32		m. (MSL.) ,		River Bed	33.46	m. (MSL)						
Left Bank Elevation	43.95		m. (MSL.) ,										
Right Bank Elevation	41.21		m. (MSL.) ,		Drainage Area	19936	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	60.50	46.30	166.00	157.60	196.00	463.00	411.10	174.80	11.70	0.00	1.70	30.30	
2	54.80	58.70	165.40	178.30	191.50	446.00	420.40	169.60	11.70	0.00	1.80	29.50	
3	51.30	66.90	167.20	202.00	196.00	433.20	420.40	164.20	10.50	0.00	2.30	28.30	
4	52.70	77.00	169.00	221.60	223.30	420.40	423.60	157.60	8.00	0.00	8.50	24.70	
5	54.20	87.50	169.60	228.60	247.00	405.30	439.60	153.00	6.70	0.10	42.00	25.10	
6	51.90	91.60	169.00	239.40	267.00	399.50	466.40	148.50	5.70	0.10	41.70	26.10	
7	50.50	94.30	167.20	243.00	292.20	385.00	528.60	144.00	4.80	0.10	36.20	27.50	
8	48.60	99.10	166.00	247.00	319.80	376.30	559.20	139.00	6.10	0.50	33.50	29.90	
9	47.30	102.50	166.60	235.80	347.90	376.30	557.40	133.10	6.90	1.00	33.00	36.00	
10	46.30	103.60	167.80	226.80	364.70	376.30	560.40	128.60	5.30	1.40	30.10	37.70	
11	44.00	106.70	170.20	213.10	382.10	385.00	528.60	123.70	2.00	1.80	29.50	32.70	
12	43.00	112.30	173.40	203.20	402.40	402.40	473.20	117.20	2.70	2.00	29.10	30.30	
13	47.80	118.50	175.50	196.00	420.40	423.60	446.00	111.20	3.10	1.90	30.30	29.90	
14	59.90	125.10	176.90	192.40	442.80	439.60	430.00	108.40	2.30	2.10	29.90	31.50	
15	62.30	137.70	176.20	189.70	466.40	449.40	411.10	106.70	1.50	2.30	29.70	31.90	
16	50.80	146.00	172.70	187.90	504.30	463.00	417.20	103.20	0.90	2.60	29.50	31.10	
17	45.00	150.50	170.20	188.80	520.50	480.00	399.50	97.20	0.30	2.60	27.50	27.10	
18	44.20	151.50	166.60	189.70	536.70	512.40	379.20	90.90	0.10	2.60	23.90	24.10	
19	67.90	156.40	163.00	194.20	544.80	544.80	361.80	83.70	0.00	2.50	22.30	22.50	
20	92.70	159.40	160.00	211.40	536.70	552.90	342.50	78.00	0.00	2.40	20.30	21.30	
21	20.70	163.00	157.60	237.60	528.60	560.40	324.40	68.50	0.00	2.10	18.60	19.70	
22	9.90	167.80	155.20	257.00	512.40	528.60	306.00	57.80	0.00	1.80	17.20	18.20	
23	8.70	169.60	153.00	261.00	504.30	480.00	285.30	50.80	0.00	1.50	15.80	17.20	
24	11.00	173.40	149.00	257.00	504.30	473.20	269.00	44.20	0.00	1.30	17.70	15.80	
25	13.70	174.80	144.50	251.00	504.30	463.00	253.00	39.80	0.00	1.20	19.40	15.00	
26	10.40	174.10	141.50	241.20	504.30	446.00	232.20	32.30	0.00	1.20	21.30	14.30	
27	11.10	176.90	138.10	232.20	504.30	436.40	218.20	23.80	0.00	1.30	24.70	13.20	
28	22.10	173.40	136.80	225.00	488.10	449.40	204.40	18.00	0.00	1.30	29.30	12.30	
29	32.70	170.20	139.50	216.50	504.30	436.40	192.40	15.80	0.00	1.40	30.3		



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.10	122.80	346.00	330.50	472.30	1132.00	1177.30	674.50	186.70	4.80	20.80	5.50	
2	16.90	138.40	348.00	355.00	474.50	1132.00	1132.00	659.60	184.60	4.60	18.40	5.30	
3	13.60	151.70	348.00	374.00	498.70	1132.00	1189.60	651.20	166.40	4.00	16.60	5.30	
4	5.20	176.20	348.00	392.00	507.50	1088.00	1143.00	638.00	137.80	3.70	14.20	4.90	
5	3.30	186.70	350.00	399.00	515.20	1055.00	1154.00	627.20	106.00	2.80	11.20	4.30	
6	2.70	212.60	351.00	406.00	531.20	1047.50	1177.30	604.40	79.50	2.30	9.60	4.50	
7	1.40	239.80	349.00	410.00	542.00	1032.50	1214.20	584.00	59.40	1.90	7.20	4.40	
8	0.60	235.80	350.00	414.00	558.80	1002.50	1251.10	567.20	45.40	1.90	6.60	4.10	
9	0.40	215.80	352.00	420.00	572.00	987.50	1303.00	550.40	43.80	3.70	6.60	4.20	
10	0.40	204.20	352.00	420.00	587.60	987.50	1378.00	536.00	40.20	5.20	15.40	4.20	
11	0.30	200.00	345.00	422.00	606.80	980.00	1363.00	524.00	39.40	5.60	30.60	4.20	
12	0.30	193.70	346.00	417.00	634.40	962.90	1333.00	470.10	35.40	5.90	16.90	4.10	
13	0.90	201.40	349.00	416.00	663.20	987.50	1288.00	469.00	32.20	6.60	5.30	4.10	
14	10.60	223.80	358.00	418.00	703.10	1047.50	1288.00	461.30	28.60	6.60	5.30	4.10	
15	34.60	247.80	358.00	423.00	741.40	1077.00	1275.70	452.50	28.20	6.20	5.30	4.10	
16	60.60	288.20	360.00	426.10	793.80	1088.00	1251.10	432.70	26.60	5.60	5.10	4.10	
17	55.00	317.90	358.00	428.30	873.50	1088.00	1238.80	421.00	19.00	5.30	5.10	3.80	
18	32.60	346.00	361.00	429.40	945.80	1110.00	1201.90	399.00	13.60	18.10	5.10	3.80	
19	22.30	344.00	368.00	433.80	1002.50	1143.00	1143.00	384.00	11.60	37.00	4.80	3.80	
20	36.20	342.00	370.00	439.30	1077.00	1165.00	1077.00	362.00	9.80	41.00	4.80	3.70	
21	68.60	345.00	368.00	443.70	1099.00	1214.20	1017.50	340.00	9.80	41.40	5.20	4.00	
22	47.00	345.00	367.00	451.40	1154.00	1263.40	980.00	313.40	9.60	39.40	6.60	5.00	
23	33.80	341.00	365.00	456.90	1165.00	1275.70	957.20	290.90	9.20	37.00	6.60	6.00	
24	49.40	337.00	362.00	461.30	1177.30	1303.00	917.50	276.50	8.80	35.40	6.20	6.00	
25	81.50	341.00	346.00	466.80	1177.30	1275.70	884.50	254.20	8.60	35.00	7.20	6.60	
26	109.60	346.00	338.00	475.60	1189.60	1251.10	858.60	240.60	8.60	34.20	7.20	7.40	
27	133.00	343.00	337.00	474.50	1251.10	1226.50	810.80	219.80	8.60	34.20	7.20	10.60	
28	134.80	337.00	326.90	474.50	1275.70	1251.10	750.20	191.60	8.60	33.00	6.20	10.60	
29	118.00	341.00	315.20	476.70	1226.50	1251.10	734.40	184.60	8.60	30.20	30.20	10.60	
30	115.60	340.00	316.10	476.70	1201.90	1226.50	718.70	186.70	8.60	26.20		10.60	
31		338.00		475.60	1165.00		695.30		8.60	24.70		10.60	
Total	1210.30	8342.80	10508.20	13307.10	26383.70	33783.70	33903.70	12966.40	1391.80	543.50	297.50	174.50	142813.20 CMSDAY
Mean	40.30	269.10	350.30	429.30	851.10	1126.10	1093.70	432.20	44.90	17.50	10.30	5.60	390.20 CMS
Max	134.80	346.00	370.00	476.70	1275.70	1303.00	1378.00	674.50	186.70	41.40	30.60	10.60	1378.00 CMS
Min	0.30	122.80	315.20	330.50	472.30	962.90	695.30	184.60	8.60	1.90	4.80	3.70	0.30 CMS
Runoff	104.57	720.82	907.91	1149.73	2279.55	2918.91	2929.28	1120.30	120.25	46.96	25.70	15.08	12339.06 MCM
Momentary Peak	1393.00	CMS. at 42.87 m. (MSL.) at 09.00 Hours , on Oct 10, 2011											
Runoff Yield	19.32	Liters/Second/Square KM.			Momentary Peak Yield			68.957	Liters/Second/Square KM.				

WATER YEAR : 2011**YOM RIVER BASIN****Yom River at Ban Sam Ngam , Phichit (Y.17)**

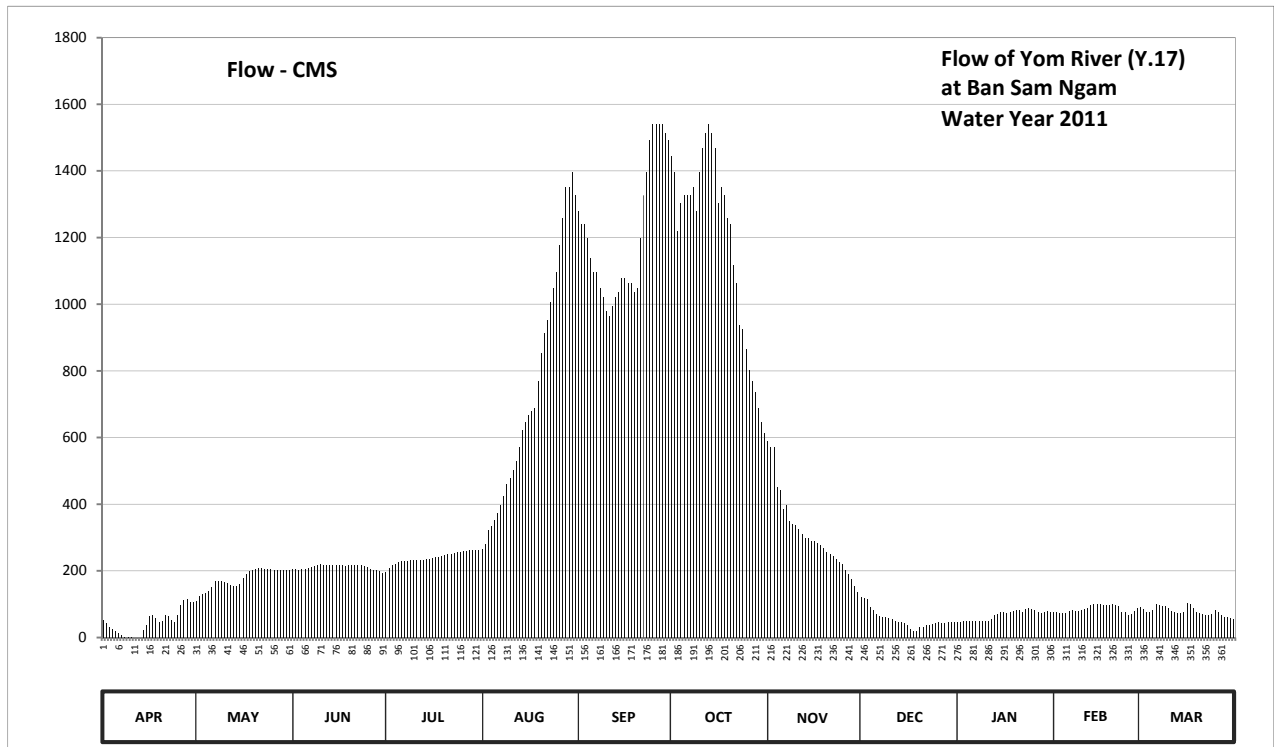
Lat 16 - 30 - 24 N Long 100 - 12 - 27 E

Location : on left bank at the bridge on highway from in front of Amphoe Sam Ngam office.

	Ban	Sam Ngam	Amphoe	Sam Ngam	Changwat	Phichit
Drainage Area	22,034	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+31.490	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 50 meters from Amphoe Sam Ngam Office.		Elevation	+40.506 m. (MSL.)		
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1967 to date					
Rating Operation						
Period of Rating	1967 , 1990 to date					
Rated by Flot	-					
Rated by Current Meter	1967 , 1990 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2011.					

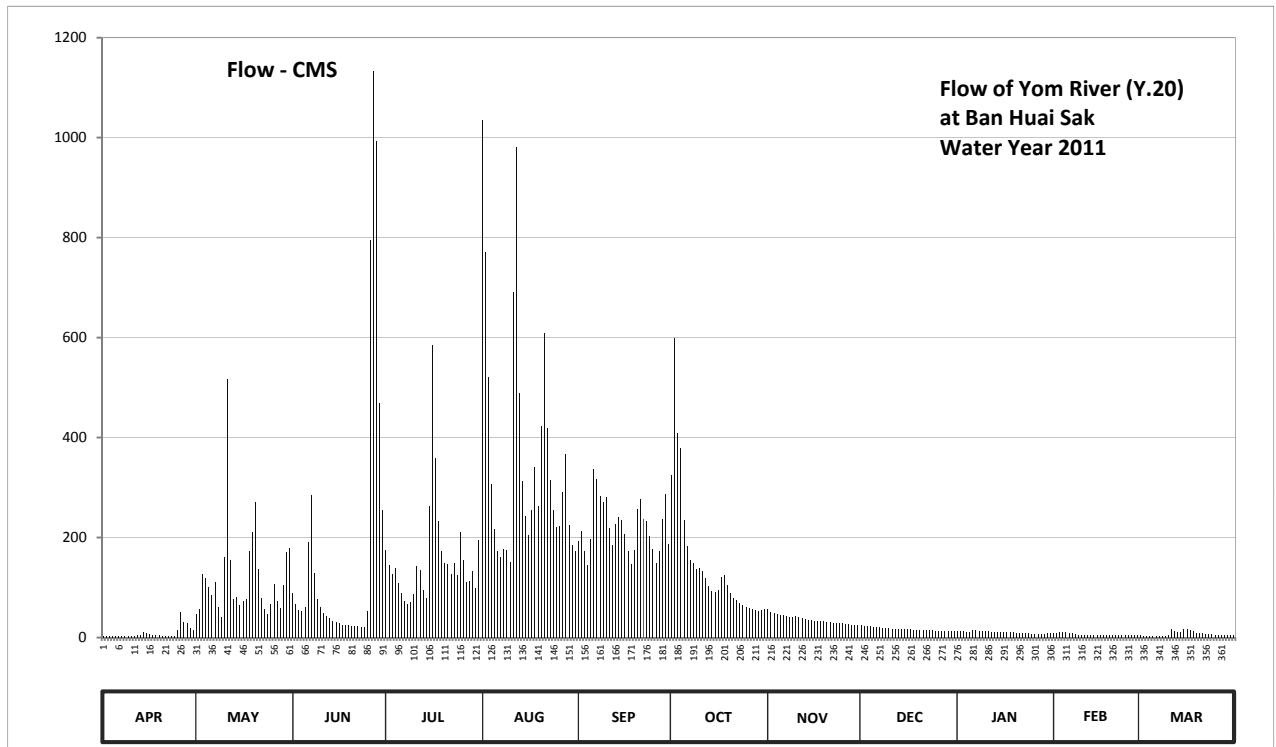
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.97	34.11	35.83	35.69	36.70	38.30	38.37	37.80	34.37	32.83	33.49	33.77	
2	32.81	34.40	35.82	35.88	36.90	38.28	38.35	37.78	34.31	32.84	33.49	33.68	
3	32.55	34.51	35.79	36.00	37.33	38.28	38.27	37.78	34.25	32.91	33.45	33.49	
4	32.37	34.59	35.85	36.08	37.41	38.26	38.31	37.64	33.78	32.92	33.40	33.50	
5	32.20	34.71	35.85	36.14	37.49	38.23	38.32	37.63	33.57	32.93	33.44	33.62	
6	32.11	34.89	35.86	36.18	37.53	38.21	38.32	37.55	33.33	32.93	33.51	33.95	
7	31.98	35.23	35.90	36.20	37.57	38.21	38.32	37.57	33.22	32.94	33.60	33.87	
8	31.92	35.24	35.95	36.21	37.61	38.18	38.33	37.48	33.17	32.95	33.56	33.84	
9	31.79	35.24	36.01	36.22	37.65	38.16	38.30	37.44	33.16	32.94	33.54	33.84	
10	31.67	35.16	36.05	36.23	37.67	38.13	38.35	37.42	33.09	32.93	33.60	33.70	
11	31.60	35.10	36.01	36.24	37.70	38.12	38.38	37.35	33.08	32.93	33.68	33.53	
12	31.54	35.02	36.01	36.24	37.73	38.14	38.40	37.24	32.94	33.08	33.71	33.47	
13	31.65	34.97	36.01	36.24	37.78	38.16	38.41	37.12	32.88	33.29	33.88	33.44	
14	32.29	34.98	36.01	36.26	37.83	38.17	38.40	37.10	32.84	33.35	33.94	33.45	
15	32.67	35.09	36.01	36.27	37.85	38.20	38.38	36.98	32.78	33.47	33.94	33.48	
16	33.22	35.38	36.01	36.31	37.87	38.20	38.31	37.01	32.64	33.46	33.94	34.03	
17	33.27	35.58	35.99	36.34	37.88	38.19	38.33	36.93	32.36	33.43	33.91	33.96	
18	33.09	35.75	35.98	36.37	37.89	38.19	38.32	36.84	32.25	33.49	33.89	33.71	
19	32.83	35.79	36.01	36.41	37.96	38.17	38.29	36.74	32.23	33.55	33.91	33.49	
20	32.93	35.85	36.01	36.44	38.03	38.18	38.28	36.56	32.52	33.61	33.94	33.43	
21	33.27	35.87	36.03	36.47	38.08	38.26	38.22	36.51	32.54	33.60	33.91	33.38	
22	33.25	35.87	36.03	36.51	38.11	38.32	38.19	36.42	32.65	33.49	33.83	33.32	
23	32.98	35.84	36.00	36.54	38.15	38.35	38.10	36.28	32.68	33.65	33.49	33.28	
24	32.85	35.83	35.96	36.57	38.18	38.39	38.09	36.13	32.74	33.71	33.47	33.36	
25	33.29	35.83	35.92	36.60	38.21	38.41	38.04	36.05	32.81	33.69	33.29	33.59	
26	33.89	35.78	35.84	36.61	38.25	38.41	37.99	35.79	32.83	33.62	33.37	33.48	
27	34.22	35.77	35.79	36.63	38.29	38.41	37.96	35.57	32.81	33.48	33.53	33.30	
28	34.27	35.79	35.76	36.64	38.33	38.41	37.93	35.35	32.81	33.45	33.74	33.21	
29	34.10	35.78	35.74	36.65	38.33	38.40	37.89	34.98	32.82	33.49	33.74	33.15	
30	34.08	35.77	35.65	36.66	38.35	38.39	37.85	34.63	32.84	33.56		33.09	
31		35.79		36.66	38.32		37.82		32.86	33.49		33.05	
Mean	32.79	35.34	35.92	36.34	37.84	38.26	38.22	36.79	33.01	33.29	33.66	33.53	
Max	34.27	35.87	36.05	36.66	38.35	38.41	38.41	37.80	34.37	33.71	33.94	34.03	38.41
Min	31.54	34.11	35.65	35.69	36.70	38.12	37.82	34.63	32.23	32.83	33.29	33.05	31.54
Annual Max Momentary Gage Height	38.42		m. (MSL.) ,			at 16.00 Hours , on Sep 25 , 2011							
Zero Gage at Bottom Elevation	31.49		m. (MSL.) ,		River Bed	29.81	m. (MSL)						
Left Bank Elevation	40.45		m. (MSL.) ,										
Right Bank Elevation	40.43		m. (MSL.) ,		Drainage Area	22034	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	51.70	108.00	205.50	196.60	266.00	1280.00	1444.50	590.00	121.80	45.40	77.00	91.00		
2	44.50	123.50	204.80	208.70	282.00	1239.40	1397.50	572.50	118.60	45.80	77.00	86.50		
3	32.70	129.50	202.90	216.50	322.50	1239.40	1219.10	572.50	115.20	49.00	75.00	77.00		
4	25.30	134.00	206.70	221.70	335.20	1198.80	1303.50	451.50	91.50	49.40	72.50	77.50		
5	18.50	140.50	206.70	225.80	352.80	1137.90	1327.00	443.00	81.00	49.90	74.50	83.50		
6	14.90	150.40	207.40	228.60	373.70	1097.30	1327.00	386.20	69.00	49.90	78.00	100.00		
7	6.30	169.20	210.00	230.00	398.80	1097.30	1327.00	398.80	63.50	50.30	82.50	96.00		
8	2.10	169.70	213.30	230.70	426.00	1049.00	1350.50	350.60	61.00	50.80	80.50	94.50		
9	0.50	169.70	217.10	231.40	460.00	1021.00	1280.00	341.80	60.50	50.30	79.50	94.50		
10	0.20	165.30	219.80	232.10	477.00	979.00	1397.50	337.40	57.10	49.90	82.50	87.50		
11	0.00	162.00	217.10	232.80	502.50	965.00	1468.00	325.50	56.60	49.90	86.50	79.00		
12	0.00	157.60	217.10	232.80	528.70	993.00	1515.00	310.80	50.30	56.60	88.00	76.00		
13	0.10	154.90	217.10	232.80	572.50	1021.00	1541.00	299.60	47.60	67.00	96.50	74.50		
14	22.10	155.40	217.10	234.20	623.00	1035.00	1515.00	298.00	45.80	70.00	99.50	75.00		
15	38.10	161.50	217.10	234.90	645.00	1077.00	1468.00	288.40	43.10	76.00	99.50	76.50		
16	63.50	177.80	217.10	237.70	667.00	1077.00	1303.50	290.80	36.80	75.50	99.50	104.00		
17	66.00	189.80	215.90	239.80	678.00	1063.00	1350.50	284.40	24.90	74.00	98.00	100.50		
18	57.10	200.40	215.20	241.90	689.00	1063.00	1327.00	277.20	20.50	77.00	97.00	88.00		
19	45.40	202.90	217.10	244.70	769.00	1035.00	1259.70	269.20	19.70	80.00	98.00	77.00		
20	49.90	206.70	217.10	246.80	851.60	1049.00	1239.40	255.20	31.40	83.00	99.50	74.00		
21	66.00	208.00	218.50	248.90	912.60	1198.80	1117.60	251.70	32.30	82.50	98.00	71.50		
22	65.00	208.00	218.50	251.70	951.00	1327.00	1063.00	245.40	37.30	77.00	94.00	68.50		
23	52.10	206.10	216.50	253.80	1007.00	1397.50	937.00	235.60	38.60	85.00	77.00	66.50		
24	46.20	205.50	213.90	255.90	1049.00	1491.50	924.80	225.10	41.30	88.00	76.00	70.50		
25	67.00	205.50	211.30	258.00	1097.30	1541.00	863.80	219.80	44.50	87.00	67.00	82.00		
26	97.00	202.20	206.10	258.80	1178.50	1541.00	803.50	202.90	45.40	83.50	71.00	76.50		
27	113.60	201.60	202.90	260.40	1259.70	1541.00	769.00	189.20	44.50	76.50	79.00	67.50		
28	116.30	202.90	201.00	261.20	1350.50	1541.00	734.50	176.00	44.50	75.00	89.50	63.00		
29	107.50	202.20	199.80	262.00	1350.50	1515.00	689.00	155.40	44.90	77.00	89.50	60.00		
30	106.50	201.60	194.10	262.80	1397.50	1491.50	645.00	136.20	45.80	80.50		57.10		
31		202.90		262.80	1327.00		612.00		46.70	77.00		55.30		
Total	1376.10	5475.30	6344.70	7436.80	23100.90	36302.40	36519.90	9380.70	1681.70	2088.70	2482.00	2450.90	134640.10	CMSDAY
Mean	45.90	176.60	211.50	239.90	745.20	1210.10	1178.10	312.70	54.20	67.40	85.60	79.10	367.90	CMS
Max	116.30	208.00	219.80	262.80	1397.50	1541.00	1541.00	590.00	121.80	88.00	99.50	104.00	1541.00	CMS
Min	0.00	108.00	194.10	196.60	266.00	965.00	612.00	136.20	19.70	45.40	67.00	55.30	0.00	CMS
Runoff	118.90	473.07	548.18	642.54	1995.92	3136.53	3155.32	810.49	145.30	180.46	214.44	211.76	11632.91	MCM
Momentary Peak	1566.99 CMS. at 38.42 m. (MSL) at 16.00 Hours , on Sep 25 , 2011													
Runoff Yield	16.70	Liters/Second/Square KM.			Momentary Peak Yield			71.117	Liters/Second/Square KM.					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011**YOM RIVER BASIN****Yom River at Ban Na Pla Kang , Sukhothai (Y.21)**

Lat 17 - 47 - 31 N Long 99 - 47 - 27 E

Location : on right bank at Ban Na Pla Kang.

	Ban	Na Pla Kang	Amphoe	Si Satchanalai	Changwat	Sukhothai
Drainage Area	310	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+114.456	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+119.519 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	115.57	115.96	115.67	115.66	118.50	115.93	115.75	115.61	115.42	115.37	115.59	115.62	
2	115.56	115.64	115.59	115.62	118.19	115.87	116.30	115.60	115.42	115.37	115.58	115.62	
3	115.56	115.54	115.56	115.88	117.18	116.17	117.21	115.59	115.42	115.37	115.58	115.62	
4	115.57	115.65	115.57	115.67	116.48	115.96	116.41	115.58	115.43	115.37	115.58	115.61	
5	115.57	115.76	115.55	115.87	116.12	115.83	116.64	115.57	115.43	115.37	115.58	115.61	
6	115.57	115.65	116.36	115.72	116.67	116.22	116.26	115.56	115.42	115.37	115.58	115.61	
7	115.57	115.65	116.14	115.66	116.25	115.94	116.04	115.56	115.42	115.36	115.58	115.61	
8	115.57	115.64	115.77	115.61	116.17	116.34	115.99	115.55	115.41	115.46	115.57	115.61	
9	115.57	115.62	115.70	115.67	116.46	116.47	115.93	115.54	115.42	115.61	115.57	115.62	
10	115.57	116.33	115.63	115.67	116.27	116.18	115.86	115.54	115.41	115.61	115.57	115.62	
11	115.57	116.03	115.60	115.85	116.58	116.01	115.82	115.53	115.41	115.60	115.56	115.63	
12	115.57	115.76	115.59	115.79	116.79	115.93	115.78	115.53	115.41	115.59	115.56	115.63	
13	116.39	115.66	115.57	115.71	116.39	116.86	116.67	115.52	115.40	115.58	115.55	115.63	
14	116.01	115.88	115.55	115.62	116.12	116.68	115.98	115.51	115.40	115.57	115.54	115.62	
15	115.62	115.77	115.52	115.79	116.22	117.10	116.39	115.50	115.40	115.57	115.52	115.62	
16	115.48	116.07	115.50	115.67	116.14	116.45	116.17	115.50	115.40	115.57	115.50	115.62	
17	115.47	115.81	115.49	115.64	116.05	116.21	115.95	115.49	115.39	115.57	115.51	115.61	
18	115.48	116.08	115.92	115.62	117.02	116.36	115.90	115.49	115.39	115.57	115.52	115.61	
19	115.50	116.14	115.69	115.61	116.52	116.55	115.84	115.49	115.39	115.57	115.53	115.61	
20	115.50	115.96	115.63	115.59	116.64	116.17	115.78	115.48	115.38	115.57	115.54	115.60	
21	115.50	115.74	115.61	115.63	116.35	116.03	115.81	115.48	115.38	115.57	115.54	115.60	
22	115.50	115.65	115.57	115.66	116.13	116.03	115.74	115.48	115.38	115.56	115.53	115.59	
23	115.51	115.60	115.58	115.65	115.99	116.00	115.72	115.47	115.38	115.56	115.53	115.58	
24	115.52	115.55	115.56	115.60	115.90	115.95	115.69	115.47	115.38	115.56	115.53	115.57	
25	115.53	115.51	115.62	115.61	115.84	115.88	115.68	115.46	115.38	115.56	115.53	115.56	
26	115.52	115.56	115.83	115.60	116.88	115.85	115.66	115.46	115.38	115.56	115.60	115.55	
27	115.51	115.58	115.96	115.72	117.04	115.82	115.65	115.45	115.38	115.56	115.61	115.54	
28	115.50	115.67	116.01	115.66	116.40	115.79	115.63	115.45	115.38	115.56	115.61	115.54	
29	115.50	115.63	115.83	115.63	116.12	115.91	115.61	115.44	115.37	115.57	115.62	115.53	
30	115.54	115.59	115.72	115.58	116.02	115.78	115.60	115.44	115.37	115.57		115.54	
31		115.60		116.27	115.89		115.63		115.37	115.58		115.54	
Mean	115.58	115.75	115.70	115.69	116.49	116.14	115.97	115.51	115.40	115.52	115.56	115.60	
Max	116.39	116.33	116.36	116.27	118.50	117.10	117.21	115.61	115.43	115.61	115.62	115.63	118.50
Min	115.47	115.51	115.49	115.58	115.84	115.78	115.60	115.44	115.37	115.36	115.50	115.53	115.36
Annual Max Momentary Gage Height	119.11		m. (MSL.) ,				at 06.00 Hours , on Aug 1 , 2011						
Zero Gage at Bottom Elevation	114.46		m. (MSL.) ,			River Bed	113.48	m. (MSL)					
Left Bank Elevation	119.80		m. (MSL.) ,										
Right Bank Elevation	119.83		m. (MSL.) ,			Drainage Area	310	Square Kilometers					

WATER YEAR : 2011**YOM RIVER BASIN****Nam Pi at Ban Mang , Phayao (Y.24)**

Lat 18 - 53 - 11 N Long 100 - 17 - 20 E

Location : on right bank upstream of the bridge from Pong Sanuk - Chiang Muan road.

	Ban Mang	Amphoe Chiang Muan	Changwat Phayao
Drainage Area	590 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+257.765 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	Elevation	+264.800 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings		
Period of Available Gage Records	1977 to date		
Rating Operation			
Period of Rating	1979 - 1986 , 1996 to date		
Rated by Flot	-		
Rated by Current Meter	1979 - 1986 , 1996 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The channel flow silted about 100 meters downstream from the gage site. Stage-discharge relation defined by 48 discharge measurements made in 2011.		

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.77	260.13	260.25	260.28	262.22	260.39	261.96	259.88	259.76	259.67	259.68	259.82	
2	259.81	260.25	260.15	260.20	261.67	260.34	261.82	259.88	259.76	259.67	259.68	259.82	
3	259.79	260.15	260.12	260.15	261.31	260.28	261.18	259.87	259.76	259.67	259.66	259.82	
4	259.79	260.20	260.20	260.11	260.84	260.23	260.82	259.87	259.74	259.67	259.67	259.83	
5	259.74	260.28	260.16	260.07	260.55	260.60	260.43	259.86	259.71	259.69	259.67	259.83	
6	259.74	260.28	262.03	260.05	260.39	260.88	260.26	259.87	259.70	259.72	259.68	259.83	
7	259.74	260.37	260.75	260.04	260.34	260.78	260.23	259.87	259.70	259.71	259.67	259.84	
8	259.70	260.30	260.43	260.00	260.36	260.61	260.26	259.86	259.68	259.71	259.66	259.83	
9	259.68	260.16	260.19	259.94	260.27	260.65	260.23	259.86	259.68	259.69	259.62	259.82	
10	259.68	260.51	260.15	259.92	260.22	260.57	260.20	259.88	259.69	259.68	259.62	259.82	
11	260.06	260.98	260.08	260.58	261.83	260.51	260.16	259.86	259.68	259.67	259.57	259.82	
12	260.02	260.43	259.99	260.20	261.38	260.41	260.11	259.86	259.69	259.66	259.57	259.82	
13	260.07	260.12	259.98	260.09	260.86	260.34	260.04	259.86	259.69	259.65	259.58	259.83	
14	260.02	260.09	259.95	260.04	260.54	260.38	260.06	259.86	259.70	259.66	259.57	259.85	
15	260.00	260.22	259.93	260.20	260.40	260.28	260.06	259.85	259.72	259.65	259.57	259.87	
16	259.95	260.22	259.92	260.47	260.32	260.26	259.88	259.85	259.75	259.63	259.57	259.86	
17	259.90	260.33	259.90	260.39	262.03	260.21	260.06	259.84	259.72	259.62	259.57	259.87	
18	259.86	260.68	259.88	260.22	261.41	259.94	260.06	259.84	259.71	259.62	259.57	259.84	
19	259.88	261.41	259.87	260.21	261.41	259.93	260.05	259.83	259.70	259.62	259.56	259.84	
20	259.92	261.07	259.86	260.15	262.10	260.30	260.01	259.82	259.70	259.62	259.53	259.84	
21	259.91	260.38	259.83	260.19	261.56	260.28	259.95	259.82	259.69	259.84	259.55	259.84	
22	259.87	260.21	259.80	260.16	261.27	260.27	259.93	259.81	259.67	259.84	259.61	259.84	
23	259.82	260.13	259.84	260.10	261.00	260.27	259.92	259.81	259.66	259.84	259.65	259.84	
24	259.81	260.07	259.85	260.31	260.95	260.39	259.92	259.80	259.67	259.84	259.72	259.84	
25	260.19	260.22	259.97	260.60	260.85	260.30	259.91	259.79	259.67	259.84	259.76	259.84	
26	260.11	260.31	262.96	260.24	260.72	260.24	259.92	259.78	259.67	259.83	259.80	259.83	
27	260.00	260.19	261.97	260.12	260.60	260.22	259.90	259.78	259.67	259.83	259.83	259.83	
28	259.91	260.44	261.40	260.36	260.49	260.23	259.89	259.77	259.67	259.83	259.82	259.83	
29	259.90	261.18	260.71	260.31	260.32	260.29	259.89	259.77	259.67	259.83	259.82	259.83	
30	259.92	260.61	260.42	260.16	260.45	260.25	259.89	259.76	259.67	259.82		259.82	
31		260.40		260.80	260.43		259.89		259.67	259.82		259.82	
Mean	259.89	260.40	260.35	260.21	260.94	260.35	260.22	259.84	259.70	259.72	259.65	259.83	
Max	260.19	261.41	262.96	260.80	262.22	260.88	261.96	259.88	259.76	259.84	259.83	259.87	262.96
Min	259.68	260.07	259.80	259.92	260.22	259.93	259.88	259.76	259.66	259.62	259.53	259.82	259.53
Annual Max Momentary Gage Height	263.30		m. (MSL.) ,			at 12.00 Hours , on Jun 26 , 2011							
Zero Gage at Bottom Elevation	257.77		m. (MSL.) ,		River Bed	255.80	m. (MSL)						
Left Bank Elevation			266.24		m. (MSL.) ,								
Right Bank Elevation		266.70		m. (MSL.) ,		Drainage Area	590	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.30	3.30	19.00	20.20	146.70	24.60	125.30	6.60	3.40	2.05	2.20	4.65	
2	3.30	6.90	15.37	17.00	102.10	22.60	114.10	6.60	3.40	2.05	2.20	4.65	
3	3.30	3.30	14.40	15.37	75.92	20.20	67.25	6.28	3.40	2.05	1.90	4.65	
4	3.30	3.30	17.00	14.07	47.20	18.20	46.10	6.28	3.10	2.05	2.05	4.97	
5	3.30	6.90	15.70	12.78	32.12	34.50	26.42	5.95	2.65	2.35	2.05	4.97	
6	3.30	6.90	130.97	12.12	24.60	49.40	19.40	6.28	2.50	2.80	2.20	4.97	
7	3.30	6.90	42.38	11.80	22.60	43.95	18.20	6.28	2.50	2.65	2.05	5.30	
8	3.30	6.90	26.42	10.50	23.40	35.02	19.40	5.95	2.20	2.65	1.90	4.97	
9	3.30	3.30	16.67	8.55	19.80	37.12	18.20	5.95	2.20	2.35	1.30	4.65	
10	3.30	30.23	15.37	7.90	17.80	33.08	17.00	6.60	2.35	2.20	1.30	4.65	
11	3.30	54.90	13.10	33.55	114.90	30.23	15.70	5.95	2.20	2.05	0.85	4.65	
12	3.30	26.42	10.17	17.00	80.65	25.48	14.07	5.95	2.35	1.90	0.85	4.65	
13	3.30	14.40	9.85	13.42	48.30	22.60	11.80	5.95	2.35	1.75	0.90	4.97	
14	3.30	13.42	8.88	11.80	31.65	24.20	12.45	5.95	2.50	1.90	0.85	5.63	
15	3.30	17.80	8.22	17.00	25.00	20.20	12.45	5.63	2.80	1.75	0.85	6.28	
16	3.30	17.80	7.90	28.33	21.80	19.40	6.60	5.63	3.25	1.45	0.85	5.95	
17	3.30	22.20	7.25	24.60	130.97	17.40	12.45	5.30	2.80	1.30	0.85	6.28	
18	3.30	38.70	6.60	17.80	82.73	8.55	12.45	5.30	2.65	1.30	0.85	5.30	
19	3.30	82.73	6.28	17.40	82.73	8.22	12.12	4.97	2.50	1.30	0.80	5.30	
20	3.30	60.38	5.95	15.37	136.75	21.00	10.83	4.65	2.50	1.30	0.65	5.30	
21	3.30	24.20	4.97	16.67	93.60	20.20	8.88	4.65	2.35	5.30	0.75	5.30	
22	3.30	17.40	4.00	15.70	73.22	19.80	8.22	4.33	2.05	5.30	1.15	5.30	
23	3.30	14.72	5.30	13.75	56.00	19.80	7.90	4.33	1.90	5.30	1.75	5.30	
24	3.30	12.78	5.63	21.40	53.25	24.60	7.90	4.00	2.05	5.30	2.80	5.30	
25	3.30	17.80	9.53	34.50	47.75	21.00	7.58	3.85	2.05	5.30	3.40	5.30	
26	3.30	21.40	212.40	18.60	40.80	18.60	7.90	3.70	2.05	4.97	4.00	4.97	
27	3.30	16.67	126.10	14.40	34.50	17.80	7.25	3.70	2.05	4.97	4.97	4.97	
28	3.30	26.90	82.00	23.40	29.27	18.20	6.93	3.55	2.05	4.97	4.65	4.97	
29	3.30	67.25	40.27	21.40	21.80	20.60	6.93	3.55	2.05	4.97	4.65	4.97	
30	3.30	35.02	25.95	15.70	27.38	19.00	6.93	3.40	2.05	4.65		4.65	
31		25.00		45.00	26.42		6.93		2.05	4.65		4.65	
Total	99.00	705.82	913.63	567.08	1771.71	715.55	67						

WATER YEAR : 2011

YOM RIVER BASIN

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

Lat 17 - 19 - 37 N Long 99 - 27 - 42 E

Location : on left bank downstream from Ban Mae Phu Tambon Wiang Mok.

	Ban	Mae Phu	Amphoe	Thoen	Changwat	Lampang
Drainage Area	784	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+100.380	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	In front of gage observer's house.				Elevation	+108.338 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1979 to date					
Rating Operation						
Period of Rating	1979 to date					
Rated by Flot	-					
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 17 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011

YOM RIVER BASIN

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

Lat 18 - 42 - 29 N Long 99 - 57 - 40 E

Location : on right bank at the bridge on highway.

	Ban	Pong	Amphoe	Ngao	Changwat	Lampang
Drainage Area	325	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+265.630	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 25 meters from the top staff gage.				Elevation	+271.053 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1983 to date					
Rated by Flot	-					
Rated by Current Meter	1983 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. The carcass of the bridge is near the gage site.					
	Stage-discharge relation defined by 48 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011

YOM RIVER BASIN

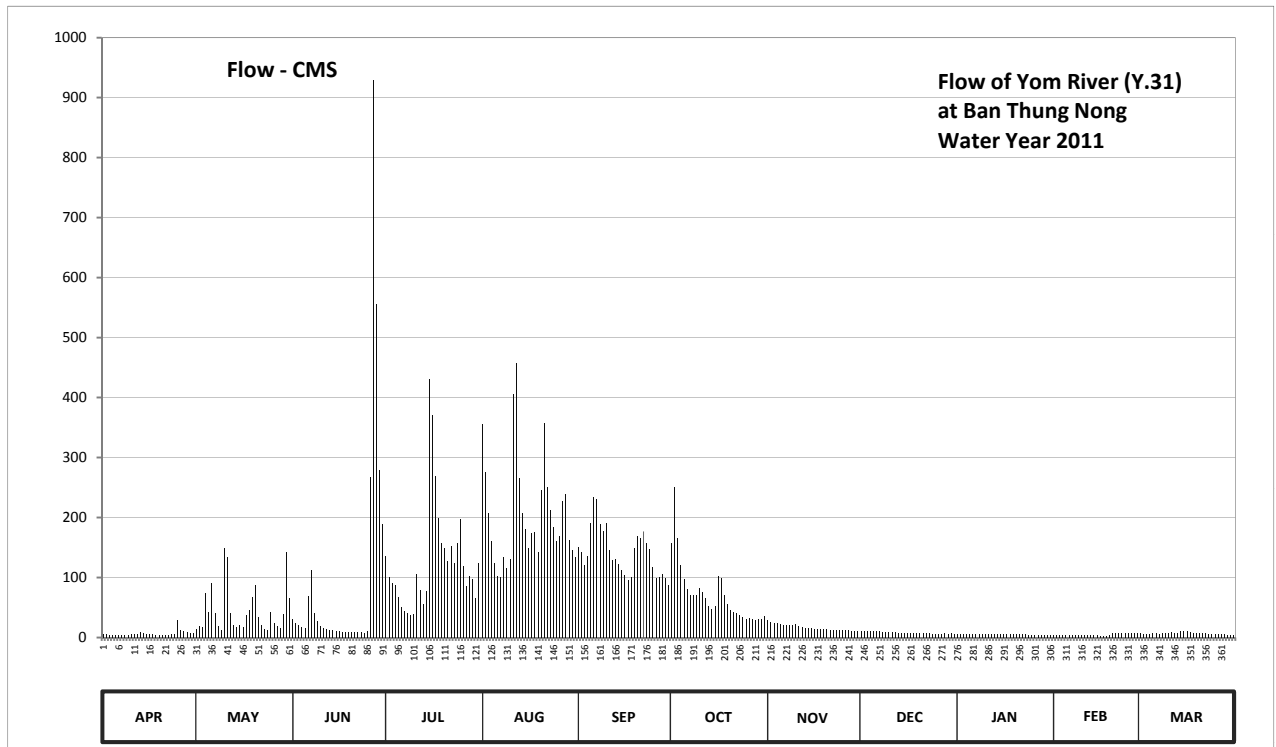
Yom River at Ban Thung Nong , Phayao (Y.31)

Lat 18 - 57 - 28 N Long 100 - 15 - 58 E

Location : on right bank downstream of the bridge of Pong - Chiang Muan road.

	Ban	Thung Nong	Amphoe	Chiang Muan	Changwat	Phayao
Drainage Area	1,981	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+257.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 5 meters from the top staff gage.				Elevation	+266.960 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Flow effected by the islet about 200 meters downstream from the gage site.					
	Stage-discharge relation defined by 48 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011

YOM RIVER BASIN

Yom River at Ban Khlong Tan , Sukhothai (Y.33)

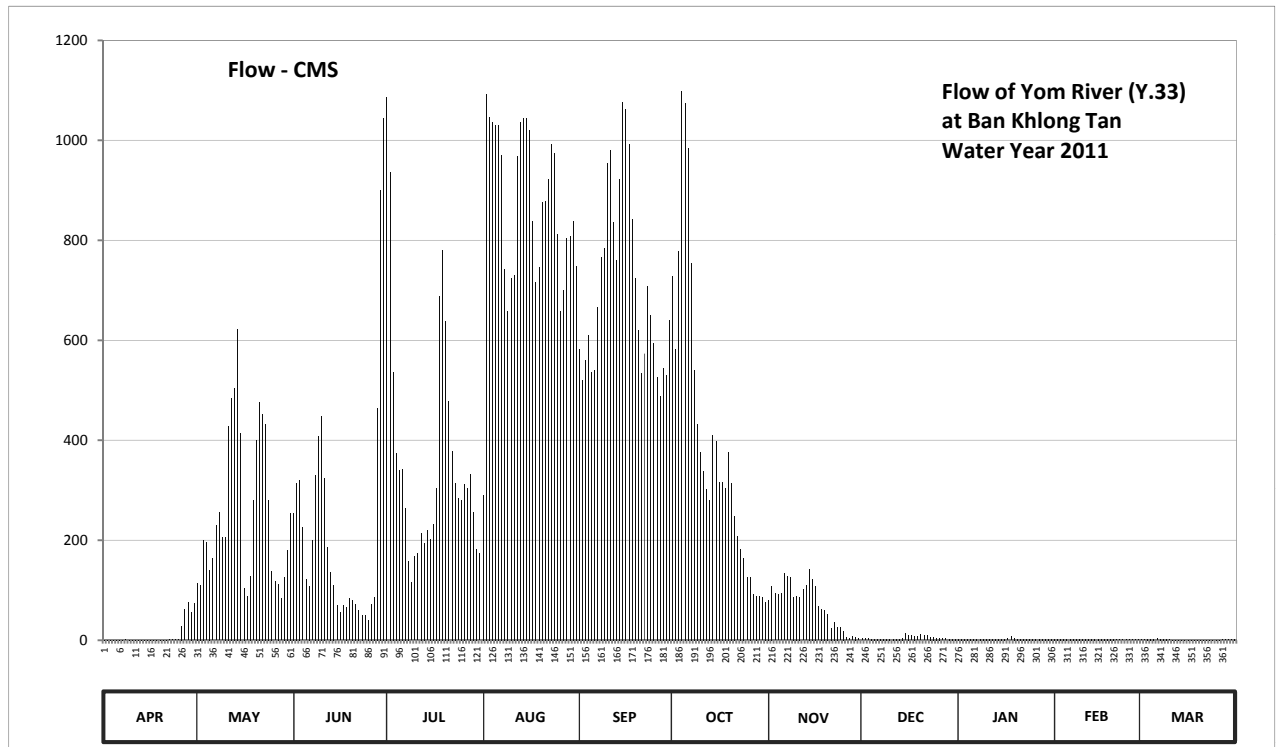
Lat 17 - 10 - 06 N Long 99 - 51 - 52 E

Location : on left bank at the bridge on road from Tambon Khlong Tan.

	Ban	Khlong Tan	Amphoe	Si Samrong	Changwat	Sukhothai
Drainage Area	13,948	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+45.820	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 20.30 meters from the top staff gage.				Elevation	+56.820 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1990 to date					
Rating Operation						
Period of Rating	1990 to date					
Rated by Flot	-					
Rated by Current Meter	1990 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation + 55.350 m. (MSL), records are channel flow only.					
General Description	Records fair. Flow effected by the temporary weir about 500 meters downstream from the gage site. Stage-discharge relation defined by 19 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	46.78	49.37	51.16	57.05	51.52	53.90	54.90	48.76	48.70	48.62	48.57	47.63	
2	46.71	49.31	51.76	56.20	57.08	53.45	53.89	49.27	48.73	48.61	48.48	47.85	
3	46.58	50.58	51.80	53.56	56.83	53.73	55.23	49.03	48.69	48.56	48.49	48.19	
4	46.44	50.52	50.86	52.28	56.77	54.10	57.11	48.99	48.64	48.55	48.49	48.36	
5	46.59	49.77	49.50	52.00	56.74	53.57	56.98	49.02	48.52	48.54	48.48	48.53	
6	46.73	50.09	49.27	52.01	56.74	53.59	56.48	49.66	48.50	48.48	48.45	48.71	
7	46.84	50.91	50.57	51.27	56.40	54.49	55.07	49.58	48.56	48.42	48.33	48.61	
8	47.71	51.17	51.91	50.03	55.00	55.16	53.59	49.55	48.54	48.40	48.28	48.57	
9	46.75	50.64	52.57	49.39	54.44	55.28	52.76	48.90	48.53	48.37	48.27	48.56	
10	46.73	50.65	52.90	50.15	54.87	56.30	52.31	48.94	48.43	48.36	48.28	48.05	
11	46.70	52.73	51.84	50.24	54.91	56.45	51.98	48.90	48.42	48.33	48.27	47.08	
12	46.84	53.18	50.40	50.74	56.39	55.61	51.64	49.16	48.42	48.31	48.25	47.05	
13	46.99	53.34	49.71	50.51	56.77	55.11	51.43	49.29	48.47	48.28	48.22	47.02	
14	46.92	54.18	49.30	50.80	56.81	56.12	52.58	49.79	48.78	48.23	48.20	47.02	
15	46.92	52.62	48.55	50.61	56.81	56.99	52.49	49.51	48.96	48.21	48.17	47.02	
16	46.81	49.21	48.26	50.94	56.68	56.91	51.78	49.28	48.93	48.42	48.16	47.02	
17	47.06	48.91	48.55	51.67	55.62	56.52	51.77	49.30	48.91	48.71	48.15	47.02	
18	47.16	49.60	48.49	54.64	54.82	55.64	51.66	49.28	48.89	48.88	48.13	47.00	
19	47.03	51.41	48.83	55.25	55.02	54.88	52.31	49.27	48.87	48.78	48.11	47.00	
20	47.16	52.51	48.78	54.29	55.84	54.17	51.76	49.23	48.94	48.60	48.10	46.98	
21	47.13	53.13	48.62	53.14	55.86	53.55	51.10	49.06	48.91	48.51	48.03	46.95	
22	47.34	52.93	48.37	52.32	56.12	53.83	50.66	49.14	48.91	48.49	47.91	46.96	
23	47.59	52.77	48.13	51.76	56.53	54.77	50.35	49.08	48.84	48.48	47.80	47.08	
24	47.34	51.43	48.12	51.46	56.42	54.38	50.10	49.07	48.84	48.42	47.77	47.21	
25	47.55	49.73	47.90	51.42	55.45	53.98	49.55	49.02	48.79	48.40	47.70	47.22	
26	47.58	49.43	48.60	51.73	54.44	53.50	49.57	48.82	48.77	48.58	47.61	47.22	
27	48.39	49.34	48.89	51.65	54.72	53.22	48.99	48.74	48.72	48.52	47.55	47.29	
28	48.66	48.83	53.03	51.92	55.40	53.62	48.92	48.87	48.68	48.35	47.51	47.54	
29	48.29	49.57	55.98	51.19	55.42	53.52	48.91	48.83	48.66	48.30	47.43	47.83	
30	48.64	50.33	56.82	50.36	55.62	54.31	48.87	48.69	48.62				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	114.20	254.00	1087.00	290.00	583.00	728.00	80.00	3.00	2.80	2.70	1.40		
2	0.50	110.60	314.60	937.00	1092.40	520.00	581.60	108.20	3.50	2.80	2.60	1.60		
3	0.40	200.40	319.00	535.40	1047.40	559.20	777.50	93.80	3.00	2.70	2.60	2.10		
4	0.20	195.60	225.40	373.60	1036.60	611.00	1097.80	91.50	2.80	2.70	2.60	2.40		
5	0.40	140.90	122.00	341.00	1031.20	536.80	1074.40	93.20	2.60	2.70	2.60	2.60		
6	0.50	163.30	108.20	342.10	1031.20	539.60	984.60	133.20	2.60	2.60	2.50	3.20		
7	0.60	229.90	199.60	265.00	971.00	666.50	753.50	127.60	2.70	2.50	2.30	2.80		
8	1.50	255.00	331.10	159.10	743.00	767.00	539.60	125.50	2.70	2.50	2.30	2.70		
9	0.50	205.60	408.40	115.40	659.00	785.00	431.20	87.00	2.60	2.40	2.30	2.70		
10	0.50	206.50	448.00	167.50	723.50	954.00	377.20	89.00	2.50	2.40	2.30	1.90		
11	0.50	427.60	323.40	173.80	729.50	979.50	338.80	87.00	2.50	2.30	2.30	0.90		
12	0.60	483.40	186.00	214.60	969.30	837.60	302.00	101.60	2.50	2.30	2.20	0.80		
13	0.80	504.60	136.70	194.80	1036.60	759.50	281.00	109.40	2.60	2.30	2.20	0.80		
14	0.70	622.20	110.00	220.00	1043.80	923.40	409.60	142.30	4.40	2.20	2.20	0.80		
15	0.70	414.40	69.50	202.90	1043.80	1076.20	398.80	122.70	13.00	2.20	2.10	0.80		
16	0.60	104.60	55.40	232.60	1020.40	1061.80	316.80	108.80	10.70	2.50	2.10	0.80		
17	0.90	87.50	69.50	305.00	839.20	991.60	315.70	67.00	9.20	3.20	2.10	0.80		
18	1.00	129.00	66.50	689.00	716.00	842.40	304.00	62.90	8.00	7.70	2.00	0.80		
19	0.80	279.00	83.50	780.50	746.00	725.00	377.20	60.90	7.30	4.40	2.00	0.80		
20	1.00	401.20	81.00	637.60	875.80	620.80	314.60	52.80	11.40	2.70	2.00	0.80		
21	0.90	476.90	73.00	478.20	879.20	534.00	248.00	23.80	9.20	2.60	1.90	0.70		
22	1.10	451.60	60.50	378.40	923.40	573.20	207.40	36.10	9.20	2.60	1.70	0.80		
23	1.40	432.40	50.20	314.60	993.40	708.50	182.00	26.40	6.20	2.60	1.60	0.90		
24	1.10	281.00	49.80	284.00	974.40	650.20	164.00	25.10	6.20	2.50	1.60	1.00		
25	1.30	138.10	41.00	280.00	812.00	594.20	125.50	18.60	4.60	2.50	1.50	1.00		
26	28.20	117.80	72.00	311.30	659.00	527.00	126.90	5.50	4.30	2.70	1.40	1.00		
27	61.50	112.40	86.50	303.00	701.00	488.60	91.50	3.70	3.40	2.60	1.30	1.10		
28	75.00	83.50	463.90	332.20	804.00	543.80	88.00	7.30	3.00	2.40	1.30	1.30		
29	56.60	126.90	899.60	257.00	807.20	529.80	87.50	5.90	2.90	2.30	1.20	1.60		
30	74.00	180.40	1045.60	182.80	839.20	640.40	85.50	3.00	2.80	2.30		1.90		
31		254.00		173.10	747.50		76.50		2.80	2.60		2.20		
Total	314.40	7930.50	6753.90	11268.50	26786.00	21129.60	12186.70	2099.80	154.20	85.60	59.50	45.00	88813.70	CMSDAY
Mean	10.50	255.80	225.10	363.50	864.10	704.30	393.10	70.00	5.00	2.80	2.10	1.50	242.70	CMS
Max	75.00	622.20	1045.60	1087.00	1092.40	1076.20	1097.80	142.30	13.00	7.70	2.70	3.20	1097.80	CMS
Min	0.20	83.50	41.00	115.40	290.00	488.60	76.50	3.00	2.50	2.20	1.20	0.70	0.20	CMS
Runoff	27.16	685.20	583.54	973.60	2314.31	1825.60	1052.93	181.42	13.32	7.40	5.14	3.89	7673.50	MCM
Momentary Peak	1105.00 CMS. at 57.15 m. (MSL.) at 15.00 Hours , on Aug 2 , 2011													
Runoff Yield	17.40	Liters/Second/Square KM.			Momentary Peak Yield			79.223	Liters/Second/Square KM.					

WATER YEAR : 2011

YOM RIVER BASIN

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

Lat 18 - 12 - 59 N Long 100 - 12 - 36 E

Location : on left bank at the bridge on highway.

	Ban	Mae Lai	Amphoe	Mueang	Changwat	Phrae
Drainage Area	336	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+157.270	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 10 meters from the top staff gage.				Elevation	+167.293 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Fairly stable because of bakwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Flow effected by the temporary weir about 300 meters downstream from the gage site.					
	Stage-discharge relation defined by 46 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.21	159.20	159.19	159.31	160.44	159.40	159.39	159.25	159.21	159.20	159.18	159.17	
2	159.21	159.20	159.19	159.34	159.95	159.67	159.50	159.23	159.21	159.20	159.18	159.17	
3	159.21	159.26	159.20	159.37	159.82	159.57	159.59	159.24	159.21	159.20	159.18	159.17	
4	159.20	159.23	159.27	159.38	159.63	159.47	159.50	159.25	159.21	159.20	159.18	159.17	
5	159.21	159.27	159.27	159.34	159.48	159.48	159.45	159.19	159.21	159.20	159.20	159.17	
6	159.21	159.25	159.29	159.32	159.50	159.78	159.44	159.09	159.21	159.20	159.20	159.17	
7	159.21	159.22	159.28	159.31	159.54	159.76	159.39	159.15	159.21	159.20	159.20	159.17	
8	159.21	159.23	159.27	159.30	159.91	159.71	159.37	159.25	159.20	159.20	159.20	159.17	
9	159.21	159.23	159.26	159.30	159.67	159.66	159.37	159.22	159.20	159.20	159.19	159.17	
10	159.22	159.26	159.25	159.30	159.53	159.63	159.34	159.24	159.20	159.20	159.19	159.17	
11	159.18	159.42	159.23	159.29	160.00	159.59	159.32	159.34	159.20	159.20	159.19	159.17	
12	159.19	159.30	159.23	159.30	159.87	159.56	159.31	159.26	159.20	159.20	159.19	159.17	
13	159.19	159.26	159.21	159.29	159.67	159.71	159.38	159.25	159.20	159.20	159.19	159.21	
14	159.19	159.24	159.19	159.29	159.58	159.78	159.38	159.24	159.20	159.20	159.19	159.27	
15	159.19	159.23	159.19	159.32	159.53	159.76	159.36	159.24	159.20	159.20	159.18	159.27	
16	159.19	159.23	159.20	159.37	159.50	159.64	159.47	159.24	159.20	159.20	159.19	159.27	
17	159.18	159.23	159.21	159.30	159.45	159.55	159.38	159.23	159.20	159.20	159.17	159.27	
18	159.19	159.24	159.21	159.30	159.55	159.44	159.37	159.23	159.20	159.19	159.17	159.27	
19	159.19	159.24	159.27	159.29	159.45	159.39	159.35	159.22	159.20	159.19	159.17	159.27	
20	159.19	159.24	159.26	159.30	159.53	159.43	159.31	159.22	159.20	159.19	159.17	159.27	
21	159.19	159.24	159.22	159.31	159.50	159.48	159.27	159.22	159.20	159.20	159.17	159.27	
22	159.18	159.23	159.22	159.30	159.49	159.43	159.27	159.22	159.20	159.20	159.17	159.27	
23	159.18	159.22	159.21	159.31	159.45	159.39	159.27	159.22	159.20	159.20	159.17	159.22	
24	159.21	159.22	159.21	159.32	159.41	159.45	159.27	159.22	159.20	159.20	159.17	159.22	
25	159.26	159.21	159.30	159.36	159.39	159.37	159.27	159.22	159.20	159.20	159.17	159.22	
26	159.24	159.19	160.00	159.33	159.42	159.37	159.25	159.22	159.20	159.20	159.17	159.17	
27	159.21	159.20	159.65	159.31	159.81	159.38	159.21	159.22	159.20	159.20	159.17	159.17	
28	159.20	159.22	159.43	159									

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.22	1.00	1.85	5.95	132.00	10.00	9.55	3.75	1.22	1.00	0.86	0.79	
2	1.22	1.00	1.85	7.30	59.00	29.80	16.00	3.05	1.22	1.00	0.86	0.79	
3	1.22	4.10	2.00	8.65	44.20	21.25	22.75	3.40	1.22	1.00	0.86	0.79	
4	1.00	3.05	4.45	9.10	26.20	14.20	16.00	3.75	1.22	1.00	0.86	0.79	
5	1.22	4.45	4.45	7.30	14.80	14.80	13.00	1.85	1.22	1.00	1.00	0.79	
6	1.22	3.75	5.15	6.40	16.00	40.10	12.40	0.45	1.22	1.00	1.00	0.79	
7	1.22	2.70	4.80	5.95	19.00	38.20	9.55	0.65	1.22	1.00	1.00	0.79	
8	1.22	3.05	4.45	5.50	54.20	33.45	8.65	2.10	1.00	1.00	1.00	0.79	
9	1.22	3.05	4.10	5.50	29.80	28.90	8.65	1.44	1.00	1.00	0.93	0.79	
10	1.44	4.10	3.75	5.50	18.25	26.20	7.30	1.88	1.00	1.00	0.93	0.79	
11	0.86	11.20	3.05	5.15	65.00	22.75	6.40	5.12	1.00	1.00	0.93	0.79	
12	0.93	5.50	3.05	5.50	49.70	20.50	5.95	2.32	1.00	1.00	0.93	0.79	
13	0.93	4.10	2.35	5.15	29.80	33.45	9.10	2.10	1.00	1.00	0.93	1.22	
14	0.93	3.40	1.85	5.15	22.00	40.10	9.10	1.88	1.00	1.00	0.93	2.54	
15	0.93	3.05	1.85	6.40	18.25	38.20	8.20	1.88	1.00	1.00	0.86	2.54	
16	0.93	3.05	2.00	8.65	16.00	27.10	14.20	1.88	1.00	1.00	0.93	2.54	
17	0.86	3.05	2.35	5.50	13.00	19.75	9.10	1.66	1.00	1.00	0.79	2.54	
18	0.93	3.40	2.35	5.50	19.75	12.40	8.65	1.66	1.00	0.93	0.79	2.54	
19	0.93	3.40	4.45	5.15	13.00	9.55	7.75	1.44	1.00	0.93	0.79	2.54	
20	0.93	3.40	4.10	5.50	18.25	11.80	5.95	1.44	1.00	0.93	0.79	2.54	
21	0.93	3.40	2.70	5.95	16.00	14.80	4.45	1.44	1.00	1.00	0.79	2.54	
22	0.86	3.05	2.70	5.50	15.40	11.80	4.45	1.44	1.00	1.00	0.79	2.54	
23	0.86	2.70	2.35	5.95	13.00	9.55	4.45	1.44	1.00	1.00	0.79	1.44	
24	1.22	2.70	2.35	6.40	10.60	13.00	4.45	1.44	1.00	1.00	0.79	1.44	
25	2.32	2.35	5.50	8.20	9.55	8.65	4.45	1.44	1.00	1.00	0.79	1.44	
26	1.88	1.85	65.00	6.85	11.20	8.65	3.75	1.44	1.00	1.00	0.79	0.79	
27	1.22	2.00	28.00	5.95	43.10	9.10	2.35	1.44	1.00	1.00	0.79	0.79	
28	1.00	2.70	11.80	5.95	24.40	10.60	1.55	1.44	1.00	0.93	0.79	0.79	
29	1.00	2.00	4.45	5.95	15.40	8.65	1.70	1.22	1.00	0.93	0.79	0.65	
30	1.44	2.00	3.75	5.50	12.40	10.00	3.75	1.22	1.00	0.93		0.65	
31		1.85		105.80	11.20		3.75		1.00	0.93		0.65	
Total	34.09	100.40	192.85	292.80	860.45	597.30	247.35	57.66	32.54	30.51	25.08	42.20</	

WATER YEAR : 2011

YOM RIVER BASIN

Nam Khuan at Ban Pa Kha , Phayao (Y.36)

Lat 19 - 09 - 24 N Long 100 - 19 - 36 E

Location : on left bank at the bridge.

	Ban	Pa Kha	Amphoe	Pong	Changwat	Phayao
Drainage Area	853	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+298.568	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 20 meters from the abutment of the bridge.				Elevation	+307.764 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1998 to date					
Rating Operation						
Period of Rating	1998 to date					
Rated by Flot	-					
Rated by Current Meter	1998 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by the islet at the gage site.					
	Stage-discharge relation defined by 47 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	300.32	300.41	300.64	301.41	302.62	302.02	302.16	300.93	300.56	300.49	300.32	300.19	
2	300.32	300.39	300.59	301.29	302.34	301.84	302.13	300.89	300.56	300.49	300.27	300.21	
3	300.32	300.40	300.59	301.26	301.98	301.73	301.76	300.89	300.55	300.49	300.24	300.30	
4	300.30	300.47	300.59	301.18	301.74	302.04	301.57	300.89	300.55	300.45	300.24	300.35	
5	300.30	300.51	300.58	301.07	301.56	302.47	301.46	300.89	300.54	300.41	300.33	300.40	
6	300.29	300.68	300.99	300.99	301.47	302.31	301.39	300.89	300.53	300.35	300.38	300.47	
7	300.29	300.64	301.08	300.96	301.49	302.23	301.35	300.87	300.52	300.35	300.38	300.49	
8	300.29	300.48	300.76	300.84	301.94	302.05	301.29	300.87	300.49	300.34	300.39	300.49	
9	300.30	300.46	300.67	300.79	301.44	302.17	301.29	300.86	300.46	300.34	300.39	300.46	
10	300.37	300.46	300.66	300.79	301.77	302.02	301.29	300.77	300.44	300.34	300.39	300.46	
11	300.36	300.75	300.56	301.25	303.12	301.86	301.29	300.74	300.43	300.37	300.38	300.44	
12	300.38	300.61	300.49	301.02	302.69	301.85	301.26	300.73	300.39	300.37	300.37	300.46	
13	300.38	300.44	300.49	300.97	302.23	301.73	301.16	300.69	300.33	300.39	300.37	300.53	
14	300.37	300.36	300.49	301.72	301.96	301.68	301.14	300.69	300.28	300.37	300.35	300.58	
15	300.37	300.41	300.43	302.84	301.87	301.59	301.19	300.69	300.25	300.35	300.26	300.57	
16	300.37	300.39	300.34	302.79	301.68	301.57	301.47	300.69	300.34	300.34	300.19	300.59	
17	300.32	300.43	300.34	302.35	301.95	301.48	301.23	300.69	300.41	300.33	300.19	300.59	
18	300.31	300.52	300.32	301.99	301.74	301.55	301.09	300.66	300.39	300.31	300.19	300.59	
19	300.29	300.59	300.29	301.75	301.58	301.74	301.09	300.64	300.39	300.30	300.19	300.57	
20	300.30	300.66	300.29	301.56	302.40	301.69	301.09	300.64	300.39	300.31	300.19	300.57	
21	300.27	300.45	300.29	301.44	302.76	301.69	301.09	300.59	300.40	300.39	300.19	300.53	
22	300.27	300.37	300.29	301.39	302.47	301.84	301.08	300.59	300.41	300.39	300.19	300.52	
23	300.29	300.32	300.29	301.35	302.16	301.68	301.03	300.59	300.43	300.39	300.19	300.50	
24	300.30	300.31	300.31	301.91	302.03	301.72	300.99	300.59	300.44	300.39	300.19	300.49	
25	300.42	300.40	300.41	301.62	301.89	301.58	300.99	300.59	300.46	300.39	300.19	300.49	
26	300.41	300.74	303.78	301.42	301.86	301.45	300.97	300.59	300.50	300.39	300.19	300.48	
27	300.39	300.76	304.04	301.29	302.43	301.53	300.96	300.58	300.49	300.39	300.19	300.48	
28	300.37	300.80	304.10	301									

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.80	4.20	9.20	40.55	133.00	79.60	90.80	17.90	7.20	5.80	2.80	0.95	
2	2.80	3.85	7.80	33.95	106.60	66.80	88.40	16.70	7.20	5.80	2.05	1.15	
3	2.80	4.00	7.80	32.30	76.60	59.45	61.40	16.70	7.00	5.80	1.60	2.50	
4	2.50	5.40	7.80	28.10	60.10	81.20	49.35	16.70	7.00	5.00	1.60	3.25	
5	2.50	6.20	7.60	23.15	48.80	118.65	43.30	16.70	6.80	4.20	2.95	4.00	
6	2.35	10.40	19.70	19.70	43.85	103.90	39.45	16.70	6.60	3.25	3.70	5.40	
7	2.35	9.20	23.60	18.80	44.95	96.70	37.25	16.10	6.40	3.25	3.70	5.80	
8	2.35	5.60	12.80	15.20	73.80	82.00	33.95	16.10	5.80	3.10	3.85	5.80	
9	2.50	5.20	10.10	13.70	42.20	91.60	33.95	15.80	5.20	3.10	3.85	5.20	
10	3.55	5.20	9.80	13.70	62.05	79.60	33.95	13.10	4.80	3.10	3.85	5.20	
11	3.40	12.50	7.20	31.75	188.40	68.20	33.95	12.20	4.60	3.55	3.70	4.80	
12	3.70	8.30	5.80	20.90	140.00	67.50	32.30	11.90	3.85	3.55	3.55	5.20	
13	3.70	4.80	5.80	19.10	96.70	59.45	27.20	10.70	2.95	3.85	3.55	6.60	
14	3.55	3.40	5.80	58.80	75.20	56.20	26.30	10.70	2.20	3.55	3.25	7.60	
15	3.55	4.20	4.60	155.60	68.90	50.45	28.55	10.70	1.75	3.25	1.90	7.40	
16	3.55	3.85	3.10	150.00	56.20	49.35	43.85	10.70	3.10	3.10	0.95	7.80	
17	2.80	4.60	3.10	107.50	74.50	44.40	30.65	10.70	4.20	2.95	0.95	7.80	
18	2.65	6.40	2.80	77.30	60.10	48.25	24.05	9.80	3.85	2.65	0.95	7.80	
19	2.35	7.80	2.35	60.75	49.90	60.10	24.05	9.20	3.85	2.50	0.95	7.40	
20	2.50	9.80	2.35	48.80	112.00	56.85	24.05	9.20	3.85	2.65	0.95	7.40	
21	2.05	5.00	2.35	42.20	147.00	56.85	24.05	7.80	4.00	3.85	0.95	6.60	
22	2.05	3.55	2.35	39.45	118.65	66.80	23.60	7.80	4.20	3.85	0.95	6.40	
23	2.35	2.80	2.35	37.25	90.80	56.20	21.35	7.80	4.60	3.85	0.95	6.00	
24	2.50	2.65	2.65	71.70	80.40	58.80	19.70	7.80	4.80	3.85	0.95	5.80	
25	4.40	4.00	4.20	52.30	70.30	49.90	19.70	7.80	5.20	3.85	0.95	5.80	
26	4.20	12.20	275.20	41.10	68.20	42.75	19.10	7.80	6.00	3.85	0.95	5.60	
27	3.85	12.80	314.00	33.95	114.85	47.15	18.80	7.60	5.80	3.85	0.95	5.60	
28	3.55	14.00	323.00	33.95	90.80	46.05	18.80	7.60	5.80	3.85	0.95	5.60	
29	3.55	17.00	146.00	33.40	67.50	42.20	18.80	7.40	5.80	3.85	0.95	5.40	
30	3.40	17.00	58.15	30.65	88.40	37.80	19.70	7.20	5.80	3.85		5.40	
31		14.00		33.40	70.30		19.70		5.80	3.85		5.40	
Total	90.15	229.90	1289.35	1419.00	2621.								

WATER YEAR : 2011

YOM RIVER BASIN

Yom River at Ban Wang Chin , Phrae (Y.37)

Lat 17 - 53 - 48 N Long 99 - 36 - 28 E

Location : on left bank at the bridge on road.

	Ban	Wang Chin	Amphoe	Wang Chin	Changwat	Phrae
Drainage Area	10,305	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+92.280	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 5 meters from the top staff gage.				Elevation	+105.250 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation + 105.350 m.(MSL.), records are channel flow only.					
General Description	Records good. The weir situated about 1 kilometer downstream from the gage site.					
	Stage-discharge relation defined by 49 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	94.52	95.97	97.13	100.81	102.03	97.54	98.10	95.52	94.85	94.35	94.48	94.39	
2	94.51	96.51	96.83	97.83	105.04	97.80	98.69	95.52	94.83	94.35	94.49	94.39	
3	94.50	96.04	95.98	97.04	105.63	98.22	101.13	95.45	94.78	94.45	94.51	94.38	
4	94.49	96.10	95.68	96.88	105.60	97.79	101.30	95.43	94.76	94.41	94.53	94.37	
5	94.48	96.48	95.61	96.87	104.67	97.70	100.04	95.39	94.70	94.38	94.54	94.36	
6	94.46	96.71	96.11	96.59	101.03	98.23	98.92	95.35	94.73	94.37	94.54	94.36	
7	94.44	96.29	96.89	96.12	98.87	98.95	97.94	95.31	94.75	94.35	94.54	94.36	
8	94.44	96.06	97.92	95.81	98.52	98.91	97.43	95.28	94.74	94.35	94.53	94.35	
9	94.43	96.25	97.67	95.67	98.95	99.61	97.14	95.25	94.71	94.38	94.52	94.37	
10	94.46	97.44	96.48	95.81	98.84	99.91	97.06	95.24	94.70	94.42	94.52	94.38	
11	94.59	97.64	95.94	95.82	100.04	99.30	96.91	95.21	94.68	94.56	94.52	94.38	
12	94.63	98.88	95.68	95.88	101.70	98.79	96.80	95.27	94.68	94.58	94.52	94.38	
13	94.61	99.41	95.52	96.51	102.65	98.70	97.12	95.21	94.66	94.58	94.50	94.38	
14	94.56	97.26	95.38	96.28	103.20	100.13	97.06	95.17	94.66	94.58	94.48	94.40	
15	94.51	96.27	95.24	96.29	102.13	100.05	96.72	95.14	94.64	94.58	94.46	94.57	
16	94.47	96.24	95.14	97.12	99.44	99.80	96.76	95.12	94.64	94.58	94.45	94.66	
17	94.42	96.14	95.05	99.71	98.79	99.18	96.93	95.13	94.63	94.58	94.44	94.68	
18	94.40	96.70	95.08	100.09	98.84	98.60	97.19	95.12	94.60	94.58	94.44	94.64	
19	94.49	97.20	95.13	98.71	99.49	98.10	96.98	95.09	94.58	94.58	94.44	94.48	
20	94.63	97.63	95.12	97.69	99.41	97.71	96.61	95.05	94.54	94.58	94.42	94.53	
21	94.77	97.81	95.07	97.18	99.97	97.97	96.34	95.01	94.47	94.57	94.43	94.58	
22	94.61	97.60	95.00	97.00	100.97	98.57	96.15	95.01	94.46	94.55	94.43	94.60	
23	94.68	96.44	94.94	96.81	100.95	98.29	96.01	95.00	94.46	94.54	94.41	94.58	
24	94.69	95.88	94.87	96.88	99.60	98.04	95.90	94.98	94.44	94.52	94.41	94.37	
25	94.99	95.63	94.83	96.77	98.55	97.85	95.79	94.96	94.43	94.51	94.39	94.49	
26	95.23	95.44	95.25	96.99	98.52	97.50	95.70	94.94	94.42	94.51	94.38	94.45	
27	95.33	95.73	99.12	97.18	98.88	97.33	95.62	94.93	94.40	94.51	94.38	94.40	
28	95.37	96.11	101.41	96.51	99.38	97.68	95.58	94.91	94.38	94.50	94.38	94.36	
29	95.44	96.23	102.21	96.14	99.39	98.36	95.54	94.89	94.38	94.50	94.38	94.28	
30	95.36	96.04	102.64	96.13	98.72	98.96	95.51						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.80	148.70	288.90	920.20	1197.00	343.90	426.00	100.00	40.20	8.10	6.40	3.80	
2	7.40	211.20	250.80	384.50	1966.60	380.00	523.30	100.00	38.50	8.10	6.70	3.80	
3	7.00	156.60	149.80	277.20	2123.10	445.20	990.60	93.00	34.70	13.20	7.40	3.60	
4	6.70	163.50	116.80	257.00	2115.00	378.60	1028.00	91.00	33.40	10.70	8.20	3.50	
5	6.40	207.60	109.10	255.80	1868.50	366.00	765.60	87.10	29.50	9.20	8.60	3.30	
6	5.80	235.80	164.70	220.80	968.60	446.80	562.40	83.50	31.50	8.90	8.60	3.30	
7	5.20	185.30	258.20	165.80	553.90	567.50	401.00	79.90	32.70	8.10	8.60	3.30	
8	5.20	158.90	398.00	131.10	494.40	560.70	329.10	77.20	32.10	8.10	8.20	3.10	
9	4.90	180.70	361.80	115.70	567.50	684.80	290.20	74.50	30.10	3.60	7.80	3.50	
10	5.80	330.40	207.60	131.10	548.80	740.90	279.80	73.60	29.50	4.60	7.80	3.60	
11	10.60	357.60	145.40	132.20	765.60	628.00	260.80	70.90	28.20	9.40	7.80	3.60	
12	12.80	555.60	116.80	138.80	1119.50	540.30	247.00	76.30	28.20	10.20	7.80	3.60	
13	11.60	647.90	100.00	211.20	1344.50	525.00	287.60	70.90	26.90	10.20	7.00	3.60	
14	9.40	306.10	86.20	184.20	1484.00	782.70	279.80	67.50	26.90	10.20	6.40	4.00	
15	7.40	183.00	73.60	185.30	1220.50	767.50	237.00	64.90	25.60	10.20	5.80	9.80	
16	6.10	179.60	64.90	287.60	653.40	720.00	242.00	63.20	25.60	10.20	5.50	14.60	
17	4.60	168.10	57.30	703.30	540.30	606.60	263.30	64.00	24.90	10.20	5.20	15.80	
18	4.00	234.50	59.80	775.10	548.80	508.00	296.70	63.20	23.00	10.20	5.20	13.40	
19	15.80	298.00	64.00	526.70	662.60	426.00	269.50	60.60	21.70	10.20	5.20	6.40	
20	24.90	356.20	63.20	364.60	647.90	367.40	223.30	57.30	19.10	10.20	4.60	8.20	
21	34.00	381.50	59.00	295.40	752.30	405.50	191.10	53.90	14.50	9.80	4.90	10.20	
22	23.60	352.00	53.00	272.00	955.40	502.90	169.30	53.90	13.90	9.00	4.90	11.00	
23	28.20	202.80	47.90	248.20	951.00	456.40	153.20	53.00	13.90	8.60	4.30	10.20	
24	28.80	138.80	42.00	257.00	683.00	416.40	141.00	51.30	12.60	7.80	4.30	3.50	
25	52.10	111.30	38.50	243.20	499.50	387.50	128.90	49.60	11.90	7.40	3.80	6.70	
26	72.70	92.00	74.50	270.70	494.40	338.50	119.00	47.90	11.30	7.40	3.60	5.50	
27	81.70	122.30	596.40	295.40	555.60	315.60	110.20	47.00	10.00	7.40	3.60	4.00	
28	85.30	164.70	1052.30	211.20	642.40	363.20	106.00	45.40	9.20	7.00	3.60	3.30	
29	92.00	178.50	1239.30	168.10	644.20	467.60	102.00	43.60	9.20	7.00	3.60	2.00	
30	84.												

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.40	4.40	8.90	16.40	152.00	15.50	10.40	2.60	0.85	0.65	1.00	0.90	
2	4.40	5.00	7.70	14.60	96.45	15.05	10.40	1.95	0.82	0.65	1.00	0.90	
3	4.25	4.55	6.80	13.25	65.40	18.65	10.40	1.80	0.75	0.65	1.00	0.90	
4	3.80	3.65	6.50	17.75	44.30	15.05	10.40	1.65	0.75	0.65	1.00	0.90	
5	3.80	3.80	5.60	15.50	33.85	29.50	9.80	1.55	0.75	0.65	1.00	0.90	
6	3.80	3.80	11.45	11.00	21.00	53.65	9.20	1.50	0.75	0.65	1.00	0.90	
7	3.80	3.50	17.30	10.70	20.50	29.50	7.40	1.35	0.75	0.65	1.00	0.90	
8	3.80	4.55	13.25	9.80	52.55	26.00	7.40	1.30	0.75	0.65	1.00	0.90	
9	3.80	4.25	9.50	8.90	41.55	23.50	7.40	1.30	0.75	0.65	1.00	0.90	
10	3.95	6.80	7.10	8.00	1.55	23.00	7.40	1.30	0.75	0.65	1.00	0.90	
11	4.40	39.90	6.50	8.00	124.50	22.50	7.10	1.30	0.75	0.65	1.00	0.90	
12	4.40	11.45	6.20	7.70	75.00	20.00	6.20	1.25	0.75	0.87	1.00	0.95	
13	4.40	9.50	6.20	6.80	40.45	19.10	8.00	1.20	0.75	1.10	1.00	1.10	
14	4.40	11.00	5.60	6.80	32.75	36.60	15.95	1.20	0.75	1.10	1.00	1.25	
15	4.10	19.10	4.70	16.85	27.50	43.20	14.60	1.20	0.75	1.10	1.00	1.30	
16	4.10	10.40	3.65	146.40	33.85	39.35	13.70	1.15	0.75	1.10	1.00	1.30	
17	4.10	9.20	3.20	46.50	28.50	32.20	11.45	1.00	0.75	1.10	1.00	1.30	
18	4.10	23.00	3.05	26.00	34.95	19.10	7.40	1.00	0.75	1.10	1.00	1.30	
19	4.10	19.10	2.75	23.00	33.30	16.40	6.80	1.00	0.75	1.10	1.00	1.30	
20	4.10	24.50	3.35	20.00	34.40	16.40	7.40	1.00	0.75	1.10	1.00	1.30	
21	3.80	14.15	3.20	18.20	32.20	19.10	5.60	1.00	0.75	1.10	0.97	1.15	
22	2.60	9.80	3.20	16.85	33.30	17.30	5.30	1.00	0.73	1.10	0.90	0.90	
23	2.60	8.60	3.20	19.10	26.50	17.75	4.40	1.00	0.70	1.10	0.90	0.90	
24	9.50	6.80	3.20	18.20	24.00	19.10	4.25	0.95	0.67	1.10	0.90	0.90	
25	11.90	6.20	9.20	17.30	16.40	16.85	3.95	0.95	0.67	1.10	0.90	0.90	
26	5.90	4.70	153.60	13.70	15.95	14.15	3.65	0.97	0.65	1.00	0.90	0.90	
27	3.65	8.30	93.85	11.90	40.45	11.90	3.50	0.95	0.65	1.00	0.90	0.90	
28	3.05	5.90	48.15	11.00	29.00	11.00	3.50	0.85	0.65	1.00	0.90	0.90	
29	2.60	5.60	28.00	10.40	19.55	11.00	3.35	0.85	0.65	1.00	0.90	0.90	
30	2.60	12.80	21.50	9.80	17.75	10.40	3.20	0.85	0.65	1.00		0.90	
31		13.25		172.00	15.50		3.20		0.65	1.00		0.90	
Total	130.20	317.55	506.40	752.40	1264.95	662.80	232.70	36.97	22.59	28.32			

WATER YEAR : 2011**YOM RIVER BASIN****Yom River at Ban Tha Tako , Phichit (Y.42)**

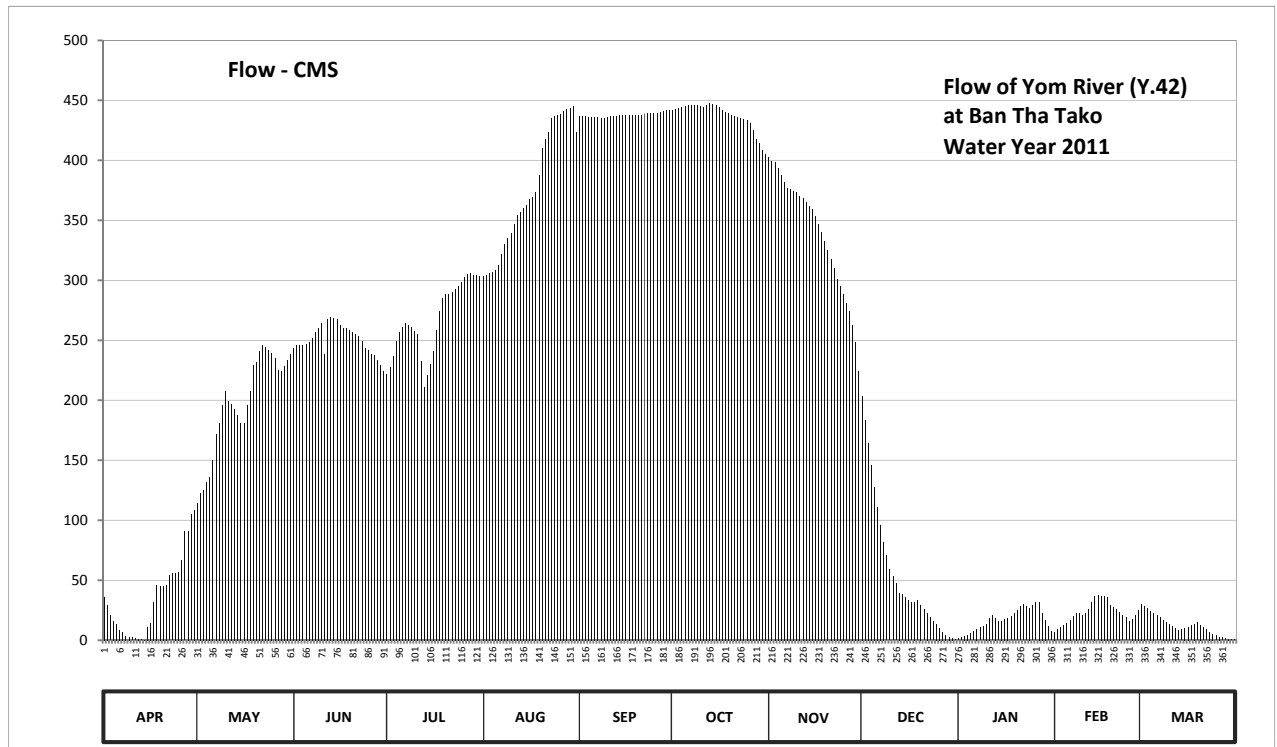
Lat 16 - 18 - 40 N Long 100 - 16 - 19 E

Location : on left bank at Ban Tha Tako

	Ban	Tha Tako	Amphoe	Pho Prathap Chang	Changwat	Phichit
Drainage Area	-	sq.km.				
Type of Gage		Staff gage				
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark		B.M.-H.D.				
Location BM		Near the gage observers house.			Elevation	+8.785 m. (A.D.)
Gage Reading Frequency		5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height		Arithmetic means of 5 readings				
Period of Available Gage Records		2011 to date				
Rating Operation						
Period of Rating		2011 to date				
Rated by Flot		-				
Rated by Current Meter		2011 to date				
Stability of Channel Regimes		Fairly stable.				
Overbank Flow Conditions		Overbank flow starts at elevation + 8.400 m.(A.D.), records are channel flow only.				
General Description		Records fair.Stage-discharge relation defined by 23 discharge measurements made in 2011.				

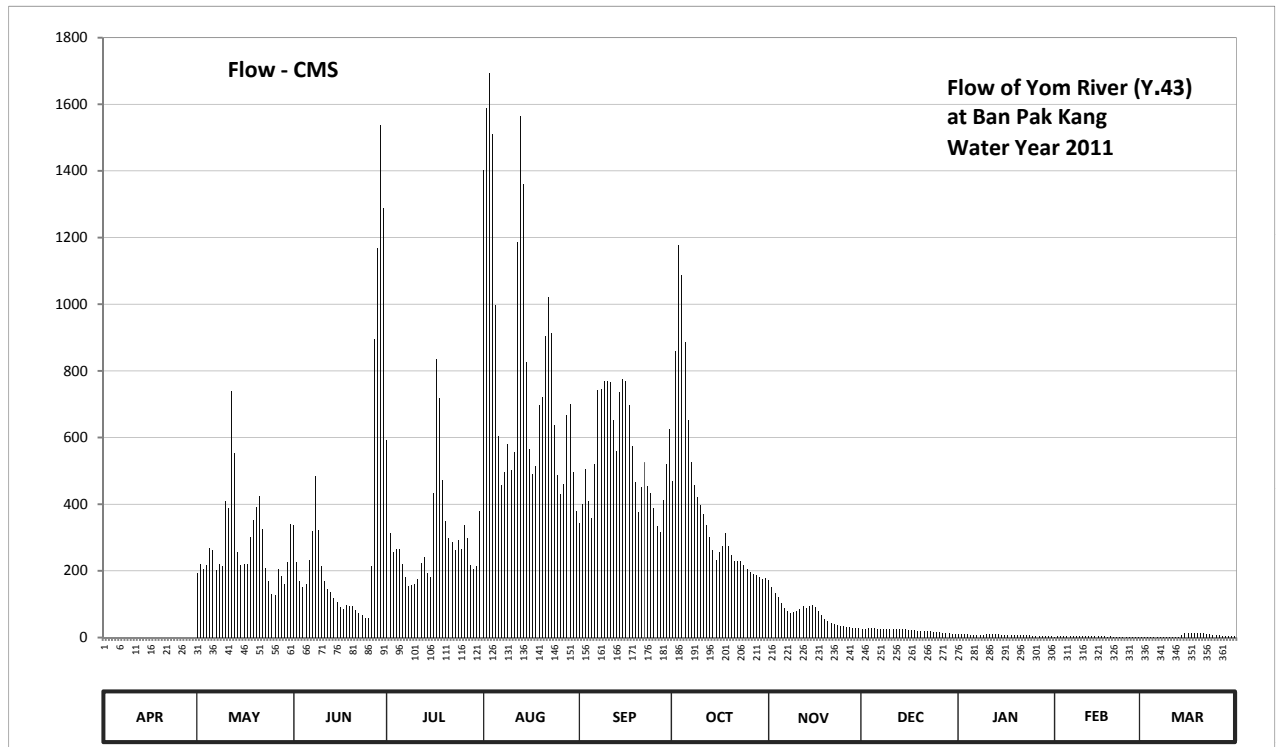
Gage Height in Meter (A.D.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.62	4.37	6.44	6.14	7.29	9.04	9.10	8.61	5.86	1.38	1.72	2.45	
2	2.43	4.53	6.48	6.22	7.30	9.04	9.11	8.57	5.55	1.45	1.79	2.40	
3	2.17	4.58	6.48	6.35	7.32	9.04	9.12	8.55	5.24	1.52	1.86	2.34	
4	2.05	4.69	6.48	6.53	7.33	9.03	9.13	8.49	4.94	1.59	1.93	2.28	
5	1.96	4.77	6.49	6.64	7.35	9.03	9.14	8.41	4.62	1.66	2.00	2.24	
6	1.78	5.01	6.52	6.70	7.41	9.03	9.15	8.33	4.31	1.74	2.07	2.17	
7	1.72	5.37	6.56	6.74	7.53	9.03	9.15	8.27	4.01	1.82	2.15	2.13	
8	1.54	5.52	6.63	6.72	7.64	9.02	9.15	8.25	3.71	1.86	2.23	2.07	
9	1.48	5.74	6.68	6.69	7.71	9.02	9.15	8.23	3.46	1.89	2.22	2.02	
10	1.44	5.92	6.74	6.65	7.76	9.03	9.14	8.22	3.20	1.96	2.17	1.97	
11	1.40	5.79	6.37	6.61	7.86	9.04	9.13	8.18	3.05	2.11	2.24	1.90	
12	1.36	5.76	6.79	6.29	7.96	9.04	9.15	8.15	2.91	2.18	2.33	1.84	
13	1.31	5.69	6.81	5.97	8.00	9.04	9.17	8.11	2.71	2.12	2.48	1.77	
14	1.28	5.62	6.80	6.13	8.04	9.05	9.16	8.07	2.67	2.03	2.64	1.80	
15	1.88	5.52	6.79	6.26	8.08	9.05	9.15	8.03	2.62	2.05	2.65	1.84	
16	2.00	5.51	6.72	6.41	8.14	9.05	9.13	7.95	2.54	2.09	2.64	1.88	
17	2.49	5.74	6.68	6.66	8.17	9.05	9.10	7.86	2.48	2.12	2.64	1.92	
18	2.87	5.92	6.68	6.88	8.22	9.05	9.08	7.78	2.50	2.15	2.62	1.96	
19	2.85	6.25	6.66	7.04	8.41	9.05	9.07	7.67	2.53	2.22	2.43	2.01	
20	2.85	6.28	6.64	7.08	8.70	9.05	9.05	7.58	2.43	2.29	2.38	1.94	
21	2.88	6.41	6.61	7.09	8.80	9.05	9.04	7.47	2.32	2.39	2.32	1.87	
22	3.07	6.48	6.59	7.11	8.87	9.06	9.03	7.37	2.23	2.44	2.25	1.79	
23	3.11	6.46	6.53	7.14	9.01	9.07	9.01	7.25	2.13	2.39	2.18	1.71	
24	3.13	6.42	6.44	7.18	9.04	9.07	9.00	7.17	2.03	2.35	2.13	1.64	
25	3.14	6.39	6.42	7.22	9.05	9.07	8.99	7.08	1.96	2.41	2.03	1.56	
26	3.37	6.33	6.38	7.27	9.06	9.07	8.96	6.98	1.84	2.48	2.09	1.48	
27	3.90	6.19	6.36	7.31	9.09	9.08	8.89	6.88	1.72	2.50	2.19	1.44	
28	3.91	6.17	6.30	7.32	9.11	9.09	8.80	6.72	1.60	2.23	2.31	1.40	
29	4.19	6.23	6.24	7.30	9.12	9.10	8.75	6.52	1.48	2.06	2.42	1.36	
30	4.26	6.30	6.17	7.30	9.14	9.10	8.68	6.17	1.41	1.90		1.32	
31		6.37		7.29	8.87		8.64		1.33	1.74		1.29	
Mean	2.48	5.75	6.55	6.78	8.24	9.05	9.04	7.76	2.95	2.04	2.25	1.86	
Max	4.26	6.48	6.81	7.32	9.14	9.10	9.17	8.61	5.86	2.50	2.65	2.45	9.17
Min	1.28	4.37	6.17	5.97	7.29	9.02	8.64	6.17	1.33	1.38	1.72	1.29	1.28
Annual Max Momentary Gage Height	9.17		m. (A.D.) ,		at 12.00 Hours , on Oct 13 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,		River Bed	-0.20	m. (MSL)						
Left Bank Elevation	8.39		m. (A.D.) ,										
Right Bank Elevation	9.35		m. (A.D.) ,		Drainage Area		Square Kilometers						



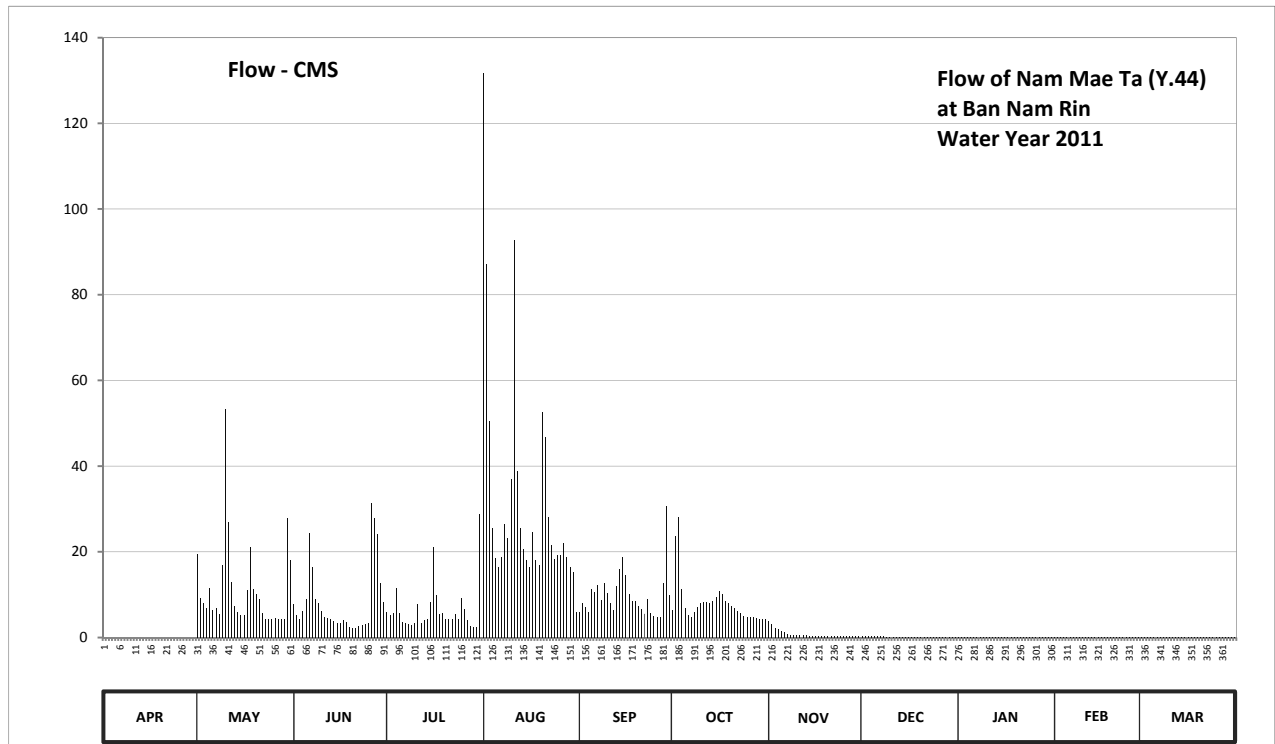
Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.20	114.00	242.97	221.82	303.75	437.20	442.00	402.80	203.40	1.30	7.00	30.25	
2	29.55	122.65	245.79	227.46	304.50	437.20	442.80	399.75	183.25	2.25	8.75	28.50	
3	20.45	125.40	245.79	236.63	306.00	437.20	443.60	398.25	164.21	3.30	10.50	26.40	
4	16.25	131.45	245.79	249.32	306.75	436.40	444.40	393.75	146.00	4.35	12.40	24.30	
5	13.30	135.85	246.50	257.07	308.25	436.40	445.20	387.75	127.60	5.70	14.50	22.90	
6	8.50	150.25	248.61	261.30	312.75	436.40	446.00	381.75	111.00	7.50	16.95	20.45	
7	7.00	172.11	251.43	264.12	321.75	436.40	446.00	377.25	96.00	9.50	19.75	19.05	
8	3.60	181.30	256.37	262.71	330.00	435.60	446.00	375.75	81.95	10.50	22.55	16.95	
9	2.70	195.60	259.89	260.60	335.25	435.60	446.00	374.25	70.70	11.25	22.20	15.20	
10	2.10	207.30	264.12	257.78	339.00	436.40	445.20	373.50	59.00	13.30	20.45	13.60	
11	1.50	198.85	238.04	254.96	346.50	437.20	444.40	370.50	53.00	18.35	22.90	11.50	
12	1.10	196.90	267.65	232.40	354.00	437.20	446.00	368.25	47.40	20.80	26.05	10.00	
13	0.60	192.35	269.05	210.55	357.00	437.20	447.60	365.25	39.40	18.70	31.30	8.25	
14	0.40	187.80	268.35	221.12	360.00	438.00	446.80	362.25	37.95	15.55	36.90	9.00	
15	11.00	181.30	267.65	230.28	363.00	438.00	446.00	359.25	36.20	16.25	37.25	10.00	
16	14.50	180.65	262.71	240.86	367.50	438.00	444.40	353.25	33.40	17.65	36.90	11.00	
17	31.65	195.60	259.89	258.48	369.75	438.00	442.00	346.50	31.30	18.70	36.90	12.10	
18	45.80	207.30	259.89	273.99	373.50	438.00	440.40	340.50	32.00	19.75	36.20	13.30	
19	45.00	229.58	258.48	285.27	387.75	438.00	439.60	332.25	33.05	22.20	29.55	14.85	
20	45.00	231.69	257.07	288.09	410.00	438.00	438.00	325.50	29.55	24.65	27.80	12.70	
21	46.20	240.86	254.96	288.80	418.00	438.00	437.20	317.25	25.70	28.15	25.70	10.75	
22	53.80	245.79	253.55	290.25	423.60	438.80	436.40	309.75	22.55	29.90	23.25	8.75	
23	55.40	244.38	249.32	292.50	434.80	439.60	434.80	300.75	19.05	28.15	20.80	6.75	
24	56.20	241.56	242.97	295.50	437.20	439.60	434.00	294.75	15.55	26.75	19.05	5.30	
25	56.60	239.44	241.56	298.50	438.00	439.60	433.20	288.09	13.30	28.85	15.55	3.90	
26	66.65	235.22	238.74	302.25	438.80	439.60	430.80	281.04	10.00	31.30	17.65	2.70	
27	90.50	225.35	237.33	305.25	441.20	440.40	425.20	273.99	7.00	32.00	21.15	2.10	
28	91.00	223.94	233.10	306.00	442.80	441.20	418.00	262.71	4.50	22.55	25.35	1.50	
29	105.00	228.17	228.87	304.50	443.60								



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	192.20	339.00	590.50	1402.90	343.50	469.75	173.40	27.00	9.65	1.20	1.64	
2	*****	219.20	227.30	313.50	1588.15	400.80	858.25	152.60	26.50	9.30	4.98	1.58	
3	*****	204.35	170.80	258.00	1694.00	504.40	1176.70	135.00	28.00	8.95	5.20	1.46	
4	*****	217.85	150.00	264.00	1512.10	410.40	1087.00	121.55	28.00	8.95	4.54	1.40	
5	*****	270.00	160.40	267.00	995.80	357.60	885.90	103.15	27.50	8.60	5.63	1.36	
6	*****	262.50	231.40	220.55	604.50	521.20	653.50	88.80	27.00	8.60	5.20	1.36	
7	*****	203.00	319.50	181.40	456.55	742.75	526.30	78.00	25.50	8.60	4.98	1.36	
8	*****	219.20	482.95	153.90	496.15	744.50	456.55	73.00	25.50	8.60	4.98	1.36	
9	*****	213.80	322.50	156.50	580.00	769.00	421.90	76.00	25.00	8.60	5.63	1.36	
10	*****	410.40	213.80	160.40	502.75	769.00	397.60	79.00	25.00	8.95	4.98	1.36	
11	*****	389.60	169.50	176.00	555.50	767.25	370.40	84.40	24.50	8.95	4.76	1.24	
12	*****	739.25	145.00	224.60	1186.45	651.75	336.00	94.30	24.50	8.95	4.32	1.08	
13	*****	553.75	136.25	242.60	1564.75	559.00	300.00	89.90	24.00	8.95	3.88	1.46	
14	*****	258.00	116.95	193.55	1360.00	737.50	262.50	93.20	24.00	8.95	3.88	8.64	
15	*****	217.85	105.45	181.40	825.00	774.25	231.40	96.50	24.00	8.60	3.66	13.70	
16	*****	219.20	92.10	433.45	564.25	769.00	255.20	91.00	23.00	8.60	3.44	13.10	
17	*****	220.55	84.40	835.50	489.55	697.25	274.50	78.00	21.50	8.60	3.00	12.50	
18	*****	301.50	96.50	718.25	512.70	574.75	313.50	66.00	21.00	8.60	2.90	12.50	
19	*****	351.20	93.20	471.40	697.25	464.80	273.00	56.25	20.00	8.25	3.00	12.50	
20	*****	391.20	95.40	349.60	721.75	376.80	246.80	49.50	19.50	8.25	2.90	11.90	
21	*****	425.20	82.20	298.50	902.70	449.95	228.65	44.25	19.50	7.90	2.70	11.90	
22	*****	327.00	72.00	286.50	1022.40	526.30	228.65	39.75	19.00	6.85	2.60	11.30	
23	*****	208.40	66.00	262.50	912.20	453.25	228.65	36.75	18.00	6.50	2.40	9.50	
24	*****	169.50	57.75	294.00	637.75	433.45	217.85	34.50	17.00	6.15	2.30	8.21	
25	*****	130.00	57.75	267.00	487.90	389.60	207.05	33.75	16.50	5.45	2.20	7.35	
26	*****	128.75	213.80	339.00	431.80	334.50	196.25	32.25	15.50	5.10	2.00	6.49	
27	*****	205.70	895.15	297.00	461.50	316.50	190.85	30.75	14.50	4.75	1.94	5.63	
28	*****	185.45	1166.95	217.85	667.50	412.00	186.80	29.50	14.00	4.75	1.88	5.20	
29	*****	160.40	1537.45	205.70	700.75	519.50	180.05	29.00	12.50	4.40	1.88	4.76	
30	*****	225.95	1289.80	215.15	494.50	623.75	174.70	28.00	11.50	4.40		4.32	
31	*****	340.50		380.00	380.00		178.70		10.00	4.05		3.88	
Total	*****	8561.45	9191.25	9455.30	25409.10	16394.30	12014.95	2218.05	659.00	235.80	102.96	181.40	***** CMSDAY
Mean	*****	276.18	306.38	305.01	819.65	546.48	387.58	73.94	21.26	7.61	3.55	5.85	***** CMS
Max	*****	739.25	1537.45	835.50	1694.00	774.25	1176.70	173.40	28.00	9.65	5.63	13.70	1694.00 CMS
Min	*****	128.75	57.75	153.90	380.00	316.50	174.70	28.00	10.00	4.05	1.20	1.08	***** CMS
Runoff	*****	739.71	794.12	816.94	2195.35	1416.47	1038.09	191.64	56.94	20.37	8.90	15.67	***** MCM
Momentary Peak	1716.00 CMS. at 110.41 m. (MSL.) at 07.00 Hours , on Aug 3 , 2011												
Runoff Yield	*****	Liters/Second/Square KM.			Momentary Peak Yield			173.667	Liters/Second/Square KM.				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	19.47	7.81	6.00	131.70	6.06	6.42	3.82	0.30	0.16	0.16	0.16	
2	*****	9.19	5.20	5.20	87.04	8.04	23.79	3.10	0.30	0.16	0.16	0.16	
3	*****	8.04	4.40	5.60	50.36	7.08	28.05	2.13	0.29	0.16	0.16	0.16	
4	*****	6.89	6.20	11.58	25.64	5.88	11.43	1.86	0.28	0.16	0.16	0.16	
5	*****	11.58	8.96	5.80	18.60	11.43	6.84	1.45	0.27	0.16	0.16	0.16	
6	*****	6.43	24.40	3.66	16.52	10.62	5.16	1.20	0.26	0.16	0.16	0.16	
7	*****	6.89	16.52	3.48	18.89	12.36	4.66	0.90	0.25	0.16	0.16	0.16	
8	*****	5.40	8.96	3.12	26.57	8.76	5.88	0.60	0.24	0.16	0.16	0.16	
9	*****	16.78	8.04	2.94	23.24	12.69	7.08	0.55	0.23	0.16	0.16	0.16	
10	*****	53.37	6.20	3.48	36.96	10.35	8.04	0.55	0.22	0.16	0.16	0.16	
11	*****	26.88	4.80	7.81	92.68	8.04	8.28	0.50	0.22	0.16	0.16	0.16	
12	*****	12.88	4.60	3.30	38.84	6.42	8.28	0.50	0.21	0.16	0.16	0.16	
13	*****	7.35	4.20	4.02	25.64	12.03	8.04	0.48	0.20	0.16	0.16	0.16	
14	*****	6.00	3.84	4.40	20.63	15.96	8.52	0.44	0.20	0.16	0.16	0.16	
15	*****	5.20	3.48	8.27	18.08	18.84	9.54	0.40	0.19	0.16	0.16	0.16	
16	*****	5.20	3.48	21.21	16.52	14.67	10.89	0.38	0.18	0.16	0.16	0.16	
17	*****	11.06	4.02	9.88	24.71	10.08	10.08	0.36	0.18	0.16	0.16	0.16	
18	*****	21.21	3.66	5.40	18.08	8.52	8.52	0.36	0.17	0.16	0.16	0.16	
19	*****	11.32	2.40	5.60	16.78	8.52	8.04	0.36	0.17	0.16	0.16	0.16	
20	*****	10.11	2.30	4.40	52.51	7.32	7.32	0.34	0.16	0.16	0.16	0.16	
21	*****	8.96	2.20	4.40	46.63	6.60	6.84	0.34	0.16	0.16	0.16	0.16	
22	*****	5.60	2.58	4.40	28.14	5.52	6.24	0.34	0.16	0.16	0.16	0.16	
23	*****	4.40	2.94	5.40	21.50	9.00	5.70	0.34	0.16	0.16	0.16	0.16	
24	*****	4.40	3.12	4.40	18.34	5.70	4.98	0.34	0.16	0.16	0.16	0.16	
25	*****	4.40	3.30	9.19	19.18	4.98	4.80	0.32	0.16	0.16	0.16	0.16	
26	*****	4.60	31.36	6.66	19.18	4.66	4.80	0.32	0.16	0.16	0.16	0.16	
27	*****	4.40	27.82	4.02	22.08	4.80	4.66	0.32	0.16	0.16	0.16	0.16	
28	*****	4.40	24.11	2.76	18.89	12.69	4.52	0.30	0.16	0.16	0.16	0.16	
29	*****	4.40	12.62	2.40	16.52	30.60	4.38	0.30	0.16	0.16	0.16	0.16	
30	*****	27.82	8.27	2.40	15.22	9.81	4.24	0.30	0.16	0.16		0.16	
31	*****	18.08		28.78	6.06		4.24		0.16	0.16		0.16	
Total	*****	352.71	251.79	199.96	991.73	298.03	250.26	23.50	6.28	4.96	4.64	4.96	***** CMSDAY
Mean	*****	11.38	8.39	6.45	31.99	9.93	8.07	0.78	0.20	0.16	0.16	0.16	

WATER YEAR : 2011

YOM RIVER BASIN

Nam Mae Kham Mi at Ban Phai Ton , Phrae (Y.45)

Lat 18 - 23 - 27 N Long 100 - 26 - 01 E

Location : on left bank at Ban Phai Ton.

	Ban	Phai Ton	Amphoe	Rong Kwang	Changwat	Phrae
Drainage Area	142	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+270.973	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+276.119 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2011 to date					
Rating Operation						
Period of Rating	2011 to date					
Rated by Flot	-					
Rated by Current Meter	2011 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	Overbank flow starts at elevation +276.490 m.(MSL.), records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 43 discharge measurements made in 2011.					
Remark	beginning on 1 st May 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	272.07	272.21	272.33	273.95	272.27	272.05	271.96	271.61	271.58	271.54	271.51	
2	*****	272.01	272.18	272.20	273.38	272.52	272.11	271.92	271.61	271.58	271.54	271.51	
3	*****	272.01	272.17	272.15	273.10	272.38	272.16	271.88	271.61	271.58	271.53	271.50	
4	*****	272.03	272.20	272.07	272.86	272.31	272.20	271.86	271.62	271.57	271.53	271.50	
5	*****	272.00	272.20	271.98	272.58	272.50	272.23	271.83	271.62	271.57	271.53	271.50	
6	*****	271.97	272.35	271.93	272.38	272.54	272.31	271.81	271.62	271.57	271.52	271.50	
7	*****	272.07	272.32	271.89	272.55	272.50	272.31	271.79	271.62	271.57	271.52	271.50	
8	*****	272.00	272.26	271.85	272.64	272.49	272.31	271.78	271.61	271.57	271.52	271.50	
9	*****	272.00	272.22	271.89	272.54	272.49	272.17	271.77	271.61	271.57	271.51	271.50	
10	*****	272.42	272.18	271.92	272.56	272.51	272.03	271.77	271.61	271.57	271.51	271.49	
11	*****	272.55	272.17	271.89	273.11	272.45	272.05	271.77	271.60	271.57	271.50	271.47	
12	*****	272.23	272.15	271.87	272.72	272.40	272.05	271.77	271.60	271.57	271.50	271.49	
13	*****	272.16	272.13	271.86	272.57	272.45	272.27	271.77	271.60	271.57	271.49	271.49	
14	*****	272.36	272.00	271.99	272.54	272.45	272.18	271.75	271.59	271.57	271.49	271.49	
15	*****	272.28	271.93	274.31	272.52	272.45	272.23	271.72	271.59	271.57	271.49	271.49	
16	*****	272.21	271.93	274.34	272.47	272.47	272.12	271.70	271.59	271.57	271.48	271.49	
17	*****	272.45	271.92	272.73	272.57	272.46	272.12	271.69	271.59	271.57	271.48	271.48	
18	*****	272.44	271.93	272.62	272.54	272.41	272.10	271.69	271.59	271.57	271.49	271.48	
19	*****	272.57	271.95	272.49	272.46	272.37	272.12	271.69	271.59	271.57	271.49	271.48	
20	*****	272.38	271.95	272.41	272.61	272.35	272.13	271.69	271.59	271.57	271.50	271.48	
21	*****	272.27	271.94	272.43	272.58	272.30	272.19	271.68	271.59	271.57	271.51	271.48	
22	*****	272.20	271.94	272.38	272.48	272.41	272.23	271.68	271.59	271.57	271.51	271.47	
23	*****	272.15	271.94	272.39	272.45	272.44	272.31	271.67	271.59	271.57	271.51	271.47	
24	*****	272.11	272.24	272.36	272.40	272.36	272.19	271.66	271.59	271.57	271.51	271.47	
25	*****	272.12	272.77	272.31	272.37	272.30	271.99	271.65	271.59	271.57	271.51	271.47	
26	*****	272.10	273.57	272.22	272.37	272.25	271.98	271.64	271.59	271.57	271.51	271.47	
27	*****	272.06	272.96	272.18	272.41	272.22	271.98	271.63	271.58	271.57	271.51	271.47	
28	*****	272.10	272.64	272.16	272.36	272.14	271.98	271.63	271.58	271.57	271.51	271.46	
29	*****	272.34	272.48	2									

Date		Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****		6.05	8.25	11.25	100.75	9.75	5.75	4.40	1.08	0.90	0.70	0.55	
2	*****		5.15	7.70	8.00	58.80	16.16	6.65	3.80	1.08	0.90	0.70	0.55	
3	*****		5.15	7.55	7.25	42.50	12.50	7.40	3.32	1.08	0.90	0.65	0.50	
4	*****		5.45	8.00	6.05	30.00	10.75	8.00	3.14	1.16	0.85	0.65	0.50	
5	*****		5.00	8.00	4.70	18.14	15.50	8.75	2.87	1.16	0.85	0.65	0.50	
6	*****		4.55	11.75	3.95	12.50	16.82	10.75	2.69	1.16	0.85	0.60	0.50	
7	*****		6.05	11.00	3.41	17.15	15.50	10.75	2.52	1.16	0.85	0.60	0.50	
8	*****		5.00	9.50	3.05	20.44	15.25	10.75	2.44	1.08	0.85	0.60	0.50	
9	*****		5.00	8.50	3.41	16.82	15.25	7.55	2.36	1.08	0.85	0.55	0.50	
10	*****		13.50	7.70	3.80	17.48	15.83	5.45	2.36	1.08	0.85	0.55	0.48	
11	*****		17.15	7.55	3.41	43.05	14.25	5.75	2.36	1.00	0.85	0.50	0.44	
12	*****		8.75	7.25	3.23	23.72	13.00	5.75	2.36	1.00	0.85	0.50	0.48	
13	*****		7.40	6.95	3.14	17.81	14.25	9.75	2.36	1.00	0.85	0.48	0.48	
14	*****		12.00	5.00	4.85	16.82	14.25	7.70	2.20	0.95	0.85	0.48	0.48	
15	*****		10.00	3.95	134.45	16.16	14.25	8.75	1.96	0.95	0.85	0.48	0.48	
16	*****		8.25	3.95	137.30	14.75	14.75	6.80	1.80	0.95	0.85	0.46	0.48	
17	*****		14.25	3.80	24.13	17.81	14.50	6.80	1.72	0.95	0.85	0.46	0.46	
18	*****		14.00	3.95	19.62	16.82	13.25	6.50	1.72	0.95	0.85	0.48	0.46	
19	*****		17.81	4.25	15.25	14.50	12.25	6.80	1.72	0.95	0.85	0.48	0.46	
20	*****		12.50	4.25	13.25	19.21	11.75	6.95	1.72	0.95	0.85	0.50	0.46	
21	*****		9.75	4.10	13.75	18.14	10.50	7.85	1.64	0.95	0.85	0.55	0.46	
22	*****		8.00	4.10	12.50	15.00	13.25	8.75	1.64	0.95	0.85	0.55	0.44	
23	*****		7.25	4.10	12.75	14.25	14.00	10.75	1.56	0.95	0.85	0.55	0.44	
24	*****		6.65	9.00	12.00	13.00	12.00	7.85	1.48	0.95	0.85	0.55	0.44	
25	*****		6.80	25.77	10.75	12.25	10.50	4.85	1.40	0.95	0.85	0.55	0.44	
26	*****		6.50	71.90	8.50	12.25	9.25	4.70	1.32	0.95	0.85	0.55	0.44	
27	*****		5.90	35.00	7.70	13.25	8.50	4.70	1.24	0.90	0.85	0.55	0.44	
28	*****		6.50	20.44	7.40	12.00	7.10	4.70	1.24	0.90	0.85	0.55	0.42	
29	*****		11.50	15.00	7.10	10.25	5.30	4.70	1.16	0.90	0.85	0.55	0.42	
30	*****		13.25	12.75	6.80	9.50	4.55	4.70	1.08	0.90	0.85		0.42	
31	*****		10.25		173.00	10.75		4.70		0.90	0.85		0.42	
Total	*****		275.36	341.01	685.75	675.87	374.76	221.60	63.58	30.9				

WATER YEAR : 2011

YOM RIVER BASIN

Nam Mae Suat at Ban Pang Yao , Nan (Y.46

Lat 18 - 50 - 36 N Long 100 - 25 - 39 E

Location : on left bank at Ban Pang Yao

	Ban	Pang Yao	Amphoe	Ban Luang	Changwat	Nan
Drainage Area	191	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+340.846	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+345.541 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2011 to date					
Rating Operation						
Period of Rating	2011 to date					
Rated by Flot	-					
Rated by Current Meter	2011 to date					
Stability of Channel Regimes	Stable because of backwater effect.					
Overbank Flow Conditions	Overbank flow starts at elevation +344.170 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 47 discharge measurements made in 2011.					
Remark	beginning on 1 st May 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	342.14	342.29	343.24	342.76	342.67	342.75	342.34	342.23	342.16	342.05	342.05	
2	*****	341.94	342.27	343.07	342.74	342.80	342.78	342.34	342.23	342.16	342.05	342.05	
3	*****	341.99	342.22	342.82	343.00	342.77	342.82	342.34	342.22	342.16	342.05	342.05	
4	*****	342.09	342.24	342.64	342.93	342.83	342.82	342.34	342.22	342.15	342.05	342.04	
5	*****	341.98	342.18	342.60	342.80	342.81	342.82	342.34	342.21	342.15	342.05	342.04	
6	*****	342.05	343.21	342.61	342.73	343.25	342.80	342.34	342.21	342.15	342.05	342.04	
7	*****	341.99	342.67	342.73	342.78	342.88	342.66	342.33	342.20	342.15	342.05	342.04	
8	*****	341.95	342.42	342.79	342.85	342.91	342.56	342.33	342.19	342.14	342.05	342.05	
9	*****	341.94	342.17	342.79	342.75	343.03	342.50	342.33	342.19	342.14	342.05	342.05	
10	*****	342.29	342.15	342.80	342.73	343.15	342.50	342.32	342.19	342.14	342.05	342.05	
11	*****	342.39	342.12	342.79	343.05	342.95	342.48	342.31	342.18	342.13	342.05	342.06	
12	*****	342.26	342.10	342.80	343.31	342.87	342.46	342.31	342.18	342.13	342.05	342.06	
13	*****	342.18	342.09	342.80	342.99	342.85	342.45	342.30	342.17	342.13	342.05	342.06	
14	*****	342.15	342.07	342.80	342.77	342.85	342.45	342.29	342.23	342.13	342.05	342.07	
15	*****	342.19	342.07	342.79	342.75	342.86	342.45	342.29	342.27	342.12	342.05	342.07	
16	*****	342.21	342.13	342.79	342.75	343.05	342.45	342.29	342.27	342.12	342.05	342.07	
17	*****	342.68	342.39	342.80	342.75	342.86	342.42	342.29	342.26	342.12	342.05	342.06	
18	*****	342.67	342.33	342.73	343.29	343.07	342.41	342.28	342.25	342.11	342.05	342.06	
19	*****	343.03	342.29	342.64	343.25	342.93	342.42	342.26	342.24	342.11	342.05	342.06	
20	*****	342.56	342.27	342.60	342.91	342.87	342.39	342.26	342.23	342.10	342.05	342.05	
21	*****	342.36	342.26	342.61	342.76	342.81	342.35	342.25	342.22	342.09	342.05	342.05	
22	*****	342.26	342.25	342.66	342.72	342.81	342.35	342.23	342.21	342.09	342.05	342.05	
23	*****	342.21	342.25	342.73	342.69	342.83	342.35	342.23	342.20	342.08	342.05	342.05	
24	*****	342.17	342.30	342.78	342.67	342.82	342.35	342.22	342.19	342.08	342.05	342.05	
25	*****	342.28	343.04	342.78	342.66	342.79	342.35	342.22	342.18	342.07	342.05	342.05	
26	*****	342.25	343.36	342.79	342.79	342.77	342.35	342.22	342.17	342.07	342.05	342.04	
27	*****	342.26	343.18	342.80	342.96	342.76	342.35	342.22	342.17	342.06	342.05	342.04	
28	*****	342.44	343.21	342.80	342.81	342.78	342.35	342.22	342.17	342.05	342.05	342.04	
29	*****	342.49	343.25	3									

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	0.34	3.39	7.44	6.70	6.56	6.69	4.02	2.73	2.04	1.15	1.15	
2	*****	0.14	3.17	7.18	6.67	6.76	6.73	4.02	2.73	2.04	1.15	1.15	
3	*****	0.19	2.62	6.79	7.07	6.72	6.79	4.02	2.62	2.04	1.15	1.15	
4	*****	0.29	2.84	6.52	6.96	6.81	6.79	4.02	2.62	1.95	1.15	1.08	
5	*****	0.18	2.22	6.45	6.76	6.78	6.79	4.02	2.51	1.95	1.15	1.08	
6	*****	0.25	7.40	6.47	6.66	7.46	6.76	4.02	2.51	1.95	1.15	1.08	
7	*****	0.19	6.56	6.66	6.73	6.89	6.55	3.89	2.40	1.95	1.15	1.08	
8	*****	0.15	5.10	6.75	6.84	6.93	6.39	3.89	2.31	1.86	1.15	1.15	
9	*****	0.14	2.13	6.75	6.69	7.12	6.30	3.89	2.31	1.86	1.15	1.15	
10	*****	3.39	1.95	6.76	6.66	7.30	6.30	3.76	2.31	1.86	1.15	1.15	
11	*****	4.67	1.68	6.75	7.15	7.00	6.00	3.63	2.22	1.77	1.15	1.22	
12	*****	3.06	1.50	6.76	7.55	6.87	5.70	3.63	2.22	1.77	1.15	1.22	
13	*****	2.22	1.43	6.76	7.06	6.84	5.55	3.50	2.13	1.77	1.15	1.22	
14	*****	1.95	1.29	6.76	6.72	6.84	5.55	3.39	2.73	1.77	1.15	1.29	
15	*****	2.31	1.29	6.75	6.69	6.86	5.55	3.39	3.17	1.68	1.15	1.29	
16	*****	2.51	1.77	6.75	6.69	7.15	5.55	3.39	3.17	1.68	1.15	1.29	
17	*****	6.58	4.67	6.76	6.69	6.86	5.10	3.39	3.06	1.68	1.15	1.22	
18	*****	6.56	3.89	6.66	7.52	7.18	4.95	3.28	2.95	1.59	1.15	1.22	
19	*****	7.12	3.39	6.52	7.46	6.96	5.10	3.06	2.84	1.59	1.15	1.22	
20	*****	6.39	3.17	6.45	6.93	6.87	4.67	3.06	2.73	1.50	1.15	1.15	
21	*****	4.28	3.06	6.47	6.70	6.78	4.15	2.95	2.62	1.43	1.15	1.15	
22	*****	3.06	2.95	6.55	6.64	6.78	4.15	2.73	2.51	1.43	1.15	1.15	
23	*****	2.51	2.95	6.66	6.59	6.81	4.15	2.73	2.40	1.36	1.15	1.15	
24	*****	2.13	3.50	6.73	6.56	6.79	4.15	2.62	2.31	1.36	1.15	1.15	
25	*****	3.28	7.13	6.73	6.55	6.75	4.15	2.62	2.22	1.29	1.15	1.15	
26	*****	2.95	7.63	6.75	6.75	6.72	4.15	2.62	2.13	1.29	1.15	1.08	
27	*****	3.06	7.35	6.76	7.01	6.70	4.15	2.62	2.13	1.22	1.15	1.08	
28	*****	5.40	7.40	6.76	6.78	6.73	4.15	2.62	2.13	1.15	1.15	1.08	
29	*****	6.15	7.46	6.76	6.67	6.84	4.15	2.62	2.13	1.15	1.15	1.08	
30	*****	5.25	7.51	6.78	6.61	6.78	4.15	2.62	2.04	1.15		1.08	
31	*****	4.41		6.81	6.56		4.02		2.04	1.15		1.08	
Total	*****	91.11	118.40	208.45	211.62	206.44	165.33	100.02	76.93	50.28	33.35	35.79	***** CMSDAY
Mean	*****	2.94	3.95	6.72	6.83	6.88	5.33	3.33	2.48	1.62	1.15	1.15	***** CMS
Max	*****	7.12	7.63	7.44	7.55	7.46							

WATER YEAR : 2011

YOM RIVER BASIN

Yom River at Ban Bun Ruang , Phayao (Y.47)

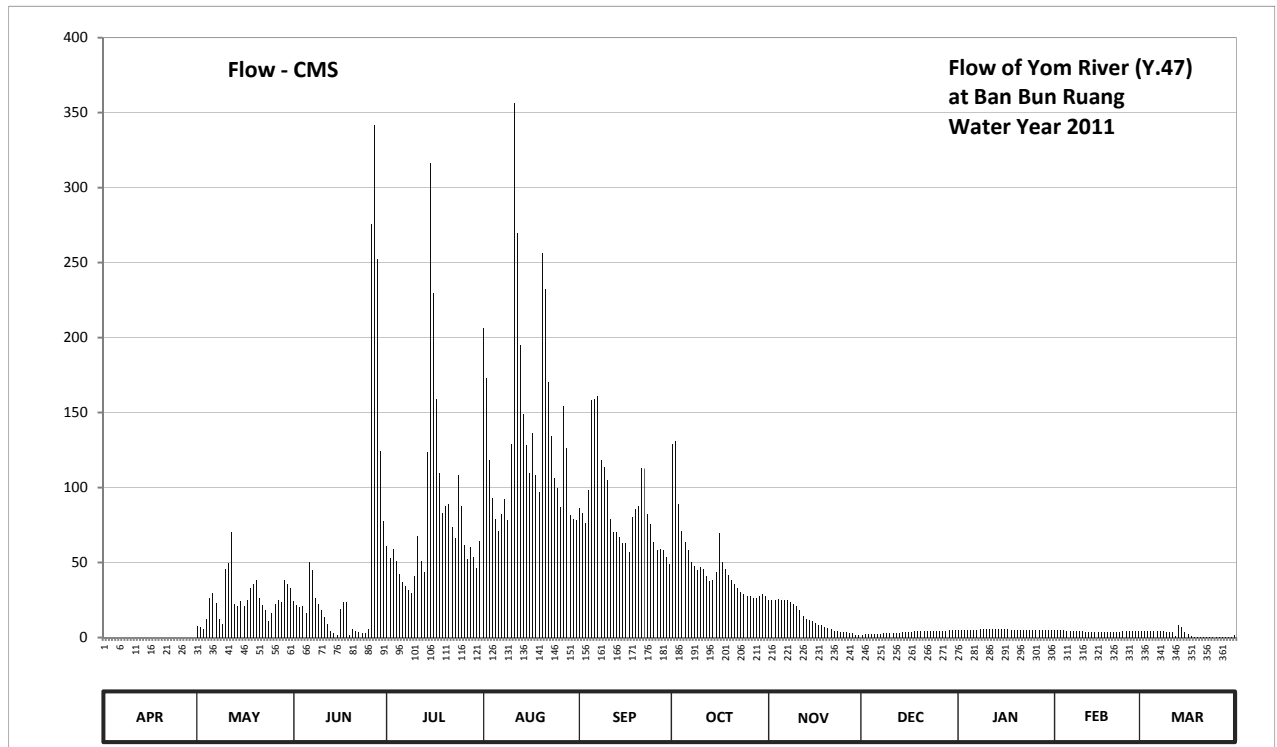
Lat 19 - 09 - 03 N Long 100 - 16 - 29 E

Location : on right bank at Ban Bun Ruang.

	Ban	Bun Ruang	Amphoe	Pong	Changwat	Phayao
Drainage Area	444	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+287.727	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+294.545 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2011 to date					
Rating Operation						
Period of Rating	2011 to date					
Rated by Flot	-					
Rated by Current Meter	2011 to date					
Stability of Channel Regimes	Stable because of backwater effect.					
Overbank Flow Conditions	Overbank flow starts at elevation +293.390 m.(MSL.) and is including overbank flow.					
General Description	Records good. Stage-discharge relation defined by 48 discharge measurements made in 2011.					
Remark	beginning on 1 st May 2011					

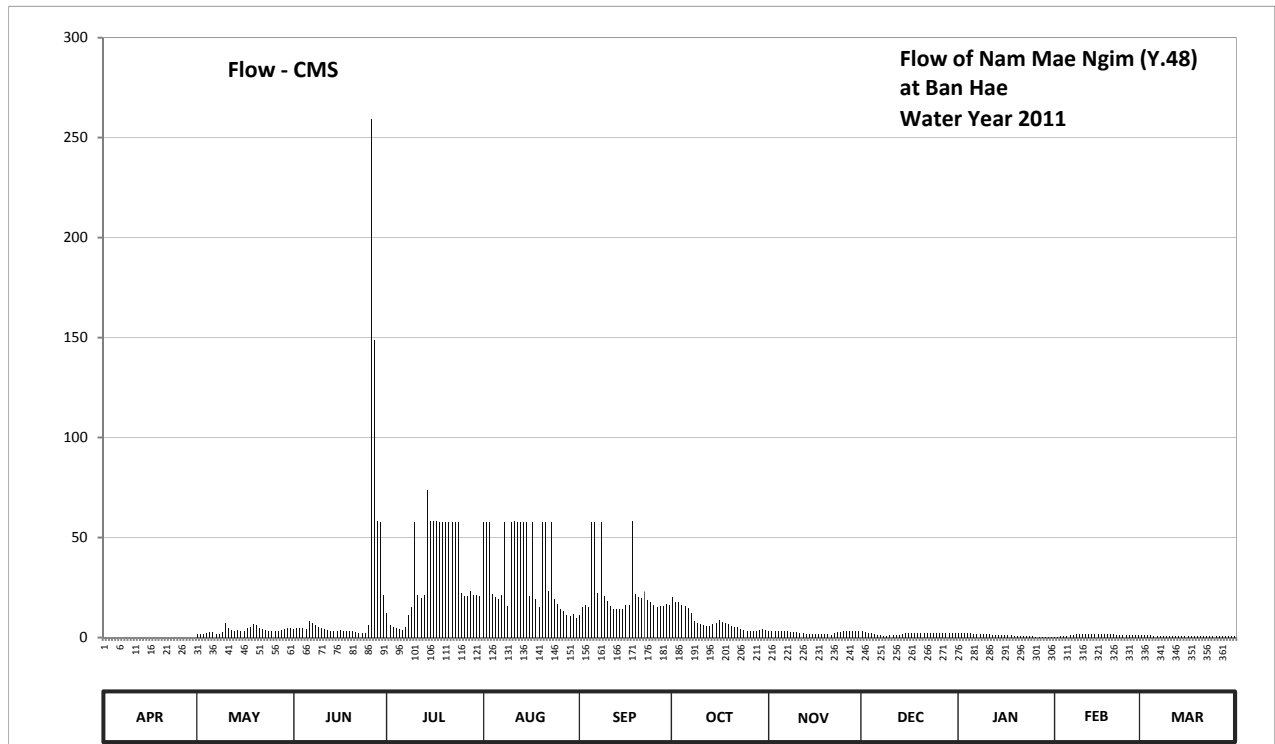
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	289.49	289.70	290.34	291.96	290.70	291.21	289.72	289.40	289.25	289.15	289.13	
2	*****	289.47	289.64	290.22	291.66	290.66	291.23	289.72	289.39	289.24	289.14	289.13	
3	*****	289.45	289.61	290.31	291.09	290.57	290.74	289.72	289.39	289.24	289.14	289.13	
4	*****	289.52	289.62	290.18	290.79	290.85	290.50	289.73	289.38	289.24	289.14	289.13	
5	*****	289.75	289.56	290.04	290.61	291.52	290.39	289.71	289.37	289.23	289.13	289.12	
6	*****	289.82	290.17	289.95	290.50	291.53	290.30	289.71	289.37	289.23	289.13	289.12	
7	*****	289.67	290.08	289.90	290.65	291.55	290.17	289.72	289.37	289.23	289.12	289.11	
8	*****	289.52	289.74	289.85	290.78	291.09	290.13	289.69	289.36	289.22	289.12	289.11	
9	*****	289.48	289.65	289.81	290.60	291.04	290.08	289.66	289.36	289.22	289.11	289.10	
10	*****	290.10	289.58	290.02	291.21	290.94	290.12	289.63	289.35	289.21	289.11	289.10	
11	*****	290.16	289.53	290.45	292.94	290.61	290.10	289.58	289.34	289.21	289.10	289.10	
12	*****	290.49	289.48	290.18	292.43	290.49	290.02	289.54	289.33	289.20	289.10	289.15	
13	*****	289.66	289.43	290.06	291.86	290.49	289.96	289.52	289.33	289.20	289.09	289.50	
14	*****	289.62	289.41	291.15	291.43	290.44	289.97	289.51	289.32	289.19	289.09	289.48	
15	*****	289.70	289.40	292.72	291.20	290.38	290.06	289.50	289.32	289.19	289.08	289.39	
16	*****	289.63	289.59	292.15	290.99	290.38	290.48	289.49	289.31	289.18	289.08	289.31	
17	*****	289.71	289.68	291.53	291.29	290.28	290.17	289.47	289.30	289.18	289.08	289.21	
18	*****	289.88	289.69	290.99	290.98	290.63	290.10	289.47	289.29	289.17	289.09	289.04	
19	*****	289.93	289.40	290.66	290.84	290.69	290.03	289.46	289.29	289.17	289.09	289.00	
20	*****	289.97	289.19	290.72	292.34	290.72	289.97	289.45	289.28	289.17	289.09	288.96	
21	*****	289.74	289.13	290.74	292.17	291.03	289.93	289.44	289.28	289.17	289.10	288.93	
22	*****	289.64	289.09	290.53	291.64	291.03	289.88	289.43	289.28	289.17	289.10	288.91	
23	*****	289.58	289.06	290.43	291.27	290.65	289.83	289.43	289.27	289.17	289.11	288.90	
24	*****	289.50	289.04	290.98	290.95	290.56	289.80	289.42	289.27	289.16	289.11	288.89	
25	*****	289.56	289.19	290.72	290.87	290.39	289.77	289.42	289.27	289.16	289.12	288.88	
26	*****	289.65	292.47	290.35	290.71	290.30	289.77	289.42	289.26	289.16	289.12	288.87	
27	*****	289.71	293.47	290.21	291.48	290.31	289.75	289.41	289.26	289.16	289.13	288.86	
28	*****	289.68	292.31	290.33	291.18	290.30	289.75	289.41	289.26	289.16	289.13	288.85	
29	*****	289.97	291.16	2									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	7.60	24.30	60.68	206.40	86.10	128.90	25.20	1.80	4.80	4.85	4.47	
2	*****	6.80	21.60	53.24	172.60	82.94	130.70	25.20	2.00	5.00	4.66	4.47	
3	*****	6.00	20.25	58.82	118.10	76.13	89.26	25.20	2.00	5.00	4.66	4.47	
4	*****	12.60	20.70	50.78	93.21	98.00	71.30	25.65	2.20	5.00	4.66	4.47	
5	*****	26.55	16.20	42.24	78.99	158.00	63.78	24.75	2.40	5.20	4.47	4.28	
6	*****	29.90	50.17	37.05	71.30	159.00	58.20	24.75	2.40	5.20	4.47	4.28	
7	*****	22.95	44.68	34.30	82.15	161.00	50.17	25.20	2.40	5.20	4.28	4.09	
8	*****	12.60	26.10	31.55	92.42	118.10	47.73	23.85	2.60	5.40	4.28	4.09	
9	*****	9.00	22.05	29.35	78.20	113.60	44.68	22.50	2.60	5.40	4.09	3.90	
10	*****	45.90	18.00	41.02	128.90	105.20	47.12	21.15	2.80	5.60	4.09	3.90	
11	*****	49.56	13.50	67.85	356.60	78.99	45.90	18.00	3.00	5.60	3.90	3.90	
12	*****	70.61	9.00	50.78	269.62	70.61	41.02	14.40	3.20	5.80	3.90	0.80	
13	*****	22.50	4.50	43.46	194.90	70.61	37.60	12.60	3.20	5.80	3.71	8.00	
14	*****	20.70	2.70	123.50	149.00	67.16	38.15	11.70	3.40	5.61	3.71	7.20	
15	*****	24.30	1.80	316.32	128.00	63.16	43.46	10.80	3.40	5.61	3.52	3.80	
16	*****	21.15	18.90	229.75	109.20	63.16	69.92	9.90	3.60	5.42	3.52	2.20	
17	*****	24.75	23.40	159.00	136.10	56.96	50.17	8.10	3.80	5.42	3.52	1.10	
18	*****	33.20	23.85	109.20	108.40	80.57	45.90	8.10	4.00	5.23	3.71	0.48	
19	*****	35.95	1.80	82.94	97.20	85.31	41.63	7.20	4.00	5.23	3.71	0.40	
20	*****	38.15	5.61	87.68	256.30	87.68	38.15	6.30	4.20	5.23	3.71	0.32	
21	*****	26.10	4.47	89.26	232.25	112.70	35.95	5.40	4.20	5.23	3.90	0.26	
22	*****	21.60	3.71	73.37	170.40	112.70	33.20	4.50	4.20	5.23	3.90	0.22	
23	*****	18.00	3.14	66.47	134.30	82.15	30.45	4.50	4.40	5.23	4.09	0.20	
24	*****	10.80	2.76	108.40	106.00	75.44	28.80	3.60	4.40	5.04	4.09	0.18	
25	*****	16.20	5.61	87.68	99.60	63.78	27.45	3.60	4.40	5.04	4.28	0.16	
26	*****	22.05	275.78	61.30	86.89	58.20	27.45	3.60	4.60	5.04	4.28	0.14	
27	*****	24.75	341.80	52.62	154.00	58.82	26.55	2.70	4.60	5.04	4.47	0.12	
28	*****	23.40	251.95	60.06	126.20	58.20	26.55	2.70	4.60	5.04	4.47	0.10	
29	*****	38.15	124.40	53.86	81.36	53.86	27.45	1.80	4.80	5.04	4.47	0.10	
30	*****	35.95	77.51	46.51	78.99	48.95	28.80	1.80	4.80	4.85		0.40	
31	*****	33.20		64.40	78.20		27.45		4.80	4.85		1.70	
Total	*****	790.97	1460.24	2473.44	4275.78	2607.08	1503.84	384.75	108.80	162.38	119.37	74.20	***** CMSDAY
Mean	*****	25.52	48.67	79.79	137.93	86.90	48.51	12.83	3.51	5.24	4.12	2.39	***** CMS
Max	*****	70.61	341.80	316.32	356.60	161.00	130.70	25.65	4.80	5.80	4.85	8.00	356.60 CMS
Min	*****	6.00	1.80	29.35	71.30	48.95	26.55	1.80	1.80	4.80	3.52	0.10	***** CMS
Runoff	*****	68.34	126.17	213.71	369.43	225.25	129.93	33.24	9.40	14.03	10.31	6.41	***** MCM
Momentary Peak	798.20 CMS. at 294.68 m. (MSL.) at 19.00 Hours , on Jun 26 , 2011												
Runoff Yield	*****	Liters/Second/Square KM.			Momentary Peak Yield			Liters/Second/Square KM.					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	*****	1.60	4.40	12.00	57.93	11.30	20.25	3.20	3.20	2.00	0.30	1.00	
2	*****	1.60	4.60	6.40	57.93	15.30	17.50	3.20	2.80	2.00	0.45	1.00	
3	*****	1.80	4.80	5.35	57.92	16.40	17.50	3.20	2.40	2.00	0.60	1.00	
4	*****	2.00	4.80	4.60	21.90	15.30	16.40	3.20	2.20	2.00	0.65	1.00	
5	*****	2.60	4.40	4.20	20.25	57.94	15.85	3.20	1.60	2.00	0.80	0.95	
6	*****	2.80	8.15	3.80	19.15	57.93	14.75	3.20	1.20	1.80	1.00	0.95	
7	*****	1.60	7.10	5.00	21.35	22.45	12.00	3.20	1.00	1.80	1.40	0.95	
8	*****	1.80	6.05	11.30	57.94	57.93	8.50	2.80	0.95	1.80	1.60	0.95	
9	*****	2.80	5.00	15.30	15.85	20.80	7.10	2.80	0.95	1.60	1.60	0.90	
10	*****	7.45	4.60	57.93	57.96	18.05	6.75	2.80	1.20	1.60	1.60	0.90	
11	*****	4.80	4.40	21.35	57.97	15.85	6.40	2.20	1.40	1.60	1.80	0.90	
12	*****	3.80	3.80	19.70	57.95	14.20	5.70	2.00	1.20	1.40	1.80	0.95	
13	*****	3.20	3.40	21.35	57.96	14.20	5.70	1.80	1.00	1.40	1.80	0.95	
14	*****	3.80	3.40	73.60	57.95	14.20	6.75	1.80	1.80	1.40	1.80	0.95	
15	*****	3.40	3.20	58.00	57.93	14.20	7.45	1.80	2.40	1.40	1.80	0.95	
16	*****	3.20	3.80	58.00	20.80	16.40	8.85	1.80	2.40	1.40	1.80	0.95	
17	*****	4.60	3.40	57.97	57.93	16.40	7.80	1.80	2.40	1.20	1.80	0.95	
18	*****	5.00	3.40	57.94	19.15	57.97	7.10	1.80	2.40	1.20	1.60	0.95	
19	*****	6.75	3.40	57.94	15.30	21.90	6.75	1.60	2.40	0.95	1.60	0.90	
20	*****	6.05	3.00	57.96	57.92	20.25	5.70	1.60	2.40	0.90	1.60	0.90	
21	*****	4.80	2.60	57.94	57.93	19.70	5.00	1.40	2.40	0.80	1.40	0.90	
22	*****	4.00	2.20	57.93	23.00	23.00	5.00	2.00	2.40	0.75	1.40	0.90	
23	*****	3.60	2.20	57.93	57.94	18.60	4.40	2.60	2.20	0.70	1.40	0.90	
24	*****	3.40	2.20	57.92	19.15	17.50	3.80	2.80	2.20	0.65	1.40	0.90	
25	*****	3.20	6.05	22.45	16.95	16.40	3.20	3.00	2.20	0.55	1.40	0.90	
26	*****	3.40	259.40	20.80	14.20	15.30	3.40	3.20	2.20	0.45	1.20	0.85	
27	*****	3.40	148.85	20.80	13.10	15.85	3.20	3.40	2.20	0.35	1.20	0.85	
28	*****	3.80	57.99	23.00	11.30	15.85	3.00	3.40	2.20	0.30	1.20	0.85	
29	*****	4.40	57.94	21.35	10.60	16.95	3.80	3.20	2.20	0.25	1.20	0.85	
30	*****	4.60	21.35	21.35	11.65	16.40	4.00	3.20	2.20	0.25		0.85	
31		4.60		20.80	9.90		3.60		2.00	0.20		0.85	
Total	*****	113.85	649.88	991.96	1094.76	674.52	247.20	77.20	61.70	36.70	39.20	28.55	***** CMSDAY
Mean	*****	3.67	21.66	32.00	35.31	22.48	7.97	2.57	1.99	1.18	1.35	0.92	***** CMS
Max	*****	7.45	259.40	73.60	57.97	57.97	20.25	3.40	3.20	2.00	1.80	1.00	259.40 CMS
Min	*****	1.60	2.20	3.80	9.90	11.30	3.00	1.40	0.95	0.20	0.30	0.85	***** CMS
Runoff	*****	9.84	56.15	85.71	94.59	58.28	21.36	6.67	5.33	3.17	3.39	2.47	***** MCM
Momentary Peak		463.50	CMS. at 348.57 m. (MSL.) at 17.00 Hours , on Jun 26, 2011										
Runoff Yield	*****	Liters/Second/Square KM.			Momentary Peak Yield			8427.272	Liters/Second/Square KM.				

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.12	192.77	193.11	196.17	196.55	194.96	195.28	193.39	192.65	192.43	192.32	192.16	
2	192.10	192.70	192.88	195.79	196.73	194.82	195.89	193.27	192.65	192.43	192.32	192.15	
3	192.09	192.55	192.79	195.11	196.52	194.59	195.24	193.17	192.64	192.43	192.33	192.15	
4	192.08	192.93	192.90	194.88	195.98	194.41	194.78	193.13	192.64	192.42	192.33	192.15	
5	192.07	192.86	192.88	194.56	195.34	195.95	194.53	193.11	192.63	192.45	192.32	192.15	
6	192.07	193.09	193.27	194.23	195.10	196.29	194.33	193.08	192.61	192.45	192.31	192.14	
7	192.16	193.16	194.05	193.98	197.72	196.44	194.21	193.05	192.60	192.44	192.27	192.14	
8	192.71	192.71	193.38	193.83	197.70	197.26	194.17	193.02	192.59	192.43	192.22	192.14	
9	192.39	192.58	193.37	193.78	196.53	197.27	194.17	193.01	192.58	192.41	192.22	192.13	
10	192.30	192.61	193.16	194.21	196.59	196.31	194.11	193.18	192.58	192.40	192.22	192.13	
11	192.26	193.35	192.96	195.25	196.87	195.58	193.97	193.06	192.57	192.39	192.22	192.14	
12	192.23	193.31	192.85	194.55	196.48	195.23	193.85	192.98	192.57	192.39	192.24	192.15	
13	192.20	192.95	192.90	194.58	196.20	194.99	193.76	192.95	192.56	192.38	192.25	192.17	
14	192.16	192.93	192.92	196.99	195.67	194.98	193.70	192.92	192.56	192.38	192.24	192.17	
15	192.16	192.84	192.83	198.80	195.31	195.04	193.68	192.89	192.55	192.39	192.23	192.23	
16	192.15	192.88	192.76	198.17	195.01	195.17	193.83	192.86	192.53	192.42	192.22	192.29	
17	192.13	192.95	192.73	198.81	195.61	195.05	193.79	192.85	192.52	192.40	192.22	192.25	
18	192.12	193.36	192.69	197.07	195.91	196.23	193.63	192.84	192.50	192.37	192.22	192.21	
19	192.09	193.81	192.73	195.92	196.07	198.03	193.57	192.83	192.50	192.36	192.22	192.17	
20	192.08	193.71	192.79	196.15	198.82	196.72	193.51	192.82	192.49	192.35	192.21	192.14	
21	192.08	193.72	192.86	196.21	198.45	197.32	193.46	192.80	192.49	192.34	192.20	192.13	
22	192.09	193.44	192.78	196.09	198.86	197.21	193.41	192.78	192.49	192.34	192.19	192.12	
23	192.09	193.03	192.68	195.68	198.11	196.14	193.36	192.76	192.48	192.33	192.19	192.12	
24	192.13	192.84	192.64	196.31	197.14	195.91	193.32	192.75	192.48	192.32	192.18	192.11	
25	192.42	192.94	193.30	196.07	196.43	195.51	193.27	192.73	192.48	192.31	192.18	192.11	
26	192.51	193.32	199.00	195.15	196.43	195.34	193.26	192.72	192.47	192.31	192.17	192.11	
27	192.36	193.17	200.38	194.84	196.21	195.67	193.25	192.71	192.46	192.31	192.17	192.11	
28	192.29	193.14	200.28	195									

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.73	60.30	92.45	534.00	618.75	314.20	367.60	119.05	49.50	31.82	24.10	13.87	
2	10.67	54.00	70.60	458.20	659.90	293.90	478.00	107.65	49.50	31.82	24.10	13.33	
3	10.13	41.13	62.10	338.70	612.00	261.60	360.80	98.15	48.60	31.82	24.78	13.33	
4	9.60	75.35	72.50	302.60	496.00	236.40	288.20	94.35	48.60	31.05	24.78	13.33	
5	9.07	68.70	70.60	257.40	377.80	490.00	253.20	92.45	47.70	33.38	24.10	13.33	
6	9.07	90.55	107.65	213.75	337.00	560.25	226.25	89.60	45.90	33.38	23.43	12.80	
7	13.87	97.20	191.25	182.50	908.00	594.00	211.25	86.75	45.00	32.60	20.73	12.80	
8	54.90	54.90	118.10	163.75	902.50	790.00	206.25	83.90	44.22	31.82	17.35	12.80	
9	28.83	43.45	117.15	158.00	614.25	792.50	206.25	82.95	43.45	30.28	17.35	12.27	
10	22.75	45.90	97.20	211.25	627.75	564.75	198.75	99.10	43.45	29.50	17.35	12.27	
11	20.05	115.25	78.20	362.50	693.15	420.40	181.25	87.70	42.68	28.83	17.35	12.80	
12	18.02	111.45	67.75	256.00	603.00	359.10	166.25	80.10	42.68	28.83	18.70	13.33	
13	16.00	77.25	72.50	260.20	540.00	318.55	156.00	77.25	41.90	28.15	19.38	14.40	
14	13.87	75.35	74.40	722.55	436.60	317.10	150.00	74.40	41.90	28.15	18.70	14.40	
15	13.87	66.80	65.85	1216.00	372.70	326.80	148.00	71.55	41.13	28.83	18.02	18.02	
16	13.33	70.60	59.40	1033.60	321.70	348.90	163.75	68.70	39.57	31.05	17.35	22.07	
17	12.27	77.25	56.70	1218.95	425.80	328.50	159.00	67.75	38.80	29.50	17.35	19.38	
18	11.73	116.20	53.10	742.50	482.00	546.75	143.00	66.80	37.25	27.48	17.35	16.68	
19	10.13	161.25	56.70	484.00	514.00	994.40	137.00	65.85	37.25	26.80	17.35	14.40	
20	9.60	151.00	62.10	530.00	1221.90	657.60	131.00	64.90	36.48	26.13	16.68	12.80	
21	9.60	152.00	68.70	542.25	1114.50	805.00	126.00	63.00	36.48	25.45	16.00	12.27	
22	10.13	124.00	61.20	518.00	1233.70	777.50	121.00	61.20	36.48	25.45	15.47	11.73	
23	10.13	84.85	52.20	438.40	1016.80	528.00	116.20	59.40	35.70	24.78	15.47	11.73	
24	12.27	66.80	48.60	564.75	760.00	482.00	112.40	58.50	35.70	24.10	14.93	11.20	
25	31.05	76.30	110.50	514.00	591.75	407.80	107.65	56.70	35.70	23.43	14.93	11.20	
26	38.02	112.40	1275.00	345.50	591.75	377.80	106.70	55.80	34.93	23.43	14.40	11.20	
27	26.80	98.15	1711.40	296.80	542.25	436.60	105.75	54.90	34.15	23.43	14.40	11.20	
28	22.07	95.30	1678.40	355.70	480.00	350.60	105.75	53.10	34.15	22.75	14.40	12.80	
29	23.43	103.85	1266.15	289.60	379.50	309.85	101.00	51.30	33.				

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Nai Mueang , Uttaradit (N.2B)**

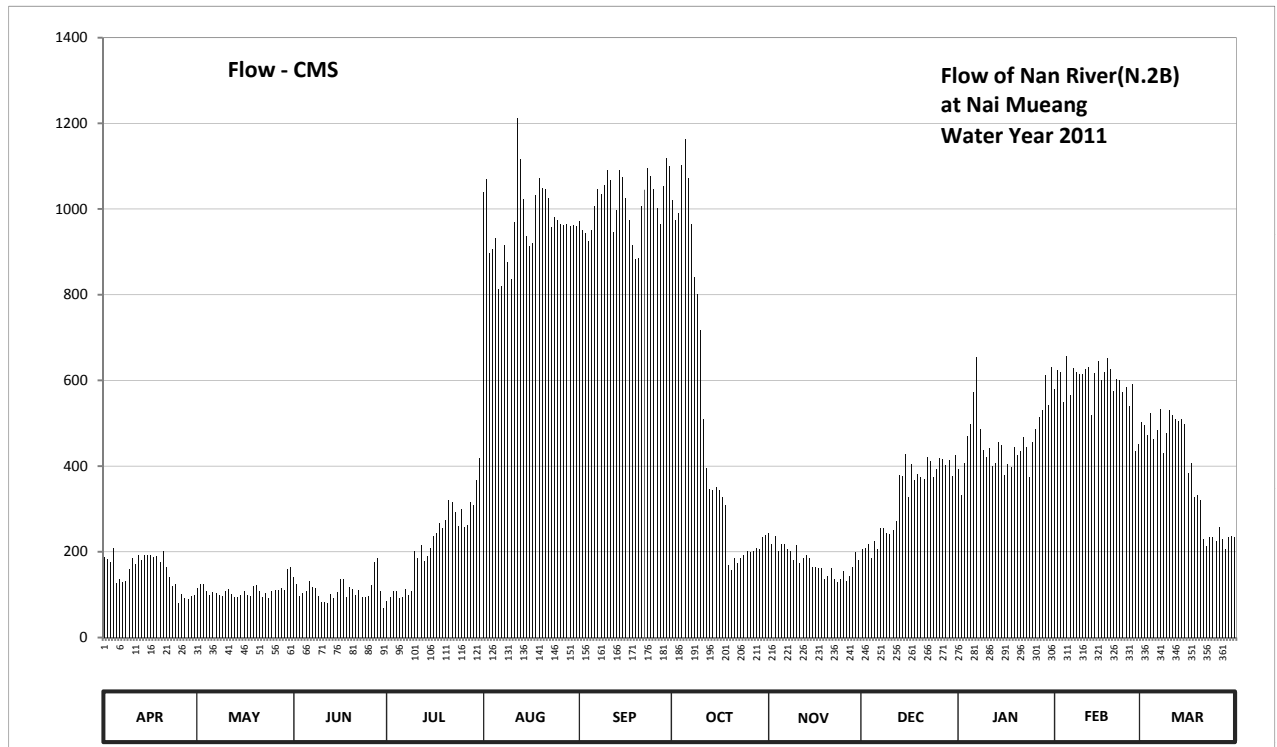
Lat 17 - 36 - 30 N Long 100 - 06 - 08 E

Location : on right bank at Mueang, Uttaradit.

	Ban	Nai Mueang	Amphoe	Mueang	Changwat	Uttaradit
Drainage Area	16,865	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+52.300	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+63.138 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1993 to date					
Rating Operation						
Period of Rating	1993 to date					
Rated by Flot	-					
Rated by Current Meter	1993 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 29 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.41	52.89	53.07	52.65	58.16	57.84	58.08	53.77	53.53	54.68	55.76	55.31	
2	53.38	52.96	52.96	52.73	58.31	57.73	57.85	53.62	53.56	54.33	56.03	55.27	
3	53.33	52.96	52.75	52.83	57.46	57.70	57.93	53.73	53.61	54.77	56.01	55.14	
4	53.56	52.83	52.80	52.83	57.51	57.60	58.47	53.51	53.39	55.13	55.58	55.43	
5	52.97	52.77	52.84	52.71	57.64	57.73	58.75	53.62	53.65	55.28	56.23	55.09	
6	53.04	52.82	53.02	52.72	57.02	58.01	58.32	53.61	53.53	55.73	55.68	55.21	
7	53.00	52.80	52.91	52.86	57.06	58.20	57.80	53.53	53.85	56.21	56.06	55.49	
8	53.01	52.77	52.88	52.76	57.55	58.14	57.17	53.51	53.85	55.22	56.00	54.90	
9	53.21	52.75	52.75	52.83	57.35	58.24	56.97	53.37	53.78	54.94	55.98	55.16	
10	53.40	52.83	52.64	53.51	57.14	58.41	56.53	53.59	53.76	54.85	55.97	55.48	
11	53.29	52.86	52.63	53.40	57.82	58.30	55.35	53.31	53.81	54.96	56.05	55.41	
12	53.44	52.78	52.61	53.60	58.99	57.71	54.70	53.39	53.95	54.72	56.08	55.35	
13	53.37	52.72	52.78	53.34	58.53	57.96	54.41	53.45	54.60	54.77	55.41	55.32	
14	53.44	52.72	52.70	53.43	58.09	58.41	54.40	53.40	54.59	55.04	55.99	55.35	
15	53.45	52.76	52.82	53.55	57.66	58.33	54.43	53.25	54.89	55.01	56.16	55.29	
16	53.45	52.83	53.05	53.73	57.54	58.10	54.40	53.25	54.29	54.60	55.89	54.63	
17	53.42	52.76	53.04	53.77	57.57	57.85	54.29	53.23	54.75	54.75	56.01	54.77	
18	53.43	52.74	52.73	53.92	58.13	57.55	54.19	53.23	54.54	54.71	56.20	54.30	
19	53.33	52.93	52.90	53.85	58.32	57.39	53.28	53.04	54.62	54.98	56.04	54.32	
20	53.51	52.95	52.86	53.97	58.21	57.40	53.19	53.09	54.57	54.87	55.74	54.26	
21	53.25	52.84	52.76	54.25	58.20	58.01	53.39	53.23	54.55	54.92	55.91	53.69	
22	53.07	52.72	52.85	54.23	58.10	58.19	53.32	53.04	54.84	55.11	55.89	53.58	
23	52.92	52.80	52.73	54.08	57.77	58.43	53.39	53.00	54.79	54.98	55.73	53.72	
24	52.96	52.70	52.73	53.88	57.88	58.34	53.45	53.04	54.57	54.57	55.79	53.71	
25	52.61	52.83	52.74	54.12	57.85	58.20	53.51	53.18	54.68	55.05	55.53	53.66	
26	52.78	52.85	52.94	53.86	57.80	57.99	53.49	53.01	54.83	55.22	55.83	53.86	
27	52.70	52.85	53.33	53.89	57.79	57.80	53.51	53.10	54.82	55.38	54.92	53.68	
28	52.69	52.88	53.39	54.23	57.80	58.23	53.56	53.25	54.74	55.48	55.02	53.53	
29	52.75	52.85	52.83	54.19	57.78	58.54	53.54	53.49	54.80	55.96	55.31	53.71	
30	52.76	53.21	52.51	54.54	57.79	58.45	53.71	53.37	54.59	55.55		53.73	
31		53.25		54.83	57.78		53.75		54.87	56.08		53.71	
Mean	53.16	52.85	52.85	53.58	57.83	58.03	55.13	53.34	54.30	55.09	55.82	54.58	
Max	53.56	53.25	53.39	54.83	58.99	58.54	58.75	53.77	54.89	56.21	56.23	55.49	58.99
Min	52.61	52.70	52.51	52.65	57.02	57.39	53.19	53.00	53.39	54.33	54.92	53.53	52.51
Annual Max Momentary Gage Height	59.07		m. (MSL.) ,		at 15.00 Hours , on Aug 12 , 2011								
Zero Gage at Bottom Elevation	52.30		m. (MSL.) ,		River Bed	47.18	m. (MSL)						
Left Bank Elevation	59.93		m. (MSL.) ,										
Right Bank Elevation	60.83		m. (MSL.) ,		Drainage Area	16865	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	187.50	115.70	139.80	84.50	1038.60	973.00	1021.80	243.20	205.50	392.00	578.30	502.30		
2	183.20	124.80	124.80	94.90	1070.10	951.00	975.00	219.20	210.00	333.50	623.50	495.20		
3	176.20	124.80	97.50	107.90	897.00	945.00	991.00	236.80	217.60	407.80	620.20	472.50		
4	210.00	107.90	104.00	107.90	907.00	925.00	1103.70	202.50	184.60	470.80	548.20	523.00		
5	126.10	100.10	109.20	92.30	933.00	951.00	1162.50	219.20	224.00	497.00	657.80	463.70		
6	135.60	106.60	132.80	93.60	811.90	1007.10	1072.20	217.60	205.50	573.30	564.90	484.70		
7	130.00	104.00	118.30	111.80	819.70	1047.00	965.00	205.50	256.00	653.90	628.60	533.10		
8	131.40	100.10	114.40	98.80	915.00	1034.40	841.10	202.50	256.00	486.50	618.50	430.50		
9	159.40	97.50	97.50	107.90	875.50	1055.40	802.20	181.80	244.80	437.50	615.10	476.00		
10	186.00	107.90	83.20	202.50	835.30	1091.10	716.30	214.50	241.60	421.70	613.50	531.40		
11	170.60	111.80	81.90	186.00	969.00	1068.00	509.20	173.40	249.60	441.00	626.90	519.70		
12	192.00	101.40	79.30	216.00	1212.90	947.00	395.50	184.60	272.00	399.00	631.90	509.20		
13	181.80	93.60	101.40	177.60	1116.30	997.00	346.70	193.50	378.00	407.80	519.70	504.00		
14	192.00	93.60	91.00	190.50	1023.90	1091.10	345.00	186.00	376.40	455.00	616.80	509.20		
15	193.50	98.80	106.60	208.50	937.00	1074.30	350.00	165.00	428.70	449.70	645.30	498.70		
16	193.50	107.90	137.00	236.80	913.00	1026.00	345.00	165.00	326.90	378.00	600.10	383.30		
17	189.00	98.80	135.60	243.20	919.00	975.00	326.90	162.20	404.30	404.30	620.20	407.80		
18	190.50	96.20	94.90	267.20	1032.30	915.00	310.40	162.20	368.10	397.30	652.00	328.50		
19	176.20	120.90	117.00	256.00	1072.20	883.10	169.20	135.60	381.50	444.50	625.20	331.80		
20	202.50	123.50	111.80	275.20	1049.10	885.00	156.60	142.60	373.10	425.20	575.00	321.90		
21	165.00	109.20	98.80	320.20	1047.00	1007.10	184.60	162.20	369.80	434.00	603.40	230.40		
22	139.80	93.60	110.50	316.90	1026.00	1044.90	174.80	135.60	420.00	467.30	600.10	213.00		
23	119.60	104.00	94.90	292.80	959.00	1095.30	184.60	130.00	411.30	444.50	573.30	235.20		
24	124.80	91.00	94.90	260.80	981.00	1076.40	193.50	135.60	373.10	373.10	583.30	233.60		
25	79.30	107.90	96.20	299.20	975.00	1047.00	202.50	155.20	392.00	456.70	539.80	225.60		
26	101.40	110.50	122.20	257.60	965.00	1003.00	199.50	131.40	418.30	486.50	590.00	257.60		
27	91.00	110.50	176.20	262.40	963.00	965.00	202.50	144.00	416.50	514.50	434.00	228.80		
28	89.70	114.40	184.60	316.90	965.00	1053.30	210.00	165.00	402.50	531.40	451.50	205.50		
29	97.50	110.50	107.90	310.40	961.00	1118.40	207.00	199.50	413.00	611.80	502.30	233.60		
30	98.80	159.40	68.10	368.10	963.00	1099.50	233.60	181.80	376.40	543.10		236.80		
31		165.00		418.30	961.00		240.00		425.20	631.90		233.60		
Total	4613.90	3411.90	3332.30	6782.70	30113.80	30351.40	15137.90	5353.20	10222.30	14370.60	17059.40	11760.20	152509.60	CMSDAY
Mean	153.80	110.10	111.10	218.80	971.40	1011.70	488.30	178.40	329.80	463.60	588.30	379.40	416.70	CMS
Max	210.00	165.00	184.60	418.30	1212.90	1118.40	1162.50	243.20	428.70	653.90	657.80	533.10	1212.90	CMS
Min	79.30	91.00	68.10	84.50	811.90	883.10	156.60	130.00	184.60	333.50	434.00	205.50	68.10	CMS
Runoff	398.64	294.79	287.91	586.03	2601.83	2622.36	1307.91	462.52	883.21	1241.62	1473.93	1016.08	13176.83	MCM
Momentary Peak	1230.40 CMS. at 59.07 m. (MSL.) at 15.00 Hours , on Aug 12 , 2011													
Runoff Yield	24.71	Liters/Second/Square KM.			Momentary Peak Yield			72.956	Liters/Second/Square KM.					

WATER YEAR : 2011

NAN RIVER BASIN

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

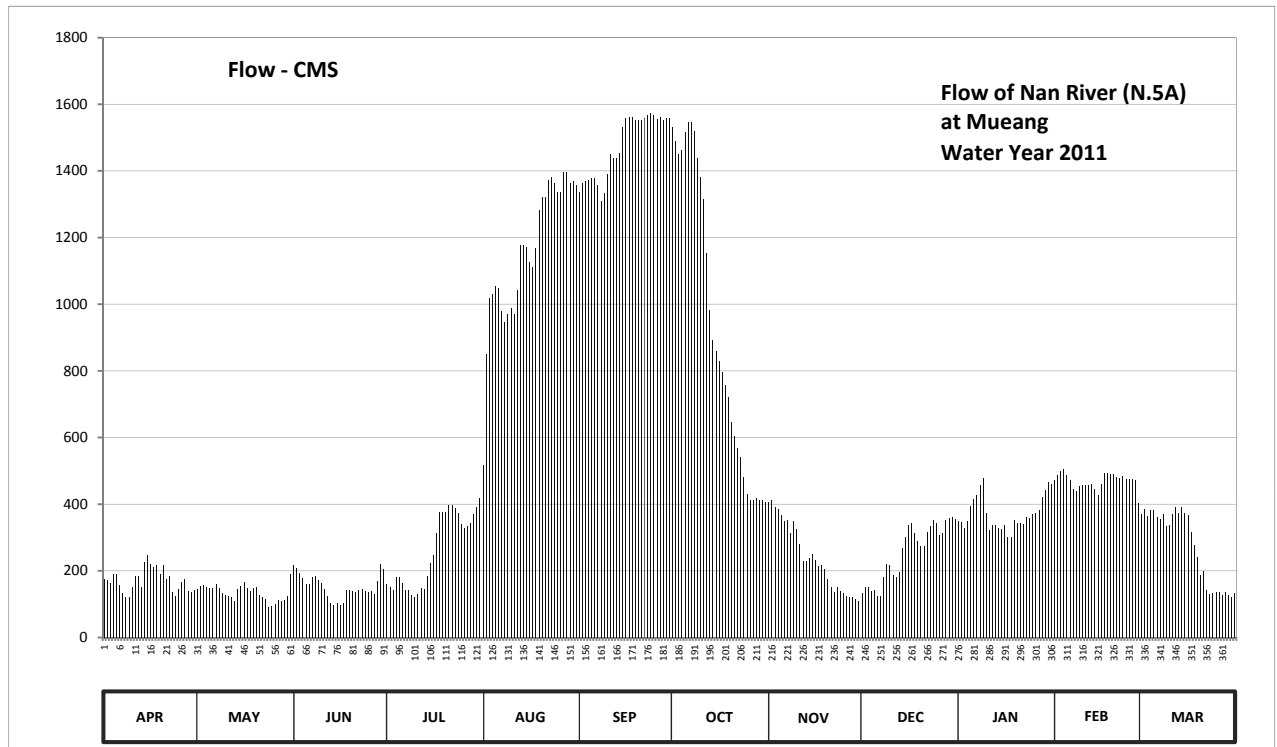
Lat 16 - 49 - 19 N Long 100 - 15 - 49 E

Location : on right bank near the Post Office and about 1 kilometer upstream from gaging station N.5

	Ban	Nai Mueang	Amphoe	Mueang	Changwat	Phitsanulok
Drainage Area	25,039	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+34.500	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+44.800 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1963 to date					
Rating Operation						
Period of Rating	1966 to date					
Rated by Flot	-					
Rated by Current Meter	1966 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +44.400 m. (MSL.), records are channel flow only.					
General Description	Records good. Flow effected by Naresuan Dam.					
	Stage-discharge relation defined by 24 discharge measurements made in 1911.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.79	36.41	37.30	36.61	40.25	44.65	45.31	39.30	36.24	38.73	39.88	38.95	
2	36.75	36.52	37.18	36.48	42.54	44.74	45.17	39.38	36.49	38.69	40.00	39.09	
3	36.62	36.53	37.02	36.35	43.42	44.76	45.04	39.15	36.48	38.54	40.11	38.88	
4	36.97	36.47	36.81	36.86	43.47	44.77	45.08	39.09	36.32	38.74	40.16	39.07	
5	36.96	36.42	36.59	36.87	43.57	44.79	45.26	38.92	36.36	39.19	40.01	39.05	
6	36.56	36.44	36.61	36.64	43.55	44.79	45.36	38.72	36.13	39.39	39.88	38.85	
7	36.21	36.58	36.85	36.35	43.23	44.72	45.36	38.76	36.10	39.51	39.65	38.79	
8	36.08	36.45	36.91	36.36	43.07	44.55	45.27	38.38	36.84	39.75	39.61	38.95	
9	36.09	36.25	36.74	36.15	43.19	44.63	45.00	38.72	37.34	39.94	39.74	38.58	
10	36.48	36.14	36.63	36.08	43.28	44.84	44.81	38.49	37.30	38.98	39.76	38.62	
11	36.89	36.13	36.39	36.18	43.19	45.03	44.57	38.01	36.92	38.47	39.76	38.95	
12	36.91	36.06	36.12	36.42	43.52	44.99	43.99	37.42	36.85	38.63	39.75	39.15	
13	36.47	35.93	35.84	36.40	44.08	44.99	43.25	37.42	37.04	38.62	39.78	38.99	
14	37.39	36.40	35.77	36.90	44.08	45.05	42.77	37.54	37.87	38.53	39.65	39.16	
15	37.65	36.52	35.85	37.37	44.05	45.31	42.60	37.66	38.23	38.51	39.50	38.96	
16	37.32	36.68	35.76	37.65	43.88	45.40	42.42	37.47	38.61	38.61	39.77	38.91	
17	37.22	36.45	35.85	38.36	43.82	45.41	42.23	37.24	38.67	38.25	40.06	38.41	
18	37.27	36.33	36.34	39.02	44.04	45.41	41.99	37.30	38.38	38.22	40.06	37.98	
19	36.96	36.43	36.35	39.01	44.45	45.38	41.75	37.14	38.09	38.78	40.03	37.58	
20	37.29	36.48	36.30	39.02	44.59	45.38	41.22	36.79	37.94	38.67	40.04	36.94	
21	36.78	36.17	36.28	39.22	44.59	45.38	40.92	36.46	37.94	38.68	39.95	37.07	
22	36.90	36.05	36.35	39.20	44.77	45.40	40.65	36.26	38.40	38.64	39.93	36.36	
23	36.27	36.00	36.41	39.14	44.81	45.43	40.44	36.47	38.58	38.84	39.99	36.20	
24	36.12	35.66	36.33	38.97	44.74	45.45	39.95	36.31	38.78	38.82	39.92	36.25	
25	36.40	35.72	36.29	38.65	44.64	45.43	39.52	36.21	38.68	38.94	39.90	36.29	
26	36.66	35.78	36.31	38.53	44.64	45.39	39.36	36.10	38.31	38.97	39.90	36.28	
27	36.77	35.94	36.20	38.59	44.86	45.41	39.36	36.08	38.36	39.06	39.87	36.16	
28	36.33	35.91	36.71	38.68	44.86	45.38	39.43	36.08	38.78	39.44	39.27	36.26	
29	36.27	35.97	37.34	38.94	44.74	45.40	39.36	36.00	38.81	39.64	39.08	36.14	
30	36.34	36.10	37.15	39.15	44.76	45.40	39.36	35.90	38.86				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	176.20	146.80	218.50	161.80	516.50	1338.00	1533.00	406.00	134.00	349.00	471.60	371.00		
2	173.00	155.00	208.30	152.00	849.80	1363.20	1491.00	414.00	152.80	345.00	486.00	385.00		
3	162.60	155.80	194.70	142.20	1018.60	1368.80	1452.00	391.00	152.00	330.00	499.20	364.00		
4	190.60	151.30	177.80	181.80	1030.10	1371.60	1464.00	385.00	140.00	350.00	505.20	383.00		
5	189.80	147.50	160.30	182.60	1053.10	1377.20	1518.00	368.00	143.00	395.00	487.20	381.00		
6	158.00	149.00	161.80	164.20	1048.50	1377.20	1548.00	348.00	125.80	415.00	471.60	361.00		
7	131.80	159.50	181.00	142.20	978.30	1357.60	1548.00	352.00	123.50	428.10	444.00	355.00		
8	122.00	149.80	185.80	143.00	947.30	1310.00	1521.00	314.20	180.20	456.00	439.20	371.00		
9	122.80	134.80	172.20	127.30	970.10	1332.40	1440.00	348.00	221.90	478.80	454.80	334.00		
10	152.00	126.50	163.40	122.00	988.80	1392.00	1383.00	325.00	218.50	374.00	457.20	338.00		
11	184.20	125.80	145.30	129.50	970.10	1449.00	1315.60	280.90	186.60	323.00	457.20	371.00		
12	185.80	120.50	125.00	147.50	1041.60	1437.00	1153.50	228.70	181.00	339.00	456.00	391.00		
13	151.30	110.80	104.00	146.00	1178.40	1437.00	982.50	228.70	196.40	338.00	459.60	375.00		
14	226.20	146.00	98.90	185.00	1178.40	1455.00	890.60	238.90	268.30	329.00	444.00	392.00		
15	248.50	155.00	104.70	224.40	1170.00	1533.00	860.00	249.40	300.70	327.00	427.00	372.00		
16	220.20	167.40	98.20	248.50	1126.00	1560.00	829.40	233.00	337.00	337.00	458.40	367.00		
17	211.70	149.80	104.70	312.40	1111.00	1563.00	797.10	213.40	343.00	302.50	493.20	317.00		
18	216.00	140.80	141.50	378.00	1167.20	1563.00	758.40	218.50	314.20	299.80	493.20	278.20		
19	189.80	148.30	142.20	377.00	1282.00	1554.00	720.50	204.90	288.10	354.00	489.60	242.30		
20	217.70	152.00	138.50	378.00	1321.20	1554.00	644.80	176.20	274.60	343.00	490.80	188.20		
21	175.40	128.70	137.00	398.00	1321.20	1554.00	603.60	150.50	274.60	344.00	480.00	198.90		
22	185.00	119.80	142.20	396.00	1371.60	1560.00	568.50	135.50	316.00	340.00	477.60	143.00		
23	136.30	116.00	146.80	390.00	1383.00	1569.00	541.20	151.30	334.00	360.00	484.80	131.00		
24	125.00	91.20	140.80	373.00	1363.20	1575.00	480.00	139.30	354.00	358.00	476.40	134.80		
25	146.00	95.40	137.80	341.00	1335.20	1569.00	429.20	131.80	344.00	370.00	474.00	137.80		
26	165.80	99.60	139.30	329.00	1335.20	1557.00	412.00	123.50	307.90	373.00	474.00	137.00		
27	174.60	111.50	131.00	335.00	1398.00	1563.00	412.00	122.00	312.40	382.00	470.40	128.00		
28	140.80	109.30	169.80	344.00	1398.00	1554.00	419.30	122.00	354.00	420.40	403.00	135.50		
29	136.30	113.80	221.90	370.00	1363.20	1560.00	412.00	116.00	357.00	442.80	384.00	126.50		
30	141.50	123.50	205.80	391.00	1368.80	1560.00	412.00	108.50	362.00	466.80		120.50		
31		191.40		417.10	1357.60		406.00		355.00	458.40		133.30		
Total	5156.90	4192.60	4599.20	8129.50	35942.00	44314.00	28946.20	7224.20	7952.50	11528.60	13509.20	8463.00	179957.90	CMSDAY
Mean	171.90	135.20	153.30	262.20	1159.40	1477.10	933.70	240.80	256.50	371.90	465.80	273.00	491.70	CMS
Max	248.50	191.40	221.90	417.10	1398.00	1575.00	1548.00	414.00	362.00	478.80	505.20	392.00	1575.00	CMS
Min	122.00	91.20	98.20	122.00	516.50	1310.00	406.00	108.50	123.50	299.80	384.00	120.50	91.20	CMS
Runoff	445.56	362.24	397.37	702.39	3105.39	3828.73	2500.95	624.17	687.10	996.07	1167.19	731.20	15548.36	MCM
Momentary Peak	1581.00	CMS. at 45.47 m. (MSL.) at 14.00 Hours , on Sep 24 , 2011												
Runoff Yield	19.64	Liters/Second/Square KM.			Momentary Peak Yield			63.141	Liters/Second/Square KM.					

WATER YEAR : 2011

NAN RIVER BASIN

Nan River at Ban Rat Chang Khwan , Phichit (N.7A)

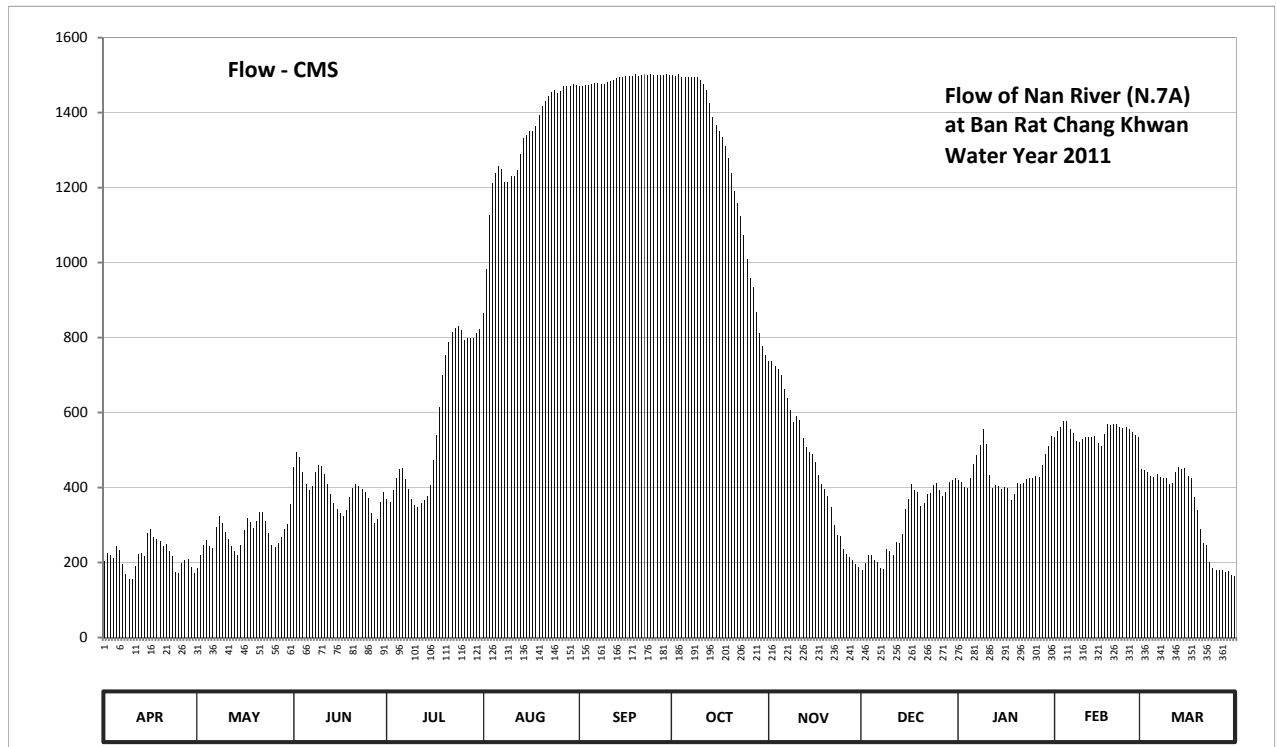
Lat 16 - 28 - 03 N Long 100 - 20 - 05 E

Location : on right bank in front of Phichit Phitthaya Khom School

	Ban	Rat Chang Khwan	Amphoe	Mueang	Changwat	Phichit
Drainage Area	27,897	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+26.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	In front of Phichit Phittaya Khom School.				Elevation	+42.146 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2000 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Fairly Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by Naresuan Dam.					
	Stage-discharge relation defined by 30 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.55	28.31	31.34	30.44	34.21	37.39	37.53	33.45	28.25	31.00	32.02	31.29	
2	28.79	28.72	31.68	30.35	34.87	37.39	37.52	33.45	28.49	30.94	32.15	31.26	
3	28.74	29.05	31.56	30.71	35.65	37.40	37.54	33.37	28.73	30.80	32.25	31.21	
4	28.63	29.19	31.21	31.06	36.09	37.40	37.50	33.32	28.74	30.78	32.37	31.12	
5	29.02	29.02	30.89	31.28	36.22	37.41	37.50	33.23	28.58	31.05	32.37	31.08	
6	28.89	28.95	30.71	31.30	36.32	37.42	37.51	32.99	28.50	31.40	32.19	31.16	
7	28.44	29.61	30.84	31.02	36.28	37.43	37.51	32.83	28.32	31.61	32.10	31.07	
8	28.14	29.94	31.20	30.75	36.10	37.41	37.51	32.60	28.29	31.85	31.92	31.05	
9	27.96	29.73	31.37	30.45	36.10	37.41	37.51	32.35	28.93	32.19	31.90	31.06	
10	27.97	29.45	31.36	30.26	36.18	37.44	37.46	32.48	28.85	31.87	31.97	30.90	
11	28.38	29.23	31.16	30.20	36.18	37.45	37.41	32.38	28.72	31.13	32.01	30.91	
12	28.76	29.02	30.90	30.33	36.26	37.47	37.33	31.99	29.13	30.77	32.01	31.20	
13	28.78	28.85	30.60	30.42	36.47	37.49	37.16	31.80	29.10	30.85	32.01	31.33	
14	28.70	28.73	30.33	30.53	36.69	37.50	36.97	31.69	29.38	30.83	32.04	31.27	
15	29.43	29.05	30.15	30.85	36.73	37.51	36.86	31.65	30.14	30.74	31.88	31.31	
16	29.55	29.50	30.02	31.49	36.78	37.52	36.78	31.44	30.46	30.80	31.82	31.10	
17	29.28	29.87	29.94	32.06	36.78	37.52	36.70	31.13	30.90	30.77	32.09	31.06	
18	29.22	29.75	30.11	32.66	36.85	37.52	36.58	30.89	30.72	30.41	32.30	30.50	
19	29.18	29.58	30.51	33.23	37.00	37.54	36.42	30.74	30.64	30.59	32.28	30.12	
20	29.01	29.78	30.77	33.55	37.12	37.52	36.22	30.53	30.25	30.92	32.30	29.55	
21	29.07	30.05	30.88	33.78	37.19	37.53	35.98	30.21	30.32	30.89	32.31	29.09	
22	28.85	30.05	30.84	33.93	37.25	37.54	35.81	29.66	30.60	30.91	32.24	29.05	
23	28.69	29.80	30.74	34.00	37.31	37.53	35.63	29.35	30.62	31.03	32.23	28.50	
24	28.19	29.43	30.65	34.02	37.33	37.54	35.36	29.34	30.85	31.05	32.24	28.31	
25	28.18	29.05	30.47	33.96	37.29	37.53	35.02	28.92	30.93	31.06	32.20	28.27	
26	28.49	28.98	30.04	33.80	37.32	37.53	34.74	28.77	30.71	31.12	32.14	28.27	
27	28.58	29.11	29.74	33.83	37.38	37.53	34.60	28.65	30.52	31.07	32.07	28.26	
28	28.61	29.31	29.86	33.83	37.38	37.53	34.23	28.56	30.65	31.37	32.01	28.19	
29	28.35	29.53	30.35	33.84	37.39	37.54	33.91	28.45	30.96	31.65	31.52	28.24	
30	28.15	29.69	30.67	33.92	37.41	37.53	33.71	28.34	30.99				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	204.70	184.30	455.40	368.60	863.80	1472.00	1500.00	736.00	179.30	419.00	534.40	449.90	
2	225.20	219.20	493.60	360.50	982.60	1472.00	1498.00	736.00	199.60	413.60	550.00	446.60	
3	220.90	247.20	479.60	392.90	1127.50	1474.00	1502.00	723.20	220.00	401.00	562.20	441.10	
4	211.50	259.20	441.10	425.30	1212.00	1474.00	1494.00	715.20	220.90	399.20	577.20	431.60	
5	244.70	244.70	409.10	448.80	1238.00	1476.00	1494.00	700.80	207.30	424.20	577.20	427.40	
6	233.60	238.80	392.90	451.00	1258.00	1478.00	1496.00	662.50	200.50	462.00	554.80	435.80	
7	195.40	294.90	404.60	421.10	1250.00	1480.00	1496.00	638.50	185.20	485.20	544.00	426.30	
8	169.90	323.60	440.00	396.50	1214.00	1476.00	1496.00	606.00	182.70	514.00	522.40	424.20	
9	154.80	305.10	458.70	369.50	1214.00	1476.00	1496.00	574.70	237.10	554.80	520.00	425.30	
10	155.60	281.30	457.60	352.40	1230.00	1482.00	1486.00	591.00	230.30	516.40	528.40	410.00	
11	190.30	262.60	435.80	347.00	1230.00	1484.00	1476.00	578.50	219.20	432.60	533.20	410.90	
12	222.60	244.70	410.00	358.70	1246.00	1488.00	1460.00	530.80	254.00	398.30	533.20	440.00	
13	224.30	230.30	383.00	366.80	1288.00	1492.00	1426.00	508.00	251.50	405.50	533.20	454.30	
14	217.50	220.00	358.70	376.70	1332.00	1494.00	1388.00	494.80	275.30	403.70	536.80	447.70	
15	279.60	247.20	342.50	405.50	1340.00	1496.00	1366.00	490.00	341.60	395.60	517.60	452.10	
16	289.70	285.50	330.80	471.90	1350.00	1498.00	1350.00	466.40	370.40	401.00	510.40	429.50	
17	266.80	317.30	323.60	539.20	1350.00	1498.00	1334.00	432.60	410.00	398.30	542.80	425.30	
18	261.70	306.80	338.90	614.40	1364.00	1498.00	1310.00	409.10	393.80	365.90	568.50	374.00	
19	258.30	292.30	374.90	700.80	1394.00	1502.00	1278.00	395.60	386.60	382.10	566.00	339.80	
20	243.90	309.30	398.30	752.00	1418.00	1498.00	1238.00	376.70	351.50	411.80	568.50	289.70	
21	249.00	333.50	408.20	788.80	1432.00	1500.00	1190.20	347.90	357.80	409.10	569.80	250.70	
22	230.30	333.50	404.60	814.10	1444.00	1502.00	1157.90	299.10	383.00	410.90	561.00	247.20	
23	216.70	311.00	395.60	826.00	1456.00	1500.00	1123.70	272.80	384.80	422.20	559.70	200.50	
24	174.20	279.60	387.50	829.60	1460.00	1502.00	1072.40	271.90	405.50	424.20	561.00	184.30	
25	173.30	247.20	371.30	819.20	1452.00	1500.00	1009.60	236.20	412.70	425.30	556.00	181.00	
26	199.60	241.30	332.60	792.00	1458.00	1500.00	959.20	223.50	392.90	431.60	548.80	181.00	
27	207.30	252.40	305.90	797.10	1470.00	1500.00	934.00	213.30	375.80	426.30</			

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Ban Hor Krai , Phichit (N.8A)**

Lat 16 - 04 - 45 N Long 100 - 24 - 00 E

Location : on right bank opposite to Wat Bang Mun Nak.

	Ban	Hor Krai	Amphoe	Bang Mun Nak	Changwat	Phichit
Drainage Area	31,472	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+20.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 89 meters upstream from the top staff gage.		Elevation	+30.948 m. (MSL.)		
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2000 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Fairly Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +30.670 m.(MSL.), records are channel flow only.					
General Description	Records Fair. Flow effected by Naresuan Dam.					
	Stage-discharge relation defined by 28 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.67	22.64	26.84	25.81	29.80	31.75	31.61	29.88	23.97	25.55	26.62	26.16	
2	23.01	22.75	27.43	25.89	29.93	31.77	31.60	29.51	23.92	25.47	26.54	25.83	
3	23.20	23.18	27.66	26.12	30.14	31.79	31.61	29.48	23.82	25.36	26.60	25.74	
4	23.16	23.49	27.60	26.68	30.46	31.80	31.62	29.45	23.75	25.14	26.71	25.67	
5	23.14	23.51	27.42	27.07	30.67	31.81	31.62	29.40	23.72	25.15	26.81	25.60	
6	23.32	23.43	27.17	27.24	30.78	31.82	31.59	29.36	23.70	25.50	26.81	25.62	
7	23.08	23.83	27.18	27.11	30.84	31.82	31.59	29.35	23.06	25.79	26.68	25.57	
8	22.71	24.58	27.44	26.78	30.80	31.83	31.57	29.32	22.83	26.05	26.56	25.47	
9	22.41	24.80	27.75	26.35	30.80	31.84	31.55	29.11	22.77	26.42	26.40	25.50	
10	22.25	24.65	27.94	25.92	30.83	31.86	31.55	28.95	22.73	26.53	26.43	25.55	
11	22.31	24.32	27.89	25.60	30.85	31.87	31.52	28.91	22.69	26.41	26.47	25.58	
12	22.62	24.00	27.70	25.62	30.91	31.85	31.49	28.79	22.73	25.94	26.50	25.60	
13	22.77	23.72	27.35	25.76	30.98	31.85	31.45	28.59	23.44	25.73	26.53	25.77	
14	22.84	23.65	26.92	25.89	31.08	31.86	31.38	28.41	23.53	25.75	26.57	25.80	
15	22.80	23.94	26.38	26.02	31.15	31.86	31.32	28.21	23.86	25.76	26.55	25.77	
16	22.90	24.04	26.01	26.38	31.20	31.87	31.28	28.06	24.35	25.69	26.41	25.68	
17	23.12	23.98	25.74	26.66	31.23	31.87	31.24	27.99	24.80	25.75	26.47	25.55	
18	23.53	24.79	25.45	28.07	31.28	31.87	31.19	27.90	25.03	25.56	26.69	25.31	
19	23.52	24.76	25.49	28.56	31.37	31.84	31.17	27.83	24.92	25.37	26.80	24.78	
20	23.50	24.72	26.10	28.88	31.44	31.79	31.12	27.76	24.79	25.24	26.82	24.42	
21	23.36	24.91	26.36	29.10	31.49	31.75	31.08	27.45	24.52	25.34	26.83	23.88	
22	23.28	25.01	26.41	29.30	31.54	31.73	31.01	26.94	24.59	25.51	26.77	23.59	
23	23.16	24.95	26.33	29.44	31.55	31.68	30.95	26.50	24.72	25.58	26.75	23.49	
24	22.90	24.78	26.25	29.54	31.58	31.68	30.88	26.21	24.94	25.66	26.73	23.09	
25	22.63	24.30	26.07	29.61	31.58	31.67	30.74	25.77	25.19	25.65	26.70	22.98	
26	22.50	23.93	25.79	29.62	31.61	31.64	30.66	25.41	25.42	25.63	26.68	22.73	
27	22.71	23.87	25.45	29.67	31.62	31.65	30.56	25.08	25.33	25.63	26.65	22.69	
28	22.88	24.07	24.95	29.71	31.64	31.67	30.45	24.91	24.75	25.56	26.63	22.57	
29	22.84	24.46	25.00	29.73	31.65	31.65	30.27	24.49	24.94	25.73	26.39	22.48	
30	22.73	25.16	25.51	29.74	31.70	31.63	30.06	24.08	25.18	26.12		22.36	
31		26.05		29.75	31.72		29.97		25.46	26.45		22.31	
Mean	22.93	24.20	26.59	27.67	31.10	31.78	31.15	27.77	24.18	25.71	26.62	24.62	
Max	23.53	26.05	27.94	29.75	31.72	31.87	31.62	29.88	25.46	26.53	26.83	26.16	31.87
Min	22.25	22.64	24.95	25.60	29.80	31.63	29.97	24.08	22.69	25.14	26.39	22.31	22.25
Annual Max Momentary Gage Height	31.88		m. (MSL.) ,				at 06.00 Hours , on Sep 16 , 2011						
Zero Gage at Bottom Elevation	20.00		m. (MSL.) ,			River Bed	18.80	m. (MSL)					
Left Bank Elevation	30.66		m. (MSL.) ,										
Right Bank Elevation	31.32		m. (MSL.) ,			Drainage Area	31472	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	167.90	166.20	450.60	363.80	910.00	1697.50	1612.10	931.60	239.30	343.00	430.80	391.80	
2	186.60	172.30	505.00	370.20	945.10	1709.70	1606.00	839.30	236.60	336.60	423.90	365.40	
3	197.00	195.90	528.00	388.60	1004.60	1721.90	1612.10	832.40	231.10	328.20	429.00	358.20	
4	194.80	213.00	522.00	436.20	1108.20	1728.00	1618.20	825.50	227.30	312.80	438.90	352.60	
5	193.70	214.10	504.00	471.30	1188.70	1734.80	1618.20	814.00	225.60	313.50	447.90	347.00	
6	203.60	209.70	480.30	486.80	1233.80	1741.60	1601.00	805.20	224.50	339.00	447.90	348.60	
7	190.40	231.70	481.20	474.90	1258.40	1741.60	1601.00	803.00	189.30	362.20	436.20	344.60	
8	170.00	274.70	506.00	445.20	1242.00	1748.40	1591.00	796.40	176.70	383.00	425.60	336.60	
9	153.60	289.00	537.00	407.70	1242.00	1755.20	1581.00	751.10	173.40	413.70	412.00	339.00	
10	144.80	279.30	560.20	372.60	1254.30	1768.80	1581.00	719.00	171.20	423.10	414.50	343.00	
11	148.10	258.60	553.70	347.00	1262.50	1775.60	1566.00	711.80	169.00	412.80	417.90	345.40	
12	165.10	241.00	532.00	348.60	1287.10	1762.00	1551.00	690.20	171.20	374.20	420.50	347.00	
13	173.40	225.60	497.30	359.80	1315.80	1762.00	1531.00	654.40	210.20	357.40	423.10	360.60	
14	177.20	221.80	457.80	370.20	1359.20	1768.80	1496.60	625.60	215.20	359.00	426.40	363.00	
15	175.00	237.70	410.30	380.60	1390.00	1768.80	1468.40	595.50	233.30	359.80	424.70	360.60	
16	180.50	243.20	379.80	410.30	1412.00	1775.60	1449.60	575.80	260.30	354.20	412.80	353.40	
17	192.60	239.90	358.20	434.40	1426.10	1775.60	1430.80	566.70	289.00	359.00	417.90	343.00	
18	215.20	288.40	335.00	577.10	1449.60	1775.60	1407.60	555.00	305.10	343.80	437.10	324.70	
19	214.60	286.40	338.20	649.60	1491.90	1755.20	1398.80	545.90	297.40	328.90	447.00	287.70	
20	213.50	283.80	387.00	706.40	1526.00	1721.90	1376.80	538.00	288.40	319.80	448.80	264.30	
21	205.80	296.70	408.60	749.00	1551.00	1697.50	1359.20	507.00	270.80	326.80	449.70	234.40	
22	201.40	303.70	412.80	792.00	1576.00	1685.30	1328.40	459.60	275.40	339.80	444.30	218.50	
23	194.80	299.50	406.00	823.20	1581.00	1654.80	1303.50	420.50	283.80	345.40	442.50	213.00	
24	180.50	287.70	399.20	846.20	1596.00	1654.80	1274.80	395.80	298.80	351.80	440.70	191.00	
25	165.60	257.50	384.60	862.50	1596.00	1648.70	1217.40	360.60	316.30	351.00	438.00	184.90	
26	158.50	237.20	362.20	865.00	1612.10	1630.40	1184.60	331.80	332.60	349.40	436.20	171.20	
27	170.00	233.90	335.00	877.50	1618.20	1636.50	1145.20	308.60	326.10	349.4			

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Ban Taphan Hin , Phichit (N.10A)**

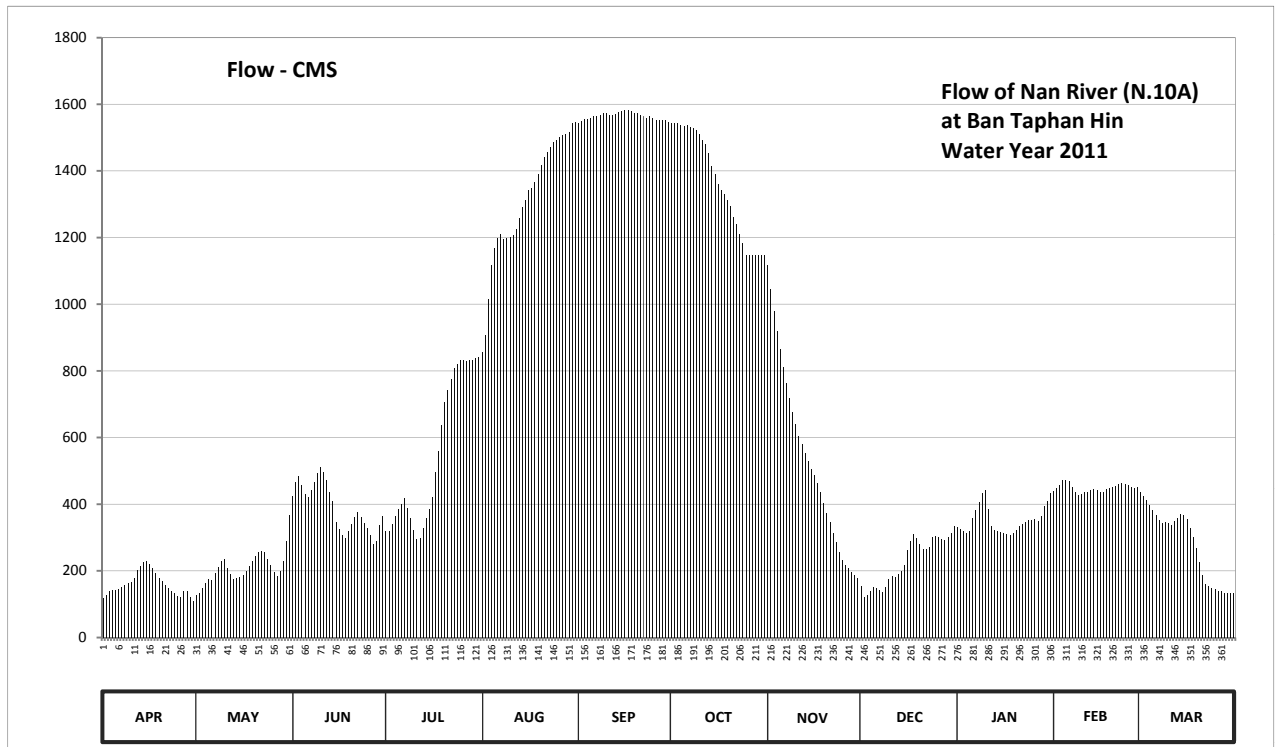
Lat 16 - 13 - 00 N Long 100 - 25 - 19 E

Location : on left bank near Amphoe Taphan Hin Office about 250 meters from Station N.10

	Ban	Taphan Hin	Amphoe	Taphan Hin	Changwat	Phichit
Drainage Area	30,328	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+22.280	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near automatic gage building.			Elevation	+33.300 m. (MSL.)	
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1969 to date					
Rating Operation						
Period of Rating	1974 - 1979, 1991 to date					
Rated by Flot	-					
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. Flow effected by Naresuan Dam.					
	Stage-discharge relation defined by 18 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.07	24.22	27.85	26.67	30.82	33.38	33.38	31.92	24.60	26.81	27.99	27.96	
2	24.22	24.30	28.24	26.66	31.06	33.40	33.38	31.65	24.14	26.74	28.06	27.85	
3	24.38	24.49	28.36	26.92	31.53	33.42	33.38	31.39	24.20	26.66	28.15	27.69	
4	24.42	24.70	28.17	27.17	31.92	33.42	33.36	31.12	24.38	26.61	28.27	27.53	
5	24.43	24.88	27.90	27.39	32.11	33.43	33.35	30.86	24.55	26.68	28.28	27.36	
6	24.47	24.86	27.80	27.58	32.22	33.45	33.36	30.60	24.50	27.10	28.26	27.21	
7	24.55	25.15	28.01	27.77	32.26	33.45	33.34	30.34	24.40	27.37	28.11	27.05	
8	24.62	25.38	28.23	27.43	32.21	33.46	33.33	30.08	24.35	27.64	27.97	26.94	
9	24.70	25.60	28.45	27.10	32.22	33.48	33.32	29.82	24.53	27.91	27.86	26.98	
10	24.77	25.71	28.64	26.71	32.23	33.48	33.28	29.57	24.90	28.01	27.88	26.93	
11	24.94	25.36	28.49	26.41	32.25	33.46	33.22	29.33	25.01	27.41	27.94	26.87	
12	25.29	25.10	28.27	26.44	32.32	33.46	33.18	29.15	25.00	26.85	27.97	27.00	
13	25.43	24.91	27.94	26.76	32.43	33.47	33.09	28.96	25.12	26.69	28.01	27.12	
14	25.57	24.95	27.67	27.09	32.55	33.49	32.96	28.77	25.24	26.66	28.04	27.23	
15	25.63	24.98	26.97	27.42	32.63	33.50	32.88	28.58	25.45	26.64	28.00	27.20	
16	25.50	25.05	26.75	27.80	32.72	33.51	32.79	28.40	26.03	26.61	27.95	27.08	
17	25.36	25.23	26.54	28.48	32.75	33.51	32.72	28.21	26.35	26.56	27.96	26.77	
18	25.15	25.42	26.44	29.01	32.80	33.50	32.69	27.96	26.56	26.55	28.04	26.46	
19	24.95	25.61	26.68	29.56	32.89	33.48	32.63	27.62	26.44	26.60	28.07	26.11	
20	24.80	25.80	26.92	30.00	32.98	33.48	32.56	27.28	26.24	26.69	28.10	25.59	
21	24.63	25.94	27.15	30.21	33.05	33.46	32.45	26.96	26.07	26.84	28.14	25.08	
22	24.49	25.98	27.30	30.42	33.10	33.45	32.37	26.62	26.08	26.91	28.18	24.68	
23	24.38	25.97	27.13	30.59	33.15	33.43	32.26	26.30	26.13	26.98	28.21	24.59	
24	24.27	25.71	26.95	30.64	33.20	33.45	32.16	25.96	26.46	27.03	28.20	24.51	
25	24.17	25.45	26.76	30.71	33.22	33.43	32.04	25.65	26.52	27.05	28.16	24.45	
26	24.10	25.19	26.54	30.70	33.25	33.41	32.04	25.48	26.48	27.06	28.09	24.39	
27	24.36	25.03	26.25	30.69	33.27	33.41	32.04	25.35	26.42	27.02	28.06	24.36	
28	24.36	25.23	26.35	30.70	33.28	33.41	32.04	25.21	26.36	27.16	28.09	24.31	
29	24.13	25.61	26.86	30.71	33.30	33.41	32.04	25.06	26.46	27.50	27.74	24.29	
30	23.94	26.32	27.18	30.74	33.38	33.39	32.04	24.93	26.62	27.68		24.30	
31		27.21		30.75	33.39		32.04		26.85	27.93		24.29	
Mean	24.67	25.33	27.43	28.62	32.60	33.45	32.77	28.30	25.56	27.03	28.06	26.13	
Max	25.63	27.21	28.64	30.75	33.39	33.51	33.38	31.92	26.85	28.01	28.28	27.96	33.51
Min	23.94	24.22	26.25	26.41	30.82	33.38	32.04	24.93	24.14	26.55	27.74	24.29	23.94
Annual Max Momentary Gage Height	33.52		m. (MSL.) ,			at 22.00 Hours , on Sep 15 , 2011							
Zero Gage at Bottom Elevation	22.28		m. (MSL.) ,		River Bed	19.92	m. (MSL)						
Left Bank Elevation	33.99		m. (MSL.) ,										
Right Bank Elevation	33.71		m. (MSL.) ,		Drainage Area	30328	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	117.90	128.40	426.00	319.30	855.20	1542.80	1542.80	1116.20	155.00	331.90	440.00	437.00		
2	128.40	134.00	466.40	318.40	906.20	1549.00	1542.80	1046.00	122.80	325.60	447.00	426.00		
3	139.60	147.30	482.60	341.80	1015.50	1555.20	1542.80	980.70	127.00	318.40	456.00	411.10		
4	142.40	162.00	458.00	364.30	1116.20	1555.20	1536.60	919.40	139.60	313.90	470.50	396.70		
5	143.10	174.60	431.00	384.10	1167.80	1558.30	1533.50	863.60	151.50	320.20	471.80	381.40		
6	145.90	173.20	421.00	401.20	1198.60	1564.50	1536.60	811.00	148.00	358.00	469.10	367.90		
7	151.50	193.50	442.00	418.30	1209.80	1564.50	1530.40	762.80	141.00	382.30	452.00	353.50		
8	156.40	210.40	465.00	387.70	1195.80	1567.60	1527.30	718.60	137.50	406.60	438.00	343.60		
9	162.00	228.00	492.80	358.00	1198.60	1573.80	1524.20	676.20	150.10	432.00	427.00	347.20		
10	166.90	236.80	512.20	322.90	1201.40	1573.80	1511.80	638.80	176.00	442.00	429.00	342.70		
11	178.80	208.80	496.50	295.90	1207.00	1567.60	1493.20	605.20	183.70	385.90	435.00	337.30		
12	203.30	190.00	470.50	298.60	1226.60	1567.60	1480.80	580.00	183.00	335.50	438.00	349.00		
13	214.40	176.70	435.00	327.40	1257.40	1570.70	1452.90	553.80	191.40	321.10	442.00	359.80		
14	225.60	179.50	409.30	357.10	1291.00	1576.90	1413.00	529.10	199.80	318.40	445.00	369.70		
15	230.40	181.60	346.30	386.80	1314.00	1580.00	1389.00	505.10	216.00	316.60	441.00	367.00		
16	220.00	186.50	326.50	421.00	1341.00	1583.10	1362.00	488.00	262.40	313.90	436.00	356.20		
17	208.80	199.10	307.60	495.60	1350.00	1583.10	1341.00	462.30	290.50	309.40	437.00	328.30		
18	193.50	213.60	298.60	560.40	1365.00	1580.00	1332.00	437.00	309.40	308.50	445.00	300.40		
19	179.50	228.80	320.20	637.40	1392.00	1573.80	1314.00	404.80	298.60	313.00	448.00	268.90		
20	169.00	244.00	341.80	705.00	1419.00	1573.80	1293.80	374.20	280.60	321.10	451.00	227.20		
21	157.10	255.20	362.50	740.70	1440.50	1567.60	1263.00	345.40	265.60	334.60	455.00	188.60		
22	147.30	258.40	376.00	776.60	1456.00	1564.50	1240.60	314.80	266.40	340.90	459.00	160.60		
23	139.60	257.60	360.70	809.00	1471.50	1558.30	1209.80	286.00	270.70	347.20	462.30	154.30		
24	131.90	236.80	344.50	819.00	1487.00	1564.50	1181.80	256.80	300.40	351.70	461.00	148.70		
25	124.90	216.00	327.40	833.00	1493.20	1558.30	1148.20	232.00	305.80	353.50	457.00	144.50		
26	120.00	196.30	307.60	831.00	1502.50	1552.10	1148.20	218.40	302.20	354.40	450.00	140.30		
27	138.20	185.10	281.50	829.00	1508.70	1552.10	1148.20	208.00	296.80	350.80	447.00	138.20		
28	138.20	199.10	290.50	831.00	1511.80	1552.10	1148.20	197.70	291.40	363.40	450.00	134.70		
29	122.10	228.80	336.40	833.00	1518.00	1552.10	1148.20	187.20	300.40	394.00	415.60	133.30		
30	109.40	287.80	365.20	839.00	1542.80	1545.90	1148.20	178.10	314.80	410.20		134.00		
31		367.90		841.00	1545.90		1148.20		335.50	434.00		133.30		
Total	4806.10	6485.80	11701.60	17083.50	40706.00	46928.80	42133.10	15897.20	7113.90	10909.00	12975.30	8681.40	225421.70	CMSDAY
Mean	160.20	209.20	390.10	551.10	1313.10	1564.30	1359.10	529.90	229.50	351.90	447.40	280.00	615.90	CMS
Max	230.40	367.90	512.20	841.00	1545.90	1583.10	1542.80	1116.20	335.50	442.00	471.80	437.00	1583.10	CMS
Min	109.40	128.40	281.50	295.90	855.20	1542.80	1148.20	178.10	122.80	308.50	415.60	133.30	109.40	CMS
Runoff	415.25	560.37	1011.02	1476.01	3517.00	4054.65	3640.30	1373.52	614.64	942.54	1121.07	750.07	19476.44	MCM
Momentary Peak	1586.20	CMS. at 33.52 m. (MSL.) at 22.00 Hours , on Sep 15 , 2011												
Runoff Yield	20.31	Liters/Second/Square KM.			Momentary Peak Yield			52.302	Liters/Second/Square KM.					

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Ban Hat Phai , Uttaradit (N.12A)**

Lat 17 - 44 - 11 N Long 100 - 32 - 27 E

Location : on right bank about 4 kilometers downstream, Sirikit Dam Site, along Phasom - Silot road.

	Ban	Hat Phai	Amphoe	Tha Pla	Changwat	Uttaradit
Drainage Area	15,579	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+69.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank in front of gage observer's house.				Elevation	+84.000 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1966 to date					
Rating Operation						
Period of Rating	1966 to date					
Rated by Flot	-					
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 reservoir about 6 kilometers above gage site.					
	Stage-discharge relation defined by 25 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	71.85	70.30	70.84	70.49	75.02	74.79	74.73	71.92	71.42	72.48	74.02	72.95	
2	71.85	70.54	70.69	70.32	72.73	74.71	74.66	71.94	71.17	73.23	73.84	73.15	
3	71.18	70.76	70.65	70.39	73.34	74.72	74.89	72.04	71.24	72.99	73.77	73.00	
4	71.12	70.59	70.67	70.50	74.36	74.64	75.64	71.89	71.09	73.49	73.78	73.24	
5	71.18	70.50	70.88	70.39	73.95	74.62	75.09	71.98	71.33	73.77	73.23	73.17	
6	70.94	70.50	70.81	70.75	74.09	74.85	74.71	71.58	71.61	73.71	73.55	73.40	
7	71.41	70.55	70.57	70.66	74.38	74.68	74.34	71.64	71.64	73.86	73.58	73.39	
8	71.39	70.51	70.60	70.50	74.67	74.78	74.25	71.74	71.75	73.73	73.56	73.25	
9	71.02	70.46	70.69	71.19	74.21	75.03	73.90	71.73	71.84	72.78	73.62	73.04	
10	71.25	70.50	70.56	71.16	74.42	74.77	73.41	71.74	71.54	73.14	73.72	73.31	
11	71.20	70.51	70.42	71.04	75.20	74.46	72.86	71.75	71.31	73.42	73.86	73.32	
12	71.73	70.56	70.29	70.91	74.63	74.45	72.26	71.66	72.22	73.34	73.81	73.58	
13	71.30	70.42	70.42	71.66	74.68	74.84	72.35	71.63	72.50	73.36	73.96	73.28	
14	71.33	70.36	70.63	71.57	74.49	74.62	72.30	71.88	72.48	73.22	74.17	72.72	
15	71.25	70.27	70.84	71.71	74.44	74.47	72.38	71.51	72.58	73.05	73.64	72.18	
16	71.16	70.51	70.90	71.40	74.43	74.53	72.28	71.50	72.71	72.71	73.53	72.38	
17	71.37	70.56	70.63	71.36	74.90	74.42	72.14	71.54	72.71	73.17	73.81	72.38	
18	71.66	70.72	70.60	71.70	74.68	74.34	71.45	71.41	72.78	72.99	73.68	71.24	
19	71.69	70.55	70.65	72.28	74.60	74.38	71.39	71.23	72.84	72.87	73.67	71.41	
20	71.84	70.72	70.92	72.08	74.57	74.78	71.52	70.98	73.01	72.85	73.96	71.93	
21	70.89	70.76	70.82	71.96	74.85	74.80	71.44	71.42	72.78	73.00	73.91	71.70	
22	70.63	70.37	70.74	71.97	74.60	75.22	71.31	71.39	73.13	72.54	73.76	71.43	
23	70.46	70.39	70.67	71.89	74.82	74.86	71.03	71.11	72.66	72.95	73.50	71.61	
24	70.45	70.50	70.72	71.32	74.85	75.02	71.01	70.96	72.81	73.24	73.29	71.81	
25	70.24	70.44	70.30	71.99	74.92	74.78	71.77	71.24	72.48	73.05	73.50	71.31	
26	70.54	70.62	70.59	71.77	74.80	74.72	71.67	71.04	72.61	73.83	73.09	71.63	
27	70.55	70.55	71.24	72.15	74.75	74.94	71.89	70.54	73.05	73.66	73.43	71.98	
28	70.21	70.70	70.75	72.15	74.83	75.30	71.99	71.29	72.77	73.67	73.08	71.65	
29	70.35	70.73	70.40	72.41	74.74	75.32	71.81	71.57	73.05	73.52	73.02	71.69	
30	70.49	71.04	70.21	72.62	74.86	74.94	71.82	71.53	72.79	73.42		71.92	
31		70.94		72.72	74.84		71.75		72.42	73.71		71.77	
Mean	71.08	70.56	70.66	71.45	74.54	74.76	72.71	71.51	72.27	73.25	73.63	72.41	
Max	71.85	71.04	71.24	72.72	75.20	75.32	75.64	72.04	73.13	73.86	74.17	73.58	75.64
Min	70.21	70.27	70.21	70.32	72.73	74.34	71.01	70.54	71.09	72.48	73.02	71.24	70.21
Annual Max Momentary Gage Height	75.85		m. (MSL.) ,			at 12.00 Hours , on Aug 1 , 2011							
Zero Gage at Bottom Elevation	69.00		m. (MSL.) ,			River Bed	67.27	m. (MSL)					
Left Bank Elevation	82.53		m. (MSL.) ,										
Right Bank Elevation	83.73		m. (MSL.) ,			Drainage Area	15579	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	273.00	31.00	102.00	51.70	999.40	939.40	923.80	285.60	197.40	394.00	745.00	491.50	
2	273.00	58.20	79.50	32.80	445.30	918.60	905.60	289.20	154.90	553.20	700.00	535.00	
3	156.60	90.00	73.50	39.10	579.60	921.20	965.40	307.60	166.80	499.90	682.80	502.00	
4	146.40	64.70	76.50	53.00	830.00	900.40	1171.60	280.20	141.30	615.60	685.20	555.60	
5	156.60	53.00	108.00	39.10	727.50	895.20	1018.30	296.40	182.10	682.80	553.20	539.40	
6	117.00	53.00	97.50	88.50	762.50	955.00	918.60	224.60	229.80	668.40	630.00	594.00	
7	195.70	59.50	62.10	75.00	835.00	910.80	825.00	235.20	235.20	705.00	637.20	591.60	
8	192.30	54.30	66.00	53.00	908.20	936.80	802.50	253.20	255.00	673.20	632.40	558.00	
9	129.40	47.80	79.50	158.30	792.50	1002.10	715.00	251.40	271.20	455.80	646.80	510.80	
10	168.50	53.00	60.80	153.20	845.00	934.20	596.40	253.20	217.80	532.80	670.80	572.40	
11	160.00	54.30	42.60	132.80	1048.00	855.00	472.60	255.00	178.70	598.80	705.00	574.80	
12	251.40	60.80	30.10	112.50	897.80	852.50	350.00	238.80	342.00	579.60	692.50	637.20	
13	177.00	42.60	42.60	238.80	910.80	952.40	368.00	233.40	398.00	584.40	730.00	565.20	
14	182.10	36.40	70.50	222.90	862.50	895.20	358.00	278.40	394.00	550.80	782.50	443.20	
15	168.50	28.30	102.00	247.80	850.00	857.50	374.00	212.70	414.00	513.00	651.60	334.20	
16	153.20	54.30	111.00	194.00	847.50	872.50	354.00	211.00	441.10	441.10	625.20	374.00	
17	188.90	60.80	70.50	187.20	968.00	845.00	326.60	217.80	441.10	539.40	692.50	374.00	
18	238.80	84.00	66.00	246.00	910.80	825.00	202.50	195.70	455.80	499.90	661.20	166.80	
19	244.20	59.50	73.50	354.00	890.00	835.00	192.30	165.10	468.40	474.70	658.80	195.70	
20	271.20	84.00	114.00	315.20	882.50	936.80	214.40	123.00	504.20	470.50	730.00	287.40	
21	109.50	90.00	99.00	292.80	955.00	942.00	200.80	197.40	455.80	502.00	717.50	246.00	
22	70.50	37.30	87.00	294.60	890.00	1053.40	178.70	192.30	530.60	406.00	680.40	199.10	
23	47.80	39.10	76.50	280.20	947.20	957.60	131.10	144.70	430.60	491.50	618.00	229.80	
24	46.50	53.00	84.00	180.40	955.00	999.40	127.70	120.00	462.10	555.60	567.60	265.80	
25	25.60	45.20	31.00	298.20	973.20	936.80	258.60	166.80	394.00	513.00	618.00	178.70	
26	58.20	69.00	64.70	258.60	942.00	921.20	240.60	132.80	420.10	697.50	521.80	233.40	
27	59.50	59.50	166.80	328.50	929.00	978.40	280.20	58.20	513.00	656.40	601.20	296.40	
28	22.90	81.00	88.50	328.50	949.80	1075.00	298.20	175.30	453.70				

WATER YEAR : 2011

NAN RIVER BASIN

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

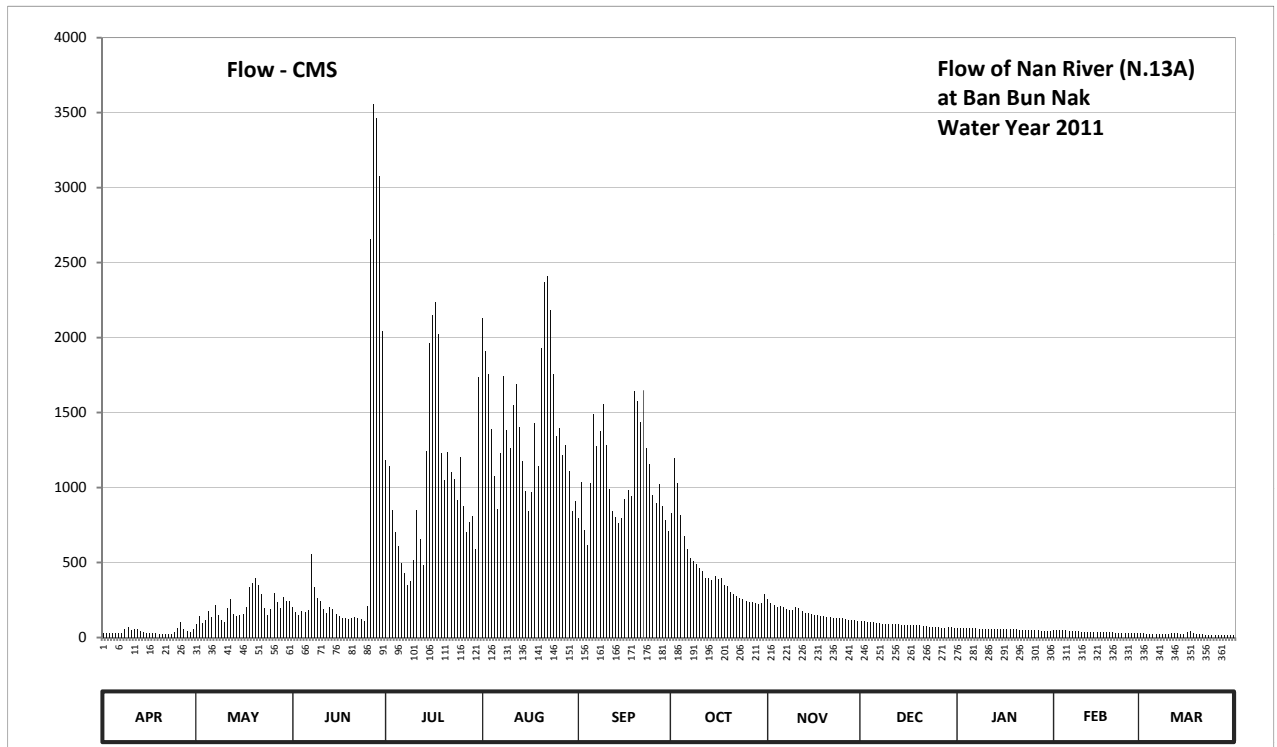
Lat 18 - 33 - 12 N Long 100 - 46 - 03 E

Location : on right bank about 2 kilometers upstream from Station N.13

	Ban	Bun Nak	Amphoe	Wiang Sa	Changwat	Nan
Drainage Area	8,706	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+177.400	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+192.700 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
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 good. Stage-discharge relation defined by 48 discharge measurements made in 1911.					

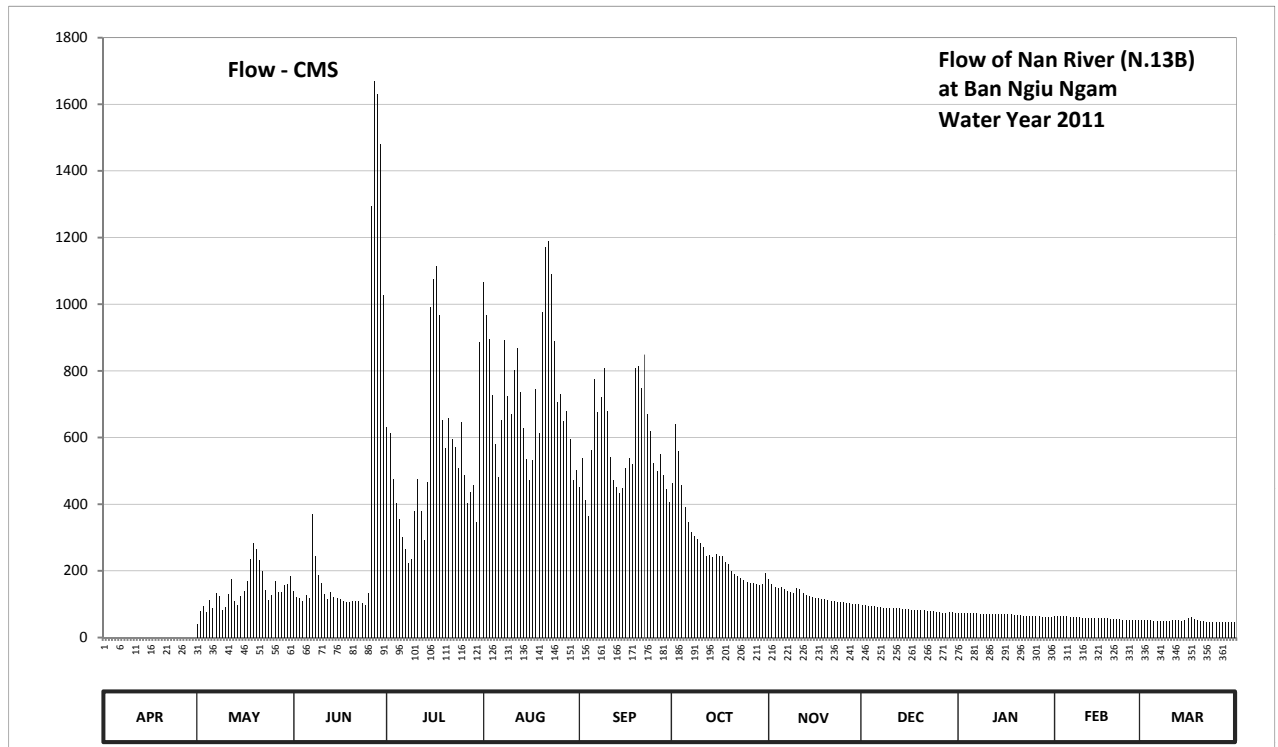
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.94	178.28	178.87	182.30	184.74	181.18	181.27	179.14	178.39	178.15	178.03	177.90	
2	177.93	178.58	178.72	182.19	184.21	181.89	182.35	179.00	178.38	178.14	178.03	177.90	
3	177.92	178.33	178.61	181.33	183.82	180.93	181.87	178.93	178.37	178.14	178.05	177.89	
4	177.91	178.42	178.73	180.87	182.87	180.60	181.23	178.89	178.37	178.12	178.03	177.89	
5	177.90	178.73	178.72	180.56	182.00	181.87	180.79	178.91	178.36	178.12	178.03	177.88	
6	177.91	178.53	178.76	180.16	181.37	183.15	180.49	178.86	178.33	178.13	178.02	177.88	
7	177.90	178.93	180.37	179.89	182.43	182.57	180.28	178.80	178.31	178.12	178.00	177.88	
8	178.09	178.59	179.49	179.55	183.80	182.84	180.19	178.78	178.30	178.11	177.99	177.87	
9	178.17	178.42	179.16	179.67	182.86	183.33	180.12	178.76	178.30	178.09	177.99	177.87	
10	178.03	178.37	179.06	180.22	182.53	182.59	180.03	178.89	178.30	178.10	177.98	177.87	
11	178.08	178.83	178.81	181.33	183.30	181.76	179.94	178.85	178.30	178.09	177.97	177.91	
12	178.07	179.13	178.66	180.72	183.66	181.32	179.74	178.74	178.30	178.09	177.96	177.92	
13	178.01	178.63	178.87	180.10	182.92	181.19	179.75	178.69	178.29	178.09	177.97	177.90	
14	177.96	178.57	178.80	182.48	182.28	181.07	179.70	178.67	178.27	178.10	177.98	177.88	
15	177.94	178.60	178.65	184.34	181.72	181.17	179.82	178.64	178.26	178.10	177.96	177.89	
16	177.92	178.63	178.57	184.78	181.31	181.56	179.73	178.61	178.25	178.09	177.97	177.96	
17	177.91	178.88	178.51	184.99	181.69	181.74	179.74	178.60	178.24	178.09	177.96	178.01	
18	177.90	179.50	178.48	184.48	182.98	181.62	179.57	178.58	178.24	178.10	177.96	177.94	
19	177.89	179.60	178.47	182.43	182.19	183.54	179.52	178.57	178.23	178.08	177.95	177.89	
20	177.88	179.76	178.51	181.93	184.25	183.37	179.35	178.55	178.23	178.08	177.95	177.88	
21	177.88	179.54	178.53	182.46	185.29	183.00	179.28	178.53	178.22	178.06	177.93	177.85	
22	177.87	179.29	178.51	182.08	185.38	183.56	179.22	178.51	178.20	178.05	177.93	177.84	
23	177.86	178.84	178.46	181.94	184.86	182.53	179.17	178.49	178.19	178.04	177.92	177.84	
24	177.95	178.61	178.39	181.55	183.82	182.23	179.12	178.49	178.19	178.04	177.91	177.83	
25	178.15	178.81	178.90	182.37	182.75	181.65	179.06	178.48	178.18	178.03	177.91	177.82	
26	178.35	179.33	185.93	181.41	182.89	181.49	179.04	178.46	178.17	178.03	177.91	177.81	
27	178.10	179.02	187.80	180.88	182.41	181.85	179.02	178.44	178.15	178.03	177.90	177.81	
28	177.99	178.85	187.61	181.10	182.59	181.41	179.01	178.43	178.15	178.02	177.90	177.81	
29	177.97	179.19	186.84	181.22	182.09	181.14	178.97	178.42	178.16	178.02	177.89	177.81	
30	178.07	179.06	184.53	180.49	181.32	180.89	179.00	178.41	178.16	178.01		177.82	
31		179.05		183.77	181.52		179.29		178.15	178.01		177.84	
Mean	177.98	178.87	180.08	181.73	182.96	181.97	179.86	178.67	178.26	178.08	177.96	177.87	
Max	178.35	179.76	187.80	184.99	185.38	183.56	182.35	179.14	178.39	178.15	178.05	178.01	187.80
Min	177.86	178.28	178.39	179.55	181.31	180.60	178.97	178.41	178.15	178.01	177.89	177.81	177.81
Annual Max Momentary Gage Height	187.87		m. (MSL.) , at 03.00 Hours , on Jun 27 , 2011										
Zero Gage at Bottom Elevation	177.40		m. (MSL.) , River Bed 174.72 m. (MSL)										
Left Bank Elevation	190.28		m. (MSL.) ,										
Right Bank Elevation	192.58		m. (MSL.) , Drainage Area 8706 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	32.40	88.40	202.00	1180.00	2129.50	798.50	827.75	258.40	109.10	66.00	46.80	26.00		
2	30.80	145.20	172.00	1141.50	1909.10	1036.50	1197.50	229.00	107.20	64.40	46.80	26.00		
3	29.20	97.70	150.90	847.25	1753.00	719.00	1029.50	214.30	105.30	64.40	50.00	24.70		
4	27.60	114.80	174.00	701.00	1386.90	620.00	814.75	206.00	105.30	61.20	46.80	24.70		
5	26.00	174.00	172.00	608.40	1075.00	1029.50	677.00	210.10	103.40	61.20	46.80	23.40		
6	27.60	135.70	180.00	499.60	860.25	1491.25	588.10	200.00	97.70	62.80	45.20	23.40		
7	26.00	214.30	554.20	430.50	1225.95	1277.05	530.80	188.00	93.90	61.20	42.00	23.40		
8	56.40	147.10	335.25	348.75	1745.00	1375.80	507.40	184.00	92.00	59.60	40.40	22.10		
9	69.20	114.80	262.60	376.80	1383.20	1558.75	489.20	180.00	92.00	56.40	40.40	22.10		
10	46.80	105.30	241.60	515.20	1262.45	1284.35	465.80	206.00	92.00	58.00	38.80	22.10		
11	54.80	194.00	190.00	847.25	1547.50	991.00	443.00	198.00	92.00	56.40	37.20	27.60		
12	53.20	256.30	160.40	656.00	1689.00	844.00	393.60	176.00	92.00	56.40	35.60	29.20		
13	43.60	154.70	202.00	484.00	1405.40	801.75	396.00	166.10	90.20	56.40	37.20	26.00		
14	35.60	143.30	188.00	1244.20	1173.00	762.75	384.00	162.30	86.60	58.00	38.80	23.40		
15	32.40	149.00	158.50	1962.40	977.00	795.25	413.00	156.60	84.80	58.00	35.60	24.70		
16	29.20	154.70	143.30	2146.50	840.75	922.00	391.20	150.90	83.00	56.40	37.20	35.60		
17	27.60	204.00	131.90	2235.75	966.50	984.00	393.60	149.00	81.20	56.40	35.60	43.60		
18	26.00	337.50	126.20	2020.20	1427.60	942.00	353.25	145.20	81.20	58.00	35.60	32.40		
19	24.70	360.00	124.30	1225.95	1141.50	1641.00	342.00	143.30	79.40	54.80	34.00	24.70		
20	23.40	398.40	131.90	1050.50	1925.50	1573.75	304.00	139.50	79.40	54.80	34.00	23.40		
21	23.40	346.50	135.70	1236.90	2370.50	1435.00	288.60	135.70	77.60	51.60	30.80	19.50		
22	22.10	290.80	131.90	1103.00	2411.00	1649.00	275.40	131.90	74.00	50.00	30.80	18.20		
23	20.80	196.00	122.40	1054.00	2180.50	1262.45	264.70	128.10	72.40	48.40	29.20	18.20		
24	34.00	150.90	109.10	918.75	1753.00	1155.50	254.20	128.10	72.40	48.40	27.60	16.90		
25	66.00	190.00	208.00	1204.50	1342.75	952.50	241.60	126.20	70.80	46.80	27.60	15.60		
26	101.50	299.60	2658.50	873.25	1394.30	899.25	237.40	122.40	69.20	46.80	27.60	14.30		
27	58.00	233.20	3558.00	704.00	1218.65	1022.50	233.20	118.60	66.00	46.80	26.00	14.30		
28	40.40	198.00	3463.00	772.50	1284.35	873.25	231.10	116.70	66.00	45.20	26.00	14.30		
29	37.20	268.90	3079.60	811.50	1106.50	785.50	222.70	114.80	67.60	45.20	24.70	14.30		
30	53.20	241.60	2040.95	588.10	844.00	707.00	229.00	112.90	67.60	43.60		15.60		
31		239.50		1733.00	909.00		290.80		66.00	43.60		18.20		
Total	1179.10	6344.20	19508.20	31521.25	44638.65	32190.15	13710.15	4898.10	2617.30	1697.20	1055.10	707.90	160067.31	CMSDAY
Mean	39.30	204.65	650.27	1016.81	1439.96	1073.01	442.26	163.27	84.43	54.75	36.38	22.84	437.34	CMS
Max	101.50	398.40	3558.00	2235.75	2411.00	1649.00	1197.50	258.40	109.10	66.00	50.00	43.60	3558.00	CMS
Min	20.80	88.40	109.10	348.75	840.75	620.00	222.70	112.90	66.00	43.60	24.70	14.30	14.30	CMS
Runoff	101.87	548.14	1685.51	2723.44	3856.78	2781.23	1184.56	423.20	226.14	146.64	91.16	61.16	13829.82	MCM
Momentary Peak	3593.70 CMS. at 187.87 m. (MSL.) at 03.00 Hours , on Jun 27 , 2011													
Runoff Yield	50.23	Liters/Second/Square KM.		Momentary Peak Yield		412.784	Liters/Second/Square KM.							



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	41.60	139.55	630.00	1066.60	450.40	464.35	175.60	97.55	74.75	63.70	52.00		
2	0.00	79.50	123.00	611.85	967.35	536.80	638.50	160.00	96.60	73.80	63.70	52.00		
3	0.00	94.70	118.00	473.65	895.60	411.65	559.20	152.30	95.65	73.80	65.50	51.20		
4	0.00	77.60	111.00	402.50	726.90	365.40	458.15	147.95	95.65	71.90	63.70	51.20		
5	0.00	113.00	126.00	356.70	580.50	560.80	390.50	150.10	94.70	71.90	63.70	50.40		
6	0.00	88.05	118.00	301.10	479.85	775.75	346.60	144.80	91.85	72.85	62.80	50.40		
7	0.00	134.30	369.75	264.70	652.10	675.90	317.30	138.50	89.95	71.90	61.00	50.40		
8	0.00	124.00	243.90	222.75	892.00	721.80	305.15	136.40	89.00	70.95	60.10	49.60		
9	0.00	81.40	188.25	236.55	725.20	807.40	295.70	134.30	89.00	69.10	60.10	49.60		
10	0.00	92.80	163.30	378.50	669.10	679.30	283.55	147.95	89.00	70.00	59.20	49.60		
11	0.00	130.10	131.15	473.65	802.00	541.60	271.40	143.75	89.00	69.10	58.30	52.90		
12	0.00	176.75	114.00	380.00	866.80	472.10	245.20	132.20	89.00	69.10	57.40	53.80		
13	0.00	110.00	136.40	293.00	735.50	451.95	246.50	127.00	88.05	69.10	58.30	52.00		
14	0.00	96.60	121.00	465.90	626.70	433.35	240.00	125.00	86.15	70.00	59.20	50.40		
15	0.00	125.00	118.00	991.40	535.20	448.85	251.70	122.00	85.20	70.00	57.40	51.20		
16	0.00	139.55	115.00	1074.20	470.55	509.60	243.90	119.00	84.25	69.10	58.30	57.40		
17	0.00	169.90	109.00	1114.10	530.40	538.40	245.20	118.00	83.30	69.10	57.40	61.90		
18	0.00	235.40	106.10	967.35	746.00	519.20	226.20	116.00	83.30	70.00	57.40	55.60		
19	0.00	282.20	105.15	652.10	611.85	809.20	219.30	115.00	82.35	68.20	56.50	51.20		
20	0.00	264.70	109.00	568.95	974.75	814.60	199.75	113.00	82.35	68.20	56.50	50.40		
21	0.00	231.95	111.00	657.20	1171.10	749.50	191.70	111.00	81.40	66.40	54.70	48.00		
22	0.00	199.75	109.00	593.70	1188.20	848.80	184.80	109.00	79.50	65.50	54.70	47.20		
23	0.00	141.65	104.20	570.60	1089.40	669.10	179.05	107.05	78.55	64.60	53.80	47.20		
24	0.00	112.00	97.55	508.00	890.20	618.45	173.30	107.05	78.55	64.60	52.90	46.40		
25	0.00	128.00	134.30	645.30	706.50	524.00	166.60	106.10	77.60	63.70	52.90	45.60		
26	0.00	171.00	1293.85	486.05	730.30	498.45	164.40	104.20	76.65	63.70	52.90	44.80		
27	0.00	137.45	1670.50	404.00	648.70	551.20	162.20	102.30	74.75	63.70	52.00	44.80		
28	0.00	135.35	1631.55	438.00	679.30	486.05	161.10	101.35	74.75	62.80	52.00	44.80		
29	0.00	158.90	1481.00	456.60	595.35	444.20	156.70	100.40	75.70	62.80	51.20	44.80		
30	0.00	161.10	1026.70	346.60	472.10	405.50	160.00	99.45	75.70	61.90		45.60		
31		185.95		886.60	503.20		192.85		74.75	61.90		47.20		
Total	0.00	4420.25	10525.20	16851.60	23229.30	17319.30	8340.85	3766.75	2629.80	2114.45	1677.30	1549.60	92424.40	CMSDAY
Mean	0.00	142.59	350.84	543.60	749.33	577.31	269.06	125.56	84.83	68.21	57.84	49.99	252.53	CMS
Max	0.00	282.20	1670.50	1114.10	1188.20	848.80	638.50	175.60	97.55	74.75	65.50	61.90	1670.50	CMS
Min	0.00	41.60	97.55	222.75	470.55	365.40	156.70	99.45	74.75	61.90	51.20	44.80	0.00	CMS
Runoff	0.00	381.91	909.38	1455.98	2007.01	1496.39	720.65	325.45	227.22	182.69	144.92	133.89	7985.47	MCM
Momentary Peak	1684.85 CMS. at 187.57 m. (MSL.) at 03.00 Hours , on Jun 27 , 2011													
Runoff Yield	24.82	Liters/Second/Square KM.			Momentary Peak Yield			165.604	Liters/Second/Square KM.					

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Wat Luang Pho Kaeo , Nakhon Sawan (N.14A)**

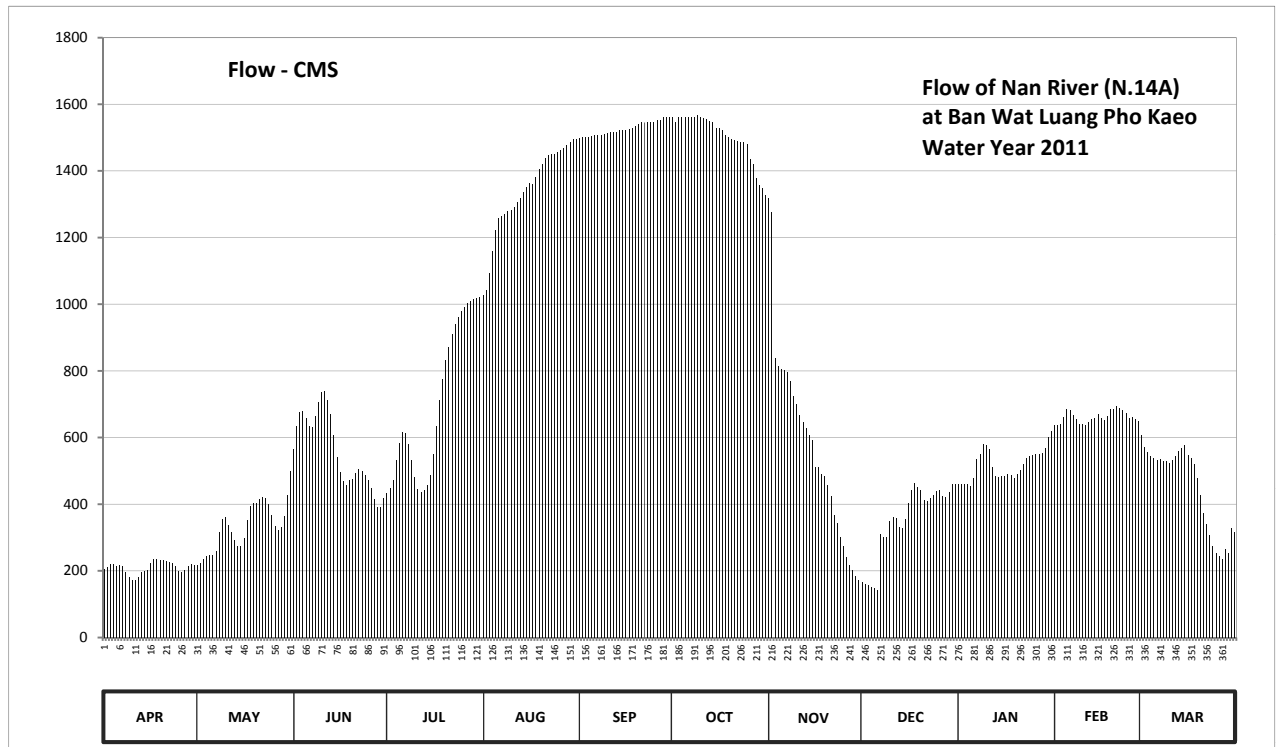
Lat 15 - 53 - 44 N Long 100 - 18 - 42 E

Location : on right bank in front of Wat Luang Pho Kaeo about 1 kilometer upstream from Station N.14

	Ban	Wat Luang Pho Kaeo	Amphoe	Chum Saeng	Changwat	Nakhon Sawan
Drainage Area	32,826	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank in front of automatic gage building.				Elevation	+32.155 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1971 to date					
Rating Operation						
Period of Rating	1973 - 1979, 1991 to date					
Rated by Flot	-					
Rated by Current Meter	1972 - 1980, 1991 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow					
General Description	Records good. Flow effected by Naresuan Dam.					
	Stage-discharge relation defined by 41 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.93	21.25	24.80	23.79	27.15	28.89	29.10	28.25	23.01	24.00	25.27	25.08	
2	21.06	21.36	25.25	23.90	27.21	28.90	29.05	28.10	22.75	24.00	25.27	24.84	
3	21.29	21.60	25.51	24.11	27.41	28.90	29.10	27.97	22.61	24.00	25.30	24.74	
4	21.29	21.79	25.53	24.56	27.66	28.90	29.10	27.90	22.47	24.00	25.43	24.66	
5	21.17	21.90	25.41	24.92	27.90	28.91	29.10	27.87	22.27	23.95	25.56	24.60	
6	21.24	21.86	25.25	25.14	28.03	28.92	29.10	27.86	22.09	24.15	25.54	24.56	
7	21.12	22.08	25.24	25.12	28.05	28.92	29.10	27.85	22.63	24.59	25.46	24.58	
8	20.79	22.70	25.44	24.90	28.08	28.92	29.10	27.76	22.53	24.70	25.38	24.55	
9	20.46	23.09	25.68	24.57	28.11	28.93	29.12	27.59	22.53	24.90	25.30	24.54	
10	20.25	23.12	25.84	24.19	28.12	28.94	29.10	27.50	23.02	24.87	25.30	24.50	
11	20.22	22.92	25.86	23.89	28.16	28.95	29.09	27.35	23.14	24.80	25.28	24.57	
12	20.43	22.69	25.72	23.82	28.21	28.95	29.08	27.25	23.11	24.41	25.34	24.65	
13	20.73	22.44	25.47	23.87	28.26	28.95	29.06	27.17	22.85	24.21	25.38	24.76	
14	20.82	22.24	25.09	23.98	28.32	28.97	29.05	27.07	22.83	24.19	25.40	24.83	
15	20.90	22.24	24.62	24.23	28.38	28.98	29.00	27.00	23.07	24.20	25.47	24.87	
16	21.38	22.51	24.31	24.69	28.42	28.98	29.00	26.60	23.51	24.22	25.40	24.68	
17	21.63	23.06	24.09	25.26	28.41	28.99	28.97	26.60	23.85	24.25	25.36	24.60	
18	21.61	23.43	23.97	25.71	28.48	29.00	28.92	26.49	24.04	24.24	25.45	24.49	
19	21.58	23.51	24.11	26.04	28.57	29.01	28.90	26.45	23.93	24.16	25.56	24.16	
20	21.55	23.51	24.13	26.30	28.62	29.03	28.88	26.30	23.85	24.25	25.57	23.73	
21	21.46	23.61	24.27	26.48	28.69	29.05	28.87	26.07	23.59	24.35	25.62	23.24	
22	21.43	23.68	24.36	26.66	28.72	29.05	28.86	25.65	23.57	24.49	25.58	22.95	
23	21.37	23.64	24.32	26.79	28.73	29.05	28.85	25.44	23.64	24.60	25.55	22.59	
24	21.14	23.48	24.24	26.88	28.73	29.05	28.85	25.07	23.73	24.66	25.50	22.25	
25	20.82	23.18	24.11	26.96	28.75	29.05	28.83	24.80	23.83	24.68	25.40	22.00	
26	20.78	22.87	23.91	27.00	28.77	29.07	28.67	24.42	23.85	24.70	25.42	21.80	
27	20.87	22.75	23.63	27.05	28.79	29.07	28.62	24.11	23.71	24.69	25.38	21.61	
28	21.13	22.85	23.41	27.08	28.82	29.10	28.47	23.84	23.67	24.72	25.35	22.15	
29	21.29	23.16	23.41	27.11	28.85	29.10	28.40	23.50	23.81	24.82	25.30	22.00	
30	21.19	23.73	23.65	27.12	28.88	29.10	28.37	23.23	24.00	25.04		22.83	
31		24.32		27.13	28.88		28.29		24.00	25.16		22.71	
Mean	21.06	22.79	24.69	25.46	28.33	28.99	28.90	26.44	23.27	24.45	25.42	23.81	
Max	21.63	24.32	25.86	27.13	28.88	29.10	29.12	28.25	24.04	25.16	25.62	25.08	29.12
Min	20.22	21.25	23.41	23.79	27.15	28.89	28.29	23.23	22.09	23.95	25.27	21.61	20.22
Annual Max Momentary Gage Height	29.12		m. (MSL.) ,			at 06.00 Hours , on Oct 9 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	15.00	m. (MSL)						
Left Bank Elevation	29.84		m. (MSL.) ,										
Right Bank Elevation	32.10		m. (MSL.) ,		Drainage Area	32826	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	204.30	218.90	565.00	433.90	1026.50	1498.10	1561.00	1317.50	167.00	459.00	636.20	607.00		
2	210.20	223.90	633.00	447.00	1041.50	1501.00	1545.50	1277.00	160.10	459.00	636.20	571.00		
3	220.70	234.80	675.70	472.20	1092.60	1501.00	1561.00	839.50	156.40	459.00	641.00	556.60		
4	220.70	243.40	679.10	531.40	1158.20	1501.00	1561.00	815.00	152.70	459.00	662.10	545.40		
5	215.20	248.40	658.70	583.00	1223.00	1503.90	1561.00	804.50	147.40	453.00	684.20	537.00		
6	218.40	246.60	633.00	616.00	1258.10	1506.80	1561.00	801.00	142.60	477.00	680.80	531.40		
7	213.00	260.20	631.40	613.00	1263.50	1506.80	1561.00	797.50	310.00	535.60	667.20	534.20		
8	197.90	317.00	663.80	580.00	1271.60	1506.80	1561.00	768.00	300.70	551.00	653.80	530.00		
9	182.90	356.90	705.40	532.80	1279.70	1509.70	1567.80	722.50	300.70	580.00	641.00	528.60		
10	173.40	360.20	735.20	481.80	1282.40	1512.60	1561.00	700.00	349.20	575.50	641.00	523.00		
11	172.00	339.00	739.30	445.80	1293.20	1515.50	1557.90	667.90	362.40	565.00	637.80	532.80		
12	181.60	316.00	712.60	437.40	1306.70	1515.50	1554.80	646.40	359.10	510.40	647.40	544.00		
13	195.20	292.60	668.90	443.40	1320.20	1515.50	1548.60	629.30	332.00	484.30	653.80	559.40		
14	199.30	274.60	608.50	456.60	1336.40	1521.30	1545.50	607.90	330.00	481.80	657.00	569.50		
15	202.90	274.60	539.80	486.90	1352.60	1524.20	1530.00	592.90	354.70	483.00	668.90	575.50		
16	224.80	298.90	497.30	549.60	1363.60	1524.20	1530.00	510.00	403.10	485.60	657.00	548.20		
17	236.20	353.60	469.80	634.60	1360.80	1527.10	1521.30	510.00	441.00	489.50	650.60	537.00		
18	235.30	394.30	455.40	710.80	1380.40	1530.00	1506.80	490.20	463.80	488.20	665.50	521.60		
19	233.90	403.10	472.20	776.20	1405.60	1533.10	1501.00	483.00	450.60	478.20	684.20	478.20		
20	232.50	403.10	474.60	831.00	1419.80	1539.30	1495.20	458.00	441.00	489.50	685.90	427.30		
21	228.40	414.10	492.10	870.60	1440.10	1545.50	1492.30	424.80	411.90	502.50	694.60	373.40		
22	227.10	421.80	503.80	910.80	1448.80	1545.50	1489.40	368.50	409.70	521.60	687.60	342.00		
23	224.30	417.40	498.60	940.70	1451.70	1545.50	1486.50	342.80	417.40	537.00	682.50	306.10		
24	213.90	399.80	488.20	961.40	1451.70	1545.50	1486.50	300.70	427.30	545.40	674.00	275.50		
25	199.30	366.80	472.20	980.40	1457.50	1545.50	1480.70	273.00	438.60	548.20	657.00	253.00		
26	197.50	334.00	448.20	990.00	1463.30	1551.70	1434.30	240.60	441.00	551.00	660.40	243.90		
27	201.60	322.00	416.30	1002.00	1469.10	1551.70	1419.80	217.70	425.10	549.60	653.80	235.30		
28	213.40	332.00	392.10	1009.20	1477.80	1561.00	1377.60	201.50	420.70	553.80	649.00	266.50		
29	220.70	364.60	392.10	1016.50	1486.50	1561.00	1358.00	184.70	436.20	568.00	641.00	253.00		
30	216.10	427.30	418.50	1019.00	1495.20	1561.00	1349.90	173.20	459.00	601.00		330.00		
31		498.60		1021.50	1495.20		1328.30		459.00	619.00		318.00		
Total	6312.70	10358.50	1674.80	21785.50	41573.30	45807.30	46595.70	17165.60	10870.40	16060.70	19151.50	13954.40	266376.40	CMSDAY
Mean	210.40	334.10	558.00	702.80	1341.10	1526.90	1503.10	572.20	350.70	518.10	660.40	450.10	727.80	CMS
Max	236.20	498.60	739.30	1021.50	1495.20	1561.00	1567.80	1317.50	463.80	619.00	694.60	607.00	1567.80	CMS
Min	172.00	218.90	392.10	433.90	1026.50	1498.10	1328.30	173.20	142.60	453.00	636.20	235.30	142.60	CMS
Runoff	545.42	894.97	1446.41	1882.27	3591.93	3957.75	4025.87	1483.11	939.20	1387.64	1654.69	1205.66	23014.92	MCM
Momentary Peak	1567.80 CMS. at 29.12 m. (MSL.) at 06.00 Hours , on Oct 9 , 2011													
Runoff Yield	22.17	Liters/Second/Square KM.			Momentary Peak Yield			47.761	Liters/Second/Square KM.					

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Ban Tha Ngam , Phitsanulok (N.22A)**

Lat 16 - 59 - 33 N Long 100 - 19 - 31 E

Location : on left bank at Ban Tha Ngam.

	Ban	Tha Ngam	Amphoe	Wat Bot	Changwat	Phitsanulok
Drainage Area	4,774	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+41.630	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+52.936 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +49.590 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 20 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.80	42.41	42.97	43.42	44.65	47.91	48.18	43.66	42.18	44.20	43.58	43.67	
2	42.77	42.00	42.91	43.57	44.13	48.32	48.00	43.23	41.92	44.13	43.60	42.63	
3	42.72	42.01	42.90	43.50	44.87	48.32	48.03	43.08	42.02	44.13	43.61	42.87	
4	42.76	41.83	42.88	43.48	44.92	48.26	48.52	42.88	41.88	44.17	43.63	42.48	
5	42.78	41.96	42.84	43.44	45.01	48.29	48.67	42.54	41.88	44.12	43.60	42.33	
6	42.78	41.94	42.90	43.43	45.00	48.04	48.66	42.80	42.05	44.09	43.62	42.18	
7	42.86	42.15	42.83	43.43	44.75	47.00	48.72	42.86	42.63	44.06	43.61	42.14	
8	43.02	42.13	42.67	43.63	45.17	46.37	48.67	42.69	43.19	44.02	43.61	41.96	
9	43.55	41.96	42.65	43.66	45.33	47.62	48.56	43.18	43.00	43.93	43.63	42.23	
10	43.55	42.01	42.70	43.67	45.46	48.10	48.48	42.51	43.06	43.88	43.67	41.96	
11	43.63	42.05	42.69	43.66	45.70	47.65	47.67	42.25	43.04	44.00	43.66	41.98	
12	42.96	42.00	42.77	43.65	46.08	47.46	47.01	42.44	43.06	43.96	43.64	42.06	
13	43.21	41.94	42.80	43.71	45.96	48.24	46.94	42.35	43.07	43.93	43.61	41.93	
14	43.69	42.74	43.25	43.86	45.55	48.95	46.61	42.33	43.32	43.87	43.49	41.93	
15	43.32	43.14	43.18	43.74	45.95	49.01	47.28	42.29	43.45	43.85	43.46	42.03	
16	43.18	43.26	43.04	43.83	45.86	49.01	47.08	42.21	44.17	43.82	43.56	42.12	
17	43.16	43.23	43.31	44.05	46.38	49.42	46.63	42.48	43.65	43.78	43.54	41.93	
18	42.30	43.12	43.46	44.06	47.29	49.79	46.40	42.33	43.40	43.84	43.49	42.05	
19	43.38	43.18	43.46	43.99	47.38	49.94	46.44	42.26	42.62	43.85	43.48	41.98	
20	42.26	42.40	43.41	43.50	46.95	49.93	46.30	42.25	43.25	43.60	43.49	42.08	
21	42.01	42.68	43.41	43.05	46.89	49.92	45.99	42.25	43.32	43.72	43.44	42.05	
22	42.30	42.52	43.41	42.43	47.78	49.92	44.64	42.20	43.29	43.80	43.43	41.96	
23	42.26	42.43	43.41	42.23	47.78	49.86	44.53	42.17	43.24	43.60	43.43	42.04	
24	42.23	42.36	43.39	42.15	47.77	49.62	43.08	42.14	43.29	43.69	43.41	41.98	
25	42.50	42.42	43.37	42.15	47.95	49.30	42.91	42.13	43.27	43.59	43.32	42.03	
26	42.25	42.76	43.42	42.17	48.28	49.12	43.08	42.07	43.26	43.20	43.49	41.99	
27	41.83	42.83	43.44	42.52	48.52	49.23	43.03	41.98	43.68	43.82	43.37	41.97	
28	41.11	42.90	43.42	42.92	48.35	49.32	42.98	41.97	44.22	43.91	43.28	41.93	
29	41.76	42.82	43.38	43.01	47.90	49.18	42.93	41.88	44.19	43.62	43.25	41.93	
30	42.50	43.22	43.40	43.08	47.82	48.63	42.94	41.88	44.15	43.62		41.93	
31		43.50		43.13	47.61		42.96		44.11	43.59		41.93	
Mean	42.71	42.51	43.12	43.29	46.42	48.72	46.19	42.44	43.12	43.85	43.52	42.14	
Max	43.69	43.50	43.46	44.06	48.52	49.94	48.72	43.66	44.22	44.20	43.67	43.67	49.94
Min	41.11	41.83	42.65	42.15	44.13	46.37	42.91	41.88	41.88	43.20	43.25	41.93	41.11
Annual Max Momentary Gage Height	49.95		m. (MSL.) ,			at 19.00 Hours , on Sep 19 , 2011							
Zero Gage at Bottom Elevation	41.63		m. (MSL.) ,			River Bed	40.18	m. (MSL)					
Left Bank Elevation	50.18		m. (MSL.) ,										
Right Bank Elevation	49.58		m. (MSL.) ,			Drainage Area	4774	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.00	35.40	57.80	76.90	133.50	301.70	322.40	87.70	26.20	112.00	84.10	88.10	
2	49.80	19.00	55.40	83.60	108.80	336.00	308.00	68.30	16.20	108.80	85.00	44.20	
3	47.80	19.40	55.00	80.50	144.50	336.00	310.40	62.20	19.80	108.80	85.40	53.80	
4	49.40	13.10	54.20	79.60	147.00	330.00	356.00	54.20	14.80	110.60	86.40	38.20	
5	50.20	17.60	52.60	77.80	151.50	333.00	371.70	40.60	14.80	108.40	85.00	32.20	
6	50.20	16.90	55.00	77.30	151.00	311.20	370.60	51.00	21.00	107.00	85.90	26.20	
7	53.40	25.00	52.20	77.30	138.50	251.00	377.20	53.40	44.20	105.70	85.40	24.60	
8	59.80	24.20	45.80	86.40	159.50	219.50	371.70	46.60	66.60	103.90	85.40	17.60	
9	82.70	17.60	45.00	87.70	167.50	283.20	360.00	66.20	59.00	99.80	86.40	28.20	
10	82.70	19.40	47.00	88.10	174.00	316.00	352.00	39.40	61.40	97.60	88.10	17.60	
11	86.40	21.00	46.60	87.70	186.00	285.00	286.20	29.00	60.60	103.00	87.70	18.30	
12	57.40	19.00	49.80	87.30	205.00	274.30	251.50	36.60	61.40	101.20	86.80	21.40	
13	67.40	16.90	51.00	89.90	199.00	328.00	248.00	33.00	61.80	99.80	85.40	16.60	
14	89.00	48.60	69.20	96.70	178.50	404.00	231.50	32.20	72.40	97.10	80.10	16.60	
15	72.40	64.60	66.20	91.30	198.50	411.40	265.00	30.60	78.20	96.20	78.70	20.20	
16	66.20	69.70	60.60	95.40	194.00	411.40	255.00	27.40	110.60	94.90	83.20	23.80	
17	65.40	68.30	72.00	105.20	220.00	471.20	232.50	38.20	87.30	93.10	82.30	16.60	
18	31.00	63.80	78.70	105.70	265.50	530.40	221.00	32.20	76.00	95.80	80.10	21.00	
19	75.10	66.20	78.70	102.60	270.00	557.20	223.00	29.40	43.80	96.20	79.60	18.30	
20	29.40	35.00	76.40	80.50	248.50	555.40	216.00	29.00	69.20	85.00	80.10	22.20	
21	19.40	46.20	76.40	61.00	245.50	553.60	200.50	29.00	72.40	90.40	77.80	21.00	
22	31.00	39.80	76.40	36.20	292.80	553.60	133.00	27.00	71.10	94.00	77.30	17.60	
23	29.40	36.20	76.40	28.20	292.80	542.80	127.50	25.80	68.80	85.00	77.30	20.60	
24	28.20	33.40	75.50	25.00	292.20	503.20	62.20	24.60	71.10	89.00	76.40	18.30	
25	39.00	35.80	74.60	25.00	304.50	453.00	55.40	24.20	70.10	84.50	72.40	20.20	
26	29.00	49.40	76.90	25.80	332.00	426.80	62.20	21.80	69.70	67.00	80.10	18.70	
27	13.10	52.20	77.80	39.80	356.00	442.50	60.20	18.30	88.60	94.90	74.60	18.00	
28	0.60	55.00	76.90	55.80	339.00	456.00	58.20	18.00	112.90	98.90	70.60	16.60	
29	10.80	51.80	75.10	59.40	301.00	435.20	56.20	14.80	111.50	85.90	69.20	16.60	
3													

WATER YEAR : 2011

NAN RIVER BASIN

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

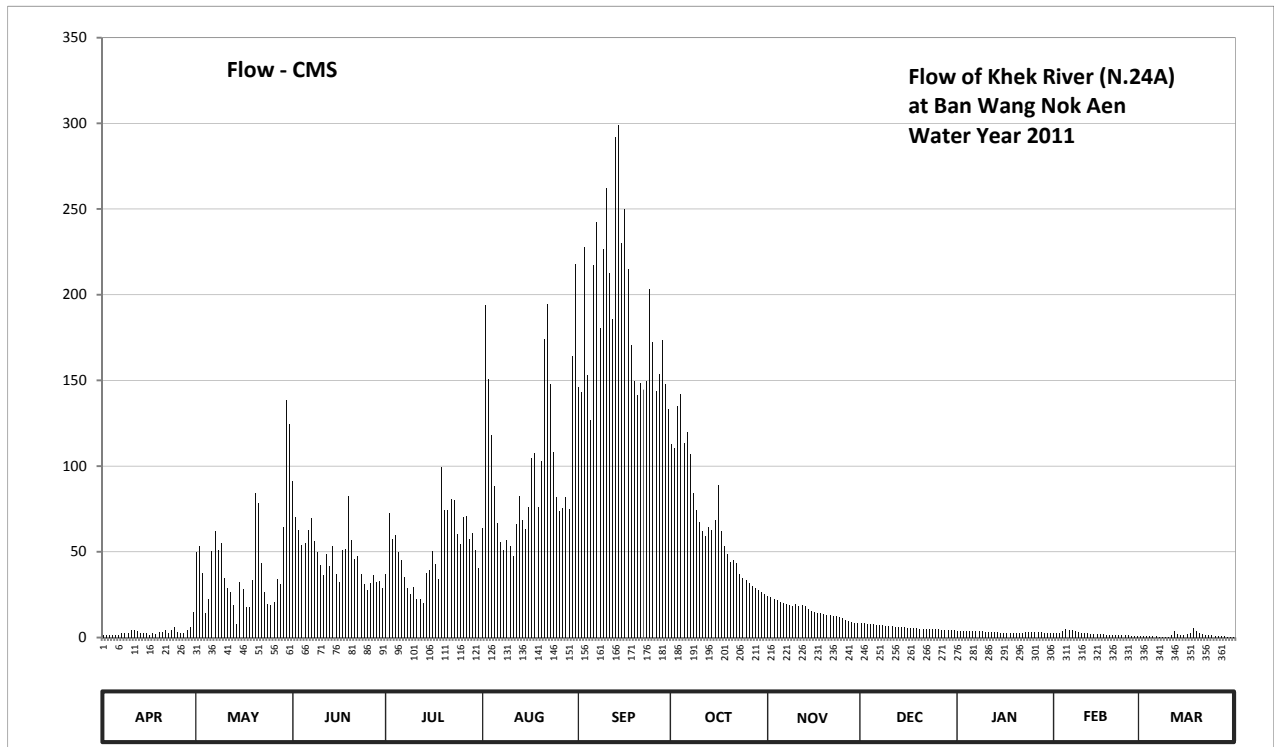
Lat 16 - 50 - 36 N Long 100 - 31 - 20 E

Location : on right bank about 2 kilometers downstream from Sakunothayan Fall.

	Ban	Wang Nok Aen	Amphoe	Wang Thong	Changwat	Phitsanulok
Drainage Area	1,838	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+40.710	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+54.851 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1965 to date					
Rating Operation						
Period of Rating	1965 - 1974 , 1980 to date					
Rated by Flot	-					
Rated by Current Meter	1965 - 1974 , 1980 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation + 49.710 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.76	45.21	47.16	44.51	45.94	48.95	47.95	43.74	42.58	42.11	41.93	41.73	
2	41.77	45.38	46.25	46.37	50.08	48.87	47.87	43.69	42.56	42.10	41.92	41.72	
3	41.81	44.56	45.86	45.60	49.08	50.71	48.64	43.63	42.54	42.09	41.96	41.71	
4	41.83	43.06	45.40	45.73	48.13	49.14	48.84	43.57	42.52	42.08	42.08	41.70	
5	41.82	43.61	45.48	45.20	47.04	48.39	47.96	43.51	42.50	42.08	42.25	41.69	
6	41.80	45.22	45.87	44.96	46.09	50.52	48.18	43.46	42.46	42.07	42.15	41.68	
7	41.98	45.84	46.23	44.41	45.50	50.97	47.75	43.43	42.45	42.07	42.13	41.67	
8	41.97	45.26	45.55	44.03	45.27	49.79	46.86	43.40	42.44	42.06	42.09	41.67	
9	41.96	45.47	45.21	43.81	45.57	50.69	46.44	43.35	42.42	42.06	42.02	41.67	
10	42.14	44.39	44.80	44.07	45.37	51.29	46.11	43.41	42.41	42.05	41.96	41.67	
11	42.17	44.04	44.47	43.63	45.08	50.43	45.85	43.36	42.39	42.04	41.93	41.79	
12	42.10	43.89	45.12	43.61	46.06	49.91	45.68	43.37	42.36	42.02	41.91	42.10	
13	41.90	43.40	44.77	43.47	46.80	51.75	45.96	43.35	42.35	42.01	41.89	41.85	
14	41.92	42.52	45.37	44.56	46.18	51.86	45.86	43.25	42.33	42.00	41.87	41.80	
15	41.90	44.24	44.50	44.63	45.92	50.76	46.17	43.16	42.32	41.99	41.86	41.80	
16	41.81	44.01	44.24	45.22	46.52	51.09	47.06	43.11	42.31	41.99	41.85	41.84	
17	41.90	43.31	45.27	44.84	47.67	50.48	45.84	43.07	42.30	41.98	41.84	41.91	
18	41.88	43.32	45.28	44.35	47.77	49.56	45.38	43.04	42.28	41.97	41.83	42.29	
19	42.05	44.31	46.78	47.48	46.52	49.05	45.12	43.02	42.27	41.96	41.82	42.09	
20	42.00	46.86	45.57	46.44	47.61	48.81	44.89	42.99	42.25	41.95	41.81	41.96	
21	42.14	46.60	44.97	46.42	49.64	49.02	44.94	42.96	42.24	41.95	41.80	41.87	
22	41.98	44.85	45.08	46.71	50.09	48.91	44.87	42.91	42.23	41.96	41.80	41.82	
23	42.15	43.91	44.50	46.70	48.99	49.04	44.51	42.92	42.22	42.02	41.79	41.79	
24	42.37	43.42	44.18	45.75	47.79	50.26	44.37	42.87	42.21	42.04	41.78	41.76	
25	42.03	43.37	43.95	45.46	46.76	49.61	44.30	42.83	42.19	42.01	41.76	41.74	
26	41.99	43.51	44.21	46.26	46.41	48.89	44.21	42.74	42.18	42.00	41.75	41.73	
27	41.98	44.36	44.47	46.28	46.48	49.15	44.12	42.66	42.17	42.03	41.75	41.70	
28	42.14	44.19	44.25	45.61	46.77	49.63	44.04	42.62	42.15	42.02	41.74	41.68	
29	42.33	45.97	44.27	45.79	46.45	48.99	43.97	42.61	42.14	41.98	41.74	41.67	
30	43.09	48.74	44.04	45.25	49.42	48.59	43.89	42.60	42.13				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.20	50.10	91.20	37.00	63.90	146.10	112.90	24.30	8.40	4.00	2.50	1.00	
2	1.30	53.30	70.30	72.90	194.10	143.20	110.50	23.50	8.20	3.90	2.40	0.90	
3	1.60	37.90	62.40	57.50	150.80	227.50	135.20	22.70	8.00	3.80	2.70	0.80	
4	1.70	14.20	53.70	59.90	118.30	153.10	142.20	21.70	7.80	3.70	3.70	0.80	
5	1.70	22.40	55.20	49.90	88.40	126.50	113.20	20.80	7.60	3.70	5.20	0.70	
6	1.50	50.30	62.50	45.40	66.90	217.20	119.80	20.10	7.20	3.60	4.40	0.60	
7	2.80	62.00	69.90	35.20	55.60	242.60	107.00	19.60	7.10	3.60	4.20	0.50	
8	2.80	51.00	56.50	28.70	51.20	180.60	84.20	19.20	7.00	3.50	3.80	0.50	
9	2.70	55.00	50.10	25.40	56.90	226.30	74.50	18.40	6.80	3.50	3.20	0.50	
10	4.30	34.80	42.40	29.40	53.10	262.40	67.30	19.30	6.70	3.40	2.70	0.50	
11	4.50	28.90	36.30	22.70	47.70	212.40	62.20	18.60	6.50	3.40	2.50	1.40	
12	3.90	26.50	48.40	22.40	66.30	186.00	59.00	18.70	6.20	3.20	2.30	3.90	
13	2.30	19.20	41.80	20.30	82.80	291.80	64.20	18.40	6.10	3.10	2.20	1.90	
14	2.40	7.80	53.10	37.90	68.80	298.90	62.40	16.90	6.00	3.00	2.00	1.50	
15	2.30	32.30	36.80	39.20	63.50	230.20	68.60	15.60	5.90	2.90	2.00	1.50	
16	1.60	28.40	32.30	50.30	76.40	250.00	88.80	14.90	5.80	2.90	1.90	1.80	
17	2.30	17.90	51.20	43.10	104.80	215.00	62.00	14.40	5.70	2.80	1.80	2.30	
18	2.10	18.00	51.40	34.10	107.60	170.30	53.30	14.00	5.50	2.80	1.70	5.60	
19	3.40	33.50	82.30	99.60	76.40	149.70	48.40	13.70	5.40	2.70	1.70	3.80	
20	3.00	84.20	56.90	74.50	103.10	141.20	44.10	13.30	5.20	2.60	1.60	2.70	
21	4.30	78.20	45.60	74.10	173.80	148.60	45.00	12.90	5.20	2.60	1.50	2.00	
22	2.80	43.30	47.70	80.70	194.60	144.60	43.70	12.30	5.10	2.70	1.50	1.70	
23	4.40	26.80	36.80	80.50	147.50	149.30	37.00	12.40	5.00	3.20	1.40	1.40	
24	6.30	19.50	31.30	60.30	108.10	203.40	34.50	11.80	4.90	3.40	1.30	1.20	
25	3.30	18.70	27.50	54.80	81.90	172.50	33.30	11.40	4.70	3.10	1.20	1.10	
26	2.90	20.80	31.80	70.50	73.80	143.90	31.80	10.30	4.60	3.00	1.10	1.00	
27	2.80	34.30	36.30	71.00	75.40	153.50	30.20	9.30	4.50	3.30	1.10	0.80	
28	4.30	31.40	32.40	57.60	82.10	173.40	28.90	8.80	4.40	3.20	1.10	0.60	
29	6.00	64.40	32.80	61.00	74.70	147.50	27.80	8.70	4.30	2.80	1.10	0.50	
30	14.70	138.70	28.90	50.90	164.30	133.40	26.50	8.60	4.20	2.70		0.50	
31		124.60		40.70	217.70		25.40		4.10	2.50		0.40	
Total	101.20	1328.40	1455.80	1587.50	3090.50	5641.10	2043.90	474.60	184.10	98.60	65.80	44.40	16115.90 CMSDAY
Mean	3.40	42.90	48.50	51.20	99.70	188.00	65.90	15.80	5.90	3.20	2.30	1.40	44.00 CMS
Max	14.70	138.70	91.20	99.60	217.70	298.90	142.20	24.30	8.40	4.00	5.20	5.60	298.90 CMS
Min	1.20	7.80	27.50	20.30	47.70	126.50	25.40	8.60	4.10	2.50	1.10	0.40	0.40 CMS
Runoff	8.74	114.77	125.78	137.16	267.02	487.39	176.59	41.01	15.91	8.52	5.69	3.84	1392.41 MCM
Momentary Peak	319.05 CMS. at 52.17 m. (MSL.) at 09.00 Hours , on Sep 13 , 2011												
Runoff Yield	23.96	Liters/Second/Square KM.			Momentary Peak Yield			173.585 Liters/Second/Square KM.					

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Ban Nong Kham , Phitsanulok (N.27A)**

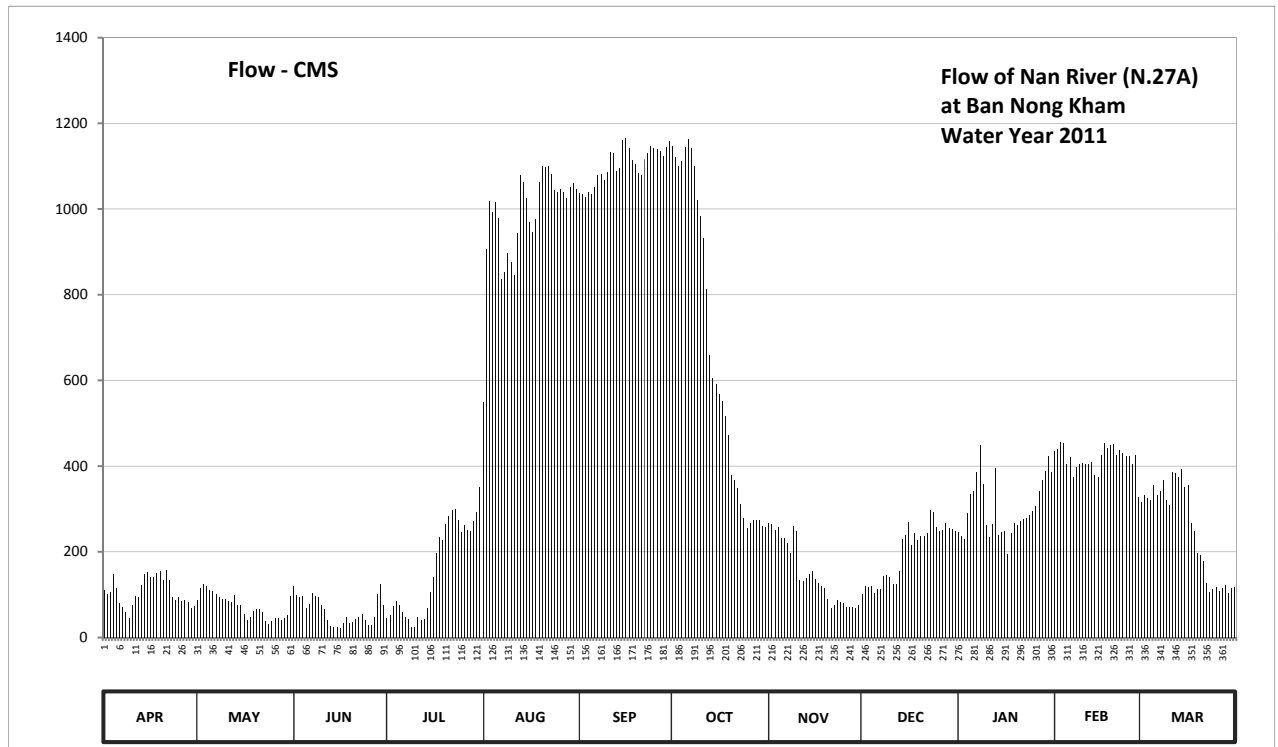
Lat 17 - 01 - 46 N Long 100 - 11 - 00 E

Location : on right bank about 1.8 kilometers downstream from Phrom Phiram Dam.

	Ban	Nong Kham	Amphoe	Phrom Phiram	Changwat	Phitsanulok
Drainage Area	19,363	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+38.430	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	About 10 meters from the top staff gage.				Elevation	+48.572 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1980 to date					
Rating Operation						
Period of Rating	1980 to date					
Rated by Flot	-					
Rated by Current Meter	1980 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Flow regulated by Naresuan Dam about 2 kilometers above gage site. Stage-discharge relation defined by 19 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.97	39.64	40.11	38.83	44.47	47.94	48.68	41.94	39.86	41.74	43.53	42.46	
2	39.86	40.05	39.81	38.99	47.07	47.93	48.50	41.93	40.12	41.62	43.57	42.61	
3	39.93	40.18	39.72	39.37	47.82	47.88	48.36	41.77	40.08	41.56	43.71	42.54	
4	40.51	40.11	39.77	39.58	47.65	47.96	48.44	41.84	40.10	42.20	43.68	42.49	
5	40.06	39.97	39.31	39.45	47.80	47.93	48.65	41.57	39.87	42.63	43.27	42.83	
6	39.50	39.94	39.46	39.13	47.55	48.03	48.78	41.57	40.02	42.70	43.42	42.61	
7	39.35	39.85	39.88	38.89	46.58	48.22	48.64	41.44	40.00	43.11	43.00	42.70	
8	39.13	39.75	39.79	38.78	46.70	48.24	48.37	41.18	40.46	43.65	43.21	42.93	
9	38.84	39.67	39.74	38.34	47.01	48.14	47.84	41.87	40.49	42.86	43.27	42.50	
10	39.44	39.66	39.44	38.32	46.86	48.27	47.59	41.76	40.42	41.90	43.29	42.39	
11	39.77	39.57	39.25	38.89	46.66	48.58	47.24	40.33	40.18	41.60	43.28	43.11	
12	39.75	39.56	38.75	38.71	47.32	48.57	46.42	40.30	40.17	41.93	43.27	43.09	
13	40.15	39.82	38.39	38.76	48.22	48.29	45.32	40.39	40.60	43.19	43.32	43.01	
14	40.51	39.45	38.32	39.31	48.12	48.33	44.91	40.50	41.55	41.66	43.04	43.16	
15	40.58	39.44	38.30	39.91	47.87	48.77	44.80	40.62	41.66	41.72	43.00	42.78	
16	40.43	39.01	38.29	40.41	47.49	48.80	44.62	40.35	41.97	41.75	43.46	42.83	
17	40.43	38.74	38.57	41.16	47.34	48.64	44.49	40.20	41.40	41.12	43.68	41.96	
18	40.55	38.90	38.85	41.61	47.53	48.46	44.22	40.13	41.71	41.70	43.60	41.76	
19	40.61	39.14	38.57	41.52	48.12	48.39	43.85	40.06	41.52	41.96	43.64	41.15	
20	40.32	39.25	38.63	41.93	48.36	48.25	43.05	39.65	41.63	41.91	43.66	41.11	
21	40.66	39.25	38.80	42.12	48.34	48.22	42.94	39.28	41.63	42.01	43.46	40.92	
22	40.31	39.10	38.87	42.27	48.36	48.47	42.76	39.41	41.70	42.05	43.55	40.21	
23	39.72	38.68	39.00	42.30	48.24	48.56	42.40	39.64	42.27	42.08	43.49	39.92	
24	39.61	38.52	38.73	42.03	47.99	48.68	42.06	39.54	42.22	42.15	43.44	40.02	
25	39.76	38.69	38.45	41.72	47.96	48.64	41.83	39.50	41.86	42.25	43.44	40.08	
26	39.59	38.83	38.42	41.91	48.01	48.62	41.96	39.34	41.76	42.36	43.28	39.94	
27	39.62	38.84	38.90	41.77	47.96	48.59	42.03	39.33	41.78	42.70	43.45	40.04	
28	39.54	38.73	39.85	41.75	47.87	48.52	42.03	39.33	41.94	42.93	42.57	40.14	
29	39.30	38.82	40.18	42.00	48.03	48.65	42.03	39.31	41.82	43.12	42.50	39.87	
30	39.40	38.97	39.43	42.21	48.09	48.75	41.87	39.41	41.79	43.43		40.04	
31		39.79		42.78	48.01		41.84		41.75	43.10		40.08	
Mean	39.91	39.35	39.12	40.48	47.59	48.38	45.05	40.45	41.11	42.28	43.35	41.65	
Max	40.66	40.18	40.18	42.78	48.36	48.80	48.78	41.94	42.27	43.65	43.71	43.16	48.80
Min	38.84	38.52	38.29	38.32	44.47	47.88	41.83	39.28	39.86	41.12	42.50	39.87	38.29
Annual Max Momentary Gage Height	48.89		m. (MSL.) ,			at 21.00 Hours , on Sep 15 , 2011							
Zero Gage at Bottom Elevation	38.43		m. (MSL.) ,		River Bed	36.84	m. (MSL)						
Left Bank Elevation	49.09		m. (MSL.) ,										
Right Bank Elevation	49.04		m. (MSL.) ,		Drainage Area	19363	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	109.90	88.40	119.70	45.50	549.10	1037.00	1148.00	266.30	102.20	247.30	434.60	317.00		
2	102.20	115.50	98.70	53.50	906.50	1035.50	1121.00	265.40	120.40	235.90	439.40	332.10		
3	107.10	124.60	93.20	72.50	1019.00	1028.00	1100.00	250.20	117.60	230.60	456.20	325.00		
4	147.70	119.70	96.20	84.80	993.50	1040.00	1112.00	256.80	119.00	291.00	452.60	320.00		
5	116.20	109.90	69.50	77.00	1016.00	1035.50	1143.50	231.50	102.90	334.20	404.00	355.30		
6	80.00	107.80	77.60	60.50	978.50	1050.50	1163.00	231.50	113.40	341.50	421.40	332.10		
7	71.50	101.50	103.60	48.50	835.20	1079.00	1142.00	220.40	112.00	386.10	374.00	341.50		
8	60.50	95.00	97.40	43.10	852.50	1082.00	1101.50	198.40	144.20	449.00	397.10	366.30		
9	46.00	90.20	94.40	24.90	897.50	1067.00	1022.00	259.60	146.30	358.60	404.00	321.00		
10	76.40	89.60	76.40	24.20	875.70	1086.50	984.50	249.20	141.40	262.50	406.30	310.00		
11	96.20	84.20	66.50	48.50	846.70	1133.00	932.00	135.10	124.60	234.00	405.20	386.10		
12	95.00	83.60	41.80	40.00	944.00	1131.50	812.80	133.00	123.90	265.40	404.00	383.90		
13	122.50	99.40	26.60	42.20	1079.00	1089.50	659.60	139.30	154.00	394.90	409.80	375.10		
14	147.70	77.00	24.20	69.50	1064.00	1095.50	606.30	147.00	229.80	239.70	378.40	391.60		
15	152.60	76.40	23.50	105.70	1026.50	1161.50	592.00	155.40	239.70	245.40	374.00	349.90		
16	142.10	54.50	23.10	140.70	969.50	1166.00	568.60	136.50	269.20	248.30	426.20	355.30		
17	142.10	41.30	33.80	196.80	947.00	1142.00	551.70	126.00	217.00	193.60	452.60	268.20		
18	150.50	49.00	46.50	235.00	975.50	1115.00	517.50	121.10	244.50	243.50	443.00	249.20		
19	154.70	61.00	33.80	227.20	1064.00	1104.50	473.00	116.20	227.20	268.20	447.80	196.00		
20	134.40	66.50	36.40	265.40	1100.00	1083.50	379.50	89.00	236.90	263.50	450.20	192.80		
21	158.20	66.50	44.00	283.40	1097.00	1079.00	367.40	68.00	236.90	272.90	426.20	177.60		
22	133.70	59.00	47.50	298.00	1100.00	1116.50	347.80	74.60	243.50	276.70	437.00	126.70		
23	93.20	38.60	54.00	301.00	1082.00	1130.00	311.00	88.40	298.00	279.60	429.80	106.40		
24	86.60	31.80	40.90	274.80	1044.50	1148.00	277.70	82.40	293.00	286.30	423.80	113.40		
25	95.60	39.00	29.00	245.40	1040.00	1142.00	255.90	80.00	258.70	296.00	423.80	117.60		
26	85.40	45.50	27.80	263.50	1047.50	1139.00	268.20	71.00	249.20	307.00	405.20	107.80		
27	87.20	46.00	49.00	250.20	1040.00	1134.50	274.80	70.50	251.10	341.50	425.00	114.80		
28	82.40	40.90	101.50	248.30	1026.50	1124.00	274.80	70.50	266.30	366.30	328.00	121.80		
29	69.00	45.00	124.60	272.00	1050.50	1143.50	274.80	69.50	254.90	387.20	321.00	102.90		
30	74.00	52.50	75.80	292.00	1059.50	1158.50	259.60	74.60	252.10	422.60		114.80		
31		97.40		349.90	1047.50		256.80		248.30	385.00		117.60		
Total	3220.60	2297.30	1877.00	4984.00	30574.70	33078.00	20299.30	4477.40	6138.20	9354.30	12000.60	7789.80	136091.20	CMSDAY
Mean	107.40	74.10	62.60	160.80	986.30	1102.60	654.80	149.20	198.00	301.80	413.80	251.30	371.80	CMS
Max	158.20	124.60	124.60	349.90	1100.00	1166.00	1163.00	266.30	298.00	449.00	456.20	391.60	1166.00	CMS
Min	46.00	31.80	23.10	24.20	549.10	1028.00	255.90	68.00	102.20	193.60	321.00	102.90	23.10	CMS
Runoff	278.26	198.49	162.17	430.62	2641.65	2857.94	1753.86	386.85	530.34	808.21	1036.85	673.04	11758.28	MCM
Momentary Peak	1179.50 CMS. at 48.89 m. (MSL.) at 21.00 Hours , on Sep 15 , 2011													
Runoff Yield	19.20	Liters/Second/Square KM.			Momentary Peak Yield		60.915	Liters/Second/Square KM.						

WATER YEAR : 2011

NAN RIVER BASIN

Nan River at Ban Na Klam , Uttaradit (N.28A)

Lat 17 - 35 - 00 N Long 100 - 29 - 30 E

Location : on right bank at Ban Na Klam

	Ban	Na Klam	Amphoe	Nam Pat	Changwat	Uttaradit
Drainage Area	368	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+120.274	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+126.015 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.06	121.89	121.76	121.75	123.34	122.64	122.56	122.11	121.89	122.05	122.16	122.19	
2	122.10	121.68	121.70	121.75	123.14	122.76	122.62	122.12	121.89	122.05	122.24	122.19	
3	122.10	121.64	121.77	121.75	124.06	122.65	122.70	122.07	121.89	122.05	122.27	122.19	
4	122.10	121.61	121.76	121.71	123.17	122.54	122.59	122.10	121.89	122.05	122.27	122.19	
5	122.09	121.60	121.96	121.67	122.86	122.74	122.66	122.09	121.88	122.14	122.27	122.19	
6	122.10	121.61	121.82	121.65	122.92	123.01	122.51	122.05	121.88	122.08	122.27	122.19	
7	122.23	122.05	121.77	121.87	122.82	122.82	122.43	122.04	121.87	122.40	122.30	122.19	
8	122.18	121.77	121.72	122.18	122.64	122.67	122.39	122.07	121.87	122.40	122.30	122.19	
9	122.13	121.91	121.67	122.27	122.54	124.10	122.35	122.07	121.87	122.40	122.30	122.19	
10	122.07	121.61	121.65	122.27	122.47	123.62	122.32	122.06	121.87	122.40	122.30	122.19	
11	122.07	121.59	121.64	122.27	123.85	123.01	122.37	122.03	121.87	122.38	122.30	122.19	
12	122.07	121.59	121.64	122.27	123.36	122.85	122.27	122.02	121.87	122.36	122.30	122.21	
13	122.03	121.57	121.69	122.27	122.94	123.05	122.71	122.01	121.87	122.27	122.30	122.24	
14	122.04	121.56	121.66	122.29	122.75	123.12	122.45	121.99	121.86	122.25	122.21	122.21	
15	122.07	121.73	121.63	122.29	122.61	122.87	122.57	121.97	121.86	122.25	122.18	122.21	
16	122.05	121.85	121.67	122.29	122.67	122.82	122.40	121.97	121.85	122.20	122.18	122.22	
17	122.05	121.81	121.65	122.49	123.37	122.65	122.32	121.99	121.85	122.14	122.18	122.21	
18	122.03	121.78	121.62	122.36	123.11	122.68	122.31	121.98	121.85	122.13	122.18	122.25	
19	121.97	121.73	121.61	122.34	122.92	122.57	122.32	121.96	121.85	122.12	122.18	122.25	
20	121.92	122.13	121.61	122.33	122.92	122.59	122.33	121.96	121.85	122.13	122.20	122.25	
21	121.94	121.84	121.61	122.36	123.03	122.54	122.31	121.95	121.84	122.11	122.21	122.15	
22	122.09	121.77	121.63	122.37	122.84	122.54	122.23	121.94	121.84	122.07	122.24	122.15	
23	122.17	121.72	121.61	122.33	122.66	122.74	122.21	121.94	121.84	122.02	122.27	122.15	
24	122.07	121.67	121.61	122.30	122.55	122.68	122.20	121.94	121.83	121.97	122.27	122.15	
25	122.00	121.69	121.62	122.31	122.47	122.62	122.18	121.94	121.82	121.96	122.27	122.15	
26	122.03	121.72	121.92	122.30	122.51	122.53	122.06	121.94	121.82	121.95	122.27	122.15	
27	121.99	121.69	122.13	122.39	122.82	122.73	122.11	121.94	121.82	121.95	122.27	122.15	
28	122.11	121.77	121.97	122									

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.70	1.20	0.60	0.60	55.80	18.00	15.00	3.40	1.20	2.60	4.20	4.60		
2	3.20	0.40	0.40	0.60	42.60	23.20	17.20	3.50	1.20	2.60	5.40	4.60		
3	3.20	0.30	0.70	0.60	117.60	18.40	20.40	2.80	1.20	2.60	5.90	4.60		
4	3.20	0.20	0.60	0.40	44.30	14.20	16.00	3.20	1.20	2.60	5.90	4.60		
5	3.10	0.20	1.70	0.30	27.80	22.20	18.80	3.10	1.10	3.80	5.90	4.60		
6	3.20	0.20	0.90	0.30	30.70	35.50	13.20	2.60	1.10	3.00	5.90	4.60		
7	5.30	2.60	0.70	1.10	25.90	25.90	10.30	2.50	1.10	9.20	6.40	4.60		
8	4.50	0.70	0.50	4.50	18.00	19.20	8.90	2.80	1.10	9.20	6.40	4.60		
9	3.70	1.30	0.30	5.90	14.20	122.00	7.80	2.80	1.10	9.20	6.40	4.60		
10	2.80	0.20	0.30	5.90	11.70	76.60	7.00	2.70	1.10	9.20	6.40	4.60		
11	2.80	0.20	0.30	5.90	96.00	35.50	8.40	2.40	1.10	8.60	6.40	4.60		
12	2.80	0.20	0.30	5.90	57.20	27.30	5.90	2.20	1.10	8.10	6.40	5.00		
13	2.40	0.20	0.40	5.90	31.80	37.70	20.90	2.10	1.10	5.90	6.40	5.40		
14	2.50	0.20	0.30	6.20	22.70	41.50	11.00	1.90	1.00	5.60	5.00	5.00		
15	2.80	0.50	0.30	6.20	16.80	28.20	15.30	1.80	1.00	5.60	4.50	5.00		
16	2.60	1.00	0.30	6.20	19.20	25.90	9.20	1.80	1.00	4.80	4.50	5.10		
17	2.60	0.80	0.30	12.40	57.90	18.40	7.00	1.90	1.00	3.80	4.50	5.00		
18	2.40	0.70	0.20	8.10	41.00	19.60	6.70	1.80	1.00	3.70	4.50	5.60		
19	1.80	0.50	0.20	7.50	30.70	15.30	7.00	1.70	1.00	3.50	4.50	5.60		
20	1.40	3.70	0.20	7.20	30.70	16.00	7.20	1.70	1.00	3.70	4.80	5.60		
21	1.50	1.00	0.20	8.10	36.60	14.20	6.70	1.60	1.00	3.40	5.00	4.00		
22	3.10	0.70	0.30	8.40	26.80	14.20	5.30	1.50	1.00	2.80	5.40	4.00		
23	4.30	0.50	0.20	7.20	18.80	22.20	5.00	1.50	1.00	2.20	5.90	4.00		
24	2.80	0.30	0.20	6.40	14.60	19.60	4.80	1.50	0.90	1.80	5.90	4.00		
25	2.00	0.40	0.20	6.70	11.70	17.20	4.50	1.50	0.90	1.70	5.90	4.00		
26	2.40	0.50	1.40	6.40	13.20	13.90	2.70	1.50	0.90	1.60	5.90	4.00		
27	1.90	0.40	3.70	8.90	25.90	21.80	3.40	1.50	0.90	1.60	5.90	4.00		
28	3.40	0.70	1.80	7.00	31.20	41.50	3.70	1.40	0.90	1.50	5.10	3.80		
29	3.80	0.60	1.00	7.80	19.20	39.30	4.00	1.40	0.90	1.40	5.10	3.80		
30	3.80	0.70	0.70	7.00	19.60	24.50	3.50	1.40	0.90	1.40		3.80		
31		0.60		44.90	18.80		2.80		0.90	1.40		3.80		
Total	88.00	21.70	19.20	210.50	1029.00	869.00	279.60	63.50	31.90	128.10	160.40	141.10	3042.00	CMSDAY

WATER YEAR : 2011

NAN RIVER BASIN

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

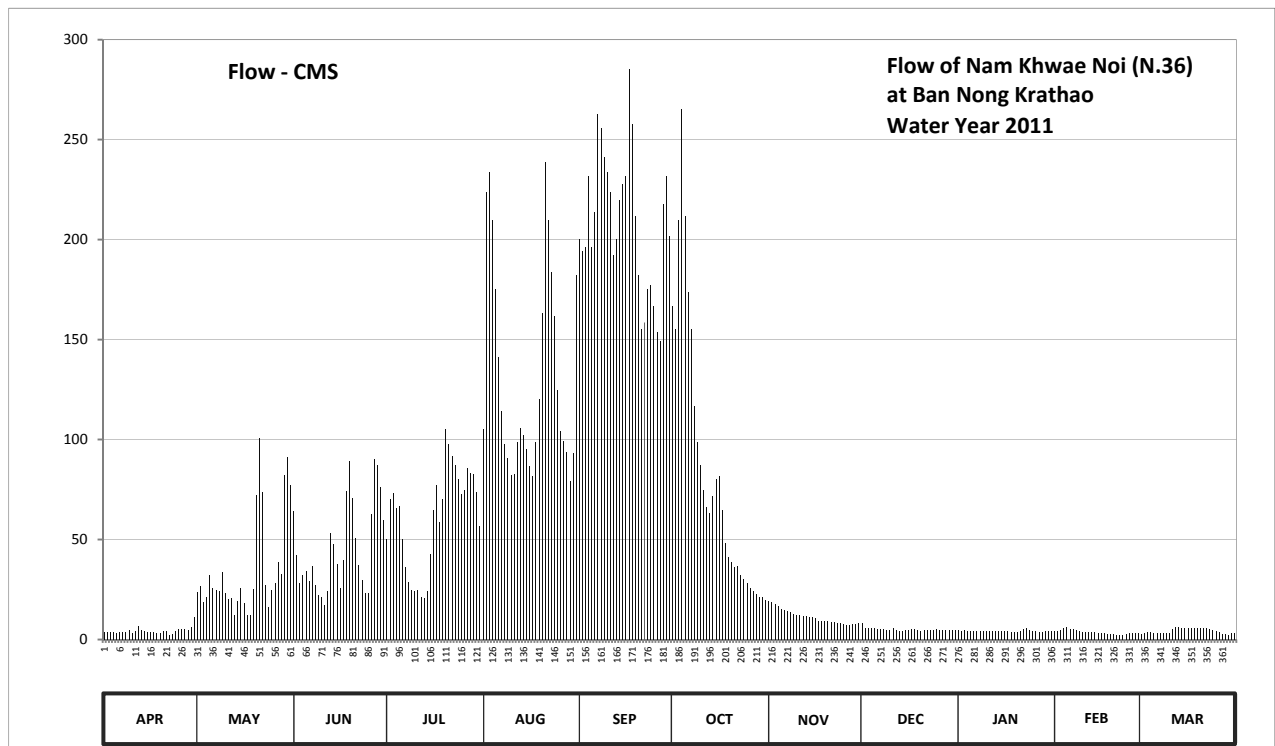
Lat 17 - 04 - 59 N Long 100 - 49 - 44 E

Location : on left bank about 50 meters upstream from the bridge along Lom Sak - Nakhon Thai Road, Tambon Nong Krathao.

	Ban	Nong Krathao	Amphoe	Nakhon Thai	Changwat	Phitsanulok
Drainage Area	1,710	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+191.880	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank along the measuring line.				Elevation	+200.293 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1967 to date					
Rating Operation						
Period of Rating	1971 - 1979 , 1993 to date					
Rated by Flot	-					
Rated by Current Meter	1971 - 1979 , 1993 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Stage-discharge relation defined by 16 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	193.34	194.97	196.99	196.38	198.48	199.23	199.04	194.68	193.83	193.44	193.37	193.20	
2	193.34	195.14	196.00	197.24	199.35	199.20	198.97	194.65	193.58	193.41	193.40	193.22	
3	193.29	194.64	195.25	197.37	199.40	199.21	199.28	194.56	193.55	193.44	193.48	193.30	
4	193.30	194.79	195.46	197.06	199.28	199.39	199.53	194.50	193.58	193.42	193.57	193.29	
5	193.25	195.48	195.57	197.11	199.09	199.21	199.29	194.39	193.55	193.43	193.62	193.26	
6	193.35	195.09	195.28	196.38	198.88	199.30	199.08	194.37	193.52	193.43	193.50	193.26	
7	193.31	195.04	195.70	195.69	198.63	199.52	198.97	194.34	193.50	193.43	193.51	193.25	
8	193.34	195.01	195.17	195.26	198.29	199.49	198.66	194.29	193.49	193.43	193.46	193.23	
9	193.46	195.55	194.86	195.04	198.04	199.43	198.33	194.22	193.48	193.42	193.39	193.22	
10	193.23	194.92	194.79	194.99	197.73	199.40	197.92	194.19	193.48	193.39	193.36	193.23	
11	193.43	194.72	194.52	195.04	197.75	199.35	197.43	194.17	193.55	193.39	193.31	193.50	
12	193.66	194.77	195.01	194.81	198.32	199.19	197.08	194.13	193.44	193.38	193.30	193.60	
13	193.45	194.17	196.52	194.77	198.49	199.23	196.95	194.16	193.43	193.40	193.29	193.61	
14	193.42	194.68	196.25	195.02	198.42	199.33	197.31	194.11	193.43	193.40	193.29	193.59	
15	193.35	195.10	195.74	196.02	198.21	199.37	197.65	194.09	193.48	193.40	193.28	193.58	
16	193.34	194.59	195.09	197.02	197.91	199.39	197.72	194.07	193.46	193.42	193.24	193.58	
17	193.34	194.20	195.87	197.54	197.71	199.61	197.02	193.94	193.49	193.40	193.23	193.58	
18	193.21	194.19	197.42	196.76	198.32	199.50	196.28	193.92	193.50	193.36	193.19	193.58	
19	193.26	195.05	198.00	197.24	198.70	199.29	195.95	193.92	193.46	193.32	193.18	193.57	
20	193.38	197.34	197.27	198.48	199.02	199.13	195.81	193.92	193.43	193.32	193.19	193.56	
21	193.41	198.39	196.39	198.29	199.42	198.97	195.68	193.87	193.45	193.43	193.10	193.56	
22	193.11	197.39	195.72	198.09	199.28	198.99	195.70	193.86	193.44	193.49	193.08	193.55	
23	193.16	195.18	195.32	197.93	199.14	199.09	195.45	193.85	193.44	193.55	193.10	193.52	
24	193.39	194.47	194.95	197.65	199.01	199.10	195.36	193.83	193.46	193.46	193.16	193.46	
25	193.53	195.04	194.94	197.35	198.75	199.04	195.23	193.78	193.49	193.43	193.25	193.41	
26	193.51	195.24	196.92	197.43	198.46	198.96	195.09	193.73	193.46	193.41	193.21	193.30	
27	193.50	195.80	198.02	197.86	198.34	198.93	195.02	193.71	193.44	193.33	193.22	193.18	
28	193.48	195.49	197.92	197									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.80	23.80	64.20	50.40	105.20	200.00	166.80	19.40	8.30	4.60	4.00	2.90	
2	3.80	26.60	42.40	70.00	224.00	194.00	155.40	18.90	5.80	4.30	4.20	3.00	
3	3.50	18.80	28.50	73.10	234.00	196.00	210.00	17.60	5.60	4.60	4.90	3.60	
4	3.60	21.00	32.10	65.80	210.00	232.00	265.20	16.70	5.80	4.40	5.70	3.50	
5	3.20	32.50	34.20	66.90	175.30	196.00	212.00	15.10	5.60	4.50	6.20	3.30	
6	3.90	25.70	29.00	50.40	141.40	214.00	173.60	14.80	5.30	4.50	5.10	3.30	
7	3.60	24.90	36.70	36.50	114.00	262.80	155.40	14.40	5.10	4.50	5.20	3.20	
8	3.80	24.40	27.10	28.60	97.70	255.60	116.70	13.70	5.00	4.50	4.70	3.10	
9	4.70	33.90	22.10	24.90	90.50	241.20	98.90	12.70	4.90	4.40	4.10	3.00	
10	3.10	23.00	21.00	24.10	82.00	234.00	87.20	12.30	4.90	4.10	3.90	3.10	
11	4.50	20.00	17.00	24.90	82.50	224.00	74.50	12.00	5.60	4.10	3.60	5.10	
12	6.60	20.80	24.40	21.30	98.60	192.30	66.20	11.60	4.60	4.10	3.60	6.00	
13	4.70	12.00	53.40	20.80	105.70	200.00	63.20	11.90	4.50	4.20	3.50	6.10	
14	4.40	19.40	47.50	24.50	102.00	220.00	71.60	11.30	4.50	4.20	3.50	5.90	
15	3.90	25.90	37.50	42.80	95.30	228.00	80.00	11.10	4.90	4.20	3.40	5.80	
16	3.80	18.10	25.70	64.90	86.90	232.00	81.80	10.80	4.70	4.40	3.20	5.80	
17	3.80	12.40	39.90	77.30	81.60	285.10	64.90	9.40	5.00	4.20	3.10	5.80	
18	3.00	12.30	74.30	58.90	98.60	258.00	48.20	9.20	5.10	3.90	2.80	5.80	
19	3.30	25.10	89.40	70.00	120.20	212.00	41.40	9.20	4.70	3.70	2.80	5.70	
20	4.10	72.40	70.70	105.20	163.40	182.10	38.80	9.20	4.50	3.70	2.80	5.60	
21	4.30	100.70	50.60	97.70	238.80	155.40	36.30	8.70	4.70	4.50	2.40	5.60	
22	2.40	73.60	37.10	91.90	210.00	158.50	36.70	8.60	4.60	5.00	2.20	5.60	
23	2.70	27.30	29.60	87.40	183.80	175.30	32.00	8.50	4.60	5.60	2.40	5.30	
24	4.10	16.30	23.40	80.00	161.70	177.00	30.30	8.30	4.70	4.70	2.70	4.70	
25	5.40	24.90	23.30	72.60	124.60	166.80	28.10	7.80	5.00	4.50	3.20	4.30	
26	5.20	28.30	62.60	74.50	104.10	153.80	25.70	7.30	4.70	4.30	3.00	3.60	
27	5.10	38.60	90.00	85.50	99.20	149.10	24.50	7.10	4.60	3.70	3.00	2.80	
28	4.90	32.70	87.20	83.10	93.60	218.00	22.70	7.50	4.60	3.70	3.20	2.80	
29	6.10	82.30	76.30	82.50	79.30	232.00	21.30	7.50	4.70	4.00	3.30	2.30	
30	11.40	91.10	59.80	73.60	93.00	202.00	21.30	8.40	4.60	4.00		3.00	
31		77.30		56.80	182.10		19.90		4.60				

WATER YEAR : 2011**NAN RIVER BASIN****Khlong Chom Phu at Ban Chom Phu , Phitsanulok (N.43A)**

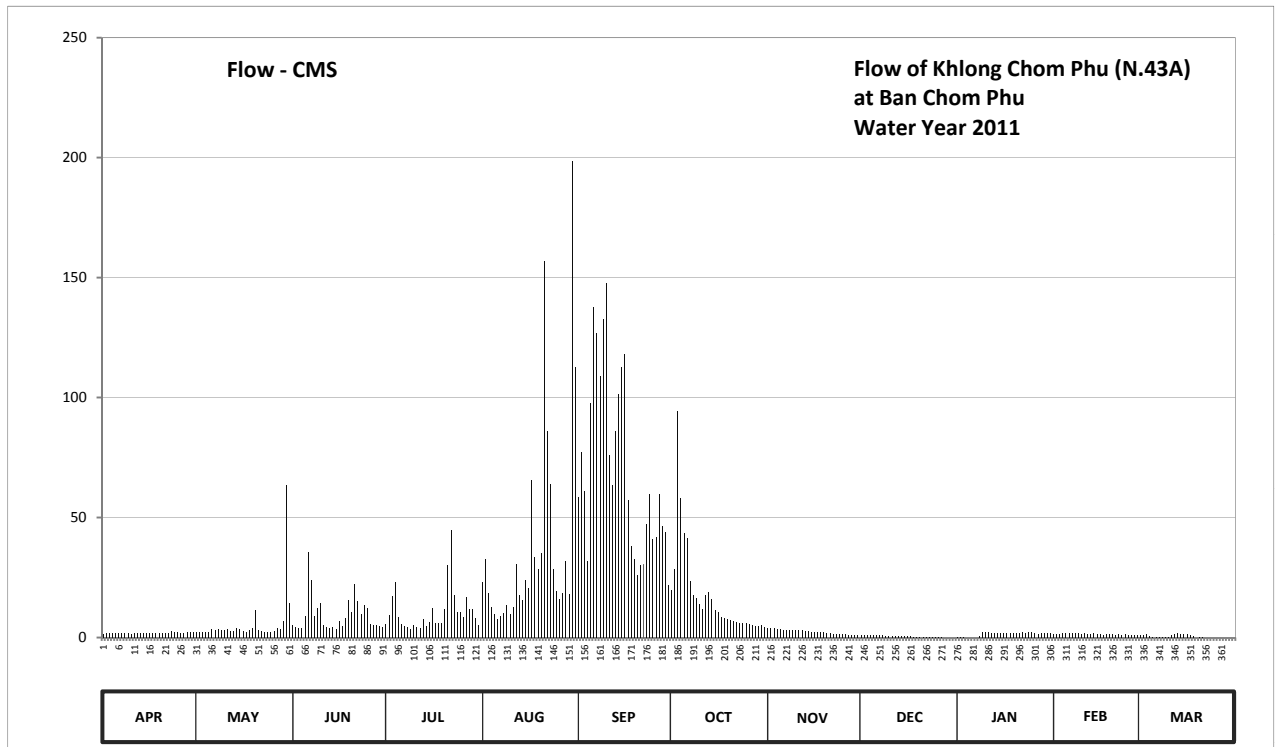
Lat 16 - 41 - 40 N Long 100 - 39 - 28 E

Location : on right bank at Ban Chom Phu.

	Ban	Chom Phu	Amphoe	Noen Maprang	Changwat	Phitsanulok
Drainage Area	-	sq.km.				
Type of Gage		Staff gage				
Zero Gage at Bottom	+50.056	m. (MSL.)				
Bench Mark		B.M.-H.D.				
Location BM		Near the gage site.			Elevation	+59.558 m. (MSL.)
Gage Reading Frequency		5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height		Arithmetic means of 5 readings				
Period of Available Gage Records		2010 to date				
Rating Operation						
Period of Rating		2010 to date				
Rated by Flot		-				
Rated by Current Meter		2010 to date				
Stability of Channel Regimes		Stable.				
Overbank Flow Conditions		Overbank flow starts at elevation +58.610 m.(MSL.), records are channel flow only.				
General Description		Records good. Stage-discharge relation defined by 22 discharge measurements made in 2011.				

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

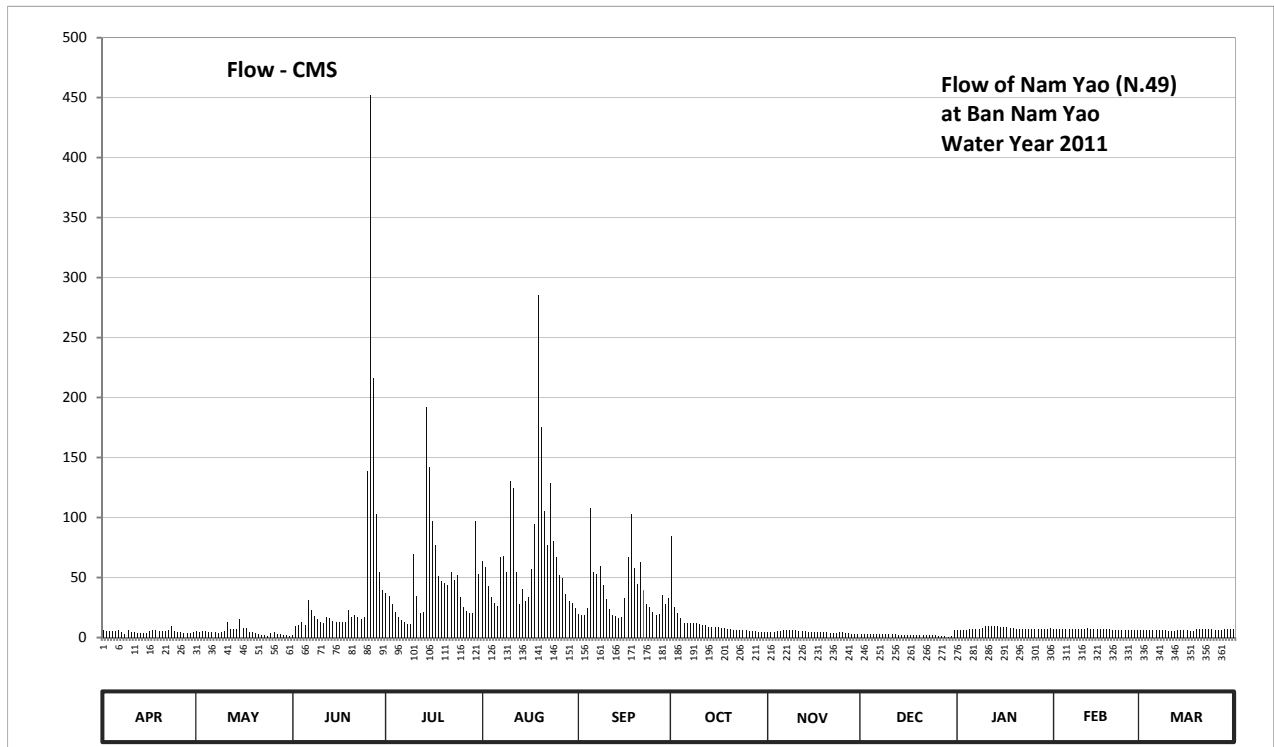
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.83	52.04	52.58	52.63	54.73	56.11	54.43	52.36	51.76	51.51	51.88	51.73	
2	51.94	52.06	52.40	53.16	55.26	56.54	55.07	52.35	51.75	51.51	51.88	51.79	
3	51.96	52.05	52.37	54.19	54.32	56.18	56.84	52.32	51.75	51.51	51.89	51.85	
4	51.95	52.04	52.38	54.72	53.66	55.23	56.10	52.28	51.74	51.49	51.91	51.68	
5	51.93	52.03	53.12	53.04	53.21	56.89	55.67	52.26	51.74	51.48	52.01	51.56	
6	51.94	52.30	55.39	52.61	52.91	57.45	55.60	52.24	51.73	51.48	51.97	51.56	
7	51.93	52.23	54.81	52.49	53.12	57.32	54.75	52.23	51.71	51.42	51.91	51.60	
8	51.95	52.26	53.09	52.41	53.27	57.07	54.24	52.23	51.71	51.68	51.91	51.60	
9	51.95	52.21	53.62	52.28	53.75	57.39	54.11	52.22	51.70	52.06	51.91	51.58	
10	51.90	52.22	53.86	52.58	53.25	57.56	53.80	52.20	51.69	52.06	51.90	51.57	
11	51.95	52.26	52.58	52.40	53.65	56.52	53.54	52.19	51.69	52.06	51.92	51.73	
12	51.94	52.13	52.43	52.33	55.19	56.23	54.24	52.18	51.68	52.01	51.88	51.81	
13	51.95	52.16	52.35	52.94	54.27	56.70	54.36	52.15	51.67	52.01	51.83	51.95	
14	51.95	52.34	52.41	52.46	54.03	56.95	54.08	52.11	51.66	52.01	51.91	51.84	
15	51.95	52.25	52.28	52.77	54.80	57.13	53.46	52.09	51.66	51.99	51.88	51.81	
16	51.95	52.13	52.79	53.62	54.53	57.21	53.34	52.06	51.65	51.96	51.82	51.81	
17	51.96	52.08	52.45	52.69	56.29	56.08	53.05	52.06	51.63	51.96	51.76	51.75	
18	51.94	52.21	52.97	52.68	55.30	55.48	52.99	52.05	51.60	51.96	51.83	51.63	
19	51.96	52.34	54.04	52.66	55.08	55.26	52.95	52.03	51.58	51.96	51.82	51.46	
20	51.99	53.48	53.39	53.56	55.36	54.94	52.86	52.00	51.56	51.96	51.83	51.60	
21	52.01	52.20	54.67	55.17	57.66	55.16	52.80	51.96	51.55	52.01	51.77	51.56	
22	52.01	52.14	53.97	55.70	56.70	55.18	52.75	51.90	51.54	52.03	51.82	51.43	
23	52.11	52.08	53.21	54.26	56.25	55.78	52.70	51.88	51.54	52.01	51.79	51.46	
24	52.04	52.06	53.77	53.38	55.08	56.14	52.67	51.86	51.53	52.06	51.83	51.49	
25	52.03	52.06	53.61	53.39	54.41	55.58	52.66	51.85	51.52	52.03	51.73	51.45	
26	52.01	52.11	52.64	53.06	54.09	55.61	52.59	51.82	51.51	51.99	51.78	51.43	
27	52.01	52.36	52.56	54.14	54.32	56.14	52.55	51.78	51.51	51.89	51.73	51.44	
28	52.02	52.26	52.58	53.58	55.23	55.76	52.49	51.76	51.50	51.97	51.71	51.36	
29	52.06	52.83	52.47	53.56	54.31	55.68	52.45	51.76	51.49	52.00	51.81	51.34	
30	52.06	56.23	52.43	53.01	58.07	54.61	52.52	51.75	51.48	52.01		51.28	
31		53.88		52.58	57.13		52.40		51.48	51.96		51.29	
Mean	51.97	52.42	53.11	53.23	54.81	56.20	53.68	52.06	51.62	51.87	51.85	51.59	
Max	52.11	56.23	55.39	55.70	58.07	57.56	56.84	52.36	51.76	52.06	52.01	51.95	58.07
Min	51.83	52.03	52.28	52.28	52.91	54.61	52.40	51.75	51.48	51.42	51.71	51.28	51.28
Annual Max Momentary Gage Height	58.96		m. (MSL.) ,				at 18.00 Hours , on Aug 30 , 2011						
Zero Gage at Bottom Elevation	50.06		m. (MSL.) ,			River Bed	49.73	m. (MSL)					
Left Bank Elevation	58.72		m. (MSL.) ,										
Right Bank Elevation	58.60		m. (MSL.) ,			Drainage Area		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.32	2.20	5.41	5.72	23.16	58.58	19.62	4.01	1.04	0.04	1.52	0.92		
2	1.76	2.30	4.27	9.23	32.50	77.12	28.40	3.95	1.00	0.04	1.52	1.16		
3	1.84	2.25	4.08	17.11	18.33	61.24	94.48	3.76	1.00	0.04	1.56	1.40		
4	1.80	2.20	4.14	23.04	12.68	31.75	58.20	3.51	0.96	0.00	1.64	0.72		
5	1.72	2.15	8.96	8.42	9.57	97.58	43.64	3.38	0.96	0.00	2.05	0.24		
6	1.76	3.63	35.75	5.60	7.54	137.80	41.40	3.25	0.92	0.00	1.88	0.24		
7	1.72	3.19	24.15	4.84	8.96	127.00	23.40	3.19	0.84	0.00	1.64	0.40		
8	1.80	3.38	8.76	4.33	9.97	108.95	17.56	3.19	0.84	0.72	1.64	0.40		
9	1.80	3.06	12.36	3.51	13.40	132.60	16.39	3.13	0.80	2.30	1.64	0.32		
10	1.60	3.13	14.28	5.41	9.84	147.48	13.80	3.00	0.76	2.30	1.60	0.28		
11	1.80	3.38	5.41	4.27	12.60	76.16	11.80	2.95	0.76	2.30	1.68	0.92		
12	1.76	2.65	4.46	3.82	30.80	63.26	17.56	2.90	0.72	2.05	1.52	1.24		
13	1.80	2.80	3.95	7.74	17.83	86.00	18.80	2.75	0.68	2.05	1.32	1.80		
14	1.80	3.89	4.33	4.65	15.67	101.30	16.12	2.55	0.64	2.05	1.64	1.36		
15	1.80	3.32	3.51	6.61	24.00	112.85	11.26	2.45	0.64	1.96	1.52	1.24		
16	1.80	2.65	6.74	12.36	20.78	118.20	10.45	2.30	0.60	1.84	1.28	1.24		
17	1.84	2.40	4.58	6.10	65.78	57.44	8.49	2.30	0.52	1.84	1.04	1.00		
18	1.76	3.06	7.95	6.04	33.50	38.16	8.08	2.25	0.40	1.84	1.32	0.52		
19	1.84	3.89	15.76	5.91	28.60	32.50	7.81	2.15	0.32	1.84	1.28	0.00		
20	1.96	11.39	10.78	11.93	35.00	26.10	7.21	2.00	0.24	1.84	1.32	0.40		
21	2.05	3.00	22.44	30.40	157.00	30.20	6.80	1.84	0.20	2.05	1.08	0.24		
22	2.05	2.70	15.16	44.60	86.00	30.60	6.48	1.60	0.16	2.15	1.28	0.00		
23	2.55	2.40	9.57	17.74	64.10	47.16	6.17	1.52	0.16	2.05	1.16	0.00		
24	2.20	2.30	13.56	10.72	28.60	59.72	5.98	1.44	0.12	2.30	1.32	0.00		
25	2.15	2.30	12.28	10.78	19.38	40.86	5.91	1.40	0.08	2.15	0.92	0.00		
26	2.05	2.55	5.79	8.56	16.21	41.72	5.47	1.28	0.04	1.96	1.12	0.00		
27	2.05	4.01	5.28	16.66	18.33	59.72	5.22	1.12	0.04	1.56	0.92	0.00		
28	2.10	3.38	5.41	12.07	31.75	46.52	4.84	1.04	0.00	1.88	0.84	0.00		
29	2.30	7.00	4.71	11.93	18.22	43.96	4.58	1.04	0.00	2.00	1.24	0.00		
30	2.30	63.26	4.46	8.22	198.70	21.72	5.03	1.00	0.00	2.05		0.00		
31		14.44		5.41	112.85		4.27		0.00	1.84		0.00		
Total	57.08	174.26	288.29	333.73	1181.65	2114.25	535.22	72.25	15.44	47.04	40.49	16.04	4875.74	CMSDAY
Mean	1.90	5.62	9.61	10.77	38.12	70.47	17.27	2.41	0.50	1.52	1.40	0.52	13.32	CMS
Max	2.55	63.26	35.75	44.60	198.70	147.48	94.48	4.01	1.04	2.30	2.05	1.80	198.70	CMS
Min	1.32	2.15	3.51	3.51	7.54	21.72	4.27	1.00	0.00	0.00	0.84	0.00	0.00	CMS
Runoff	4.93	15.06	24.91	28.83	102.10	182.67	46.24	6.24	1.33	4.06	3.50	1.39	421.26	MCM
Momentary Peak	307.40 CMS. at 58.96 m. (MSL.) at 18.00 Hours , on Aug 30 , 2011													
Runoff Yield	*****	Liters/Second/Square KM.			Momentary Peak Yield			*****	Liters/Second/Square KM.					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	265.73	265.72	265.47	265.81	266.10	265.59	266.30	265.32	265.26	265.74	265.78	265.74	
2	265.72	265.69	265.43	265.78	266.05	265.58	265.67	265.32	265.26	265.74	265.76	265.74	
3	265.72	265.71	265.45	265.70	265.88	265.58	265.61	265.32	265.26	265.74	265.76	265.74	
4	265.72	265.71	265.50	265.62	265.77	265.66	265.54	265.34	265.26	265.74	265.76	265.74	
5	265.72	265.67	265.45	265.56	265.71	266.49	265.48	265.34	265.26	265.78	265.76	265.74	
6	265.73	265.66	265.74	265.52	265.68	266.01	265.48	265.35	265.25	265.77	265.76	265.74	
7	265.66	265.65	265.64	265.49	266.13	265.99	265.48	265.35	265.25	265.77	265.76	265.74	
8	265.55	265.64	265.57	265.47	266.14	266.06	265.48	265.35	265.25	265.77	265.76	265.74	
9	265.75	265.69	265.53	265.46	266.01	265.89	265.48	265.35	265.25	265.80	265.76	265.74	
10	265.69	265.72	265.49	266.16	266.66	265.75	265.46	265.35	265.25	265.82	265.76	265.72	
11	265.65	265.86	265.48	265.78	266.62	265.65	265.44	265.34	265.25	265.82	265.78	265.72	
12	265.63	265.76	265.56	265.61	266.01	265.58	265.44	265.33	265.25	265.82	265.80	265.72	
13	265.62	265.78	265.54	265.62	265.70	265.57	265.42	265.33	265.24	265.82	265.76	265.74	
14	265.60	265.78	265.51	267.07	265.85	265.55	265.42	265.32	265.23	265.82	265.76	265.74	
15	265.62	265.89	265.49	266.74	265.73	265.56	265.42	265.32	265.23	265.81	265.76	265.75	
16	265.72	265.79	265.50	266.40	265.77	265.76	265.42	265.31	265.23	265.81	265.76	265.75	
17	265.73	265.80	265.49	266.23	266.03	266.13	265.40	265.31	265.23	265.81	265.76	265.70	
18	265.73	265.66	265.49	265.97	266.38	266.45	265.39	265.31	265.23	265.80	265.76	265.71	
19	265.72	265.69	265.64	265.93	267.57	266.04	265.38	265.31	265.23	265.79	265.76	265.76	
20	265.71	265.61	265.56	265.91	266.97	265.90	265.38	265.31	265.23	265.78	265.75	265.76	
21	265.70	265.56	265.58	265.89	266.47	266.09	265.36	265.30	265.23	265.78	265.75	265.76	
22	265.73	265.52	265.56	266.01	266.23	265.84	265.36	265.30	265.23	265.78	265.75	265.76	
23	265.82	265.48	265.53	265.94	266.65	265.70	265.36	265.30	265.23	265.78	265.75	265.76	
24	265.72	265.46	265.56	265.98	266.26	265.67	265.35	265.31	265.23	265.78	265.75	265.76	
25	265.68	265.59	266.72	265.77	266.13	265.62	265.35	265.31	265.23	265.78	265.75	265.75	
26	265.66	265.67	268.32	265.67	265.98	265.58	265.34	265.29	265.22	265.78	265.75	265.75	
27	265.64	265.54	267.21	265.63	265.95	265.59	265.33	265.28	265.22	265.78	265.74	265.75	
28	265.63	265.53	266.45	265.61	265.80	265.79	265.33	265.27	265.22	265.77	265.74	265.78	
29	265.62	265.52	266.01	265.60	265.73	265.70	265.32	265.27	265.22	265.77	265.74	265.78	
30	265.68	265.48	265.84	266.40	265.71	265.76	265.32	265.27	265.41	265.77		265.78	
31		265.46		265.99	265.66		265.32		265.74	265.79		265.78	
Mean	265.69	265.65	265.78	265.88	266.11	265.80	265.45	265.32	265.26	265.78	265.76	265.75	
Max	265.82	265.89	268.32	267.07	267.57	266.49	266.30	265.35	265.74	265.82	265.80	265.78	268.32
Min	265.55	265.46	265.43	265.46	265.66	265.55	265.32	265.27	265.22	265.74	265.74	265.70	265.22
Annual Max Momentary Gage Height	269.58		m. (MSL.) , at 05.00 Hours , on Jun 26 , 2011										
Zero Gage at Bottom Elevation	263.98		m. (MSL.) , River Bed 264.16 m. (MSL)										
Left Bank Elevation	273.19		m. (MSL.) ,										
Right Bank Elevation	275.27		m. (MSL.) , Drainage Area 153 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.90	5.60	1.70	36.85	63.50	19.30	85.00	4.80	2.80	6.20	7.40	6.20		
2	5.60	4.85	9.50	34.40	58.75	18.60	25.60	4.80	2.80	6.20	6.80	6.20		
3	5.60	5.30	10.50	28.00	42.80	18.60	20.80	4.80	2.80	6.20	6.80	6.20		
4	5.60	5.30	13.00	21.60	33.60	24.80	15.80	5.60	2.80	6.20	6.80	6.20		
5	5.60	4.55	10.50	17.20	28.80	108.25	12.00	5.60	2.80	7.40	6.80	6.20		
6	5.90	4.40	31.20	14.40	26.40	54.95	12.00	6.00	2.50	7.10	6.80	6.20		
7	4.40	4.25	23.20	12.50	66.65	53.05	12.00	6.00	2.50	7.10	6.80	6.20		
8	2.75	4.10	17.90	11.50	67.70	59.70	12.00	6.00	2.50	7.10	6.80	6.20		
9	6.50	4.85	15.10	11.00	54.95	43.65	12.00	6.00	2.50	8.00	6.80	6.20		
10	4.85	5.60	12.50	69.80	130.40	32.00	11.00	6.00	2.50	9.60	6.80	5.60		
11	4.25	12.80	12.00	34.40	124.80	24.00	10.00	5.60	2.50	9.60	7.40	5.60		
12	3.95	6.80	17.20	20.80	54.95	18.60	10.00	5.20	2.50	9.60	8.00	5.60		
13	3.80	7.40	15.80	21.60	28.00	17.90	9.00	5.20	2.20	9.60	6.80	6.20		
14	3.50	7.40	13.70	191.90	40.25	16.50	9.00	4.80	1.90	9.60	6.80	6.20		
15	3.80	15.20	12.50	141.60	30.40	17.20	9.00	4.80	1.90	8.80	6.80	6.50		
16	5.60	7.70	13.00	97.00	33.60	32.80	9.00	4.40	1.90	8.80	6.80	6.50		
17	5.90	8.00	12.50	77.30	56.85	66.65	8.00	4.40	1.90	8.80	6.80	5.00		
18	5.90	4.40	12.50	51.15	94.60	103.25	7.60	4.40	1.90	8.00	6.80	5.30		
19	5.60	4.85	23.20	47.35	285.15	57.80	7.20	4.40	1.90	7.70	6.80	6.80		
20	5.30	3.65	17.20	45.45	175.50	44.50	7.20	4.40	1.90	7.40	6.50	6.80		
21	5.00	2.90	18.60	43.65	105.75	62.55	6.40	4.00	1.90	7.40	6.50	6.80		
22	5.90	2.30	17.20	54.95	77.30	39.40	6.40	4.00	1.90	7.40	6.50	6.80		
23	9.60	1.80	15.10	48.30	129.00	28.00	6.40	4.00	1.90	7.40	6.50	6.80		
24	5.60	1.60	17.20	52.10	80.60	25.60	6.00	4.40	1.90	7.40	6.50	6.80		
25	4.70	3.35	138.80	33.60	66.65	21.60	6.00	4.40	1.90	7.40	6.50	6.50		
26	4.40	4.55	451.80	25.60	52.10	18.60	5.60	3.70	1.60	7.40	6.50	6.50		
27	4.10	2.60	215.90	22.40	49.25	19.30	5.20	3.40	1.60	7.40	6.20	6.50		
28	3.95	2.45	103.25	20.80	36.00	35.20	5.20	3.10	1.60	7.10	6.20	7.40		
29	3.80	2.30	54.95	20.00	30.40	28.00	4.80	3.10	0.26	7.10	6.20	7.40		
30	4.70	1.80	39.40	97.00	28.80	32.80	4.80	3.10	1.10	7.10		7.40		
31		1.60		53.05	24.80		4.80		6.20	7.70		7.40		
Total	152.05	154.25	1366.90	1457.25	2178.30	1143.15	365.80	140.40	68.86	239.80	195.70	198.20	7660.66	CMSDAY
Mean	5.07	4.98	45.56	47.01	70.27	38.10	11.80	4.68	2.22	7.74	6.75	6.39	20.93	CMS
Max	9.60	15.20	451.80	191.90	285.15	108.25	85.00	6.00	6.20	9.60	8.00	7.40	451.80	CMS
Min	2.75	1.60	1.70	11.00	24.80	16.50	4.80	3.10	0.26	6.20	6.20	5.00	0.26	CMS
Runoff	13.14	13.33	118.10	125.91	188.21	98.77	31.61	12.13	5.95	20.72	16.91	17.12	661.88	MCM
Momentary Peak	782.40 CMS. at 269.58 m. (MSL.) at 05.00 Hours , on Jun 26 , 2011													
Runoff Yield	136.80	Liters/Second/Square KM.			Momentary Peak Yield		5113.726	Liters/Second/Square KM.						

WATER YEAR : 2011

NAN RIVER BASIN

Khlong Wang Pong at Ban Wang Pong , Phetchabun (N.54)

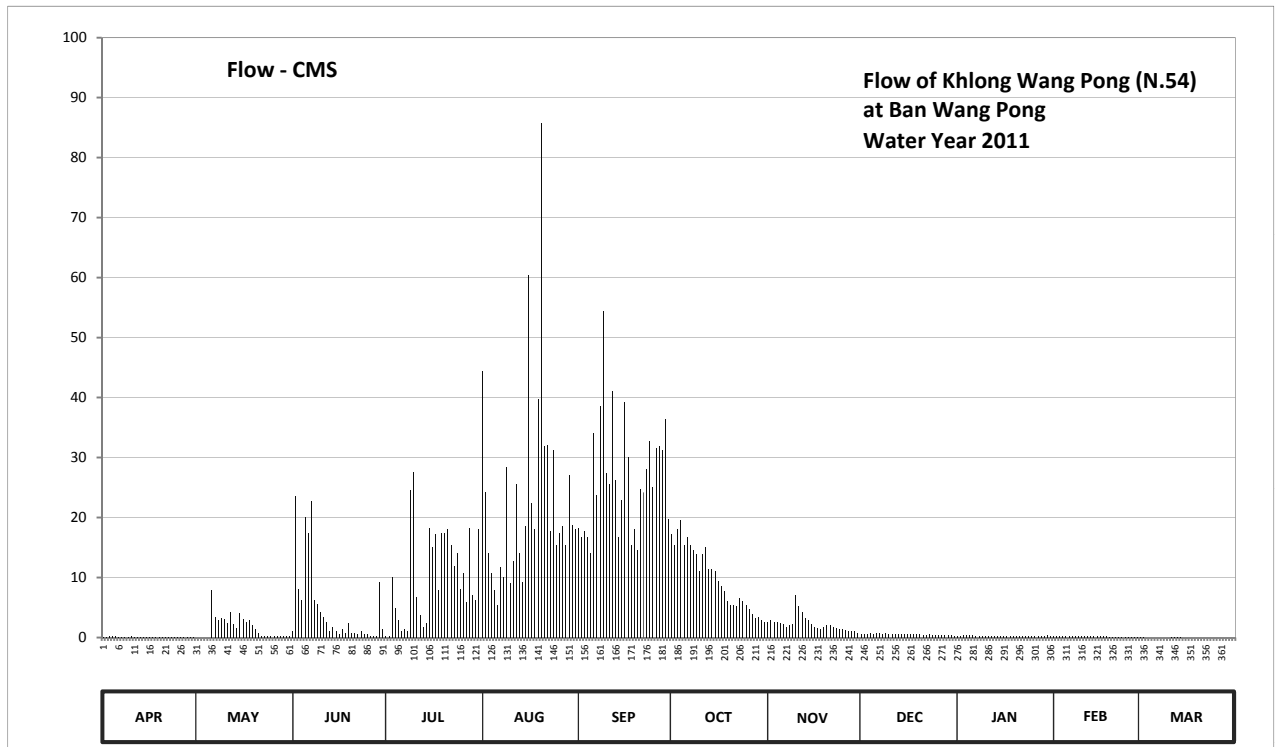
Lat 16 - 19 - 34 N Long 100 - 48 - 17 E

Location : on left bank at the bridge on road.

	Ban	Wang Pong	Amphoe	Chon Dan	Changwat	Phetchabun
Drainage Area	174	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+104.350	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+107.656 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Fairly Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records Fair. Stage-discharge relation defined by 29 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	104.14	103.92	104.49	104.28	106.24	105.26	105.22	104.59	104.41	104.32	104.25	104.06	
2	104.14	103.90	105.46	104.26	105.49	105.20	105.15	104.61	104.40	104.31	104.25	104.05	
3	104.15	103.94	104.85	104.93	105.10	105.24	105.25	104.59	104.42	104.33	104.23	104.04	
4	104.15	103.98	104.77	104.71	104.96	105.20	105.31	104.59	104.43	104.37	104.23	104.04	
5	104.15	104.04	105.33	104.61	104.84	105.10	105.15	104.58	104.42	104.36	104.21	104.03	
6	104.14	104.84	105.23	104.48	104.73	105.86	105.20	104.57	104.44	104.34	104.25	104.02	
7	104.14	104.64	105.43	104.52	105.00	105.47	105.15	104.54	104.43	104.32	104.23	104.01	
8	104.14	104.61	104.77	104.47	104.93	106.03	105.12	104.56	104.42	104.31	104.23	104.00	
9	104.13	104.63	104.74	105.50	105.65	106.59	105.09	104.57	104.43	104.30	104.21	103.99	
10	104.15	104.62	104.68	105.62	104.89	105.61	104.97	104.80	104.41	104.29	104.21	103.98	
11	104.13	104.58	104.64	104.79	105.04	105.54	105.09	104.72	104.40	104.32	104.19	104.10	
12	104.13	104.68	104.59	104.65	105.54	106.12	105.14	104.68	104.39	104.30	104.18	104.07	
13	104.13	104.57	104.47	104.54	105.10	105.57	104.99	104.63	104.38	104.29	104.18	104.06	
14	104.12	104.53	104.54	104.58	104.90	105.20	104.99	104.61	104.40	104.31	104.19	104.05	
15	104.12	104.67	104.47	105.26	105.27	105.44	104.97	104.57	104.39	104.30	104.18	104.04	
16	104.12	104.62	104.41	105.14	106.79	106.05	104.91	104.54	104.38	104.29	104.17	104.03	
17	104.12	104.59	104.51	105.22	105.42	105.71	104.87	104.53	104.39	104.27	104.16	104.02	
18	104.11	104.61	104.44	104.84	105.25	105.15	104.83	104.52	104.40	104.26	104.15	104.01	
19	104.11	104.55	104.58	105.23	106.07	105.25	104.76	104.54	104.39	104.26	104.14	104.00	
20	104.11	104.52	104.45	105.23	107.55	105.12	104.73	104.56	104.38	104.24	104.13	104.03	
21	104.10	104.45	104.43	105.25	105.78	105.51	104.73	104.55	104.37	104.27	104.12	104.02	
22	104.10	104.24	104.39	105.15	105.79	105.49	104.72	104.54	104.37	104.26	104.11	104.01	
23	104.10	104.21	104.48	105.01	105.24	105.64	104.78	104.53	104.38	104.25	104.09	104.00	
24	104.10	104.18	104.40	105.10	105.76	105.81	104.76	104.52	104.37	104.26	104.08	103.99	
25	104.10	104.16	104.40	104.85	105.15	105.52	104.73	104.51	104.37	104.27	104.10	103.98	
26	104.10	104.26	104.32	104.96	105.23	105.77	104.70	104.50	104.36	104.28	104.09	103.97	
27	104.10	104.26	104.30	104.75	105.27	105.78	104.66	104.49	104.34	104.32	104.09	103.97	
28	104.11	104.24	104.31	105.26	105.15	105.76	104.63	104.48	104.34	104.32	104.09	103.96	
29	104.11	104.21	104.90	104.80	105.60	105.95	104.64	104.47	104.34	104.32	104.09	103.96	
30	104.11	104.31	104.52	104.77	105.28	105.32	104.61	104.44	104.33	104.33	104.32	103.96	
31		104.32		105.25	105.25		104.59		104.32	104.31		103.96	
Mean	104.12	104.38	104.64	104.90	105.43	105.58	104.92	104.56	104.39	104.30	104.17	104.01	
Max	104.15	104.84	105.46	105.62	107.55	106.59	105.31	104.80	104.44	104.37	104.25	104.10	107.55
Min	104.10	103.90	104.30	104.26	104.73	105.10	104.59	104.44	104.32	104.24	104.08	103.96	103.90
Annual Max Momentary Gage Height	107.95		m. (MSL.) , at 09.00 Hours , on Aug 20 , 2011										
Zero Gage at Bottom Elevation	104.35		m. (MSL.) , River Bed 104.01 m. (MSL)										
Left Bank Elevation	109.55		m. (MSL.) ,										
Right Bank Elevation	110.51		m. (MSL.) , Drainage Area 174 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.00	1.10	0.30	44.40	18.30	17.20	2.50	0.60	0.30	0.20	0.10		
2	0.10	0.00	23.50	0.30	24.20	16.70	15.40	2.90	0.50	0.30	0.20	0.10		
3	0.20	0.00	8.10	10.00	14.10	17.70	18.00	2.50	0.60	0.40	0.20	0.00		
4	0.20	0.00	6.30	4.90	10.70	16.70	19.60	2.50	0.70	0.40	0.20	0.00		
5	0.20	0.00	20.10	2.90	7.90	14.10	15.40	2.40	0.60	0.40	0.20	0.00		
6	0.10	7.90	17.50	1.10	5.40	34.00	16.70	2.30	0.80	0.40	0.20	0.00		
7	0.10	3.50	22.70	1.50	11.70	23.70	15.40	1.80	0.70	0.30	0.20	0.00		
8	0.10	2.90	6.30	1.00	10.00	38.60	14.60	2.10	0.60	0.30	0.20	0.00		
9	0.10	3.30	5.60	24.50	28.40	54.30	13.90	2.30	0.70	0.30	0.20	0.00		
10	0.20	3.10	4.30	27.60	9.10	27.40	11.00	7.00	0.60	0.30	0.20	0.00		
11	0.10	2.40	3.50	6.80	12.70	25.50	13.90	5.20	0.50	0.30	0.20	0.10		
12	0.10	4.30	2.50	3.70	25.50	41.10	15.10	4.30	0.50	0.30	0.20	0.10		
13	0.10	2.30	1.00	1.80	14.10	26.30	11.50	3.30	0.50	0.30	0.20	0.10		
14	0.10	1.60	1.80	2.40	9.30	16.70	11.50	2.90	0.50	0.30	0.20	0.10		
15	0.10	4.10	1.00	18.30	18.50	22.90	11.00	2.30	0.50	0.30	0.20	0.00		
16	0.10	3.10	0.60	15.10	60.40	39.20	9.50	1.80	0.50	0.30	0.20	0.00		
17	0.10	2.50	1.40	17.20	22.40	30.00	8.60	1.60	0.50	0.30	0.20	0.00		
18	0.10	2.90	0.80	7.90	18.00	15.40	7.70	1.50	0.50	0.30	0.20	0.00		
19	0.10	2.00	2.40	17.50	39.70	18.00	6.10	1.80	0.50	0.30	0.10	0.00		
20	0.10	1.50	0.80	17.50	85.80	14.60	5.40	2.10	0.50	0.20	0.10	0.00		
21	0.10	0.80	0.70	18.00	31.90	24.80	5.40	2.00	0.40	0.30	0.10	0.00		
22	0.10	0.20	0.50	15.40	32.10	24.20	5.20	1.80	0.40	0.30	0.10	0.00		
23	0.10	0.20	1.10	11.90	17.70	28.10	6.50	1.60	0.50	0.20	0.10	0.00		
24	0.10	0.20	0.50	14.10	31.30	32.70	6.10	1.50	0.40	0.30	0.10	0.00		
25	0.10	0.20	0.50	8.10	15.40	25.00	5.40	1.40	0.40	0.30	0.10	0.00		
26	0.10	0.30	0.30	10.70	17.50	31.60	4.70	1.20	0.40	0.30	0.10	0.00		
27	0.10	0.30	0.30	5.90	18.50	31.90	3.90	1.10	0.40	0.30	0.10	0.00		
28	0.10	0.20	0.30	18.30	15.40	31.30	3.30	1.10	0.40	0.30	0.10	0.00		
29	0.10	0.20	9.30	7.00	27.10	36.40	3.50	1.00	0.40	0.30	0.10	0.00		
30	0.10	0.30	1.50	6.30	18.80	19.80	2.90	0.80	0.40	0.40		0.00		
31		0.30		18.00	18.00		2.50		0.30	0.30		0.00		
Total	3.40	50.60	146.30	316.00	716.00	797.00	306.90	68.60	15.80	9.60	4.70	0.60	2435.50	CMSDAY
Mean	0.10	1.60	4.90	10.20	23.10	26.60	9.90	2.30	0.50	0.30	0.20	0.00	6.70	CMS
Max	0.20	7.90	23.50	27.60	85.80	54.30	19.60	7.00	0.80	0.40	0.20	0.10	85.80	CMS
Min	0.10	0.00	0.30	0.30	5.40	14.10	2.50	0.80	0.30	0.20	0.10	0.00	0.00	CMS
Runoff	0.29	4.37	12.64	27.30	61.86	68.86	26.52	5.93	1.37	0.83	0.41	0.05	210.43	MCM
Momentary Peak	99.90	CMS. at 107.95 m. (MSL.) at 09.00 Hours , on Aug 20 , 2011												
Runoff Yield	38.24	Liters/Second/Square KM.			Momentary Peak Yield		574.138	Liters/Second/Square KM.						

WATER YEAR : 2011

NAN RIVER BASIN

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

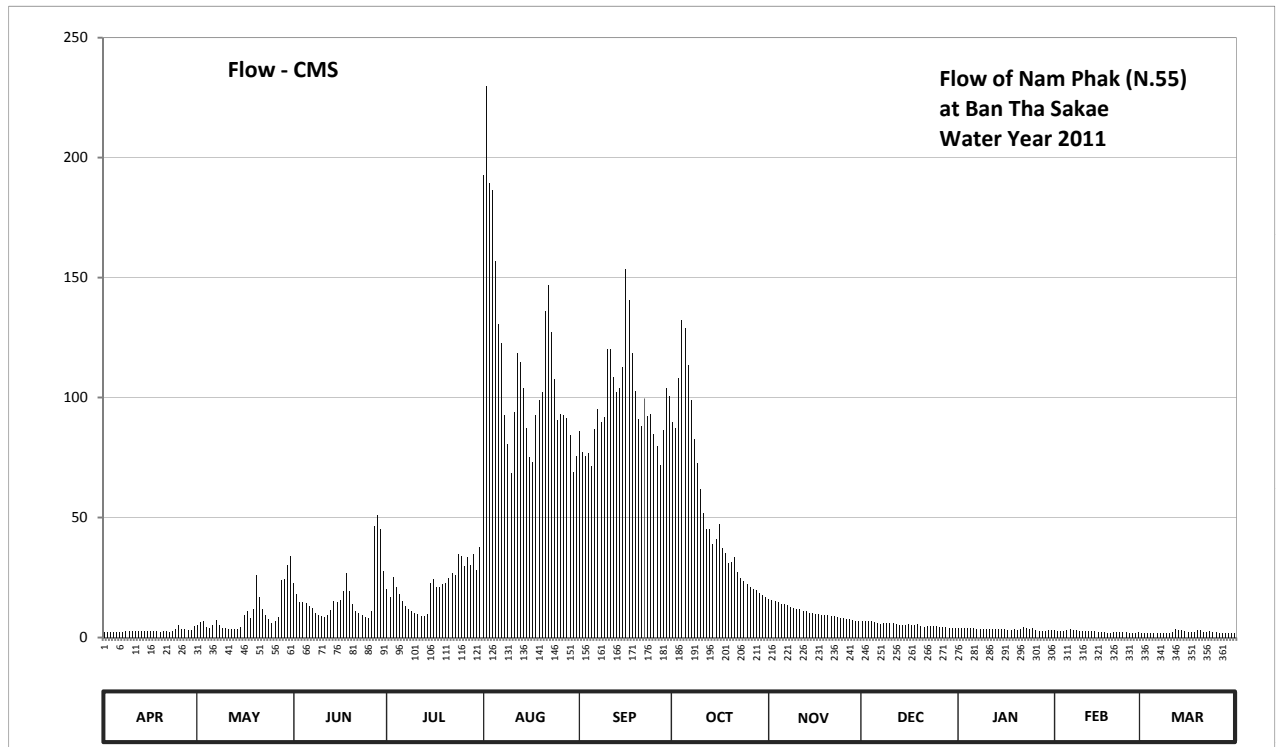
Lat 17 - 15 - 06 N Long 100 - 37 - 53 E

Location : on left bank at the bridge of Nakhon Thai - Chat Trakan Road , Tambon Pa Daeng.

	Ban	Tha Sakae	Amphoe	Chat Trakan	Changwat	Phitsanulok
Drainage Area	971	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+182.830	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 13 meters from the top staff gage.				Elevation	+191.446 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1994 to date					
Rated by Flot	-					
Rated by Current Meter	1994 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.41	183.71	185.29	185.12	190.51	188.51	188.62	184.79	183.92	183.61	183.48	183.36	
2	183.40	183.87	184.93	184.86	190.87	188.24	188.55	184.74	183.90	183.61	183.47	183.36	
3	183.40	183.92	184.68	185.48	190.47	188.18	189.10	184.70	183.89	183.60	183.46	183.35	
4	183.40	183.64	184.67	185.17	190.44	188.22	189.60	184.66	183.89	183.60	183.46	183.34	
5	183.39	183.59	184.62	184.94	190.05	188.04	189.54	184.61	183.88	183.59	183.49	183.35	
6	183.38	183.76	184.53	184.71	189.57	188.53	189.23	184.59	183.84	183.58	183.54	183.35	
7	183.42	183.96	184.43	184.52	189.43	188.77	188.87	184.54	183.77	183.57	183.51	183.35	
8	183.45	183.74	184.24	184.39	188.70	188.62	188.41	184.48	183.82	183.55	183.50	183.36	
9	183.43	183.61	184.15	184.31	188.34	188.68	188.08	184.45	183.84	183.55	183.46	183.36	
10	183.45	183.59	184.12	184.24	187.93	189.38	187.66	184.42	183.83	183.55	183.43	183.35	
11	183.45	183.57	184.06	184.19	188.74	189.38	187.19	184.40	183.81	183.55	183.43	183.42	
12	183.44	183.53	184.17	184.12	189.34	189.11	186.82	184.34	183.77	183.55	183.43	183.52	
13	183.45	183.53	184.37	184.11	189.26	188.95	186.81	184.34	183.74	183.53	183.45	183.51	
14	183.45	183.54	184.72	184.21	189.00	189.00	186.41	184.23	183.75	183.54	183.43	183.49	
15	183.44	183.64	184.68	185.29	188.54	189.21	186.56	184.22	183.76	183.55	183.41	183.45	
16	183.43	184.14	184.75	185.41	188.17	190.00	186.95	184.19	183.77	183.54	183.40	183.42	
17	183.43	184.33	185.03	185.17	188.09	189.78	186.31	184.20	183.74	183.51	183.38	183.42	
18	183.43	184.03	185.58	185.18	188.70	189.34	186.17	184.17	183.73	183.51	183.36	183.41	
19	183.39	184.41	185.05	185.27	188.87	188.97	185.88	184.16	183.77	183.52	183.33	183.51	
20	183.46	185.53	184.59	185.29	188.96	188.66	185.92	184.14	183.69	183.51	183.39	183.49	
21	183.44	184.85	184.34	185.43	189.68	188.57	186.06	184.12	183.66	183.56	183.40	183.39	
22	183.41	184.42	184.26	185.58	189.89	188.89	185.63	184.11	183.68	183.62	183.39	183.41	
23	183.43	184.15	184.15	185.52	189.51	188.69	185.45	184.09	183.69	183.60	183.38	183.43	
24	183.53	183.97	184.06	186.14	189.09	188.71	185.35	184.04	183.68	183.57	183.38	183.42	
25	183.71	183.84	184.01	186.10	188.64	188.47	185.25	184.03	183.67	183.60	183.37	183.41	
26	183.56	183.92	184.34	185.80	188.72	188.32	185.16	183.99	183.65	183.49	183.37	183.34	
27	183.52	184.09	186.88	186.05	188.70	188.05	185.12	183.97	183.63	183.47	183.37	183.34	
28	183.48	185.37	187.14	185.84	188.67	188.52	185.07	183.95	183.62	183.46	183.39	183.35	
29	183.49	185.42	186.82	186.13	188.46	189.00	184.99	183.92	183.60	183.46	183.36	183.35	
30	183.67	185.84	185.64	185.67	187.95	188.91	184.90	183.89	183.59	183.48		183.34	
31		186.09		186.35	188.18		184.85		183.59	183.48		183.34	
Mean	183.46	184.18	184.81	185.18	189.08	188.79	186.79	184.28	183.75	183.55	183.42	183.40	
Max	183.71	186.09	187.14	186.35	190.87	190.00	189.60	184.79	183.92	183.62	183.54	183.52	190.87
Min	183.38	183.53	184.01	184.11	187.93	188.04	184.85	183.89	183.59	183.46	183.33	183.34	183.33
Annual Max Momentary Gage Height	190.95		m. (MSL.) ,		at 06.00 Hours , on Aug 2 , 2011								
Zero Gage at Bottom Elevation	182.83		m. (MSL.) ,		River Bed	182.92		m. (MSL)					
Left Bank Elevation	191.24		m. (MSL.) ,										
Right Bank Elevation	191.17		m. (MSL.) ,		Drainage Area	971		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.30	5.00	22.70	20.40	192.90	86.00	89.70	16.10	7.00	4.10	2.90	2.00		
2	2.20	6.50	17.90	17.00	230.00	77.30	87.40	15.50	6.80	4.10	2.80	2.00		
3	2.20	7.00	14.90	25.30	189.30	75.40	108.00	15.10	6.70	4.00	2.70	1.90		
4	2.20	4.40	14.80	21.00	186.60	76.60	132.40	14.70	6.70	4.00	2.70	1.80		
5	2.10	3.90	14.20	18.00	156.80	71.50	129.00	14.10	6.60	3.90	3.00	1.90		
6	2.10	5.40	13.20	15.20	130.70	86.70	113.30	13.90	6.20	3.80	3.50	1.90		
7	2.40	7.40	12.10	13.10	122.70	95.00	98.80	13.30	5.50	3.70	3.20	1.90		
8	2.70	5.30	10.20	11.70	92.50	89.70	82.70	12.70	6.00	3.60	3.10	2.00		
9	2.50	4.10	9.30	10.90	80.50	91.80	72.60	12.40	6.20	3.60	2.70	2.00		
10	2.70	3.90	9.00	10.20	68.60	120.10	61.80	12.00	6.10	3.60	2.50	1.90		
11	2.70	3.70	8.40	9.70	93.90	120.10	51.80	11.80	5.90	3.60	2.50	2.40		
12	2.60	3.40	9.50	9.00	118.30	108.40	45.30	11.20	5.50	3.60	2.50	3.30		
13	2.70	3.40	11.50	8.90	114.70	102.00	45.20	11.20	5.30	3.40	2.70	3.20		
14	2.70	3.50	15.30	9.90	104.00	104.00	38.80	10.10	5.30	3.50	2.50	3.00		
15	2.60	4.40	14.90	22.70	87.00	112.50	41.20	10.00	5.40	3.60	2.30	2.70		
16	2.50	9.20	15.60	24.30	75.20	153.40	47.50	9.70	5.50	3.50	2.20	2.40		
17	2.50	11.10	19.20	21.00	72.90	140.50	37.30	9.80	5.30	3.20	2.10	2.40		
18	2.50	8.10	26.70	21.10	92.50	118.30	35.20	9.50	5.20	3.20	2.00	2.30		
19	2.10	11.90	19.50	22.40	98.80	102.80	30.90	9.40	5.50	3.30	1.80	3.20		
20	2.70	26.00	13.90	22.70	102.40	91.10	31.50	9.20	4.80	3.20	2.10	3.00		
21	2.60	16.90	11.20	24.60	136.00	88.00	33.50	9.00	4.50	3.80	2.20	2.10		
22	2.30	12.00	10.40	26.70	146.80	99.60	27.40	8.90	4.70	4.20	2.10	2.30		
23	2.50	9.30	9.30	25.90	127.30	92.10	24.90	8.70	4.80	4.00	2.10	2.50		
24	3.40	7.50	8.40	34.70	107.60	92.90	23.50	8.20	4.70	3.70	2.10	2.40		
25	5.00	6.20	7.90	34.10	90.40	84.70	22.10	8.10	4.60	4.00	2.00	2.30		
26	3.60	7.00	11.20	29.80	93.20	79.80	20.90	7.70	4.40	3.00	2.00	1.80		
27	3.30	8.70	46.40	33.40	92.50	71.80	20.40	7.50	4.30	2.80	2.00	1.80		
28	2.90	23.80	50.90	30.40	91.40	86.40	19.70	7.30	4.20	2.70	2.10	1.90		
29	3.00	24.50	45.30	34.60	84.40	104.00	18.70	7.00	4.00	2.70	2.00	1.90		
30	4.60	30.40	27.60	28.00	69.10	100.40	17.50	6.70	3.90	2.90		1.80		
31		33.90		37.90	75.40		16.90		3.90	2.90		1.80		
Total	82.20	317.80	521.40	674.60	3524.40	2922.90	1625.90	320.80	165.50	109.00	70.40	69.80	10404.70	CMSDAY
Mean	2.70	10.30	17.40	21.80	113.70	97.40	52.40	10.70	5.30	3.50	2.40	2.30	28.40	CMS
Max	5.00	33.90	50.90	37.90	230.00	153.40	132.40	16.10	7.00	4.20	3.50	3.30	230.00	CMS
Min	2.10	3.40	7.90	8.90	68.60	71.50	16.90	6.70	3.90	2.70	1.80	1.80	1.80	CMS
Runoff	7.10	27.46	45.05	58.29	304.51	252.54	140.48	27.72	14.30	9.42	6.08	6.03	898.97	MCM
Momentary Peak	239.25 CMS. at 190.95 m. (MSL.) at 06.00 Hours , on Aug 2 , 2011													
Runoff Yield	29.28	Liters/Square KM.			Momentary Peak Yield		246.395	Liters/Second/Square KM.						

WATER YEAR : 2011**NAN RIVER BASIN****Nam Fua at Ban Nam Fua , Phitsanulok (N.58)**

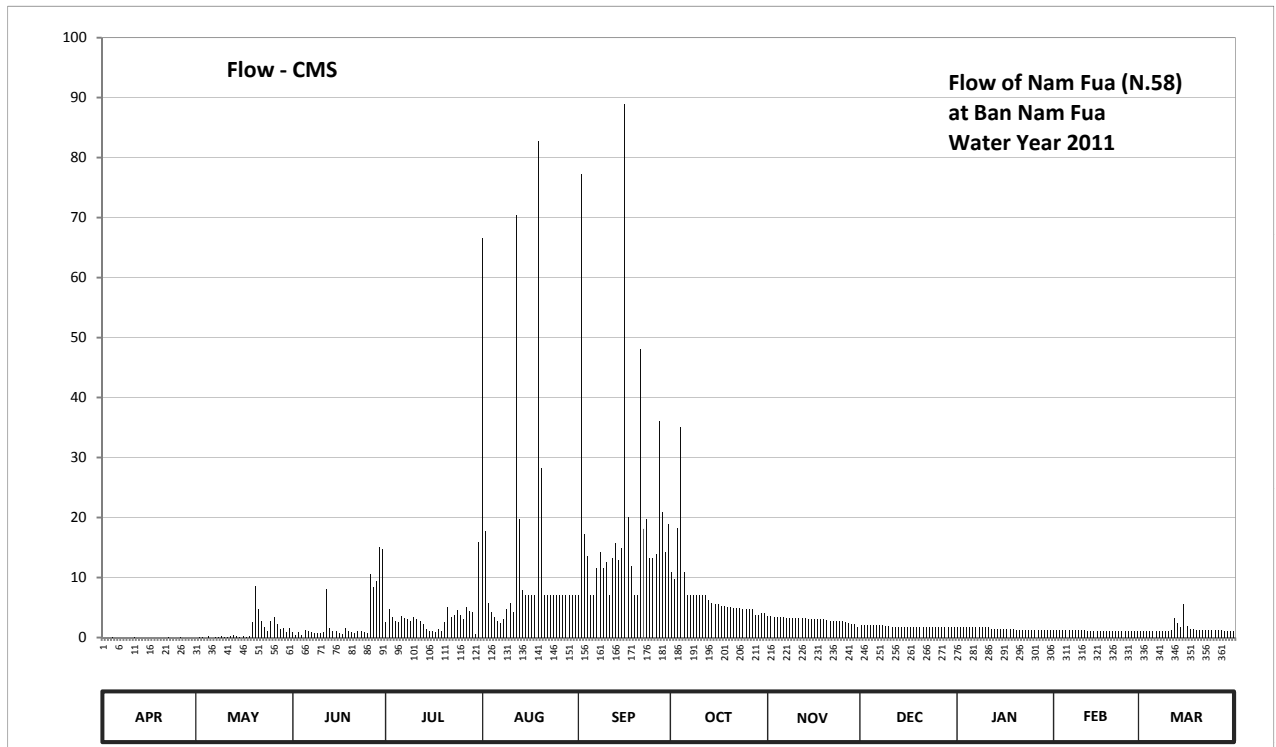
Lat 17 - 08 - 45 N Long 100 - 56 - 04 E

Location : on left bank at the bridge of Nakhon Thai - Dan Sai Road from the guidpost 11.5

	Ban	Nam Fua	Amphoe	Nakhon Thai	Changwat	Phitsanulok
Drainage Area	317	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+208.360	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 16 meters from the top staff gage.				Elevation	+214.931 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Fairly Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	209.40	209.42	209.69	209.93	212.82	210.36	210.64	210.05	209.86	209.83	209.75	209.74	
2	209.40	209.46	209.58	210.16	211.02	213.10	210.56	210.05	209.86	209.83	209.75	209.74	
3	209.40	209.44	209.70	210.04	210.25	211.00	211.05	210.04	209.86	209.83	209.75	209.74	
4	209.43	209.42	209.56	209.96	210.13	210.80	211.80	210.04	209.86	209.83	209.75	209.74	
5	209.41	209.51	209.76	209.93	210.03	210.36	210.64	210.03	209.86	209.83	209.75	209.74	
6	209.41	209.42	209.72	210.05	209.95	210.36	210.36	210.03	209.86	209.83	209.75	209.74	
7	209.41	209.47	209.70	210.00	209.91	210.68	210.36	210.02	209.86	209.83	209.75	209.74	
8	209.41	209.43	209.68	209.98	209.98	210.84	210.36	210.02	209.86	209.83	209.75	209.74	
9	209.41	209.52	209.66	209.96	210.16	210.68	210.36	210.02	209.85	209.83	209.75	209.73	
10	209.41	209.46	209.64	210.03	210.26	210.74	210.36	210.01	209.85	209.83	209.75	209.74	
11	209.43	209.46	209.69	209.99	210.13	210.36	210.36	210.00	209.84	209.82	209.75	209.77	
12	209.40	209.52	210.43	209.96	212.92	210.78	210.35	210.00	209.84	209.80	209.74	210.00	
13	209.36	209.55	209.81	209.88	211.12	210.92	210.29	210.00	209.84	209.80	209.74	209.91	
14	209.33	209.52	209.71	209.80	210.42	210.76	210.26	209.99	209.84	209.80	209.74	209.83	
15	209.30	209.45	209.71	209.74	210.36	210.88	210.24	209.99	209.84	209.80	209.74	210.24	
16	209.30	209.49	209.65	209.72	210.36	213.40	210.24	209.99	209.84	209.79	209.74	209.85	
17	209.38	209.46	209.59	209.70	210.36	211.14	210.22	209.98	209.84	209.78	209.74	209.78	
18	209.22	209.49	209.81	209.79	210.36	210.70	210.22	209.98	209.84	209.78	209.74	209.78	
19	209.16	209.92	209.71	209.73	213.24	210.36	210.20	209.98	209.84	209.78	209.74	209.77	
20	209.16	210.48	209.70	209.93	211.52	210.36	210.20	209.97	209.83	209.76	209.74	209.77	
21	209.41	210.16	209.68	210.19	210.36	212.26	210.18	209.96	209.83	209.76	209.74	209.76	
22	209.45	209.96	209.72	210.04	210.36	211.04	210.18	209.96	209.83	209.76	209.74	209.76	
23	209.40	209.84	209.71	210.08	210.36	211.12	210.18	209.96	209.83	209.76	209.74	209.76	
24	209.36	209.73	209.70	210.15	210.36	210.78	210.16	209.94	209.83	209.76	209.74	209.75	
25	209.33	209.94	209.67	210.07	210.36	210.78	210.16	209.94	209.83	209.75	209.74	209.75	
26	209.43	210.04	210.62	209.98	210.36	210.82	210.16	209.92	209.83	209.75	209.74	209.75	
27	209.36	209.88	210.46	210.19	210.36	211.84	210.16	209.91	209.83	209.75	209.74	209.75	
28	209.37	209.79	210.54	210.14	210.36	211.18	210.07	209.90	209.83	209.75	209.74	209.74	
29	209.37	209.81	210.89	210.13	210.36	210.84	210.07	209.88	209.83	209.75	209.74	209.72	
30	209.37	209.69	210.87	209.62	210.36	211.08	210.11	209.84	209.83	209.75		209.71	
31		209.81		210.93	210.36		210.11		209.83	209.75		209.71	
Mean	209.37	209.66	209.88	209.99	210.62	211.01	210.34	209.98	209.84	209.79	209.74	209.78	
Max	209.45	210.48	210.89	210.93	213.24	213.40	211.80	210.05	209.86	209.83	209.75	210.24	213.40
Min	209.16	209.42	209.56	209.62	209.91	210.36	210.07	209.84	209.83	209.75	209.74	209.71	209.16
Annual Max Momentary Gage Height	214.56		m. (MSL.) ,			at 06.00 Hours , on Sep 16 , 2011							
Zero Gage at Bottom Elevation	208.36		m. (MSL.) ,			River Bed	209.06	m. (MSL)					
Left Bank Elevation	214.94		m. (MSL.) ,										
Right Bank Elevation	214.92		m. (MSL.) ,			Drainage Area	317	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.90	2.60	66.60	7.10	10.90	3.60	2.00	1.70	1.20	1.10	
2	0.00	0.10	0.40	4.70	17.70	77.20	9.70	3.60	2.00	1.70	1.20	1.10	
3	0.00	0.10	0.90	3.50	5.70	17.30	18.30	3.50	2.00	1.70	1.20	1.10	
4	0.10	0.00	0.40	2.80	4.30	13.60	35.00	3.50	2.00	1.70	1.20	1.10	
5	0.00	0.20	1.30	2.60	3.40	7.10	10.90	3.40	2.00	1.70	1.20	1.10	
6	0.00	0.00	1.00	3.60	2.70	7.10	7.10	3.40	2.00	1.70	1.20	1.10	
7	0.00	0.10	0.90	3.20	2.40	11.60	7.10	3.30	2.00	1.70	1.20	1.10	
8	0.00	0.10	0.80	3.00	3.00	14.30	7.10	3.30	2.00	1.70	1.20	1.10	
9	0.00	0.30	0.70	2.80	4.70	11.60	7.10	3.30	1.90	1.70	1.20	1.10	
10	0.00	0.10	0.70	3.40	5.80	12.60	7.10	3.20	1.90	1.70	1.20	1.10	
11	0.10	0.10	0.90	3.10	4.30	7.10	7.10	3.20	1.80	1.70	1.20	1.30	
12	0.00	0.30	8.00	2.80	70.40	13.30	7.00	3.20	1.80	1.50	1.10	3.20	
13	0.00	0.40	1.60	2.20	19.70	15.70	6.20	3.20	1.80	1.50	1.10	2.40	
14	0.00	0.30	1.00	1.50	7.90	12.90	5.80	3.10	1.80	1.50	1.10	1.70	
15	0.00	0.10	1.00	1.10	7.10	15.00	5.60	3.10	1.80	1.50	1.10	5.60	
16	0.00	0.20	0.70	1.00	7.10	89.00	5.60	3.10	1.80	1.40	1.10	1.90	
17	0.00	0.10	0.50	0.90	7.10	20.10	5.30	3.00	1.80	1.40	1.10	1.40	
18	0.00	0.20	1.60	1.40	7.10	11.90	5.30	3.00	1.80	1.40	1.10	1.40	
19	0.00	2.50	1.00	1.10	82.70	7.10	5.10	3.00	1.80	1.40	1.10	1.30	
20	0.00	8.60	0.90	2.60	28.20	7.10	5.10	2.90	1.70	1.30	1.10	1.30	
21	0.00	4.70	0.80	5.00	7.10	48.00	4.90	2.80	1.70	1.30	1.10	1.30	
22	0.10	2.80	1.00	3.50	7.10	18.10	4.90	2.80	1.70	1.30	1.10	1.30	
23	0.00	1.80	1.00	3.80	7.10	19.70	4.90	2.80	1.70	1.30	1.10	1.30	
24	0.00	1.10	0.90	4.50	7.10	13.30	4.70	2.70	1.70	1.30	1.10	1.20	
25	0.00	2.70	0.80	3.80	7.10	13.30	4.70	2.70	1.70	1.20	1.10	1.20	
26	0.10	3.50	10.60	3.00	7.10	13.90	4.70	2.50	1.70	1.20	1.10	1.20	
27	0.00	2.20	8.40	5.00	7.10	36.00	4.70	2.40	1.70	1.20	1.10	1.20	
28	0.00	1.40	9.50	4.40	7.10	20.90	3.80	2.30	1.70	1.20	1.10	1.10	
29	0.00	1.60	15.10	4.30	7.10	14.30	3.80	2.20	1.70	1.20	1.10	1.00	
30	0.00	0.90	14.80	0.60	7.10	18.90	4.10	1.80	1.70	1.20		1.00	
31		1.60		15.90	7.10		4.10		1.70	1.20		1.00	
Total	0.40	38.10	88.10	103.70	436.00	595.10	227.70	89.90	56.40	45.20	33.00	45.30	

WATER YEAR : 2011

NAN RIVER BASIN

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

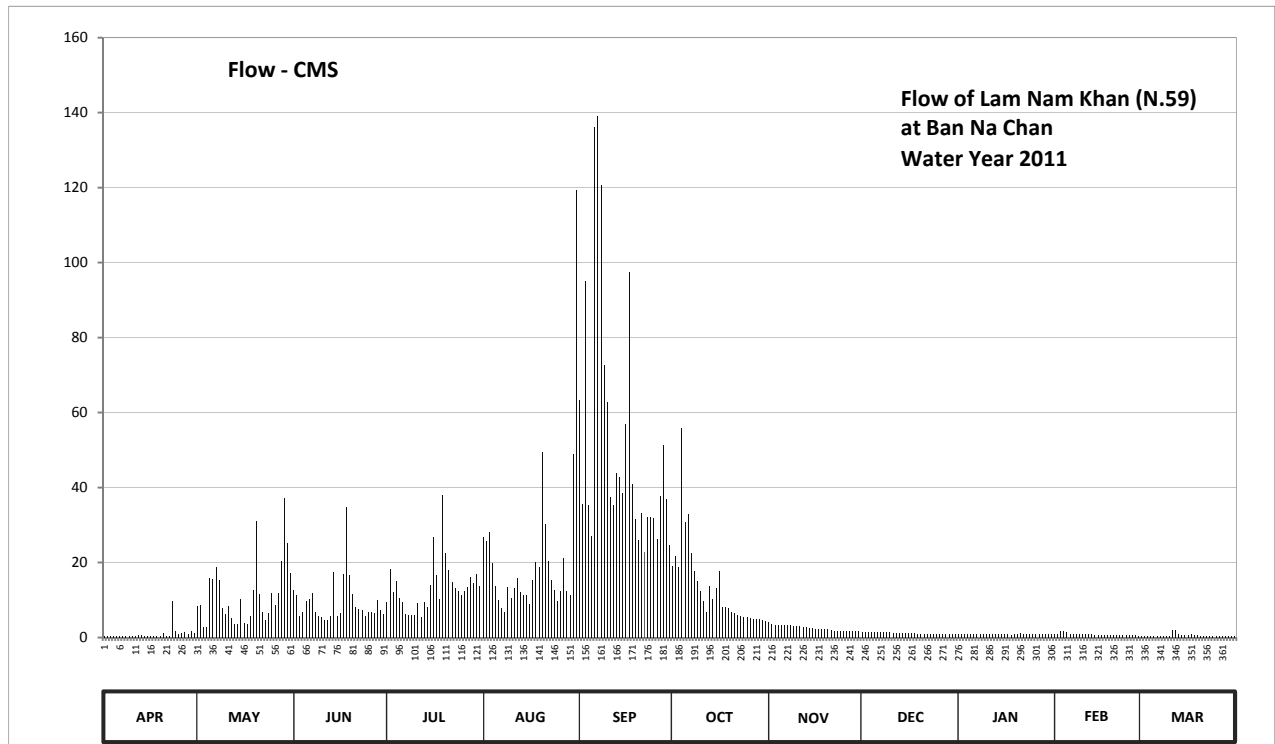
Lat 17 - 01 - 49 N Long 100 - 50 - 35 E

Location : on left bank at Ban Na Chan.

	Ban	Na Chan	Amphoe	Nakhon Thai	Changwat	Phitsanulok
Drainage Area	415	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+197.680	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 25 meters from the top staff gage.				Elevation	+206.935 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow startsat elevation +205.930 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	200.46	202.34	202.92	202.49	204.45	205.80	203.73	201.54	200.90	200.69	200.61	200.42	
2	200.43	202.38	202.71	203.63	204.37	204.97	204.02	201.46	200.89	200.69	200.61	200.42	
3	200.45	201.22	201.88	202.86	204.54	206.20	203.70	201.40	200.89	200.69	200.94	200.44	
4	200.44	201.27	202.11	203.25	203.82	204.95	205.67	201.39	200.88	200.67	201.00	200.41	
5	200.43	203.34	202.53	202.61	203.07	204.48	204.71	201.38	200.87	200.67	200.86	200.39	
6	200.43	203.31	202.59	202.48	202.56	206.53	204.83	201.38	200.87	200.66	200.72	200.41	
7	200.32	203.69	202.83	202.01	202.28	206.55	204.08	201.37	200.87	200.65	200.66	200.39	
8	200.34	203.27	202.12	201.93	202.12	206.42	203.58	201.35	200.88	200.64	200.64	200.38	
9	200.44	202.28	201.88	201.91	203.04	205.92	203.22	201.33	200.86	200.63	200.61	200.37	
10	200.42	201.98	201.80	201.92	202.61	205.79	202.88	201.32	200.85	200.62	200.60	200.43	
11	200.41	202.35	201.66	202.46	203.00	205.06	202.51	201.31	200.84	200.58	200.58	201.05	
12	200.56	201.78	201.64	201.83	203.32	204.95	202.12	201.27	200.83	200.61	200.58	201.06	
13	200.50	201.42	201.87	202.47	202.86	205.34	203.05	201.23	200.82	200.62	200.58	200.64	
14	200.47	201.42	203.52	202.33	202.74	205.30	202.59	201.20	200.80	200.62	200.57	200.53	
15	200.42	202.57	201.88	203.10	202.75	205.11	203.01	201.18	200.79	200.63	200.57	200.51	
16	200.37	201.48	202.05	204.46	202.42	205.69	203.56	201.16	200.77	200.63	200.57	200.55	
17	200.41	201.41	203.48	203.42	203.27	206.22	202.30	201.15	200.76	200.59	200.56	200.65	
18	200.35	201.88	204.92	202.59	203.84	205.23	202.31	201.14	200.73	200.56	200.55	200.54	
19	200.33	202.92	203.44	205.09	203.70	204.75	202.27	201.13	200.71	200.59	200.55	200.48	
20	200.73	204.73	202.78	204.09	205.53	204.40	202.08	201.12	200.68	200.66	200.54	200.46	
21	200.46	202.79	202.32	203.60	204.67	204.84	202.02	201.05	200.65	200.77	200.53	200.44	
22	200.42	202.10	202.24	203.21	203.87	204.12	201.92	201.01	200.64	200.72	200.51	200.43	
23	202.53	201.63	202.23	203.01	203.26	204.78	201.88	201.00	200.63	200.67	200.49	200.41	
24	200.99	202.04	201.89	202.90	202.91	204.79	201.83	200.99	200.63	200.61	200.49	200.41	
25	200.72	202.82	202.08	202.74	202.51	204.77	201.81	200.98	200.62	200.62	200.50	200.38	
26	200.80	202.38	202.08	202.90	202.90	204.41	201.75	200.97	200.62	200.61	200.51	200.42	
27	200.87	202.81	202.04	203.02	203.95	205.08	201.71	200.96	200.61	200.61	200.50	200.38	
28	200.62	203.87	202.54	203.36	202.89	205.59	201.69	200.95	200.60	200.60	200.45	200.37	
29	200.97	205.05	202.22	203.17	202.72	205.04	201.70	200.94	200.60	200.59	200.43	200.40	
30	200.76	204.33	202.00	203.45	205.52	204.28	201.63	200.94	200.59	200.61		200.39	
31		203.50		203.06	206.41		201.58		200.58	200.61		200.38	
Mean	200.60	202.59	202.41	202.95	203.48	205.25	202.77	201.19	200.75	200.64	200.60	200.48	
Max	202.53	205.05	204.92	205.09	206.41	206.55	205.67	201.54	200.90	200.77	201.00	201.06	206.55
Min	200.32	201.22	201.64	201.83	202.12	204.12	201.58	200.94	200.58	200.56	200.43	200.37	200.32
Annual Max Momentary Gage Height	206.75		m. (MSL.) ,		at 06.00 Hours , on Aug 31 , 2011								
Zero Gage at Bottom Elevation	197.68		m. (MSL.) ,		River Bed	198.28	m. (MSL)						
Left Bank Elevation	206.39		m. (MSL.) ,										
Right Bank Elevation	205.92		m. (MSL.) ,		Drainage Area	415	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	8.30	12.60	9.50	26.70	63.40	19.00	4.10	1.50	1.00	0.80	0.40	
2	0.50	8.60	11.20	18.20	25.60	35.60	21.80	3.70	1.50	1.00	0.80	0.40	
3	0.50	2.70	5.80	12.20	28.10	95.00	18.80	3.40	1.50	1.00	1.60	0.50	
4	0.50	2.90	6.80	15.20	19.80	35.20	55.70	3.40	1.40	0.90	1.80	0.40	
5	0.50	15.90	9.80	10.50	13.80	27.20	30.90	3.30	1.40	0.90	1.40	0.40	
6	0.50	15.70	10.30	9.40	10.10	136.20	33.00	3.30	1.40	0.90	1.00	0.40	
7	0.30	18.70	12.00	6.30	7.80	139.00	22.40	3.30	1.40	0.90	0.90	0.40	
8	0.30	15.40	6.80	6.00	6.80	120.80	17.80	3.20	1.40	0.90	0.90	0.40	
9	0.50	7.80	5.80	5.90	13.50	72.50	15.00	3.10	1.40	0.90	0.80	0.40	
10	0.40	6.20	5.40	5.90	10.50	62.80	12.40	3.10	1.40	0.80	0.80	0.50	
11	0.40	8.40	4.70	9.30	13.20	37.40	9.70	3.00	1.30	0.80	0.80	2.00	
12	0.70	5.30	4.60	5.50	15.80	35.20	6.80	2.90	1.30	0.80	0.80	2.00	
13	0.60	3.50	5.70	9.40	12.20	43.70	13.60	2.70	1.30	0.80	0.80	0.90	
14	0.50	3.50	17.40	8.20	11.40	42.70	10.30	2.60	1.20	0.80	0.70	0.70	
15	0.40	10.20	5.80	14.00	11.40	38.40	13.30	2.50	1.20	0.90	0.70	0.60	
16	0.40	3.80	6.50	26.90	9.00	56.90	17.70	2.40	1.10	0.90	0.70	0.70	
17	0.40	3.50	17.00	16.60	15.40	97.30	8.00	2.40	1.10	0.80	0.70	0.90	
18	0.30	5.80	34.70	10.30	20.00	40.90	8.10	2.40	1.10	0.70	0.70	0.70	
19	0.30	12.60	16.70	38.00	18.80	31.50	7.80	2.30	1.00	0.80	0.70	0.60	
20	1.10	31.20	11.70	22.50	49.40	26.00	6.70	2.30	1.00	0.90	0.70	0.50	
21	0.50	11.70	8.20	18.00	30.20	33.20	6.40	2.00	0.90	1.10	0.70	0.50	
22	0.40	6.80	7.50	14.90	20.30	22.80	5.90	1.80	0.90	1.00	0.60	0.50	
23	9.80	4.60	7.40	13.30	15.30	32.10	5.80	1.80	0.90	0.90	0.60	0.40	
24	1.80	6.50	5.80	12.50	12.60	32.20	5.50	1.80	0.90	0.80	0.60	0.40	
25	1.00	11.90	6.70	11.40	9.70	31.90	5.40	1.70	0.80	0.80	0.60	0.40	
26	1.20	8.60	6.70	12.50	12.50	26.20	5.10	1.70	0.80	0.80	0.60	0.40	
27	1.40	11.90	6.50	13.40	21.10	37.80	5.00	1.70	0.80	0.80	0.60	0.40	
28	0.80	20.30	9.90	16.10	12.40	51.30	4.90	1.60	0.80	0.80	0.50	0.40	
29	1.70	37.20	7.40	14.60	11.20	37.00	4.90	1.60	0.80	0.80	0.50	0.40	
30	1.10	25.20	6.30	16.80	49.00	24.60	4.60	1.60	0.80	0.80		0.40	
31		17.20		13.70	119.40		4.30		0.80	0.80		0.40	
Total	29.30	351.90	283.70	417.00	653.00	1566.80	406.60	76.70	35.10	26.80	23.40	18.40	3888.70 CMSDAY
Mean	1.00	11.40	9.50	13.50	21.10	52.20	13.10	2.60	1.10	0.90	0.80	0.60	10.60 CMS
Max	9.80	37.20	34.70	38.00	119.40	139.00	55.70	4.10	1.50	1.10	1.80	2.00	139.00 CMS
Min	0.30	2.70	4.60	5.50	6.80	22.80	4.30	1.60	0.80	0.70	0.50	0.40	0.30 CMS
Runoff	2.53	30.40	24.51	36.03	56.42	135.37	35.13	6.63	3.03	2.32	2.02	1.59	335.98 MCM
Momentary Peak	179.75 CMS. at 206.75 m. (MSL.) at 06.00 Hours , on Aug 31 , 2011												
Runoff Yield	25.60	Liters/Second/Square KM.		Momentary Peak Yield		433.133	Liters/Second/Square KM.						

WATER YEAR : 2011

NAN RIVER BASIN

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

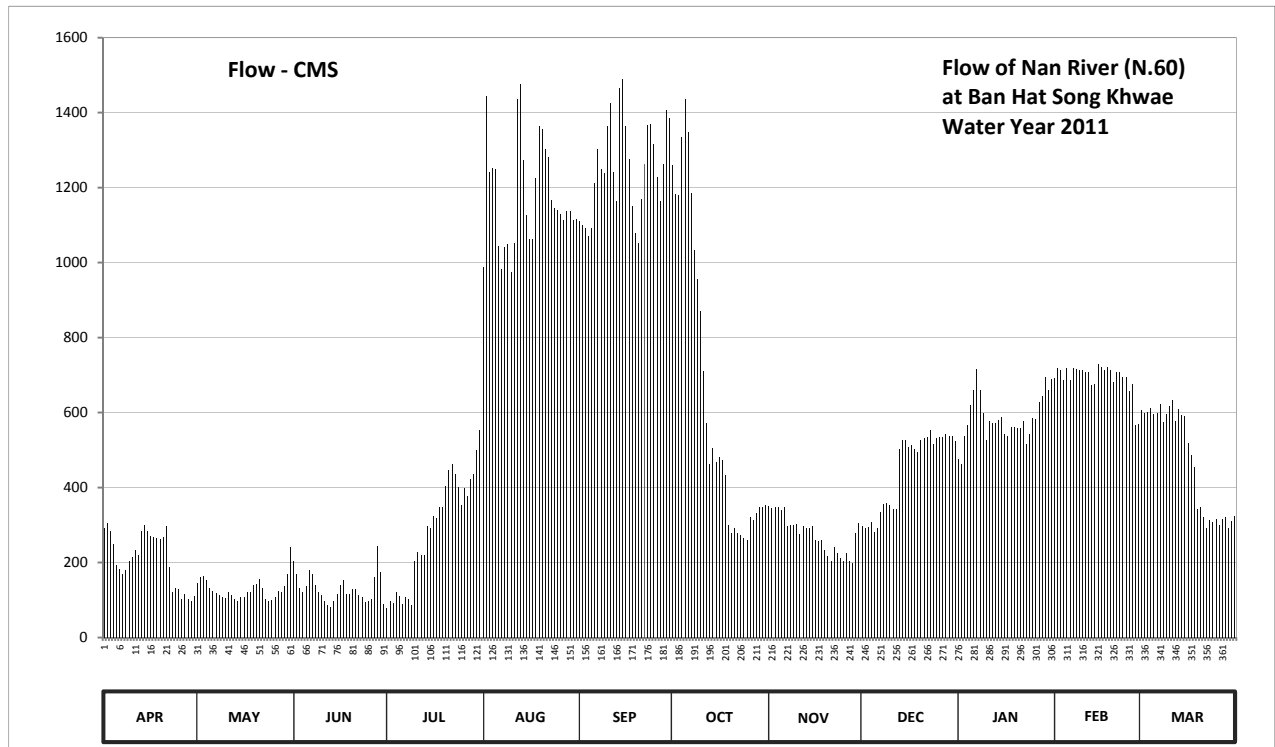
Lat 17 - 24 - 54 N Long 100 - 07 - 58 E

Location : on right bank about 1 kilometer downstream from Wat Hat Song Khwae.

	Ban	Hat Song Khwae	Amphoe	Tron	Changwat	Uttaradit
Drainage Area	18,447	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+48.500	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the Meteorological Station.				Elevation	+57.592 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1986 to date					
Rating Operation						
Period of Rating	1986 to date					
Rated by Flot	-					
Rated by Current Meter	1986 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records very good. Flow effected by Sirikit Dam reservior.					
	Stage-discharge relation defined by 32 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.67	49.77	50.14	49.34	54.47	54.96	55.47	51.01	50.69	51.73	52.96	52.48	
2	50.75	49.88	49.93	49.46	55.97	54.92	55.22	50.98	50.67	51.66	53.12	52.44	
3	50.62	49.89	49.69	49.44	55.42	54.89	55.21	51.00	50.68	52.09	53.09	52.45	
4	50.41	49.83	49.63	49.62	55.45	54.81	55.69	51.00	50.76	52.25	52.94	52.51	
5	50.07	49.70	49.72	49.56	55.44	54.89	55.95	50.94	50.60	52.56	53.11	52.42	
6	50.01	49.65	50.00	49.42	54.70	55.32	55.73	50.99	50.66	52.79	52.93	52.44	
7	49.93	49.61	49.92	49.53	54.45	55.60	55.23	50.69	50.91	53.10	53.11	52.58	
8	49.99	49.58	49.75	49.50	54.69	55.44	54.66	50.72	51.04	52.78	53.10	52.30	
9	50.13	49.53	49.62	49.40	54.72	55.41	54.33	50.72	51.06	52.44	53.08	52.42	
10	50.21	49.52	49.57	50.13	54.41	55.77	53.92	50.73	51.03	52.02	53.08	52.54	
11	50.32	49.62	49.46	50.28	54.74	55.92	53.07	50.57	50.97	52.32	53.06	52.64	
12	50.23	49.57	49.39	50.23	55.95	55.42	52.29	50.70	50.97	52.29	53.06	52.32	
13	50.62	49.51	49.36	50.24	56.04	55.16	51.66	50.66	51.88	52.28	52.86	52.49	
14	50.72	49.47	49.47	50.69	55.51	56.02	51.90	50.67	52.02	52.33	52.88	52.41	
15	50.62	49.54	49.60	50.66	55.02	56.07	51.69	50.70	52.02	52.37	53.17	52.39	
16	50.54	49.53	49.74	50.86	54.78	55.77	51.76	50.48	51.92	52.11	53.13	51.98	
17	50.53	49.63	49.83	50.82	54.78	55.52	51.72	50.46	51.95	52.08	53.09	51.79	
18	50.51	49.62	49.60	50.99	55.36	55.11	51.49	50.47	51.88	52.23	53.13	51.61	
19	50.49	49.74	49.60	51.00	55.77	54.84	50.71	50.31	51.84	52.22	53.09	50.96	
20	50.53	49.76	49.68	51.32	55.75	54.73	50.58	50.22	52.02	52.20	52.91	50.99	
21	50.69	49.84	49.67	51.57	55.60	55.18	50.67	50.13	52.06	52.21	53.06	50.84	
22	50.04	49.69	49.58	51.66	55.54	55.48	50.59	50.36	52.07	52.31	53.06	50.67	
23	49.62	49.51	49.54	51.50	55.17	55.78	50.56	50.27	52.17	51.96	52.98	50.79	
24	49.70	49.46	49.45	51.31	55.09	55.79	50.50	50.18	51.96	52.11	52.98	50.76	
25	49.67	49.49	49.46	51.03	55.07	55.64	50.47	50.13	52.05	52.36	52.77	50.80	
26	49.50	49.53	49.50	51.29	55.03	55.37	50.83	50.27	52.07	52.34	52.87	50.72	
27	49.60	49.65	49.88	51.16	54.97	55.16	50.79	50.14	52.07	52.60	52.25	50.81	
28	49.50	49.63	50.38	51.43	55.06	55.48	50.90	50.10	52.11	52.69	52.27	50.83	
29	49.46	49.73	49.96	51.50	55.06	55.88	50.99	50.58	52.09	52.98	52.43	50.66	
30	49.55	49.93	49.42	51.87	54.97	55.83	51.00	50.74	52.09	52.78		50.78	
31		50.37		52.18	54.98		51.02		52.01	52.95		50.85	
Mean	50.17	49.67	49.68	50.61	55.16	55.41	52.47	50.56	51.56	52.36	52.95	51.70	
Max	50.75	50.37	50.38	52.18	56.04	56.07	55.95	51.01	52.17	53.10	53.17	52.64	56.07
Min	49.46	49.46	49.36	49.34	54.41	54.73	50.47	50.10	50.60	51.66	52.25	50.66	49.34
Annual Max Momentary Gage Height		56.18	m. (MSL.) ,		at 22.00 Hours , on Aug 12 , 2011								
Zero Gage at Bottom Elevation		48.50	m. (MSL.) ,		River Bed	44.83	m. (MSL)						
Left Bank Elevation		58.72	m. (MSL.) ,										
Right Bank Elevation		58.72	m. (MSL.) ,		Drainage Area	18447	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	292.90	144.20	204.10	78.00	988.10	1109.60	1259.10	350.70	296.30	474.70	690.80	606.00		
2	306.50	161.80	169.80	96.00	1445.40	1099.20	1182.00	345.60	292.90	462.50	719.60	599.00		
3	284.40	163.40	131.40	93.00	1242.60	1091.40	1179.00	349.00	294.60	537.70	714.20	600.80		
4	248.70	153.80	121.80	120.20	1252.50	1070.60	1334.40	349.00	308.20	565.70	687.20	611.20		
5	192.50	133.00	136.20	111.00	1249.20	1091.40	1437.00	338.80	281.00	620.00	717.80	595.50		
6	182.60	125.00	181.00	90.00	1043.00	1212.00	1348.80	347.30	291.20	660.30	685.40	599.00		
7	169.80	118.60	168.20	106.50	983.50	1302.00	1185.00	296.30	333.70	716.00	717.80	623.50		
8	179.40	114.00	141.00	102.00	1040.50	1249.20	1033.00	301.40	355.80	658.50	716.00	574.50		
9	202.50	106.50	120.20	87.00	1048.00	1239.30	956.60	301.40	359.20	599.00	712.40	595.50		
10	215.60	105.00	112.50	202.50	974.30	1363.20	870.00	303.10	354.10	525.50	712.40	616.50		
11	233.80	120.20	96.00	227.20	1053.00	1424.40	710.60	275.90	343.90	578.00	708.80	634.00		
12	218.90	112.50	85.50	218.90	1437.00	1242.60	572.80	298.00	343.90	572.80	708.80	578.00		
13	284.40	103.50	81.00	220.60	1475.60	1164.80	462.50	291.20	501.00	571.00	672.80	607.80		
14	301.40	97.50	97.50	296.30	1272.30	1466.80	504.50	292.90	525.50	579.80	676.40	593.70		
15	284.40	108.00	117.00	291.20	1125.60	1488.80	467.70	298.00	525.50	586.70	728.60	590.20		
16	270.80	106.50	139.40	325.20	1063.00	1363.20	480.00	260.60	508.00	541.30	721.40	518.50		
17	269.10	121.80	153.80	318.40	1063.00	1275.60	473.00	257.20	513.20	536.00	714.20	485.20		
18	265.70	120.20	117.00	347.30	1224.00	1150.80	432.80	258.90	501.00	562.20	721.40	453.70		
19	262.30	139.40	117.00	349.00	1363.20	1078.40	299.70	232.20	494.00	560.50	714.20	342.20		
20	269.10	142.60	129.80	403.40	1356.00	1050.50	277.60	217.30	525.50	557.00	681.80	347.30		
21	296.30	155.40	128.20	446.70	1302.00	1170.40	292.90	202.50	532.50	558.70	708.80	321.80		
22	187.60	131.40	114.00	462.50	1282.20	1262.40	279.30	240.40	534.20	576.30	708.80	292.90		
23	120.20	103.50	108.00	434.50	1167.60	1366.80	274.20	225.50	551.70	515.00	694.40	313.30		
24	133.00	96.00	94.50	401.70	1145.20	1370.40	264.00	210.70	515.00	541.30	694.40	308.20		
25	128.20	100.50	96.00	354.10	1139.60	1316.40	258.90	202.50	530.70	585.00	656.80	315.00		
26	102.00	106.50	102.00	398.30	1128.40	1227.00	320.10	225.50	534.20	581.50	674.60	301.40		
27	117.00	125.00	161.80	376.20	1112.20	1164.80	313.30	204.10	534.20	627.00	565.70	316.70		
28	102.00	121.80	243.70	422.20	1136.80	1262.40	332.00	197.50	541.30	642.70	569.30	320.10		
29	96.00	137.80	174.60	434.50	1136.80	1407.60	347.30	277.60	537.70	694.40	597.30	291.20		
30	109.50	169.80	90.00	499.20	1112.20	1386.60	349.00	304.80	537.70	658.50		311.60		
31		242.00		553.50	1114.80		352.40		523.70	689.00		323.50		
Total	6326.60	3987.20	3933.00	8867.10	36477.60	37468.60	19849.50	8255.90	13821.40	18134.60	19992.10	14587.80	191701.40	CMSDAY
Mean	210.90	128.60	131.10	286.00	1176.70	1249.00	640.30	275.20	445.90	585.00	689.40	470.60	523.80	CMS
Max	306.50	242.00	243.70	553.50	1475.60	1488.80	1437.00	350.70	551.70	716.00	728.60	634.00	1488.80	CMS
Min	96.00	96.00	81.00	78.00	974.30	1050.50	258.90	197.50	281.00	462.50	565.70	291.20	78.00	CMS
Runoff	546.62	344.49	339.81	766.12	3151.66	3237.29	1715.00	713.31	1194.17	1566.83	1727.32	1260.39	16563.00	MCM
Momentary Peak	1537.20 CMS. at 56.18 m. (MSL.) at 22.00 Hours , on Aug 12 , 2011													
Runoff Yield	28.39	Liters/Second/Square KM.												
					Momentary Peak Yield		83.331	Liters/Second/Square KM.						

WATER YEAR : 2011

NAN RIVER BASIN

Huai Nam Khlung at Ban Huai Tha Nua , Phitsanulok (N.62)

Lat 17 - 14 - 24 N Long 100 - 33 - 18 E

Location : on left bank at Ban Huai Tha Nua.

	Ban	Huai Tha Nua	Amphoe	Chat Trakan	Changwat	Phitsanulok
Drainage Area	353	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+190.310	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 60 meters from the top staff gage.				Elevation	+200.077 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1986 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 1911.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	191.02	191.19	191.73	191.47	194.66	193.18	193.35	191.72	191.35	191.20	191.07	190.96	
2	191.01	191.15	191.67	191.70	196.51	192.74	193.31	191.70	191.33	191.16	191.07	191.00	
3	190.99	191.15	191.57	191.75	196.64	192.64	193.83	191.66	191.31	191.15	191.07	190.98	
4	190.99	191.09	191.48	191.69	195.54	192.74	194.19	191.63	191.30	191.11	191.08	190.97	
5	190.98	191.06	191.48	191.52	194.35	193.27	195.23	191.60	191.28	191.09	191.08	190.96	
6	190.97	191.15	191.90	191.42	193.55	192.73	194.67	191.57	191.26	191.09	191.08	191.00	
7	190.97	191.19	191.58	191.34	192.69	192.68	194.67	191.55	191.25	191.09	191.08	190.99	
8	190.95	191.18	191.43	191.28	192.31	192.93	193.45	191.53	191.24	191.10	191.08	190.99	
9	190.95	191.15	191.33	191.24	192.43	192.76	192.79	191.52	191.22	191.10	191.08	191.01	
10	190.97	191.09	191.28	191.24	192.31	193.28	192.60	191.50	191.21	191.10	191.07	191.01	
11	191.01	191.13	191.25	191.21	193.45	194.04	192.45	191.51	191.19	191.10	191.07	190.91	
12	191.07	191.09	192.36	191.19	194.20	194.06	192.43	191.50	191.18	191.11	191.06	190.96	
13	191.21	191.09	192.50	191.17	194.46	193.50	192.41	191.47	191.18	191.09	191.06	190.99	
14	191.10	191.05	191.92	191.22	194.12	194.11	192.31	191.45	191.17	191.11	191.06	191.01	
15	191.07	191.11	191.58	191.49	193.38	194.46	192.36	191.43	191.17	191.10	191.05	191.00	
16	191.04	191.68	191.44	191.73	193.38	194.31	192.27	191.41	191.17	191.09	191.05	191.00	
17	191.02	191.57	191.53	191.75	193.49	194.15	192.15	191.41	191.17	191.09	191.05	191.02	
18	190.99	191.32	191.71	192.29	193.89	193.92	191.79	191.40	191.16	191.08	191.04	191.05	
19	190.99	191.30	191.71	191.95	193.78	193.47	191.51	191.38	191.16	191.08	191.04	190.99	
20	191.04	191.61	191.51	191.69	193.64	192.99	191.41	191.36	191.16	191.09	191.04	190.96	
21	191.45	191.65	191.42	191.58	194.55	192.95	191.31	191.35	191.16	191.10	191.04	190.93	
22	191.18	191.61	191.36	191.67	194.41	193.31	191.29	191.34	191.16	191.10	191.03	190.96	
23	191.10	191.55	191.30	191.66	194.20	193.32	191.26	191.33	191.16	191.09	191.03	190.99	
24	191.19	191.51	191.26	191.76	193.48	193.32	191.16	191.33	191.16	191.09	191.03	190.99	
25	191.39	191.46	191.25	191.80	192.72	193.25	191.23	191.31	191.15	191.08	191.02	191.00	
26	191.33	191.41	191.46	191.70	192.41	192.93	191.66	191.31	191.15	191.08	191.02	191.00	
27	191.17	191.43	191.97	192.10	192.46	192.76	191.81	191.30	191.15	191.08	191.02	190.96	
28	191.07	191.52	192.01	192.28	193.32	192.94	191.84	191.30	191.15	191.07	191.01	190.94	
29	191.06	191.89	191.77	191.97	194.16	193.46	191.75	191.29	191.15	191.07	191.01	190.92	
30	191.15	192.68	191.58	192.04	193.98	193.57	191.65	191.29	191.14	191.07		190.91	
31		193.07		191.81	193.36		191.55		191.14	191.07		190.91	
Mean	191.08	191.42	191.61	191.64	193.80	193.33	192.44	191.45	191.20	191.10	191.05	190.98	
Max	191.45	193.07	192.50	192.29	196.64	194.46	195.23	191.72	191.35	191.20	191.08	191.05	196.64
Min	190.95	191.05	191.25	191.17	192.31	192.64	191.16	191.29	191.14	191.07	191.01	190.91	190.91
Annual Max Momentary Gage Height	196.80		m. (MSL.) ,		at 18.00 Hours , on Aug 2 , 2011								
Zero Gage at Bottom Elevation	190.31		m. (MSL.) ,		River Bed	190.58	m. (MSL)						
Left Bank Elevation	196.91		m. (MSL.) ,										
Right Bank Elevation	196.88		m. (MSL.) ,		Drainage Area	353	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	1.20	4.30	2.50	43.10	20.10	22.50	4.20	1.80	1.20	0.70	0.40		
2	0.50	1.00	3.90	4.10	114.20	14.40	21.90	4.10	1.70	1.10	0.70	0.50		
3	0.50	1.00	3.20	4.40	125.00	13.10	29.40	3.80	1.60	1.00	0.70	0.40		
4	0.50	0.80	2.60	4.00	64.60	14.40	34.90	3.60	1.60	0.90	0.80	0.40		
5	0.40	0.70	2.60	2.80	37.60	21.40	55.20	3.40	1.50	0.80	0.80	0.40		
6	0.40	1.00	5.70	2.10	25.30	14.30	43.30	3.20	1.40	0.80	0.80	0.50		
7	0.40	1.20	3.30	1.80	13.80	13.60	43.30	3.10	1.40	0.80	0.80	0.50		
8	0.40	1.10	2.20	1.50	9.70	16.90	23.90	2.90	1.40	0.90	0.80	0.50		
9	0.40	1.00	1.70	1.40	10.90	14.70	15.10	2.80	1.30	0.90	0.80	0.50		
10	0.40	0.80	1.50	1.40	9.70	21.50	12.60	2.70	1.20	0.90	0.70	0.50		
11	0.50	1.00	1.40	1.20	23.90	32.60	11.10	2.80	1.20	0.90	0.70	0.30		
12	0.70	0.80	10.20	1.20	35.00	32.90	10.90	2.70	1.10	0.90	0.70	0.40		
13	1.20	0.80	11.60	1.10	39.50	24.60	10.70	2.50	1.10	0.80	0.70	0.50		
14	0.90	0.70	5.90	1.30	33.80	33.70	9.70	2.40	1.10	0.90	0.70	0.50		
15	0.70	0.90	3.30	2.60	22.90	39.50	10.20	2.20	1.10	0.90	0.70	0.50		
16	0.60	4.00	2.30	4.30	22.90	36.90	9.30	2.10	1.10	0.80	0.70	0.50		
17	0.60	3.20	2.90	4.40	24.50	34.20	8.10	2.10	1.10	0.80	0.70	0.60		
18	0.50	1.70	4.20	9.50	30.30	30.80	4.70	2.00	1.10	0.80	0.60	0.70		
19	0.50	1.60	4.20	6.10	28.70	24.20	2.80	1.90	1.10	0.80	0.60	0.50		
20	0.60	3.50	2.80	4.00	26.60	17.70	2.10	1.80	1.10	0.80	0.60	0.40		
21	2.40	3.70	2.10	3.30	41.10	17.10	1.60	1.80	1.10	0.90	0.60	0.30		
22	1.10	3.50	1.80	3.90	38.60	21.90	1.60	1.80	1.10	0.90	0.60	0.40		
23	0.90	3.10	1.60	3.80	35.00	22.10	1.40	1.70	1.10	0.80	0.60	0.50		
24	1.20	2.80	1.40	4.50	24.30	22.10	1.10	1.70	1.10	0.80	0.60	0.50		
25	2.00	2.40	1.40	4.80	14.20	21.10	1.30	1.60	1.00	0.80	0.60	0.50		
26	1.70	2.10	2.40	4.10	10.70	16.90	3.80	1.60	1.00	0.80	0.60	0.50		
27	1.10	2.20	6.30	7.60	11.20	14.70	4.90	1.60	1.00	0.80	0.60	0.40		
28	0.70	2.80	6.70	9.40	22.10	17.00	5.20	1.60	1.00	0.70	0.50	0.40		
29	0.70	5.60	4.60	6.30	34.40	24.00	4.40	1.60	1.00	0.70	0.50	0.30		
30	1.00	13.60	3.30	7.00	31.70	25.60	3.70	1.60	1.00	0.70		0.30		
31		18.70		4.90	22.60		3.10		1.00	0.70		0.30		
Total	24.10	88.50	111.40	121.30	1027.90	674.00	413.80	72.90	37.40	26.30	19.50	13.90	2631.00	CMSDAY

WATER YEAR : 2011

NAN RIVER BASIN

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

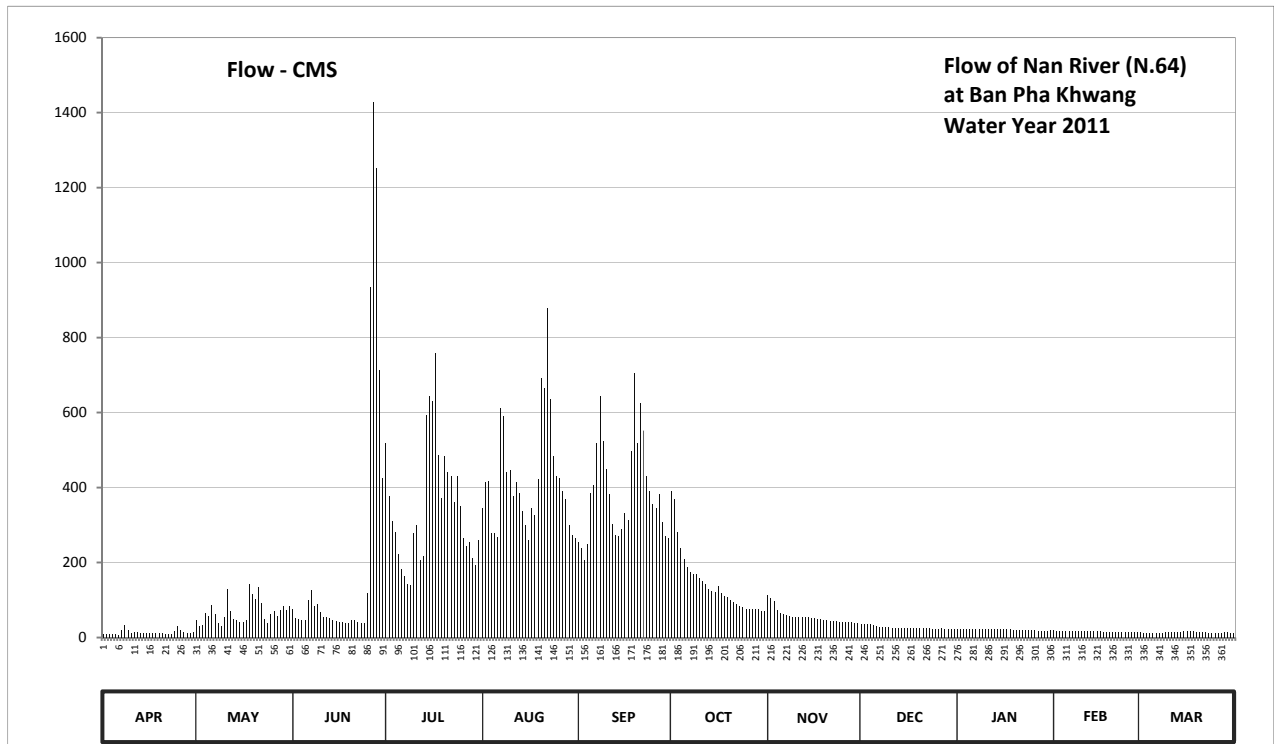
Lat 19 - 00 - 32 N Long 100 - 47 - 19 E

Location : on right bank at the bridge on highway from Tambon Bo.

	Ban	Pha Khwang	Amphoe	Mueang	Changwat	Nan
Drainage Area	3,476	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+210.900	m. (MSL.)				
Bench Mark	B.M.- Temporary.					
Location BM	On right bank at the approach of the bridge.				Elevation	+223.555 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1994 to date					
Rating Operation						
Period of Rating	1994 to date					
Rated by Flot	-					
Rated by Current Meter	1994 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 51 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	211.62	212.01	212.30	215.94	214.61	213.88	214.97	212.63	211.92	211.78	211.73	211.67	
2	211.62	211.86	212.07	214.85	215.16	213.75	214.80	212.56	211.92	211.78	211.72	211.66	
3	211.60	211.87	212.03	214.32	215.17	213.47	214.09	212.48	211.92	211.77	211.72	211.66	
4	211.60	212.19	212.01	214.09	214.07	213.83	213.74	212.27	211.91	211.77	211.72	211.66	
5	211.60	212.11	212.02	213.61	214.07	214.93	213.50	212.19	211.89	211.77	211.72	211.66	
6	211.59	212.39	212.50	213.27	213.99	215.09	213.30	212.15	211.86	211.77	211.72	211.66	
7	211.74	212.17	212.76	213.08	216.63	215.94	213.18	212.14	211.84	211.77	211.71	211.66	
8	211.88	211.93	212.35	212.89	216.47	216.87	213.14	212.12	211.84	211.77	211.71	211.66	
9	211.73	211.86	212.41	212.86	215.37	215.98	213.13	212.10	211.83	211.77	211.71	211.67	
10	211.65	212.09	212.22	214.07	215.40	215.42	213.05	212.09	211.82	211.76	211.71	211.67	
11	211.67	212.78	212.10	214.25	214.86	214.90	212.97	212.08	211.80	211.76	211.71	211.67	
12	211.67	212.25	212.08	213.47	215.16	214.27	212.89	212.08	211.80	211.76	211.70	211.68	
13	211.64	212.03	212.07	213.57	214.92	214.02	212.78	212.08	211.80	211.77	211.70	211.68	
14	211.65	212.01	212.01	216.49	214.54	214.01	212.72	212.08	211.80	211.76	211.70	211.67	
15	211.63	211.97	211.99	216.87	214.23	214.15	212.70	212.07	211.80	211.76	211.70	211.70	
16	211.63	211.97	211.97	216.78	213.92	214.49	212.84	212.05	211.80	211.77	211.70	211.71	
17	211.64	212.02	211.96	217.71	214.61	214.34	212.68	212.04	211.80	211.77	211.69	211.70	
18	211.65	212.89	211.94	215.71	214.46	215.78	212.60	212.03	211.80	211.76	211.69	211.70	
19	211.65	212.65	211.93	214.82	215.22	217.33	212.57	212.02	211.80	211.75	211.69	211.68	
20	211.63	212.54	212.01	215.68	217.22	215.95	212.50	212.00	211.80	211.75	211.69	211.68	
21	211.62	212.82	212.00	215.36	217.02	216.74	212.46	211.99	211.80	211.75	211.68	211.67	
22	211.61	212.43	211.97	215.27	218.57	216.19	212.42	211.98	211.79	211.74	211.68	211.67	
23	211.61	212.04	211.93	214.73	216.81	215.27	212.37	211.98	211.79	211.74	211.67	211.65	
24	211.71	211.94	211.94	215.27	215.69	214.96	212.34	211.97	211.78	211.74	211.67	211.65	
25	211.85	212.16	212.68	214.64	215.29	214.68	212.30	211.97	211.78	211.73	211.67	211.64	
26	211.75	212.24	218.97	213.96	215.23	214.60	212.30	211.96	211.78	211.73	211.67	211.64	
27	211.67	212.12	222.39	213.78	214.97	214.91	212.30	211.96	211.79	211.72	211.67	211.64	
28	211.65	212.26	221.17	213.88	214.80	214.31	212.30	211.95	211.78	211.72	211.67	211.69	
29	211.66	212.37	217.39	213.52	214.25	214.01	212.28	211.94	211.78	211.72	211.67	211.68	
30	211.69	212.27	215.24	213.36	214.03	213.96	212.25	211.94	211.78	211.72		211.65	
31		212.36		213.92	213.95		212.25		211.78	211.73		211.64	
Mean	211.66	212.21	213.28	214.58	215.18	214.93	212.89	212.10	211.82	211.75	211.70	211.67	
Max	211.88	212.89	222.39	217.71	218.57	217.33	214.97	212.63	211.92	211.78	211.73	211.71	222.39
Min	211.59	211.86	211.93	212.86	213.92	213.47	212.25	211.94	211.78	211.72	211.67	211.64	211.59
Annual Max Momentary Gage Height			222.60	m. (MSL.) ,	at 10.00 Hours , on Jun 27 , 2011								
Zero Gage at Bottom Elevation			210.90	m. (MSL.) ,	River Bed	210.55	m. (MSL)						
Left Bank Elevation			226.43	m. (MSL.) ,									
Right Bank Elevation			224.10	m. (MSL.) ,		Drainage Area	3476	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.70	46.55	77.00	517.90	346.25	255.60	391.25	113.30	37.10	23.30	19.05	13.95		
2	9.70	31.00	52.85	376.25	415.00	240.00	370.00	105.60	37.10	23.30	18.20	13.10		
3	8.00	32.00	48.65	310.00	416.25	207.05	281.25	96.80	37.10	22.45	18.20	13.10		
4	8.00	65.45	46.55	281.25	278.75	249.60	238.80	73.85	36.05	22.45	18.20	13.10		
5	8.00	57.05	47.60	223.20	278.75	386.25	210.50	65.45	34.00	22.45	18.20	13.10		
6	7.45	86.90	99.00	184.05	268.80	406.25	187.50	61.25	31.00	22.45	18.20	13.10		
7	19.90	63.35	127.60	162.80	611.05	517.90	173.80	60.20	29.00	22.45	17.35	13.10		
8	33.00	38.15	82.50	141.90	589.45	643.45	169.40	58.10	29.00	22.45	17.35	13.10		
9	19.05	31.00	89.10	138.60	441.25	523.30	168.30	56.00	28.00	22.45	17.35	13.95		
10	12.25	54.95	68.60	278.75	445.00	447.70	159.50	54.95	27.00	21.60	17.35	13.95		
11	13.95	129.80	56.00	301.25	377.50	382.50	150.70	53.90	25.00	21.60	17.35	13.95		
12	13.95	71.75	53.90	207.05	415.00	303.75	141.90	53.90	25.00	21.60	16.50	14.80		
13	11.40	48.65	52.85	218.55	385.00	272.50	129.80	53.90	25.00	22.45	16.50	14.80		
14	12.25	46.55	46.55	592.15	337.50	271.25	123.20	53.90	25.00	21.60	16.50	13.95		
15	10.55	42.35	44.45	643.45	298.75	288.75	121.00	52.85	25.00	21.60	16.50	16.50		
16	10.55	42.35	42.35	631.30	260.40	331.25	136.40	50.75	25.00	22.45	16.50	17.35		
17	11.40	47.60	41.30	758.40	346.25	312.50	118.80	49.70	25.00	22.45	15.65	16.50		
18	12.25	141.90	39.20	486.85	327.50	496.30	110.00	48.65	25.00	21.60	15.65	16.50		
19	12.25	115.50	38.15	372.50	422.50	705.55	106.70	47.60	25.00	20.75	15.65	14.80		
20	10.55	103.40	46.55	482.80	690.70	519.25	99.00	45.50	25.00	20.75	15.65	14.80		
21	9.70	134.20	45.50	440.00	663.70	625.90	94.60	44.45	25.00	20.75	14.80	13.95		
22	8.85	91.30	42.35	428.75	878.80	551.65	90.20	43.40	24.15	19.90	14.80	13.95		
23	8.85	49.70	38.15	361.25	635.35	428.75	84.70	43.40	24.15	19.90	13.95	12.25		
24	17.35	39.20	39.20	428.75	484.15	390.00	81.40	42.35	23.30	19.90	13.95	12.25		
25	30.00	62.30	118.80	350.00	431.25	355.00	77.00	42.35	23.30	19.05	13.95	11.40		
26	20.75	70.70	934.80	265.20	423.75	345.00	77.00	41.30	23.30	19.05	13.95	11.40		
27	13.95	58.10	1429.55	243.60	391.25	383.75	77.00	41.30	24.15	18.20	13.95	11.40		
28	12.25	72.80	1252.65	255.60	370.00	308.75	77.00	40.25	23.30	18.20	13.95	15.65		
29	13.10	84.70	713.65	212.80	301.25	271.25	74.90	39.20	23.30	18.20	13.95	14.80		
30	15.65	73.85	425.00	194.40	273.75	265.20	71.75	39.20	23.30	18.20		12.25		
31		83.60		260.40	264.00		71.75		23.30	19.05		11.40		
Total	404.60	2116.70	6240.40	10749.75	13068.90	11685.95	4465.10	1673.35	835.90	652.60	469.15	428.20	52790.60	CMSDAY
Mean	13.49	68.28	208.01	346.77	421.58	389.53	144.04	55.78	26.96	21.05	16.18	13.81	144.24	CMS
Max	33.00	141.90	1429.55	758.40	878.80	705.55	391.25	113.30	37.10	23.30	19.05	17.35	1429.55	CMS
Min	7.45	31.00	38.15	138.60	260.40	207.05	71.75	39.20	23.30	18.20	13.95	11.40	7.45	CMS
Runoff	34.96	182.88	539.17	928.78	1129.15	1009.67	385.79	144.58	72.22	56.39	40.54	37.00	4561.11	MCM
Momentary Peak	1460.00 CMS. at 222.60 m. (MSL.) at 10.00 Hours , on Jun 27 , 2011													
Runoff Yield	41.49	Liters/Second/Square KM.				Momentary Peak Yield		420.023	Liters/Second/Square KM.					

WATER YEAR : 2011

NAN RIVER BASIN

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

Lat 19 - 13 - 47 N Long 100 - 45 - 27 E

Location : on right bank at the bridge on highway.

	Ban	Pang Sa	Amphoe	Tha Wang Pha	Changwat	Nan
Drainage Area	621	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+248.891	m. (MSL.)				
Bench Mark	B.M.-	H.D.				
Location BM	On right bank about 20 meters from the top staff gage.				Elevation	+257.381 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00, and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 43 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	249.61	249.95	249.80	251.61	250.89	250.35	250.78	249.88	249.74	249.66	249.62	249.55	
2	249.60	249.88	249.78	250.94	251.34	250.38	250.48	249.87	249.75	249.66	249.62	249.55	
3	249.59	250.08	249.77	250.93	251.40	250.29	250.36	249.86	249.74	249.66	249.62	249.55	
4	249.57	250.00	249.81	250.92	250.85	250.39	250.28	249.85	249.74	249.65	249.62	249.55	
5	249.57	249.92	249.86	250.72	250.66	250.42	250.23	249.85	249.74	249.68	249.61	249.55	
6	249.56	250.14	250.17	250.34	250.77	250.43	250.18	249.84	249.74	249.67	249.60	249.54	
7	249.75	249.86	250.14	250.23	252.08	250.61	250.14	249.84	249.73	249.66	249.59	249.54	
8	249.82	249.77	250.90	250.16	251.35	252.07	250.14	249.83	249.73	249.66	249.58	249.53	
9	249.81	249.77	250.16	250.10	251.02	252.20	250.09	249.83	249.73	249.65	249.58	249.53	
10	249.81	249.87	249.94	250.77	251.05	251.12	250.07	249.83	249.72	249.65	249.58	249.53	
11	249.75	250.52	249.82	250.20	250.91	250.73	250.06	249.83	249.72	249.65	249.58	249.52	
12	249.72	249.86	249.81	250.23	251.09	250.60	250.02	249.84	249.72	249.65	249.58	249.54	
13	249.75	249.79	249.79	251.04	251.11	250.51	250.01	249.82	249.71	249.65	249.58	249.54	
14	249.79	249.79	249.83	252.11	250.83	250.49	249.99	249.80	249.71	249.65	249.57	249.57	
15	249.74	249.76	249.78	251.58	250.72	250.41	249.98	249.79	249.71	249.67	249.57	249.58	
16	249.71	249.96	249.76	252.23	250.59	250.63	250.06	249.79	249.71	249.65	249.57	249.55	
17	249.75	250.75	249.79	251.51	250.76	250.66	249.99	249.79	249.70	249.65	249.57	249.54	
18	249.67	250.42	249.82	251.13	250.61	252.69	249.99	249.79	249.69	249.64	249.57	249.53	
19	249.67	250.01	249.80	250.88	250.74	251.35	249.99	249.78	249.69	249.64	249.57	249.52	
20	249.66	249.94	249.79	251.52	251.09	251.02	249.98	249.78	249.69	249.64	249.56	249.52	
21	249.66	251.00	249.77	250.91	251.26	251.22	249.98	249.77	249.68	249.64	249.56	249.52	
22	249.64	249.95	249.73	250.93	251.30	251.17	249.96	249.76	249.68	249.64	249.56	249.52	
23	249.65	249.84	249.74	250.67	251.26	250.89	249.93	249.76	249.68	249.63	249.56	249.51	
24	249.89	250.08	249.73	251.26	250.95	250.75	249.92	249.75	249.68	249.64	249.55	249.51	
25	249.84	250.38	249.94	250.85	250.82	250.64	249.92	249.75	249.68	249.63	249.55	249.51	
26	249.81	249.94	253.44	250.60	250.72	250.71	249.92	249.75	249.68	249.62	249.55	249.50	
27	249.67	249.84	253.34	250.46	250.86	250.57	249.90	249.75	249.68	249.62	249.55	249.52	
28	249.65	249.79	252.30	250.45	250.52	250.49	249.89	249.75	249.68	249.62	249.55	249.50	
29	249.65	249.80	251.56	250.36	250.47	250.41	249.88	249.75	249.67	249.62	249.55	249.49	
30	249.94	249.95	250.94	250.29	250.43	250.34	249.88	249.74	249.67	249.62	249.55	249.49	
31		249.82		250.69	250.42		249.89		249.67	249.62		249.49	
Mean	249.71	250.01	250.29	250.86	250.93	250.82	250.06	249.80	249.71	249.64	249.58	249.53	
Max	249.94	251.00	253.44	252.23	252.08	252.69	250.78	249.88	249.75	249.68	249.62	249.58	253.44
Min	249.56	249.76	249.73	250.10	250.42	250.29	249.88	249.74	249.67	249.62	249.55	249.49	249.49
Annual Max Momentary Gage Height	254.08		m. (MSL.) , at 19.00 Hours , on Jun 26 , 2011										
Zero Gage at Bottom Elevation	248.89		m. (MSL.) , River Bed 249.08 m. (MSL.) ,										
Left Bank Elevation	256.71		m. (MSL.) ,										
Right Bank Elevation	256.70		m. (MSL.) , Drainage Area 621 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.25	15.25	9.00	107.65	63.95	34.50	57.90	12.20	6.90	4.50	3.50	2.25	
2	3.00	12.20	8.30	66.70	90.40	36.00	41.40	11.80	7.25	4.50	3.50	2.25	
3	2.85	21.10	7.95	66.15	94.00	31.50	35.00	11.40	6.90	4.50	3.50	2.25	
4	2.55	17.50	9.40	65.60	61.75	36.50	31.00	11.00	6.90	4.25	3.50	2.25	
5	2.55	13.90	11.40	54.60	51.30	38.10	28.50	11.00	6.90	5.00	3.25	2.25	
6	2.40	24.00	25.50	34.00	57.35	38.65	26.00	10.60	6.90	4.75	3.00	2.10	
7	7.25	11.40	24.00	28.50	138.60	48.55	24.00	10.60	6.55	4.50	2.85	2.10	
8	9.80	7.95	64.50	25.00	91.00	137.90	24.00	10.20	6.55	4.50	2.70	1.95	
9	9.40	7.95	25.00	22.00	71.20	147.00	21.55	10.20	6.55	4.25	2.70	1.95	
10	9.40	11.80	14.80	57.35	73.00	77.20	20.65	10.20	6.20	4.25	2.70	1.95	
11	7.25	43.60	9.80	27.00	65.05	55.15	20.20	10.20	6.20	4.25	2.70	1.80	
12	6.20	11.40	9.40	28.50	75.40	48.00	18.40	10.60	6.20	4.25	2.70	2.10	
13	7.25	8.65	8.65	72.40	76.60	43.05	17.95	9.80	5.85	4.25	2.70	2.10	
14	8.65	8.65	10.20	140.70	60.65	41.95	17.05	9.00	5.85	4.25	2.55	2.55	
15	6.90	7.60	8.30	105.70	54.60	37.55	16.60	8.65	5.85	4.75	2.55	2.70	
16	5.85	15.70	7.60	149.10	47.45	49.65	20.20	8.65	5.85	4.25	2.55	2.25	
17	7.25	56.25	8.65	101.15	56.80	51.30	17.05	8.65	5.50	4.25	2.55	2.10	
18	4.75	38.10	9.80	77.80	48.55	182.03	17.05	8.65	5.25	4.00	2.55	1.95	
19	4.75	17.95	9.00	63.40	55.70	91.00	17.05	8.30	5.25	4.00	2.55	1.80	
20	4.50	14.80	8.65	101.80	75.40	71.20	16.60	8.30	5.25	4.00	2.40	1.80	
21	4.50	70.00	7.95	65.05	85.60	83.20	16.60	7.95	5.00	4.00	2.40	1.80	
22	4.00	15.25	6.55	66.15	88.00	80.20	15.70	7.60	5.00	4.00	2.40	1.80	
23	4.25	10.60	6.90	51.85	85.60	63.95	14.35	7.60	5.00	3.75	2.40	1.65	
24	12.60	21.10	6.55	85.60	67.25	56.25	13.90	7.25	5.00	4.00	2.25	1.65	
25	10.60	36.00	14.80	61.75	60.10	50.20	13.90	7.25	5.00	3.75	2.25	1.65	
26	9.40	14.80	239.20	48.00	54.60	54.05	13.90	7.25	5.00	3.50	2.25	1.50	
27	4.75	10.60	231.35	40.30	62.30	46.35	13.00	7.25	5.00	3.50	2.25	1.80	
28	4.25	8.65	154.00	39.75	43.60	41.95	12.60	7.25	5.00	3.50	2.25	1.50	
29	4.25	9.00	104.40	35.00	40.85	37.55	12.20	7.25	4.75	3.50	2.25	1.35	
30	14.80	15.25	66.70	31.50	38.65	34.00	12.20	6.90	4.75	3.50		1.35	
31		9.80		52.95	38.10		12.60		4.75	3.50		1.35	
Total	189.20	586.80	1128.30	19									

WATER YEAR : 2011

NAN RIVER BASIN

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

Lat 17 - 07 - 22 N Long 100 - 53 - 58 E

Location : on right bank at Ban Om Sing.

	Ban	Noen Phoem	Amphoe	Nakhon Thai	Changwat	Phitsanulok
Drainage Area	152	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+201.220	m. (MSL.)				
Bench Mark	B.M.-	H.D.				
Location BM	On right bank about 8 meters from the top staff gage.				Elevation	+208.617 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1995 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 1911.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	202.41	203.04	202.96	203.54	205.70	203.93	204.79	202.95	202.54	202.40	202.37	202.22	
2	202.45	204.14	202.97	204.27	205.00	203.81	205.29	202.94	202.52	202.39	202.37	202.22	
3	202.43	202.71	202.97	203.57	205.41	206.63	206.69	202.94	202.51	202.37	202.37	202.22	
4	202.43	204.02	203.53	204.09	204.91	204.96	205.73	202.90	202.50	202.35	202.60	202.22	
5	202.38	203.41	203.64	203.54	204.51	204.48	205.15	202.89	202.50	202.35	202.55	202.22	
6	202.36	203.34	203.29	203.40	204.25	206.24	204.94	202.87	202.48	202.36	202.48	202.22	
7	202.40	203.29	203.20	203.26	204.00	206.16	204.64	202.86	202.49	202.35	202.45	202.22	
8	202.38	203.04	203.00	203.13	203.75	205.70	204.44	202.84	202.52	202.34	202.40	202.22	
9	202.45	203.27	203.16	203.05	203.87	205.36	204.23	202.82	202.54	202.33	202.39	202.22	
10	202.42	203.03	202.98	203.32	203.62	205.86	204.02	202.80	202.52	202.33	202.36	202.47	
11	202.41	202.98	202.89	203.02	205.45	205.23	203.86	202.79	202.49	202.33	202.30	202.93	
12	202.47	202.67	203.38	202.94	204.78	205.59	203.76	202.78	202.46	202.29	202.27	202.73	
13	202.44	202.77	203.19	202.90	204.32	206.08	204.72	202.76	202.49	202.28	202.27	202.79	
14	202.46	202.58	203.61	204.68	204.02	206.00	203.89	202.74	202.47	202.30	202.27	202.62	
15	202.46	202.78	203.03	203.59	203.97	205.81	203.69	202.72	202.47	202.35	202.26	204.95	
16	202.45	202.90	203.69	204.31	203.62	206.24	203.59	202.71	202.44	202.42	202.26	202.95	
17	202.44	202.58	203.50	203.67	205.03	205.69	203.49	202.71	202.45	202.36	202.25	202.66	
18	202.41	202.59	204.43	203.54	205.78	205.23	203.46	202.69	202.45	202.36	202.24	202.64	
19	202.37	204.83	203.83	205.78	205.74	205.78	203.39	202.68	202.45	202.39	202.24	202.54	
20	202.38	204.70	203.54	204.90	206.53	204.95	203.34	202.66	202.44	202.58	202.23	202.46	
21	202.38	203.40	203.46	204.41	205.92	205.74	203.31	202.65	202.43	202.58	202.23	202.42	
22	202.36	203.01	203.49	204.50	205.21	205.31	203.25	202.65	202.45	202.59	202.23	202.40	
23	202.32	202.84	203.14	204.04	204.82	205.19	203.22	202.64	202.44	202.54	202.22	202.39	
24	202.46	202.73	203.04	203.73	204.53	205.33	203.17	202.63	202.43	202.45	202.22	202.36	
25	202.44	202.74	203.30	204.72	204.26	205.03	203.12	202.62	202.41	202.44	202.22	202.33	
26	202.40	203.08	204.52	204.92	204.33	204.71	203.12	202.59	202.39	202.42	202.22	202.32	
27	202.38	203.55	203.98	204.25	203.93	205.30	203.07	202.59	202.38	202.41	202.22	202.31	
28	202.37	203.83	203.87	203.64	203.78	205.82	203.05	202.60	202.38	202.41	202.22	202.30	
29	202.56	203.72	203.75	203.62	203.59	205.86	203.02	202.56	202.40	202.39	202.22	202.27	
30	202.64	203.29	203.39	203.22	203.87	205.06	203.00	202.56	202.39	202.39		202.25	
31		203.16		204.23	204.61		202.97		202.39	202.37		202.24	
Mean	202.42	203.23	203.42	203.86	204.62	205.44	203.92	202.74	202.46	202.39	202.31	202.49	
Max	202.64	204.83	204.52	205.78	206.53	206.63	206.69	202.95	202.54	202.59	202.60	204.95	206.69
Min	202.32	202.58	202.89	202.90	203.59	203.81	202.97	202.56	202.38	202.28	202.22	202.22	202.22
Annual Max Momentary Gage Height	206.89		m. (MSL.) ,		at 15.00 Hours , on Oct 3 , 2011								
Zero Gage at Bottom Elevation	201.22		m. (MSL.) ,		River Bed	201.99	m. (MSL)						
Left Bank Elevation	208.66		m. (MSL.) ,										
Right Bank Elevation	208.63		m. (MSL.) ,		Drainage Area	152	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	1.40	1.20	2.90	16.50	4.00	6.90	1.20	0.30	0.10	0.00	0.00	
2	0.10	4.60	1.20	5.00	7.80	3.70	9.80	1.10	0.20	0.00	0.00	0.00	
3	0.10	0.60	1.20	2.90	11.00	48.20	50.50	1.10	0.20	0.00	0.00	0.00	
4	0.10	4.30	2.80	4.50	7.40	7.60	17.40	1.00	0.20	0.00	0.40	0.00	
5	0.00	2.50	3.10	2.90	5.80	5.70	8.60	1.00	0.20	0.00	0.30	0.00	
6	0.00	2.30	2.10	2.40	5.00	33.70	7.50	1.00	0.20	0.00	0.20	0.00	
7	0.10	2.10	1.80	2.00	4.20	31.10	6.30	0.90	0.20	0.00	0.10	0.00	
8	0.00	1.40	1.30	1.60	3.50	16.50	5.60	0.90	0.20	0.00	0.10	0.00	
9	0.10	2.10	1.70	1.40	3.80	10.50	4.90	0.90	0.30	0.00	0.00	0.00	
10	0.10	1.40	1.20	2.20	3.10	21.30	4.30	0.80	0.20	0.00	0.00	0.20	
11	0.10	1.20	1.00	1.30	11.50	9.30	3.80	0.80	0.20	0.00	0.00	1.10	
12	0.20	0.50	2.40	1.10	6.80	13.60	3.50	0.80	0.10	0.00	0.00	0.70	
13	0.10	0.70	1.80	1.00	5.20	28.40	6.60	0.70	0.20	0.00	0.00	0.80	
14	0.10	0.40	3.10	6.40	4.30	25.80	3.90	0.70	0.20	0.00	0.00	0.40	
15	0.10	0.80	1.40	3.00	4.10	19.70	3.30	0.60	0.20	0.00	0.00	7.60	
16	0.10	1.00	3.30	5.10	3.10	33.70	3.00	0.60	0.10	0.10	0.00	1.20	
17	0.10	0.40	2.70	3.20	7.90	16.20	2.70	0.60	0.10	0.00	0.00	0.50	
18	0.10	0.40	5.60	2.90	18.80	9.30	2.60	0.60	0.10	0.00	0.00	0.50	
19	0.00	7.00	3.70	18.80	17.70	18.80	2.40	0.60	0.10	0.00	0.00	0.30	
20	0.00	6.50	2.90	7.30	44.30	7.60	2.30	0.50	0.10	0.40	0.00	0.10	
21	0.00	2.40	2.60	5.50	23.20	17.70	2.20	0.50	0.10	0.40	0.00	0.10	
22	0.00	1.30	2.70	5.80	9.10	10.00	2.00	0.50	0.10	0.40	0.00	0.10	
23	0.00	0.90	1.70	4.30	7.00	8.90	1.90	0.50	0.10	0.30	0.00	0.00	
24	0.10	0.70	1.40	3.40	5.90	10.20	1.80	0.50	0.10	0.10	0.00	0.00	
25	0.10	0.70	2.10	6.60	5.00	7.90	1.60	0.40	0.10	0.10	0.00	0.00	
26	0.10	1.50	5.90	7.40	5.20	6.50	1.60	0.40	0.00	0.10	0.00	0.00	
27	0.00	2.90	4.20	5.00	4.00	9.90	1.50	0.40	0.00	0.10	0.00	0.00	
28	0.00	3.70	3.80	3.10	3.60	20.00	1.40	0.40	0.00	0.10	0.00	0.00	
29	0.30	3.40	3.50	3.10	3.00	21.30	1.30	0.30	0.10	0.00	0.00	0.00	
30	0.50	2.10	2.40	1.90	3.80	8.10	1.30	0.30	0.00	0.00		0.00	
31		1.70		4.90	6.20		1.20		0.00	0.00		0.00	
Total	2.70	62.90	75.80	128.90	267.80	485.20	173.70	20.60	4.20	2.20	1.10	13.60	1238.70
Mean	0.10	2.00	2.50	4.20	8.60	16.20							

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Ban Koei Chai, Nakhon Sawan (N.67)**

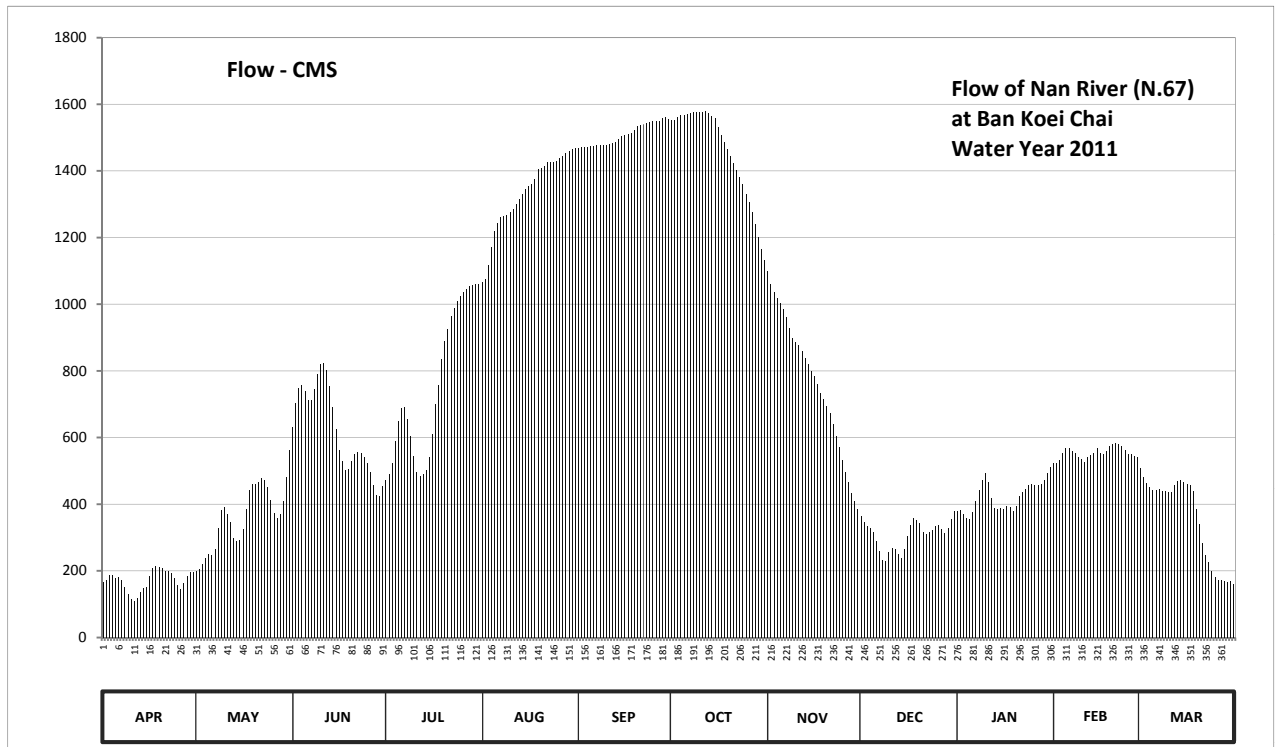
Lat 15 - 52 - 05 N Long 100 - 16 - 07 E

Location : on right bank at the bridge near Wat Koei Chai Nua

	Ban	Koei Chai	Amphoe	Chum Saeng	Changwat	Nakhon Sawan
Drainage Area	57,384	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage observe's house				Elevation	+27.470 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1997 to date					
Rating Operation						
Period of Rating	1997 to date					
Rated by Flot	-					
Rated by Current Meter	1997 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +28.340 m.(MSL.), records are channel flow only.					
General Description	Records good. Flow effected by Mae Yom side flow.					
	Stage-discharge relation defined by 65 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.41	20.83	24.21	23.22	26.44	28.10	28.40	27.71	22.82	22.56	23.55	23.45	
2	20.46	20.91	24.63	23.33	26.49	28.11	28.40	27.62	22.56	22.58	23.56	23.27	
3	20.70	21.11	24.88	23.55	26.66	28.11	28.43	27.55	22.40	22.49	23.62	23.15	
4	20.71	21.28	24.92	23.96	26.89	28.11	28.45	27.49	22.29	22.37	23.74	23.06	
5	20.56	21.40	24.83	24.32	27.08	28.12	28.45	27.44	22.07	22.35	23.83	23.01	
6	20.59	21.38	24.68	24.55	27.19	28.12	28.46	27.39	21.80	22.52	23.83	23.01	
7	20.48	21.55	24.68	24.56	27.26	28.13	28.47	27.33	21.50	22.76	23.78	23.03	
8	20.19	22.14	24.87	24.36	27.27	28.13	28.48	27.25	21.23	23.00	23.74	22.99	
9	19.86	22.58	25.10	24.06	27.29	28.13	28.48	27.15	21.20	23.22	23.67	22.99	
10	19.64	22.64	25.25	23.68	27.32	28.13	28.48	27.09	21.47	23.36	23.64	22.95	
11	19.57	22.48	25.27	23.38	27.36	28.14	28.48	27.04	21.59	23.17	23.58	22.97	
12	19.72	22.27	25.16	23.29	27.42	28.15	28.49	26.94	21.54	22.83	23.66	23.10	
13	19.97	21.87	24.91	23.33	27.48	28.16	28.49	26.81	21.39	22.62	23.71	23.19	
14	20.12	21.81	24.57	23.42	27.54	28.19	28.48	26.70	21.27	22.59	23.75	23.21	
15	20.18	21.83	24.18	23.67	27.60	28.22	28.47	26.58	21.54	22.61	23.83	23.17	
16	20.64	22.10	23.80	24.08	27.64	28.23	28.44	26.47	21.93	22.60	23.75	23.14	
17	20.97	22.60	23.60	24.61	27.66	28.25	28.41	26.32	22.21	22.66	23.72	23.10	
18	21.02	23.01	23.41	24.93	27.72	28.26	28.38	26.14	22.38	22.64	23.78	22.99	
19	20.98	23.12	23.43	25.33	27.84	28.29	28.35	26.01	22.34	22.56	23.87	22.59	
20	20.94	23.12	23.60	25.60	27.85	28.33	28.32	25.87	22.26	22.66	23.92	22.22	
21	20.86	23.17	23.73	25.78	27.88	28.34	28.29	25.71	22.04	22.87	23.93	21.74	
22	20.86	23.25	23.77	25.96	27.93	28.35	28.26	25.47	21.97	22.97	23.91	21.36	
23	20.78	23.22	23.74	26.08	27.93	28.36	28.23	25.18	22.03	23.03	23.88	21.15	
24	20.56	23.07	23.66	26.18	27.93	28.37	28.20	24.92	22.08	23.11	23.80	20.83	
25	20.24	22.79	23.55	26.25	27.94	28.38	28.15	24.60	22.17	23.13	23.73	20.59	
26	20.10	22.50	23.37	26.30	27.97	28.38	28.11	24.25	22.20	23.10	23.72	20.48	
27	20.34	22.37	23.11	26.35	28.00	28.39	28.06	23.95	22.10	23.11	23.68	20.47	
28	20.63	22.47	22.90	26.39	28.03	28.42	28.00	23.64	22.01	23.13	23.67	20.43	
29	20.81	22.77	22.87	26.41	28.06	28.43	27.92	23.35	22.14	23.22	23.62	20.38	
30	20.80	23.27	23.08	26.42	28.08	28.41	27.85	23.09	22.35	23.36		20.43	
31		23.80		26.42	28.09		27.78		22.56	23.47		20.31	
Mean	20.46	22.35	24.13	24.83	27.54	28.24	28.31	26.10	21.98	22.86	23.74	22.22	
Max	21.02	23.80	25.27	26.42	28.09	28.43	28.49	27.71	22.82	23.47	23.93	23.45	28.49
Min	19.57	20.83	22.87	23.22	26.44	28.10	27.78	23.09	21.20	22.35	23.55	20.31	19.57
Annual Max Momentary Gage Height	28.49		m. (MSL.) ,			at 11.00 Hours , on Oct 12 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	12.80	m. (MSL)						
Left Bank Elevation	28.55		m. (MSL.) ,										
Right Bank Elevation	28.33		m. (MSL.) ,		Drainage Area	57384	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	167.70	198.40	630.70	473.00	1065.20	1470.00	1554.00	1099.50	364.50	380.80	522.50	507.50		
2	171.20	204.80	702.40	489.50	1076.70	1472.80	1554.00	1059.00	345.20	383.40	524.00	480.50		
3	188.00	221.00	748.20	522.50	1117.40	1472.80	1562.40	1035.00	334.00	371.80	533.20	463.00		
4	188.80	238.00	755.80	588.20	1172.60	1472.80	1568.00	1017.00	328.00	357.40	552.40	450.40		
5	178.20	250.00	738.70	649.40	1218.20	1475.60	1568.00	1002.00	316.50	355.00	566.80	443.40		
6	180.30	248.00	711.40	688.50	1244.60	1475.60	1570.80	985.80	290.00	375.60	566.80	443.40		
7	172.60	265.00	711.40	690.20	1261.40	1478.40	1573.60	960.60	260.00	408.40	558.80	446.20		
8	152.30	329.80	746.30	656.20	1263.80	1478.40	1576.40	927.00	233.00	442.00	552.40	440.60		
9	129.20	383.40	790.00	605.20	1268.60	1478.40	1576.40	897.00	230.00	473.00	541.20	440.60		
10	114.40	391.60	820.00	542.80	1275.80	1478.40	1576.40	886.20	257.00	494.00	536.40	435.00		
11	110.20	370.60	824.00	497.00	1285.40	1481.20	1576.40	877.20	269.00	465.80	527.00	437.80		
12	119.40	345.40	802.00	483.50	1300.00	1484.00	1579.20	859.50	264.00	418.20	539.60	456.00		
13	136.90	297.70	753.90	489.50	1315.00	1486.80	1573.80	836.80	249.00	388.80	547.60	468.60		
14	147.40	291.10	691.90	503.00	1330.00	1495.20	1565.60	818.50	237.00	384.70	554.00	471.50		
15	151.60	293.30	625.60	541.20	1345.00	1503.60	1557.40	799.10	264.00	387.40	566.80	465.80		
16	183.80	325.00	562.00	608.60	1355.00	1506.40	1532.80	783.10	304.60	386.00	554.00	461.60		
17	209.60	386.00	530.00	698.80	1360.00	1512.00	1508.20	759.80	338.20	394.40	549.20	456.00		
18	213.60	443.40	501.50	757.70	1375.00	1514.80	1486.00	732.20	358.60	391.60	558.80	440.60		
19	210.40	458.80	504.50	836.00	1405.00	1523.20	1465.00	715.30	353.80	380.80	573.20	384.70		
20	207.20	458.80	530.00	890.00	1407.50	1534.40	1444.00	695.20	344.20	394.40	581.40	339.40		
21	200.80	465.80	550.80	926.00	1415.00	1537.20	1423.00	672.40	317.80	423.80	583.10	284.00		
22	200.80	477.50	557.20	963.60	1427.50	1540.00	1402.00	639.40	309.40	437.80	579.70	246.00		
23	194.40	473.00	552.40	988.80	1427.50	1542.80	1381.00	602.50	316.60	446.20	574.80	225.00		
24	178.20	451.80	539.60	1009.80	1427.50	1545.60	1360.00	570.80	322.60	457.40	562.00	198.40		
25	155.80	412.60	522.50	1024.50	1430.00	1548.40	1330.00	533.00	333.40	460.20	550.80	180.30		
26	146.00	373.00	495.50	1035.00	1437.50	1548.40	1306.00	495.50	337.00	456.00	549.20	172.60		
27	162.80	357.40	457.40	1045.50	1445.00	1551.20	1276.00	465.00	325.00	457.40	542.80	171.90		
28	183.10	369.40	428.00	1053.90	1452.50	1559.60	1240.00	434.00	314.20	460.20	541.20	169.10		
29	196.80	409.80	423.80	1058.30	1460.00	1562.40	1200.00	408.50	329.80	473.00	533.20	165.60		
30	196.00	480.50	453.20	1060.60	1465.00	1556.80	1165.00	385.60	355.00	494.00		169.10		
31		562.00		1060.60	1467.50		1131.00		380.80	510.50		160.70		
Total	5147.50	11232.90	18660.70	23437.40	41297.20	45287.20	45182.40	22952.50	9582.20	13110.00	16022.90	11075.30	262988.30	CMSDAY
Mean	171.60	362.40	622.00	756.00	1332.20	1509.60	1457.50	765.10	309.10	422.90	552.50	357.30	718.50	CMS
Max	213.60	562.00	824.00	1060.60	1467.50	1562.40	1579.20	1099.50	380.80	510.50	583.10	507.50	1579.20	CMS
Min	110.20	198.40	423.80	473.00	1065.20	1470.00	1131.00	385.60	230.00	355.00	522.50	160.70	110.20	CMS
Runoff	444.74	970.52	1612.28	2024.99	3568.08	3912.81	3903.76	1983.10	827.90	1132.70	1384.38	956.91	22722.19	MCM
Momentary Peak	1579.20 CMS. at 28.49 m. (MSL.) at 11.00 Hours , on Oct 12 , 2011													
Runoff Yield	12.52	Liters/Second/Square KM.			Momentary Peak Yield			27.520	Liters/Second/Square KM.					

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Ban Tha Takhian , Phitsanulok (N.68)**

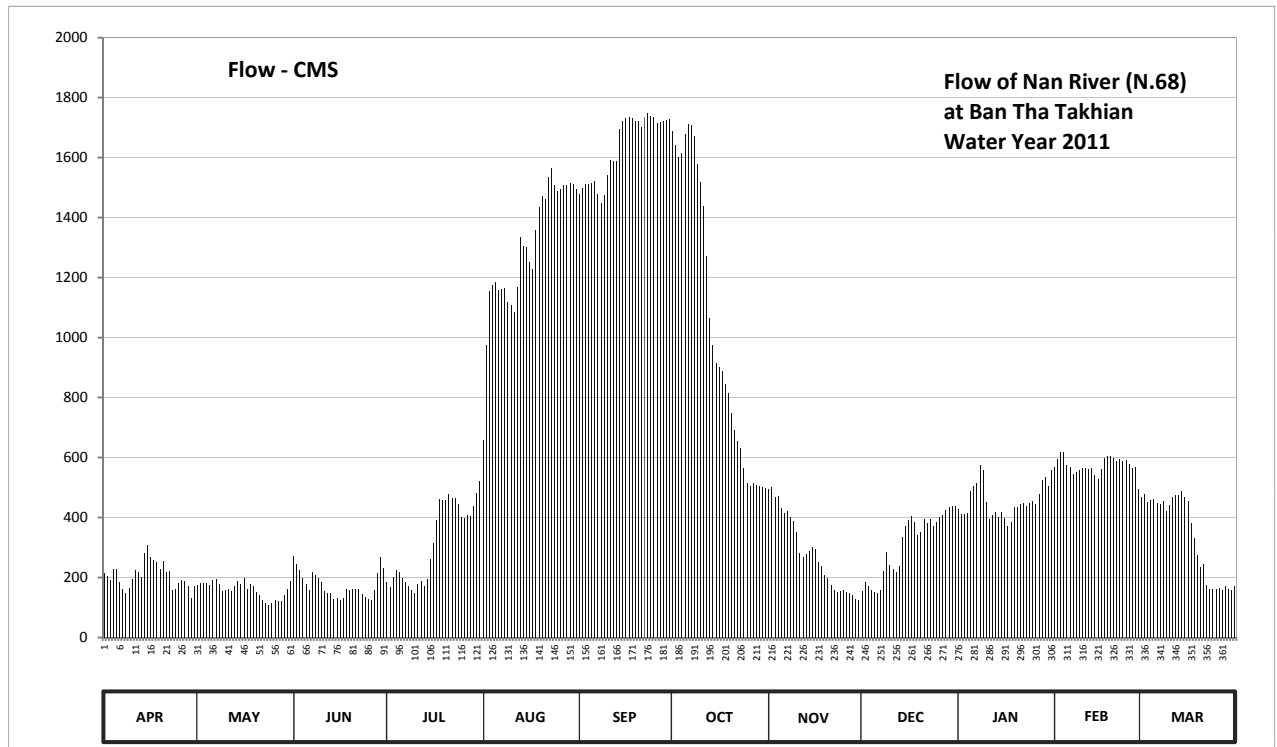
Lat 16 - 52 - 15 N Long 100 - 14 - 36 E

Location : on right bank at Ban Tha Takhian.

	Ban	Tha Takhian	Amphoe	Mueang	Changwat	Phitsanulok
Drainage Area	25,018	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+35.000	m. (MSL.)				
Bench Mark	B.M.-	H.D.				
Location BM	On right bank near the gage site.				Elevation	+48.620 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +45.050 m. (MSL.), records are channel flow only.					
General Description	Records good. Flow effected by Mae Yom side flow.					
	Stage-discharge relation defined by 22 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.93	37.54	38.44	37.63	41.52	45.67	46.35	40.26	37.31	39.75	40.84	40.06	
2	37.84	37.61	38.20	37.47	43.63	45.74	46.20	40.32	37.62	39.59	41.03	40.14	
3	37.69	37.61	38.01	37.78	44.52	45.79	46.07	40.07	37.51	39.60	41.22	39.92	
4	38.05	37.58	37.77	38.00	44.60	45.79	46.12	40.08	37.34	39.62	41.20	39.97	
5	38.05	37.52	37.56	37.96	44.64	45.80	46.32	39.77	37.28	40.21	40.87	40.02	
6	37.62	37.70	37.36	37.77	44.53	45.82	46.42	39.64	37.24	40.35	40.83	39.91	
7	37.38	37.72	37.94	37.63	44.55	45.68	46.41	39.68	37.35	40.43	40.66	39.88	
8	37.25	37.56	37.87	37.50	44.56	45.57	46.29	39.50	37.97	40.87	40.71	39.95	
9	37.44	37.33	37.77	37.37	44.36	45.66	46.00	39.40	38.53	40.74	40.75	39.68	
10	37.73	37.34	37.63	37.23	44.30	45.88	45.81	39.10	38.16	39.92	40.79	39.86	
11	38.01	37.38	37.31	37.56	44.19	46.04	45.54	38.52	38.05	39.47	40.79	40.06	
12	37.94	37.33	37.23	37.66	44.58	46.03	44.98	38.40	37.96	39.56	40.78	40.12	
13	37.81	37.49	37.23	37.51	45.20	46.03	44.10	38.48	38.13	39.66	40.81	40.11	
14	38.52	37.65	36.99	37.72	45.10	46.37	43.63	38.57	38.97	39.52	40.62	40.22	
15	38.74	37.55	37.03	38.34	45.08	46.45	43.31	38.67	39.25	39.65	40.51	40.06	
16	38.40	37.77	36.95	38.78	44.90	46.48	43.23	38.63	39.44	39.48	40.77	39.96	
17	38.32	37.41	37.03	39.44	44.82	46.49	43.15	38.24	39.55	39.26	41.06	39.35	
18	38.24	37.57	37.40	40.01	45.28	46.48	42.88	38.13	39.37	39.38	41.12	38.94	
19	38.04	37.50	37.34	39.97	45.53	46.45	42.67	37.87	39.02	39.78	41.10	38.46	
20	38.28	37.29	37.41	40.00	45.65	46.45	42.21	37.77	39.10	39.78	41.06	38.09	
21	37.96	37.18	37.41	40.13	45.62	46.39	41.78	37.53	39.47	39.87	40.97	38.20	
22	37.98	36.98	37.40	40.03	45.86	46.49	41.49	37.35	39.35	39.90	41.04	37.53	
23	37.36	36.85	37.22	40.03	45.96	46.53	41.31	37.29	39.46	39.82	40.98	37.39	
24	37.41	36.73	37.08	39.88	45.78	46.50	40.80	37.32	39.25	39.91	41.01	37.38	
25	37.58	36.85	36.99	39.52	45.71	46.49	40.43	37.37	39.38	39.95	40.90	37.38	
26	37.70	36.97	36.97	39.48	45.73	46.43	40.33	37.29	39.50	39.88	40.79	37.43	
27	37.66	36.94	37.35	39.58	45.77	46.44	40.41	37.24	39.58	40.15	40.82	37.37	
28	37.49	36.92	37.93	39.54	45.78	46.45	40.36	37.15	39.70	40.50	40.27	37.51	
29	37.03	37.18	38.39	39.81	45.80	46.46	40.34	37.00	39.80	40.58	40.07	37.41	
30	37.51	37.38	38.08	40.17	45.79	46.47	40.31	36.96	39.83	40.34		37.36	
31	37.68		40.48	45.73		40.30		39.83	40.75			37.51	
Mean	37.83	37.36	37.51	38.77	45.00	46.18	43.40	38.45	38.72	39.94	40.84	38.94	
Max	38.74	37.77	38.44	40.48	45.96	46.53	46.42	40.32	39.83	40.87	41.22	40.22	46.53
Min	37.03	36.73	36.95	37.23	41.52	45.57	40.30	36.96	37.24	39.26	40.07	37.36	36.73
Annual Max Momentary Gage Height	46.54		m. (MSL.) ,			at 15.00 Hours , on Sep 23 , 2011							
Zero Gage at Bottom Elevation	35.00		m. (MSL.) ,			River Bed	32.99	m. (MSL)					
Left Bank Elevation	45.04		m. (MSL.) ,										
Right Bank Elevation	45.10		m. (MSL.) ,			Drainage Area	25018	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	216.30	176.00	272.80	185.00	657.60	1477.00	1690.00	493.80	153.90	430.00	569.20	467.80		
2	206.40	183.00	246.00	169.00	973.70	1498.00	1642.00	501.60	184.00	410.80	593.90	478.20		
3	191.00	183.00	225.10	200.00	1155.60	1513.00	1600.40	469.10	173.00	412.00	618.60	450.40		
4	229.50	180.00	199.00	224.00	1174.00	1513.00	1616.40	470.40	156.60	414.40	616.00	456.40		
5	229.50	174.00	178.00	219.60	1184.00	1516.00	1680.40	432.40	151.20	487.30	573.10	462.60		
6	184.00	192.00	158.40	199.00	1157.90	1522.20	1712.40	416.80	147.60	505.50	567.90	449.20		
7	160.20	194.00	217.40	185.00	1162.50	1480.00	1709.20	421.60	157.50	515.90	545.80	445.60		
8	148.50	178.00	209.70	172.00	1164.80	1447.00	1670.80	400.00	220.70	573.10	552.30	454.00		
9	166.00	155.70	199.00	159.30	1119.60	1474.00	1578.00	388.00	283.60	556.20	557.50	421.60		
10	195.00	156.60	185.00	146.70	1107.00	1540.80	1519.10	352.00	241.60	450.40	562.70	443.20		
11	225.10	160.20	153.90	178.00	1084.00	1590.80	1438.00	282.40	229.50	396.40	562.70	467.80		
12	217.40	155.70	146.70	188.00	1169.40	1587.60	1270.80	268.00	219.60	407.20	561.40	475.60		
13	203.10	171.00	146.70	173.00	1336.00	1587.60	1066.00	277.60	238.30	419.20	565.30	474.30		
14	282.40	187.00	127.20	194.00	1306.00	1696.40	973.70	288.40	336.40	402.40	540.60	488.60		
15	308.80	177.00	130.40	261.40	1300.00	1722.00	915.80	300.40	370.00	418.00	526.30	467.80		
16	268.00	199.00	124.00	313.60	1250.00	1731.60	901.40	295.60	392.80	397.60	560.10	455.20		
17	259.20	163.00	130.40	392.80	1229.20	1734.80	888.00	250.40	406.00	371.20	597.80	382.00		
18	250.40	179.00	162.00	461.30	1360.00	1731.60	846.00	238.30	384.40	385.60	605.60	332.80		
19	228.40	172.00	156.60	456.40	1435.00	1722.00	814.50	209.70	342.40	433.60	603.00	275.20		
20	254.80	152.10	163.00	460.00	1471.00	1722.00	747.40	199.00	352.00	433.60	597.80	233.90		
21	219.60	142.40	163.00	476.90	1462.00	1702.80	691.40	175.00	396.40	444.40	586.10	246.00		
22	221.80	126.40	162.00	463.90	1534.60	1734.80	653.70	157.50	382.00	448.00	595.20	175.00		
23	158.40	116.00	145.80	463.90	1565.60	1747.60	630.30	152.10	395.20	438.40	587.40	161.10		
24	163.00	106.40	134.40	445.60	1510.00	1738.00	564.00	154.80	370.00	449.20	591.30	160.20		
25	180.00	116.00	127.20	402.40	1489.00	1734.80	515.90	159.30	385.60	454.00	577.00	160.20		
26	192.00	125.60	125.60	397.60	1495.00	1715.60	502.90	152.10	400.00	445.60	562.70	165.00		
27	188.00	123.20	157.50	409.60	1507.00	1718.80	513.30	147.60	409.60	479.50	566.60	159.30		
28	171.00	121.60	216.30	404.80	1510.00	1722.00	506.80	140.00	424.00	525.00	495.10	173.00		
29	130.40	142.40	266.90	437.20	1516.00	1725.20	504.20	128.00	436.00	535.40	469.10	163.00		
30	173.00	160.20	232.80	482.10	1513.00	1728.40	500.30	124.80	439.60	504.20		158.40		
31		190.00		522.40	1495.00		499.00		439.60	557.50		173.00		
Total	6221.20	4958.50	5262.80	9844.50	40394.50	49075.40	32362.10	8446.70	9619.10	14101.60	16508.10	10476.40	207270.90	CMSDAY
Mean	207.40	160.00	175.40	317.60	1303.00	1635.80	1043.90	281.60	310.30	454.90	569.20	337.90	566.30	CMS
Max	308.80	199.00	272.80	522.40	1565.60	1747.60	1712.40	501.60	439.60	573.10	618.60	488.60	1747.60	CMS
Min	130.40	106.40	124.00	146.70	657.60	1447.00	499.00	124.80	147.60	371.20	469.10	158.40	106.40	CMS
Runoff	537.51	428.41	454.71	850.56	3490.08	4240.11	2796.09	729.79	831.09	1218.38	1426.30	905.16	17908.21	MCM
Momentary Peak	1750.80 CMS. at 46.54 m. (MSL.) at 15.00 Hours , on Sep 23 , 2011													
Runoff Yield	22.64	Liters/Second/Square KM.			Momentary Peak Yield			69.982	Liters/Second/Square KM.					

WATER YEAR : 2011**NAN RIVER BASIN****Khlong Tron at Ban Wang Pla Kod , Uttaradit (N.72)**

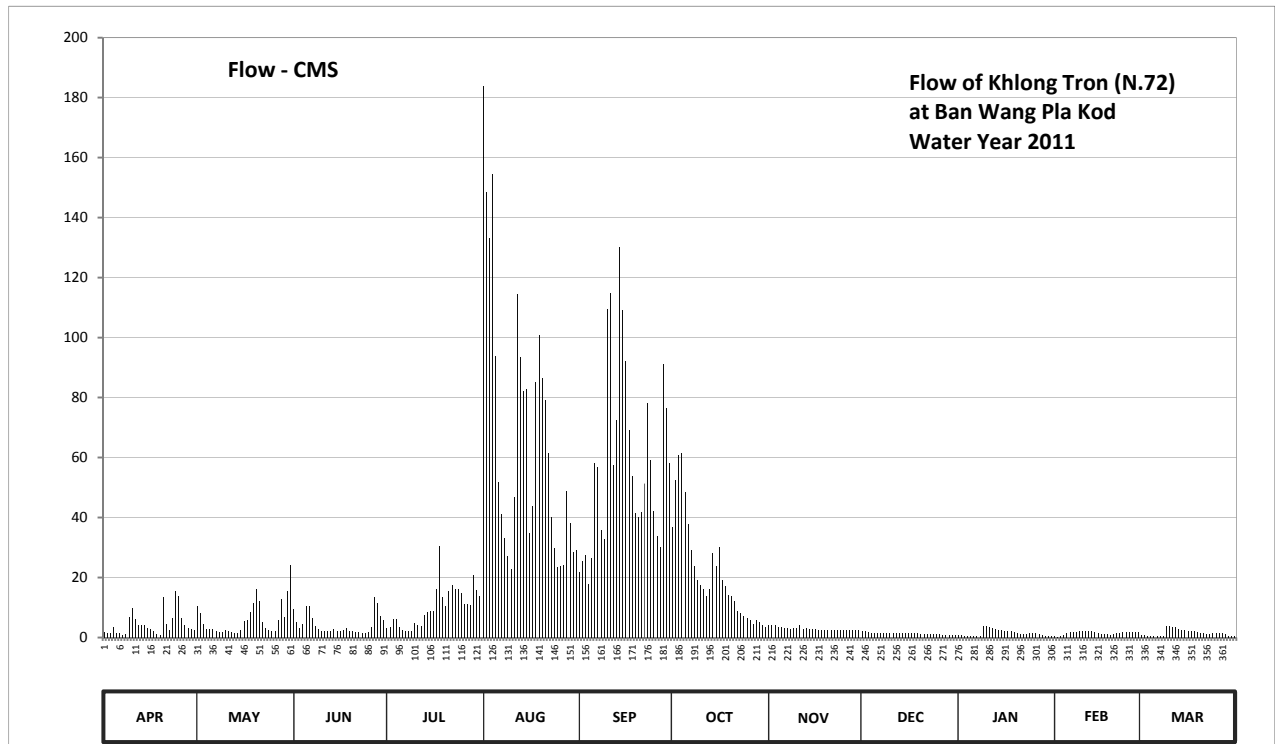
Lat 17 - 27 - 24 N Long 100 - 16 - 39 E

Location : on right bank at Ban Wang Pla Kod.

	Ban	Wang Pla Kod	Amphoe	Thong Saen Khan	Changwat	Uttaradit
Drainage Area	225	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+60.891	m. (MSL.)				
Bench Mark	B.M.- H.D.					
Location BM	On right bank near the gage site.				Elevation	+69.454 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2005 to date					
Rating Operation						
Period of Rating	2005 to date					
Rated by Flot	-					
Rated by Current Meter	2005 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +67.490 m. (MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	61.45	62.61	62.48	61.69	69.58	63.53	64.39	61.83	61.50	61.24	61.15	61.24	
2	61.40	62.35	61.94	61.74	68.50	63.76	65.15	61.82	61.50	61.24	61.14	61.24	
3	61.41	61.88	61.70	62.07	68.04	63.88	65.53	61.82	61.45	61.23	61.16	61.23	
4	61.74	61.63	61.87	62.11	68.69	63.24	65.56	61.72	61.40	61.23	61.28	61.23	
5	61.37	61.66	62.60	61.73	66.76	63.83	64.97	61.73	61.39	61.23	61.42	61.23	
6	61.42	61.63	62.59	61.57	65.13	65.42	64.44	61.69	61.39	61.22	61.46	61.22	
7	61.28	61.53	62.12	61.52	64.60	65.36	63.98	61.69	61.39	61.22	61.46	61.22	
8	61.33	61.48	61.77	61.49	64.19	64.34	63.65	61.67	61.39	61.22	61.48	61.22	
9	62.16	61.43	61.62	61.49	63.86	64.18	63.34	61.68	61.39	61.79	61.49	61.79	
10	62.54	61.57	61.56	61.89	63.58	67.28	63.21	61.70	61.39	61.76	61.50	61.77	
11	62.06	61.49	61.52	61.80	64.89	67.46	63.12	61.82	61.39	61.73	61.51	61.73	
12	61.82	61.45	61.52	61.79	67.45	65.38	62.91	61.65	61.38	61.71	61.51	61.72	
13	61.84	61.41	61.52	62.26	66.75	65.99	63.09	61.68	61.38	61.62	61.49	61.64	
14	61.83	61.40	61.62	62.39	66.36	67.95	63.92	61.67	61.38	61.59	61.45	61.59	
15	61.68	61.59	61.53	62.42	66.39	67.27	63.66	61.64	61.37	61.57	61.39	61.57	
16	61.62	62.01	61.50	62.44	64.29	66.70	64.04	61.62	61.37	61.55	61.35	61.55	
17	61.52	62.03	61.57	63.12	64.74	65.86	63.34	61.61	61.36	61.54	61.33	61.54	
18	61.34	62.39	61.71	64.06	66.47	65.21	63.20	61.61	61.36	61.53	61.30	61.53	
19	61.24	62.69	61.56	62.89	66.99	64.63	62.93	61.59	61.36	61.45	61.28	61.47	
20	62.89	63.12	61.49	62.61	66.51	64.55	62.91	61.59	61.35	61.39	61.30	61.41	
21	61.85	62.75	61.43	63.05	66.24	64.64	62.75	61.59	61.35	61.34	61.36	61.36	
22	61.61	61.96	61.44	63.22	65.56	65.10	62.42	61.59	61.35	61.32	61.41	61.32	
23	62.15	61.69	61.42	63.09	64.56	66.21	62.35	61.59	61.33	61.34	61.44	61.34	
24	63.05	61.58	61.41	63.09	64.01	65.46	62.22	61.59	61.32	61.36	61.46	61.36	
25	62.90	61.51	61.44	63.00	63.63	64.66	62.15	61.58	61.30	61.37	61.48	61.37	
26	62.12	61.53	61.73	62.68	63.65	64.23	62.04	61.58	61.29	61.37	61.48	61.37	
27	61.81	62.03	62.87	62.67	63.69	64.03	61.86	61.58	61.28	61.35	61.47	61.37	
28	61.68	62.82	62.69	62.62	64.98	66.67	62.02	61.58	61.28	61.27	61.47	61.29	
29	61.63	62.17	62.22	63.46	64.46	66.15	61.96	61.58	61.28	61.23	61.46	61.23	
30	61.59	63.05	62.03	63.07	63.95	65.41	61.83	61.58	61.27	61.19		61.19	
31		63.68		62.90	63.98		61.73		61.27	61.17		61.17	
Mean	61.81	62.00	61.82	62.45	65.56	65.28	63.25	61.66	61.36	61.40	61.40	61.40	
Max	63.05	63.68	62.87	64.06	69.58	67.95	65.56	61.83	61.50	61.79	61.51	61.79	69.58
Min	61.24	61.40	61.41	61.49	63.58	63.24	61.73	61.58	61.27	61.17	61.14	61.17	61.14
Annual Max Momentary Gage Height	69.89		m. (MSL.) ,			at 09.00 Hours , on Aug 1 , 2011							
Zero Gage at Bottom Elevation	60.89		m. (MSL.) ,		River Bed	60.56	m. (MSL)						
Left Bank Elevation	67.48		m. (MSL.) ,										
Right Bank Elevation	68.67		m. (MSL.) ,		Drainage Area	225	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.80	10.60	9.30	3.20	183.90	21.90	36.80	4.20	2.00	0.70	0.40	0.70		
2	1.50	8.10	5.00	3.60	148.40	25.40	52.40	4.20	2.00	0.70	0.30	0.70		
3	1.60	4.60	3.30	6.00	133.30	27.40	60.70	4.20	1.80	0.60	0.40	0.60		
4	3.60	2.70	4.50	6.30	154.70	17.80	61.30	3.40	1.50	0.60	0.90	0.60		
5	1.30	3.00	10.50	3.50	93.80	26.50	48.60	3.50	1.40	0.60	1.60	0.60		
6	1.60	2.70	10.40	2.40	51.90	58.20	37.80	3.20	1.40	0.60	1.80	0.60		
7	0.90	2.10	6.40	2.10	41.00	56.90	29.10	3.20	1.40	0.60	1.80	0.60		
8	1.20	1.90	3.80	2.00	33.00	35.90	23.80	3.00	1.40	0.60	1.90	0.60		
9	6.70	1.70	2.70	2.00	27.10	32.80	19.20	3.10	1.40	3.90	2.00	3.90		
10	9.90	2.40	2.30	4.70	22.70	109.40	17.40	3.30	1.40	3.70	2.00	3.80		
11	6.00	2.00	2.10	4.00	46.90	114.90	16.30	4.20	1.40	3.50	2.00	3.50		
12	4.20	1.80	2.10	3.90	114.50	57.40	13.80	2.90	1.40	3.30	2.00	3.40		
13	4.30	1.60	2.10	7.40	93.50	72.40	16.00	3.10	1.40	2.70	2.00	2.80		
14	4.20	1.50	2.70	8.40	82.10	130.30	28.10	3.00	1.40	2.50	1.80	2.50		
15	3.10	2.50	2.10	8.70	82.90	109.10	23.90	2.80	1.30	2.40	1.40	2.40		
16	2.70	5.60	2.00	8.90	34.90	92.00	30.20	2.70	1.30	2.30	1.20	2.30		
17	2.10	5.70	2.40	16.30	43.80	69.00	19.20	2.60	1.30	2.20	1.20	2.20		
18	1.20	8.40	3.30	30.60	85.20	53.60	17.30	2.60	1.30	2.10	1.00	2.10		
19	0.70	11.40	2.30	13.60	100.70	41.60	14.10	2.50	1.30	1.80	0.90	1.90		
20	13.60	16.30	2.00	10.60	86.40	40.00	13.80	2.50	1.20	1.40	1.00	1.60		
21	4.40	12.00	1.70	15.50	79.00	41.80	12.00	2.50	1.20	1.20	1.30	1.30		
22	2.60	5.20	1.70	17.60	61.30	51.30	8.70	2.50	1.20	1.10	1.60	1.10		
23	6.60	3.20	1.60	16.00	40.20	78.20	8.10	2.50	1.20	1.20	1.70	1.20		
24	15.50	2.40	1.60	16.00	29.70	59.10	7.20	2.50	1.10	1.30	1.80	1.30		
25	13.70	2.00	1.70	14.90	23.50	42.20	6.60	2.40	1.00	1.30	1.90	1.30		
26	6.40	2.10	3.50	11.30	23.80	33.80	5.80	2.40	1.00	1.30	1.90	1.30		
27	4.10	5.70	13.30	11.20	24.30	30.10	4.50	2.40	0.90	1.20	1.90	1.30		
28	3.10	12.70	11.40	10.70	48.80	91.10	5.70	2.40	0.90	0.90	1.90	1.00		
29	2.70	6.80	7.20	20.90	38.20	76.60	5.20	2.40	0.90	0.60	1.80	0.60		
30	2.50	15.50	5.70	15.70	28.60	58.00	4.20	2.40	0.90	0.50		0.50		
31		24.20		13.70	29.10		3.50		0.90	0.40		0.40		
Total	133.80	188.40	130.70	311.70	2087.20	1754.70	651.30	88.60	40.20	47.80	43.40	48.70	5526.50	CMSDAY
Mean	4.50	6.10	4.40	10.10	67.30	58.50	21.00	3.00	1.30	1.50	1.50	1.60	15.10	CMS
Max	15.50	24.20	13.30	30.60	183.90	130.30	61.30	4.20	2.00	3.90	2.00	3.90	183.90	CMS
Min	0.70	1.50	1.60	2.00	22.70	17.80	3.50	2.40	0.90	0.40	0.30	0.40	0.30	CMS
Runoff	11.56	16.28	11.29	26.93	180.33	151.61	56.27	7.66	3.47	4.13	3.75	4.21	477.49	MCM
Momentary Peak	194.46 CMS. at 69.89 m. (MSL.) at 09.00 Hours , on Aug 1 , 2011													
Runoff Yield	67.11	Liters/Second/Square KM.			Momentary Peak Yield			864,267	Liters/Second/Square KM.					

WATER YEAR : 2011

NAN RIVER BASIN

Khek River at Ban Tan Tawan , Phetchabun (N.73)

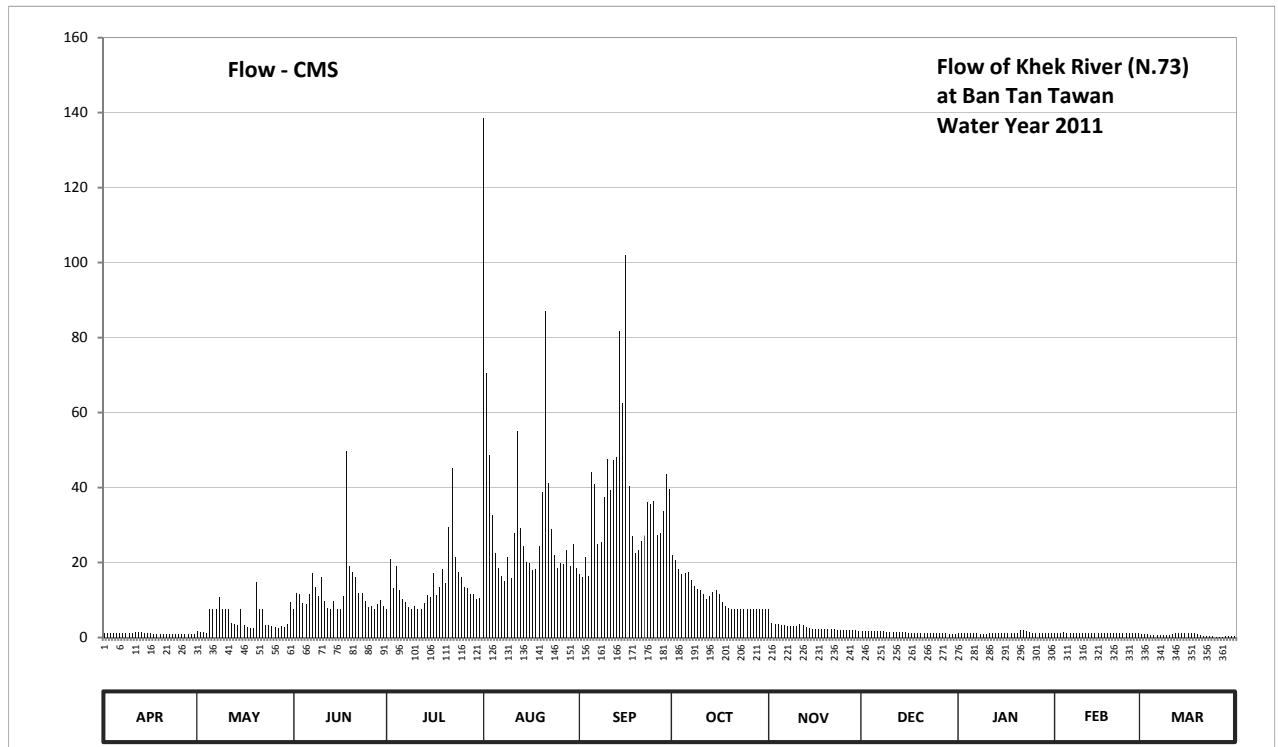
Lat 16 - 33 - 24 N Long 100 - 53 - 44 E

Location : on right bank at Ban Tan Tawan.

	Ban	Tan Tawan	Amphoe	Khao Kho	Changwat	Phetchabun
Drainage Area	213	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+684.529	m. (MSL.)				
Bench Mark	B.M.-	H.D.				
Location BM	On right bank near the gage site.				Elevation	+694.038 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2002 to date					
Rating Operation						
Period of Rating	2002 to date					
Rated by Flot	-					
Rated by Current Meter	2002 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +691.510 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	685.76	685.87	686.51	686.59	691.79	687.32	687.65	686.22	685.87	685.73	685.76	685.68	
2	685.78	685.82	686.95	687.58	689.59	687.27	687.56	686.20	685.86	685.73	685.77	685.68	
3	685.77	685.79	686.93	687.06	688.79	687.61	687.41	686.18	685.86	685.73	685.78	685.68	
4	685.78	685.74	686.75	687.46	688.11	687.29	687.32	686.16	685.85	685.73	685.80	685.65	
5	685.77	686.50	686.72	687.02	687.68	688.62	687.34	686.14	685.85	685.73	685.78	685.65	
6	685.77	686.51	686.94	686.84	687.43	688.46	687.37	686.12	685.85	685.73	685.77	685.64	
7	685.76	686.39	687.35	686.76	687.29	687.81	687.21	686.09	685.84	685.73	685.76	685.64	
8	685.76	686.88	687.08	686.65	687.19	687.83	687.09	686.10	685.84	685.72	685.75	685.64	
9	685.76	686.28	686.90	686.55	687.62	688.28	687.04	686.09	685.83	685.72	685.74	685.64	
10	685.77	686.55	687.27	686.67	687.25	688.75	687.01	686.10	685.82	685.72	685.74	685.63	
11	685.79	686.35	686.78	686.56	687.96	688.38	686.93	686.17	685.80	685.73	685.74	685.69	
12	685.80	686.19	686.62	686.51	689.03	688.74	686.84	686.13	685.79	685.73	685.74	685.73	
13	685.79	686.16	686.52	686.74	688.01	688.77	686.89	686.07	685.79	685.73	685.76	685.78	
14	685.78	686.13	686.78	686.91	687.77	689.99	686.97	686.03	685.79	685.73	685.76	685.78	
15	685.77	686.21	686.52	686.87	687.53	689.30	687.02	686.00	685.79	685.73	685.76	685.76	
16	685.75	686.15	686.49	687.35	687.51	690.65	686.93	685.99	685.78	685.73	685.76	685.74	
17	685.71	686.05	686.89	686.92	687.40	688.44	686.76	685.99	685.78	685.73	685.76	685.74	
18	685.69	686.02	688.83	687.08	687.41	687.91	686.68	685.98	685.78	685.73	685.76	685.73	
19	685.70	686.01	687.46	687.41	687.78	687.68	686.63	685.97	685.77	685.73	685.76	685.69	
20	685.69	687.17	687.36	687.15	688.35	687.72	686.59	685.99	685.77	685.76	685.76	685.64	
21	685.69	686.41	687.26	688.02	690.17	687.84	686.56	685.97	685.77	685.91	685.76	685.59	
22	685.68	686.21	686.95	688.67	688.48	687.92	686.52	685.96	685.76	685.89	685.75	685.58	
23	685.68	686.12	686.95	687.62	688.00	688.21	686.49	685.93	685.76	685.87	685.75	685.58	
24	685.68	686.12	686.78	687.37	687.64	688.19	686.46	685.92	685.75	685.81	685.74	685.57	
25	685.69	686.10	686.64	687.27	687.44	688.22	686.41	685.91	685.74	685.78	685.74	685.56	
26	685.70	686.04	686.67	687.08	687.51	687.93	686.37	685.90	685.74	685.76	685.73	685.54	
27	685.69	686.02	686.61	687.06	687.50	687.95	686.35	685.90	685.73	685.74	685.73	685.56	
28	685.68	686.08	686.71	686.94	687.72	688.14	686.31	685.89	685.73	685.74	685.73	685.58	
29	685.69	686.07	686.81	686.94	687.47	688.61	686.29	685.89	685.72	685.74	685.73	685.58	
30	685.69	686.18	686.68	686.83	687.81	688.39	686.27	685.88	685.71	685.74		685.59	
31		686.77		686.85	687.43		686.24		685.71	685.74		685.60	
Mean	685.73	686.22	686.92	687.08	688.02	688.27	686.82	686.03	685.79	685.75	685.75	685.65	
Max	685.80	687.17	688.83	688.67	691.79	690.65	687.65	686.22	685.87	685.91	685.80	685.78	691.79
Min	685.68	685.74	686.49	686.51	687.19	687.27	686.24	685.88	685.71	685.72	685.73	685.54	685.54
Annual Max Momentary Gage Height			692.76	m. (MSL.) ,		at 15.00 Hours , on Aug 1 , 2011							
Zero Gage at Bottom Elevation			684.53	m. (MSL.) ,		River Bed	685.49	m. (MSL)					
Left Bank Elevation			694.03	m. (MSL.) ,									
Right Bank Elevation			691.50	m. (MSL.) ,		Drainage Area	213	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.20	1.75	7.60	7.60	138.48	16.88	22.10	7.60	1.75	1.05	1.20	0.80	
2	1.30	1.50	11.75	20.88	70.52	16.18	20.56	3.80	1.70	1.05	1.25	0.80	
3	1.25	1.35	11.49	13.24	48.53	21.38	18.16	3.66	1.70	1.05	1.30	0.80	
4	1.30	1.10	9.25	18.96	32.70	16.46	16.88	3.52	1.65	1.05	1.40	0.65	
5	1.25	7.60	8.92	12.68	22.64	43.94	17.16	3.38	1.65	1.05	1.30	0.65	
6	1.25	7.60	11.62	10.32	18.48	40.78	17.58	3.24	1.65	1.05	1.25	0.60	
7	1.20	7.60	17.30	9.36	16.46	25.00	15.34	3.03	1.60	1.05	1.20	0.60	
8	1.20	10.84	13.52	8.15	15.06	25.40	13.66	3.10	1.60	1.00	1.15	0.60	
9	1.20	7.60	11.10	7.60	21.56	37.40	12.96	3.03	1.55	1.00	1.10	0.60	
10	1.25	7.60	16.18	8.37	15.90	47.45	12.54	3.10	1.50	1.00	1.10	0.55	
11	1.35	7.60	9.58	7.60	28.00	39.28	11.49	3.59	1.40	1.05	1.10	0.85	
12	1.40	3.73	7.82	7.60	55.01	47.18	10.32	3.31	1.35	1.05	1.10	1.05	
13	1.35	3.52	7.60	9.14	29.16	47.99	10.97	2.89	1.35	1.05	1.20	1.30	
14	1.30	3.31	9.58	11.23	24.26	81.72	12.01	2.61	1.35	1.05	1.20	1.30	
15	1.25	7.60	7.60	10.71	20.08	62.40	12.68	2.40	1.35	1.05	1.20	1.20	
16	1.15	3.45	7.60	17.30	19.76	102.00	11.49	2.35	1.30	1.05	1.20	1.10	
17	0.95	2.75	10.97	11.36	18.00	40.40	9.36	2.35	1.30	1.05	1.20	1.10	
18	0.85	2.54	49.61	13.52	18.16	27.00	8.48	2.30	1.30	1.05	1.20	1.05	
19	0.90	2.47	18.96	18.16	24.44	22.64	7.93	2.25	1.25	1.05	1.20	0.85	
20	0.85	14.78	17.44	14.50	38.71	23.36	7.60	2.35	1.25	1.20	1.20	0.60	
21	0.85	7.60	16.04	29.51	87.10	25.60	7.60	2.25	1.25	1.95	1.20	0.36	
22	0.80	7.60	11.75	45.29	41.15	27.20	7.60	2.20	1.20	1.85	1.15	0.32	
23	0.80	3.24	11.75	21.56	28.80	36.09	7.60	2.05	1.20	1.75	1.15	0.32	
24	0.80	3.24	9.58	17.58	21.92	35.54	7.60	2.00	1.15	1.45	1.10	0.28	
25	0.85	3.10	8.04	16.18	18.64	36.27	7.60	1.95	1.10	1.30	1.10	0.24	
26	0.90	2.68	8.37	13.52	19.76	27.40	7.60	1.90	1.10	1.20	1.05	0.16	
27	0.85	2.54	7.71	13.24	19.60	27.80	7.60	1.90	1.05	1.10	1.05	0.24	
28	0.80	2.96	8.81	11.62	23.36	33.77	7.60	1.85	1.05	1.10	1.05	0.32	
29	0.85	2.89	9.93	11.62	19.12	43.67	7.60	1.85	1.00	1.10	1.05	0.32	
30	0.85	3.66	8.48	10.19	25.00	39.46	7.60	1.80	0.95	1.10		0.36	
31		9.47		10.45	18.48		7.60		0.95	1.10		0.40	
Total	32.10	155.27	365.95	439.04	998.84	1117.64	352.87	83.61	41.55	36.00	33.95	20.37	3677.19 CMSDAY
Mean	1.07	5.01	12.20	14.16	32.22	37.25	11.38	2.79	1.34	1.16	1.17	0.66	10.05 CMS
Max	1.40	14.78	49.61	45.29	138.48	102.00	22.10	7.60	1.75	1.95	1.40	1.30	138.48 CMS
Min	0.80	1.10	7.60	7.60	15.06	16.18	7.60	1.80	0.95	1.00	1.05	0.16	0.16 CMS
Runoff	2.77	13.42	31.62	37.93	86.30	96.56	30.49	7.22	3.59	3.11	2.93	1.76	317.71 MCM
Momentary Peak 169.88 CMS. at 692.76 m. (MSL.) at 15.00 Hours , on Aug 1 , 2011													
Runoff Yield		47.17	Liters/Second/Square KM.		Momentary Peak Yield		797.559	Liters/Second/Square KM.					

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Bang Krathum , Phitsanulok (N.74)**

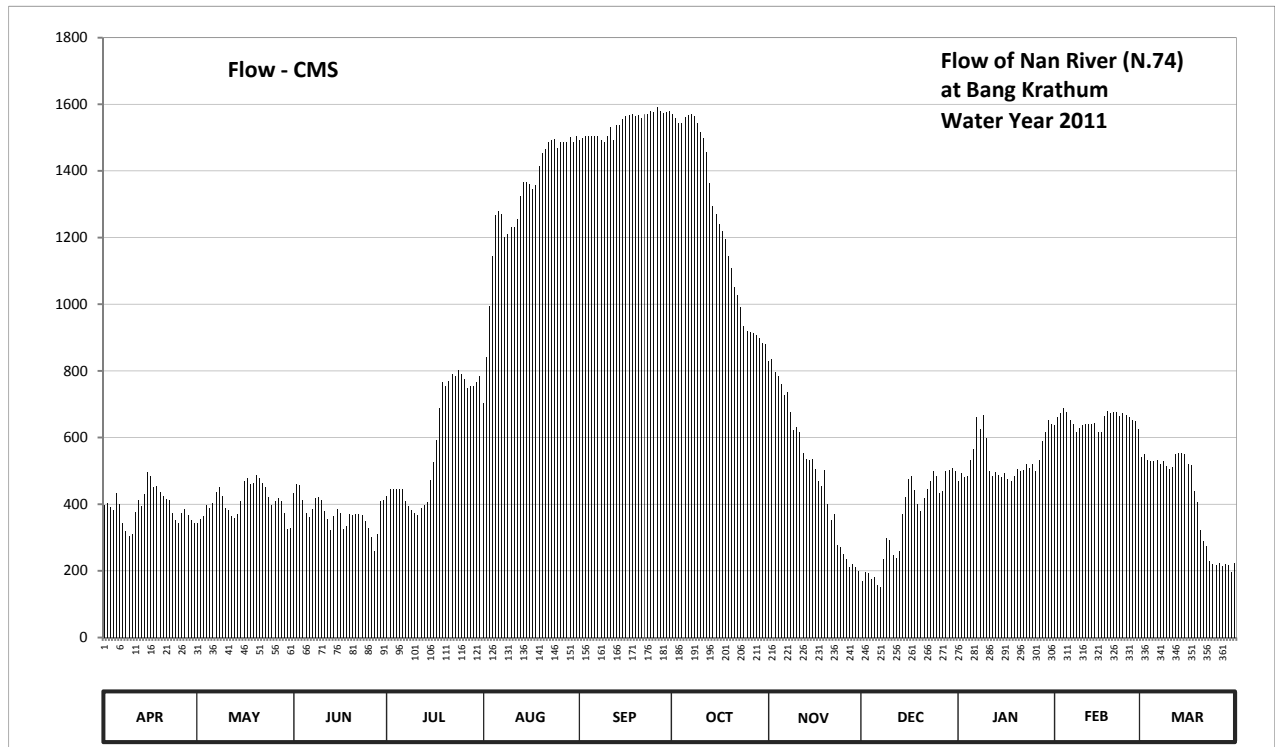
Lat 16 - 34 - 38 N Long 100 - 14 - 33 E

Location : on left bank at Bang Krathum.

	Ban	-	Amphoe	Bang Krathum	Changwat	Phitsanulok
Drainage Area	25,489	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+29.360	m. (MSL.)				
Bench Mark	B.M.- H.D.					
Location BM	On left bank near the gage site.				Elevation	+44.315 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2001 to date					
Rating Operation						
Period of Rating	2001 to date					
Rated by Flot	-					
Rated by Current Meter	2001 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.11	32.73	33.37	33.30	35.22	39.65	40.02	36.01	31.29	33.62	34.78	34.13	
2	33.15	32.82	33.56	33.46	36.09	39.67	39.96	36.05	31.54	33.79	34.94	34.20	
3	33.06	32.88	33.53	33.46	36.98	39.70	39.90	35.82	31.53	33.70	35.02	34.07	
4	33.00	33.11	33.22	33.46	37.81	39.70	39.90	35.76	31.37	33.74	35.11	34.05	
5	33.36	33.05	32.95	33.46	38.49	39.71	39.98	35.59	31.41	34.07	35.04	34.04	
6	33.13	33.16	32.86	33.46	38.56	39.71	40.01	35.39	31.18	34.30	34.87	34.07	
7	32.73	33.40	33.02	33.20	38.51	39.71	40.02	35.43	31.14	34.93	34.81	33.99	
8	32.54	33.49	33.26	33.08	38.13	39.65	40.00	35.05	31.89	34.70	34.65	34.04	
9	32.43	33.31	33.29	33.00	38.18	39.61	39.90	34.68	32.39	34.99	34.73	33.95	
10	32.48	33.05	33.21	32.93	38.29	39.71	39.77	34.74	32.34	34.52	34.77	33.88	
11	32.96	33.01	32.99	32.89	38.29	39.84	39.68	34.65	31.97	33.83	34.81	33.93	
12	33.22	32.88	32.82	33.05	38.43	39.65	39.46	34.21	31.90	33.72	34.79	34.19	
13	33.08	32.84	32.58	33.11	38.80	39.87	39.00	34.10	32.09	33.82	34.81	34.22	
14	33.34	32.92	32.87	33.17	39.02	39.87	38.65	34.06	32.92	33.75	34.82	34.21	
15	33.82	33.20	33.02	33.65	39.01	39.95	38.51	34.09	33.28	33.71	34.65	34.20	
16	33.73	33.62	32.93	34.03	38.98	39.99	38.34	33.88	33.66	33.80	34.65	33.99	
17	33.50	33.68	32.59	34.47	38.91	40.01	38.24	33.63	33.72	33.67	34.96	33.96	
18	33.51	33.55	32.67	35.12	38.97	40.02	38.10	33.52	33.43	33.63	35.07	33.42	
19	33.38	33.57	32.91	35.64	39.26	40.00	37.81	33.86	33.14	33.74	35.02	33.17	
20	33.30	33.76	32.90	35.56	39.45	40.01	37.61	33.14	32.99	33.88	35.05	32.58	
21	33.24	33.69	32.92	35.66	39.51	39.97	37.29	32.80	33.26	33.84	35.04	32.31	
22	33.22	33.57	32.92	35.79	39.61	40.02	37.16	32.92	33.45	33.86	34.97	32.20	
23	32.94	33.49	32.89	35.76	39.64	40.03	36.96	32.23	33.63	33.99	35.01	31.83	
24	32.78	33.29	32.77	35.86	39.66	40.07	36.63	32.19	33.83	33.91	34.99	31.76	
25	32.73	33.12	32.61	35.78	39.52	40.05	36.54	32.00	33.73	33.99	34.93	31.72	
26	32.95	33.20	32.40	35.70	39.61	40.12	36.53	31.89	33.36	33.83	34.88	31.79	
27	33.02	33.27	32.07	35.51	39.61	40.07	36.51	31.67	33.41	34.08	34.85	31.70	
28	32.90	33.19	32.47	35.57	39.61	40.04	36.47	31.75	33.83	34.46	34.70	31.75	
29	32.80	32.94	33.19	35.56	39.69	40.05	36.42	31.68	33.86	34.64	34.24	31.72	
30	32.72	32.59	33.22	35.64	39.62	40.07	36.34	31.57	33.91	34.87		31.56	
31		32.62		35.76	39.70		36.31		33.84	34.79		31.77	
Mean	33.07	33.19	32.93	34.39	38.75	39.88	38.32	33.81	32.75	34.07	34.86	33.17	
Max	33.82	33.76	33.56	35.86	39.70	40.12	40.02	36.05	33.91	34.99	35.11	34.22	40.12
Min	32.43	32.59	32.07	32.89	35.22	39.61	36.31	31.57	31.14	33.62	34.24	31.56	31.14
Annual Max Momentary Gage Height	40.12		m. (MSL.) ,			at 06.00 Hours , on Sep 26 , 2011							
Zero Gage at Bottom Elevation	29.36		m. (MSL.) ,			River Bed	27.84	m. (MSL)					
Left Bank Elevation	41.78		m. (MSL.) ,										
Right Bank Elevation	42.77		m. (MSL.) ,			Drainage Area	25489	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	397.40	344.20	433.80	424.00	703.00	1494.00	1570.20	827.70	167.90	468.80	637.00	540.20		
2	403.00	356.80	460.40	446.40	841.30	1498.00	1557.60	834.50	195.40	492.60	661.00	550.00		
3	390.40	365.20	456.20	446.40	994.40	1504.00	1545.00	795.40	194.30	480.00	673.00	531.80		
4	382.00	397.40	412.80	446.40	1143.80	1504.00	1545.00	785.60	176.70	485.60	686.50	529.00		
5	432.40	389.00	375.00	446.40	1266.20	1506.00	1561.80	758.50	181.10	531.80	676.00	527.60		
6	400.20	404.40	362.40	446.40	1278.80	1506.00	1568.10	728.50	155.80	565.00	650.50	531.80		
7	344.20	438.00	384.80	410.00	1269.80	1506.00	1570.20	734.50	151.40	659.50	641.50	520.60		
8	318.20	450.60	418.40	393.20	1201.40	1494.00	1566.00	677.50	236.80	625.00	617.50	527.60		
9	303.90	425.40	422.60	382.00	1210.40	1486.00	1545.00	622.00	298.70	668.50	629.50	515.00		
10	310.40	389.00	411.40	372.20	1230.20	1506.00	1518.00	631.00	292.20	598.00	635.50	505.20		
11	376.40	383.40	380.60	366.60	1230.20	1532.40	1500.00	617.50	246.40	498.20	641.50	512.20		
12	412.80	365.20	356.80	389.00	1255.40	1494.00	1456.00	551.50	238.00	482.80	638.50	548.60		
13	393.20	359.60	323.40	397.40	1324.00	1538.70	1364.00	536.00	260.80	496.80	641.50	553.00		
14	429.60	370.80	363.80	405.80	1368.00	1538.70	1295.50	530.40	370.80	487.00	643.00	551.50		
15	496.80	410.00	384.80	473.00	1366.00	1555.50	1269.80	534.60	421.20	481.40	617.50	550.00		
16	484.20	468.80	372.20	526.20	1360.00	1563.90	1239.20	505.20	474.40	494.00	617.50	520.60		
17	452.00	477.20	324.70	590.50	1346.00	1568.10	1221.20	470.20	482.80	475.80	664.00	516.40		
18	453.40	459.00	335.80	688.00	1358.00	1570.20	1196.00	454.80	442.20	470.20	680.50	440.80		
19	435.20	461.80	369.40	766.40	1416.00	1566.00	1143.80	502.40	401.60	485.60	673.00	405.80		
20	424.00	488.40	368.00	754.00	1454.00	1568.10	1107.80	401.60	380.60	505.20	677.50	323.40		
21	415.60	478.60	370.80	769.60	1466.00	1559.70	1050.20	354.00	418.40	499.60	676.00	288.30		
22	412.80	461.80	370.80	790.40	1486.00	1570.20	1026.80	370.80	445.00	502.40	665.50	274.00		
23	373.60	450.60	366.60	785.60	1492.00	1572.30	990.80	277.90	470.20	520.60	671.50	229.60		
24	351.20	422.60	349.80	802.20	1496.00	1580.70	933.10	272.80	498.20	509.40	668.50	221.20		
25	344.20	398.80	327.40	788.80	1468.00	1576.50	917.80	250.00	484.20	520.60	659.50	216.40		
26	375.00	410.00	300.00	776.00	1486.00	1591.20	916.10	236.80	432.40	498.20	652.00	224.80		
27	384.80	419.80	258.40	746.50	1486.00	1580.70	912.70	210.40	439.40	533.20	647.50	214.00		
28	368.00	408.60	309.10	755.50	1486.00	1574.40	905.90	220.00	498.20	589.00	625.00	220.00		
29	354.00	373.60	408.60	754.00	1502.00	1576.50	897.40	211.60	502.40	616.00	556.00	216.40		
30	342.80	324.70	412.80	766.40	1488.00	1580.70	883.80	198.70	509.40	650.50		197.60		
31		328.80		785.60	1504.00		878.70		499.60	638.50		222.40		
Total	11761.70	12682.10	11191.60	18090.90	40976.90	46262.50	38653.50	15102.40	10966.50	16529.80	18824.00	12725.80	253767.70	CMSDAY
Mean	392.10	409.10	373.10	583.60	1321.80	1542.10	1246.90	503.40	353.80	533.20	649.10	410.50	693.40	CMS
Max	496.80	488.40	460.40	802.20	1504.00	1591.20	1570.20	834.50	509.40	668.50	686.50	553.00	1591.20	CMS
Min	303.90	324.70	258.40	366.60	703.00	1486.00	878.70	198.70	151.40	468.80	556.00	197.60	151.40	CMS
Runoff	1016.21	1095.73	966.95	1563.05	3540.40	3997.08	3339.66	1304.85	947.51	1428.17	1626.39	1099.51	21925.53	MCM
Momentary Peak	1591.20 CMS. at 40.12 m. (MSL.) at 06.00 Hours , on Sep 26 , 2011													
Runoff Yield	27.20	Liters/Second/Square KM.			Momentary Peak Yield			62.427	Liters/Second/Square KM.					

WATER YEAR : 2011

NAN RIVER BASIN

Nam Wa at Tha Li Bridge , Nan (N.75)

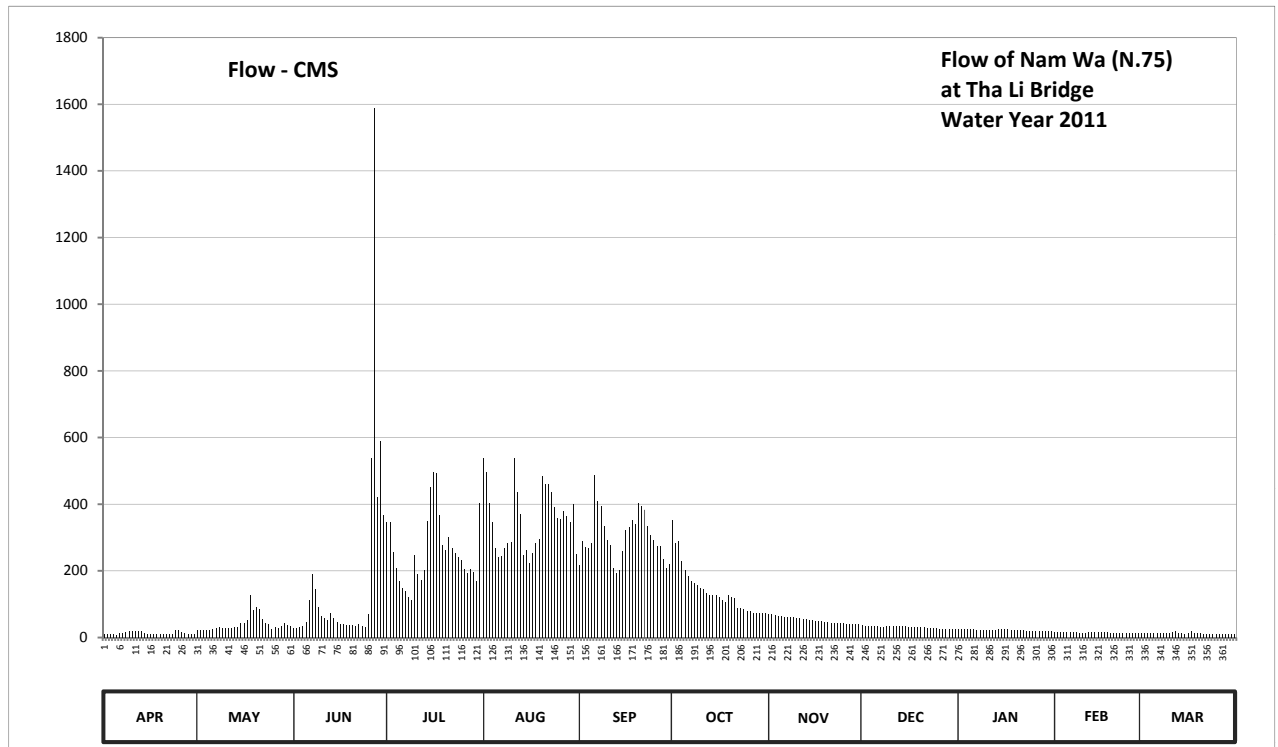
Lat 18 - 33 - 00 N Long 100 - 48 - 41 E

Location : on left bank at the bridge.

	Ban	Tha Li Bridge	Amphoe	Wiang Sa	Changwat	Nan
Drainage Area	2,170	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+182.805	m. (MSL.)				
Bench Mark	B.M.-	H.D.				
Location BM	On left bank at the approach of the bridge.				Elevation	+196.616 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2006 to date					
Rating Operation						
Period of Rating	2006 to date					
Rated by Flot	-					
Rated by Current Meter	2006 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	184.15	184.39	184.53	188.07	189.32	186.99	188.10	185.24	184.67	184.46	184.31	184.22	
2	184.14	184.43	184.51	188.06	189.08	187.61	187.57	185.22	184.66	184.45	184.31	184.21	
3	184.14	184.40	184.56	187.33	188.47	187.45	187.61	185.18	184.65	184.44	184.31	184.20	
4	184.13	184.39	184.66	186.89	188.06	187.43	187.08	185.13	184.65	184.44	184.31	184.20	
5	184.02	184.40	184.84	186.48	187.42	187.55	186.83	185.14	184.64	184.44	184.31	184.19	
6	184.19	184.46	185.84	186.26	187.19	189.02	186.64	185.08	184.63	184.44	184.31	184.19	
7	184.19	184.52	186.69	186.13	187.23	188.52	186.47	185.07	184.60	184.43	184.31	184.19	
8	184.27	184.56	186.20	185.93	187.43	188.40	186.43	185.07	184.61	184.42	184.28	184.19	
9	184.34	184.53	185.53	185.84	187.55	187.97	186.35	185.07	184.62	184.42	184.25	184.20	
10	184.37	184.52	185.13	187.25	187.58	187.63	186.24	185.05	184.63	184.42	184.24	184.23	
11	184.37	184.52	185.03	186.69	189.33	187.50	186.20	185.02	184.64	184.41	184.23	184.31	
12	184.36	184.52	184.92	186.51	188.69	186.89	186.06	185.01	184.64	184.41	184.27	184.34	
13	184.35	184.57	185.28	186.83	188.24	186.72	186.02	184.97	184.64	184.42	184.30	184.25	
14	184.23	184.60	185.05	188.08	187.24	186.82	186.00	184.95	184.63	184.44	184.31	184.19	
15	184.18	184.78	184.84	188.79	187.38	187.36	186.00	184.93	184.62	184.45	184.31	184.18	
16	184.15	184.79	184.72	189.07	187.03	187.88	185.92	184.91	184.61	184.46	184.29	184.26	
17	184.14	184.92	184.72	189.06	187.29	187.94	185.82	184.91	184.60	184.46	184.28	184.37	
18	184.13	185.99	184.70	188.21	187.57	188.11	185.73	184.89	184.58	184.43	184.27	184.25	
19	184.12	185.42	184.69	187.50	187.67	188.02	185.99	184.84	184.57	184.41	184.26	184.21	
20	184.12	185.53	184.67	187.38	188.99	188.48	185.95	184.82	184.56	184.40	184.25	184.20	
21	184.11	185.43	184.65	187.72	188.86	188.40	185.89	184.81	184.56	184.40	184.24	184.18	
22	184.11	185.00	184.74	187.43	188.86	188.33	185.51	184.81	184.55	184.38	184.24	184.17	
23	184.12	184.79	184.64	187.30	188.70	187.97	185.50	184.79	184.53	184.35	184.24	184.17	
24	184.43	184.74	184.59	187.18	188.39	187.75	185.45	184.78	184.52	184.35	184.24	184.17	
25	184.42	184.50	185.22	187.12	188.16	187.64	185.37	184.77	184.51	184.34	184.23	184.16	
26	184.31	184.58	189.32	186.86	188.14	187.49	185.35	184.76	184.50	184.34	184.23	184.16	
27	184.19	184.55	193.35	186.72	188.30	187.48	185.30	184.74	184.49	184.34	184.23	184.16	
28	184.14	184.63	188.60	186.86	188.20	187.13	185.28	184.74	184.49	184.34	184.23	184.16	
29	184.14	184.78	189.61	186.77	188.06	186.88	185.27	184.73	184.48	184.33	184.23	184.16	
30	184.14	184.69	188.22	186.47	188.45	187.00	185.27	184.73	184.48	184.32	184.22	184.16	
31		184.62		188.48	187.28		185.26		184.47	184.32		184.16	
Mean	184.21	184.73	185.80	187.27	188.07	187.68	186.08	184.94	184.58	184.40	184.27	184.21	
Max	184.43	185.99	193.35	189.07	189.33	189.02	188.10	185.24	184.67	184.46	184.31	184.37	193.35
Min	184.02	184.39	184.51	185.84	187.03	186.72	185.26	184.73	184.47	184.32	184.23	184.16	184.02
Annual Max Momentary Gage Height	195.01		m. (MSL.) ,		at 10.00 Hours , on Jun 27 , 2011								
Zero Gage at Bottom Elevation	182.80		m. (MSL.) ,		River Bed	180.93		m. (MSL)					
Left Bank Elevation	196.56		m. (MSL.) ,										
Right Bank Elevation	196.48		m. (MSL.) ,		Drainage Area	2170	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.50	21.50	28.50	347.45	536.80	219.00	351.50	70.80	36.20	25.00	17.50	13.00	
2	10.20	23.50	27.50	346.10	497.20	289.25	284.55	69.40	35.60	24.50	17.50	12.50	
3	10.20	22.00	30.00	256.95	403.15	270.75	289.25	66.80	35.00	24.00	17.50	12.00	
4	9.90	21.50	35.60	209.00	346.10	268.45	228.80	63.80	35.00	24.00	17.50	12.00	
5	6.60	22.00	46.40	169.20	267.30	282.25	203.00	64.40	34.40	24.00	17.50	11.70	
6	11.70	25.00	113.40	149.40	240.90	487.30	184.00	60.80	33.80	24.00	17.50	11.70	
7	11.70	28.00	189.00	138.05	245.45	410.40	168.30	60.20	32.00	23.50	17.50	11.70	
8	15.50	30.00	144.00	121.05	268.45	393.00	164.70	60.20	32.60	23.00	16.00	11.70	
9	19.00	28.50	91.10	113.40	282.25	334.25	157.50	60.20	33.20	23.00	14.50	12.00	
10	20.50	28.00	63.80	247.75	285.70	291.75	147.60	59.00	33.80	23.00	14.00	13.50	
11	20.50	28.00	57.80	189.00	538.45	276.50	144.00	57.20	34.40	22.50	13.50	17.50	
12	20.00	28.00	51.20	171.90	435.50	209.00	132.10	56.60	34.40	22.50	15.50	19.00	
13	19.50	30.50	73.60	203.00	370.60	192.00	128.70	54.20	34.40	23.00	17.00	14.50	
14	13.50	32.00	59.00	348.80	246.60	202.00	127.00	53.00	33.80	24.00	17.50	11.70	
15	11.40	42.80	46.40	450.50	262.70	260.40	127.00	51.80	33.20	24.50	17.50	11.40	
16	10.50	43.40	39.20	495.55	223.30	323.00	120.20	50.60	32.60	25.00	16.50	15.00	
17	10.20	51.20	39.20	493.90	252.35	330.50	111.70	50.60	32.00	25.00	16.00	20.50	
18	9.90	126.15	38.00	366.40	284.55	352.85	105.10	49.40	31.00	23.50	15.50	14.50	
19	9.60	83.40	37.40	276.50	296.75	340.70	126.15	46.40	30.50	22.50	15.00	12.50	
20	9.60	91.10	36.20	262.70	482.40	404.60	122.75	45.20	30.00	22.00	14.50	12.00	
21	9.30	84.10	35.00	303.00	461.60	393.00	117.65	44.60	30.00	22.00	14.00	11.40	
22	9.30	56.00	40.40	268.45	461.60	383.20	89.70	44.60	29.50	21.00	14.00	11.10	
23	9.60	43.40	34.40	253.50	437.00	334.25	89.00	43.40	28.50	19.50	14.00	11.10	
24	23.50	40.40	31.50	239.80	391.60	306.75	85.50	42.80	28.00	19.50	14.00	11.10	
25	23.00	27.00	69.40	233.20	359.60	293.00	79.90	42.20	27.50	19.00	13.50	10.80	
26	17.50	31.00	536.80	206.00	356.90	275.35	78.50	41.60	27.00	19.00	13.50	10.80	
27	11.70	29.50	1587.75	192.00	379.00	274.20	75.00	40.40	26.50	19.00	13.50	10.80	
28	10.20	33.80	422.00	206.00	365.00	234.30	73.60	40.40	26.50	19.00	13.50	10.80	
29	10.20	42.80	588.85	197.00	346.10	208.00	72.90	39.80	26.00	18.50	13.50	10.80	
30	10.20	37.40	367.80	168.30	400.25	220.00	72.90	39.80	26.00	18.00		10.80	
31		33.20		404.60	251.20		72.20		25.50	18.00		10.80	
Total	395.00	1265.15	4961.20	8028.45	10976.35	9060.00	4330.75	1570.20	968.90	685.00	449.00	390.70	43080.70 CMSDAY
Mean	13.17	40.81	165.37	258.98	354.08	302.00	139.70	52.34	31.25	22.10	15.48	12.60	117.71 CMS
Max	23.50	126.15	1587.75	495.55	538.45	487.30	351.50	70.80	36.20	25.00	17.50	20.50	1587.75 CMS
Min	6.60	21.50	27.50	113.40	223.30	192.00	72.20	39.80	25.50	18.00	13.50	10.80	6.60 CMS
Runoff	34.13	109.31	428.65	693.66	948.36	782.78	374.18	135.67	83.71	59.18	38.79	33.76	3722.17 MCM
Momentary Peak	2168.75 CMS. at 195.01 m. (MSL.) at 10.00 Hours , on Jun 27 , 2011												
Runoff Yield	54.24	Liters/Second/Square KM.			Momentary Peak Yield			999.424	Liters/Second/Square KM.				

WATER YEAR : 2011**NAN RIVER BASIN****Khlong Huai Chan at Ban Nong Khon, Nakhon Sawan (N.76)**

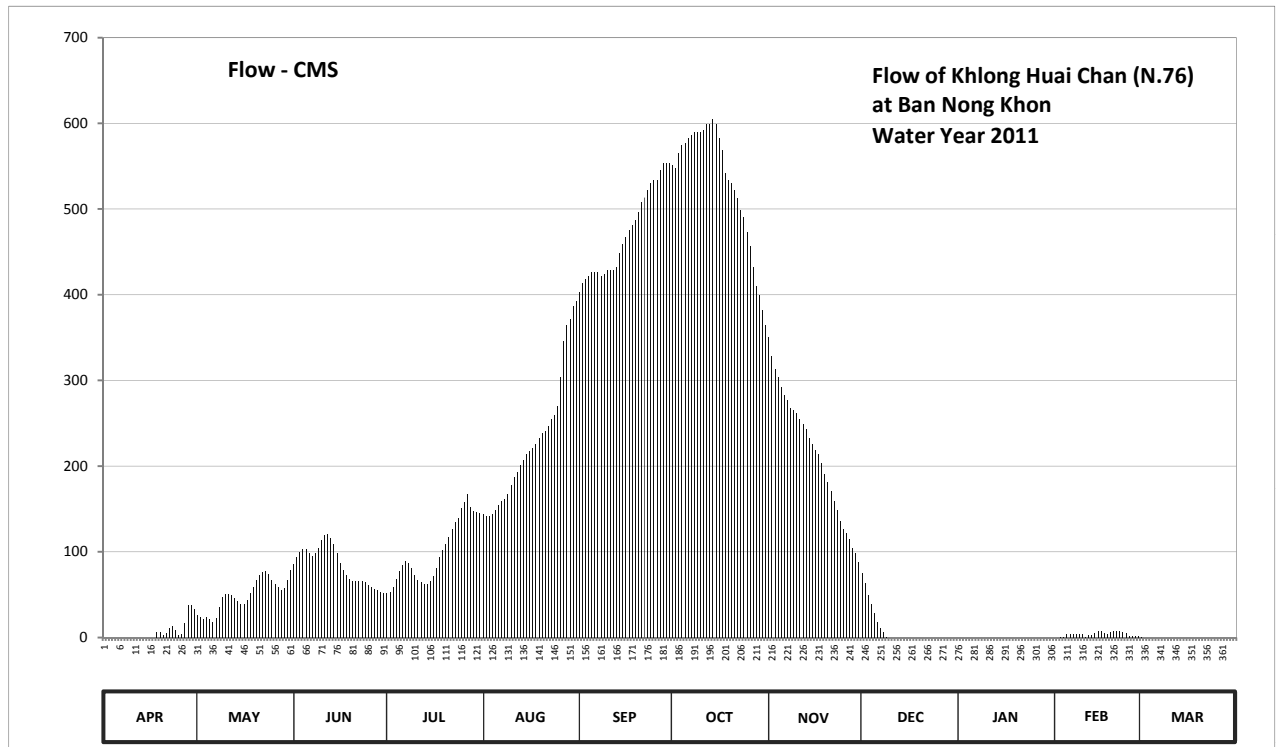
Lat 15 - 55 - 38 N Long 100 - 13 - 44 E

Location : on right bank at Ban Nong Khon

	Ban	Nong Khon	Amphoe	Chum Saeng	Changwat	Nakhon Sawan
Drainage Area	-	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge				Elevation	+27.770 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +27.720 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.46	24.11	25.71	24.96	26.44	27.76	28.29	27.55	25.53	22.70	22.99	23.02	
2	22.37	24.04	25.84	25.00	26.42	27.80	28.28	27.46	25.27	22.66	23.00	22.87	
3	22.92	23.96	25.93	25.15	26.42	27.82	28.34	27.39	24.89	22.65	23.02	22.78	
4	22.88	24.04	25.98	25.38	26.44	27.83	28.37	27.35	24.52	22.54	23.05	22.68	
5	22.33	23.95	25.98	25.56	26.48	27.85	28.38	27.30	24.17	22.46	23.18	22.61	
6	22.05	23.84	25.91	25.69	26.53	27.85	28.40	27.26	23.84	22.57	23.20	22.56	
7	21.89	23.99	25.86	25.76	26.57	27.85	28.41	27.23	23.56	22.73	23.21	22.58	
8	21.74	24.42	25.91	25.73	26.59	27.83	28.42	27.19	23.32	22.64	23.18	22.65	
9	21.80	24.79	26.00	25.63	26.63	27.84	28.42	27.18	23.02	22.64	23.18	22.64	
10	21.91	24.92	26.11	25.48	26.70	27.86	28.42	27.16	22.94	22.60	23.19	22.59	
11	21.97	24.92	26.18	25.36	26.76	27.86	28.43	27.13	22.77	22.56	23.05	22.62	
12	21.96	24.89	26.19	25.29	26.80	27.86	28.45	27.10	22.65	22.42	23.12	22.80	
13	21.97	24.78	26.14	25.23	26.85	27.87	28.45	27.07	22.49	22.19	23.16	22.81	
14	22.03	24.63	26.05	25.23	26.88	27.93	28.47	27.02	22.29	22.07	23.24	22.80	
15	22.06	24.53	25.90	25.32	26.92	27.97	28.45	26.99	22.25	22.08	23.39	22.76	
16	22.28	24.55	25.74	25.46	26.94	28.00	28.40	26.95	22.19	22.10	23.37	22.81	
17	22.92	24.68	25.60	25.64	26.96	28.03	28.35	26.92	22.16	22.17	23.28	22.88	
18	23.32	24.95	25.48	25.84	26.99	28.05	28.26	26.86	22.47	22.27	23.22	22.90	
19	23.33	25.16	25.38	25.95	27.02	28.07	28.23	26.78	22.58	22.24	23.30	22.53	
20	23.16	25.34	25.32	26.05	27.05	28.10	28.22	26.72	22.65	22.29	23.39	22.19	
21	23.26	25.48	25.31	26.15	27.06	28.14	28.19	26.65	22.45	22.45	23.38	22.03	
22	23.58	25.55	25.33	26.26	27.09	28.16	28.16	26.57	22.34	22.64	23.36	21.73	
23	23.68	25.56	25.33	26.35	27.13	28.19	28.11	26.48	22.36	22.76	23.33	21.41	
24	23.43	25.50	25.28	26.40	27.15	28.22	28.08	26.36	22.39	22.84	23.23	21.30	
25	23.17	25.36	25.22	26.50	27.20	28.23	28.02	26.26	22.40	22.88	23.10	21.24	
26	23.20	25.24	25.15	26.56	27.35	28.23	27.96	26.21	22.42	22.79	23.09	21.19	
27	23.79	25.15	25.10	26.63	27.53	28.27	27.87	26.13	22.39	22.81	23.08	21.14	
28	24.49	25.07	25.05	26.51	27.61	28.30	27.79	25.99	22.37	22.84	23.06	21.17	
29	24.51	25.13	25.00	26.47	27.64	28.30	27.75	25.91	22.39	22.80	23.04	21.13	
30	24.35	25.36	24.97	26.46	27.70	28.30	27.68	25.75	22.48	22.86		21.12	
31		25.59		26.45	27.72		27.61		22.61	22.92		21.11	
Mean	22.83	24.82	25.63	25.82	26.95	28.01	28.21	26.83	22.97	22.55	23.19	22.21	
Max	24.51	25.59	26.19	26.63	27.72	28.30	28.47	27.55	25.53	22.92	23.39	23.02	28.47
Min	21.74	23.84	24.97	24.96	26.42	27.76	27.61	25.75	22.16	22.07	22.99	21.11	21.11
Annual Max Momentary Gage Height	28.48		m. (MSL.) ,			at 12.00 Hours , on Oct 14, 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	19.93	m. (MSL)						
Left Bank Elevation		27.71		m. (MSL.) ,									
Right Bank Elevation		27.73		m. (MSL.) ,	Drainage Area		Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	26.30	85.60	51.80	143.80	402.60	551.10	350.00	75.50	0.00	0.00	0.40		
2	0.00	24.20	93.80	53.00	141.40	413.00	548.20	328.80	63.80	0.00	0.00	0.00		
3	0.00	21.80	100.10	59.00	141.40	418.40	565.60	312.70	49.70	0.00	0.40	0.00		
4	0.00	24.20	103.60	68.20	143.80	421.10	574.30	303.50	38.60	0.00	1.00	0.00		
5	0.00	21.50	103.60	77.00	148.60	426.50	577.20	292.00	28.10	0.00	3.60	0.00		
6	0.00	18.20	98.70	84.40	154.60	426.50	583.00	283.20	18.20	0.00	4.00	0.00		
7	0.00	22.70	95.20	88.60	159.40	426.50	586.20	276.60	11.20	0.00	4.20	0.00		
8	0.00	35.60	98.70	86.80	161.80	421.10	589.40	267.90	6.40	0.00	3.60	0.00		
9	0.00	46.70	105.00	80.80	167.50	423.80	589.40	265.80	0.40	0.00	3.60	0.00		
10	0.00	50.60	113.80	73.00	178.00	429.20	589.40	261.60	0.00	0.00	3.80	0.00		
11	0.00	50.60	119.40	67.40	187.00	429.20	592.60	255.30	0.00	0.00	1.00	0.00		
12	0.00	49.70	120.20	64.60	193.00	429.20	599.00	249.00	0.00	0.00	2.40	0.00		
13	0.00	46.40	116.20	62.20	201.50	431.90	599.00	242.70	0.00	0.00	3.20	0.00		
14	0.00	41.90	109.00	62.20	206.60	448.10	605.40	232.20	0.00	0.00	4.80	0.00		
15	0.00	38.90	98.00	65.80	213.60	458.90	599.00	226.20	0.00	0.00	7.80	0.00		
16	0.00	39.50	87.40	72.00	217.20	467.00	583.00	219.00	0.00	0.00	7.40	0.00		
17	0.00	43.40	79.00	81.40	220.80	475.70	568.50	213.60	0.00	0.00	5.60	0.00		
18	6.40	51.50	73.00	93.80	226.20	481.50	542.40	203.20	0.00	0.00	4.40	0.00		
19	6.60	59.40	68.20	101.50	232.20	487.30	533.70	190.00	0.00	0.00	6.00	0.00		
20	3.20	66.60	65.80	109.00	238.50	496.00	530.80	181.00	0.00	0.00	7.80	0.00		
21	5.20	73.00	65.40	117.00	240.60	507.60	522.10	170.50	0.00	0.00	7.60	0.00		
22	11.60	76.50	66.20	126.40	246.90	513.40	513.40	159.40	0.00	0.00	7.20	0.00		
23	13.60	77.00	66.20	134.50	255.30	522.10	498.90	148.60	0.00	0.00	6.60	0.00		
24	8.60	74.00	64.20	139.00	259.50	530.80	490.20	135.40	0.00	0.00	4.60	0.00		
25	3.40	67.40	61.80	151.00	270.00	533.70	472.80	126.40	0.00	0.00	2.00	0.00		
26	4.00	62.60	59.00	158.20	303.50	533.70	456.20	121.90	0.00	0.00	1.80	0.00		
27	16.70	59.00	57.00	167.50	345.20	545.30	431.90	115.40	0.00	0.00	1.60	0.00		
28	37.70	55.80	55.00	152.20	364.50	554.00	410.40	104.30	0.00	0.00	1.20	0.00		
29	38.30	58.20	53.00	147.40	372.00	554.00	400.00	98.70	0.00	0.00	0.80	0.00		
30	33.50	67.40	52.10	146.20	387.00	554.00	382.00	88.00	0.00	0.00		0.00		
31		78.50		145.00	392.20		364.50		0.00	0.00		0.00		
Total	188.80	1529.10	2534.20	3086.90	7113.60	14162.10	16449.60	6422.90	291.90	0.00	108.00	0.40	51887.50	CMSDAY
Mean	6.29	49.33	84.47	99.58	229.47	472.07	530.63	214.10	9.42	0.00	3.72	0.01	141.77	CMS
Max	38.30	78.50	120.20	167.50	392.20	554.00	605.40	350.00	75.50	0.00	7.80	0.40	605.40	CMS
Min	0.00	18.20	52.10	51.80	141.40	402.60	364.50	88.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	16.31	132.11	218.96	266.71	614.62	1223.61	1421.25	554.94	25.22	0.00	9.33	0.04	4483.08	MCM
Momentary Peak	608.60 CMS. at 28.48 m. (MSL.) at 12.00 Hours , on Oct 14 , 2011													
Runoff Yield	*****	Liters/Second/Square KM.			Momentary Peak Yield			*****	Liters/Second/Square KM.					

WATER YEAR : 2011**CHAO PHRAYA RIVER BASIN****Chao Phraya River at Ban Phai Lom, Nakhon Sawan (C.2)**

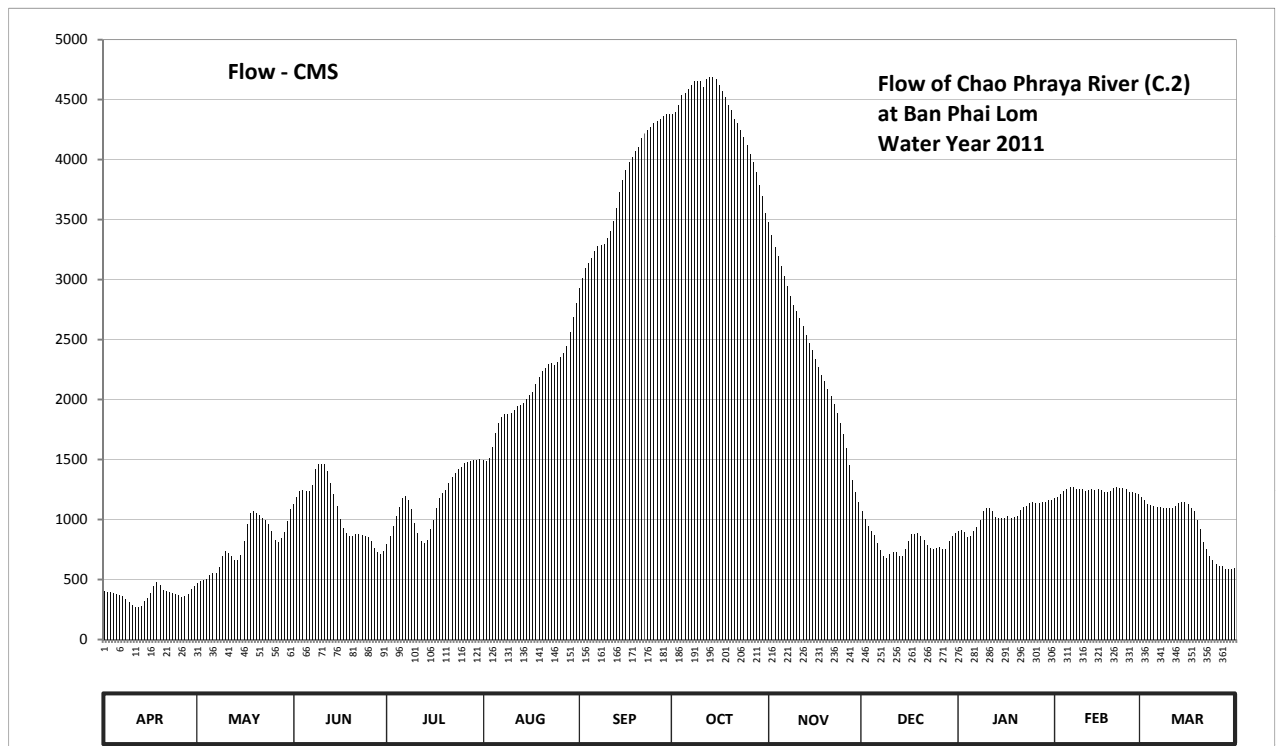
Lat 15 - 40 - 15 N Long 100 - 06 - 49 E

Location : on left bank at Ban Phai Lom

	Ban	Phai Lom	Amphoe	Mueang	Changwat	Nakhon Sawan
Drainage Area	109,973	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	About 20.00 meters west of the gage site				Elevation	+25.628 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1914 to date					
Rating Operation						
Period of Rating	1956 to date					
Rated by Flot	-					
Rated by Current Meter	1956 to date					
Stability of Channel Regimes	Fairly stable					
Overbank Flow Conditions	Overbank flow starts at elevation +25.610 m.(MSL.), records are channel flow only.					
General Description	Records good. Flow effected by Phumiphol Dam, Sirikit Dam and Phrom Phiram Dam. Stage-discharge relation defined by 45 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.87	19.15	21.52	20.49	22.49	25.25	26.68	25.93	21.37	20.86	21.68	21.70	
2	18.86	19.22	21.69	20.70	22.47	25.36	26.69	25.81	21.16	20.88	21.70	21.61	
3	18.86	19.25	21.84	21.00	22.52	25.47	26.73	25.69	20.99	20.81	21.76	21.53	
4	18.80	19.30	21.86	21.23	22.76	25.53	26.78	25.60	20.85	20.69	21.84	21.50	
5	18.74	19.45	21.84	21.45	23.03	25.58	26.79	25.50	20.74	20.71	21.88	21.49	
6	18.67	19.50	21.83	21.68	23.21	25.65	26.81	25.38	20.52	20.84	21.92	21.46	
7	18.59	19.49	21.97	21.72	23.32	25.70	26.83	25.27	20.32	20.97	21.93	21.45	
8	18.46	19.71	22.29	21.63	23.37	25.71	26.85	25.16	20.12	21.15	21.89	21.44	
9	18.28	20.13	22.41	21.41	23.38	25.72	26.85	25.05	20.05	21.37	21.87	21.43	
10	18.14	20.29	22.41	21.06	23.40	25.78	26.85	24.97	20.18	21.42	21.87	21.43	
11	18.08	20.21	22.40	20.78	23.45	25.85	26.82	24.88	20.25	21.42	21.84	21.44	
12	18.08	20.13	22.25	20.58	23.50	25.94	26.86	24.77	20.24	21.35	21.85	21.49	
13	18.12	19.98	22.01	20.50	23.52	26.05	26.87	24.64	20.12	21.22	21.88	21.55	
14	18.36	19.97	21.76	20.59	23.56	26.17	26.87	24.52	20.13	21.19	21.86	21.56	
15	18.48	20.16	21.47	20.89	23.62	26.26	26.86	24.41	20.35	21.20	21.88	21.56	
16	18.77	20.57	21.18	21.14	23.69	26.33	26.83	24.28	20.56	21.20	21.85	21.52	
17	19.02	21.05	20.94	21.43	23.74	26.38	26.80	24.15	20.76	21.23	21.81	21.44	
18	19.16	21.31	20.79	21.67	23.87	26.42	26.77	24.02	20.76	21.20	21.81	21.35	
19	19.05	21.37	20.72	21.78	24.00	26.46	26.73	23.92	20.80	21.22	21.84	21.15	
20	18.93	21.31	20.71	21.86	24.09	26.49	26.70	23.80	20.70	21.23	21.90	20.90	
21	18.89	21.27	20.76	22.01	24.14	26.54	26.65	23.68	20.60	21.38	21.93	20.55	
22	18.81	21.19	20.77	22.14	24.20	26.57	26.63	23.55	20.47	21.46	21.91	20.33	
23	18.77	21.15	20.74	22.22	24.21	26.59	26.59	23.40	20.37	21.49	21.90	20.14	
24	18.71	21.05	20.72	22.29	24.18	26.61	26.55	23.20	20.35	21.54	21.87	19.98	
25	18.63	20.84	20.67	22.33	24.23	26.63	26.50	23.00	20.37	21.56	21.81	19.84	
26	18.52	20.59	20.57	22.43	24.30	26.64	26.44	22.74	20.39	21.54	21.80	19.76	
27	18.57	20.54	20.38	22.44	24.37	26.65	26.38	22.38	20.34	21.54	21.79	19.76	
28	18.72	20.66	20.24	22.46	24.47	26.67	26.31	22.06	20.35	21.56	21.76	19.65	
29	18.95	20.83	20.19	22.49	24.68	26.68	26.22	21.81	20.56	21.58	21.75	19.67	
30	19.01	21.12	20.30	22.49	24.90	26.68	26.14	21.58	20.72	21.62		19.67	
31		21.41		22.50	25.08		26.01		20.80	21.62		19.68	
Mean	18.66	20.39	21.31	21.59	23.73	26.15	26.66	24.17	20.53	21.26	21.84	20.90	
Max	19.16	21.41	22.41	22.50	25.08	26.68	26.87	25.93	21.37	21.62	21.93	21.70	26.87
Min	18.08	19.15	20.19	20.49	22.47	25.25	26.01	21.58	20.05	20.69	21.68	19.65	18.08
Annual Max Momentary Gage Height	26.87		m. (MSL.) ,		at 06.00 Hours , on Oct 13 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	13.81	m. (MSL)						
Left Bank Elevation	25.60		m. (MSL.) ,										
Right Bank Elevation	26.46		m. (MSL.) ,		Drainage Area	109973	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	399.20	474.50	1127.00	797.00	1496.00	2927.50	4380.00	3478.50	1074.50	908.00	1183.00	1190.00	
2	397.90	489.50	1186.50	860.00	1488.00	3010.00	4395.00	3369.00	1001.00	914.00	1190.00	1158.50	
3	397.90	496.20	1239.00	950.00	1508.00	3092.50	4458.00	3267.00	947.00	893.00	1211.00	1130.50	
4	390.30	507.50	1246.00	1025.50	1604.00	3139.00	4538.00	3195.00	905.00	857.00	1239.00	1120.00	
5	382.70	541.30	1239.00	1102.50	1723.50	3179.00	4554.00	3115.00	872.00	863.00	1253.00	1116.50	
6	373.90	552.50	1235.50	1183.00	1804.50	3235.00	4587.00	3025.00	806.00	902.00	1268.00	1106.00	
7	363.20	550.20	1288.00	1197.00	1854.00	3275.00	4621.00	2942.50	747.60	941.00	1272.00	1102.50	
8	340.50	599.70	1416.00	1165.50	1876.50	3283.50	4655.00	2862.00	693.20	997.50	1256.50	1099.00	
9	309.00	695.80	1464.00	1088.50	1881.00	3292.00	4655.00	2787.50	676.50	1074.50	1249.50	1095.50	
10	284.50	739.20	1464.00	968.00	1890.00	3343.00	4655.00	2735.50	708.80	1092.00	1249.50	1095.50	
11	274.00	716.80	1460.00	884.00	1915.00	3405.00	4604.00	2678.00	728.00	1092.00	1239.00	1099.00	
12	274.00	695.80	1400.00	824.00	1940.00	3488.00	4672.00	2612.00	725.20	1067.50	1242.50	1116.50	
13	281.00	660.50	1304.00	800.00	1950.00	3597.50	4689.00	2537.00	693.20	1022.00	1253.00	1137.50	
14	323.00	658.20	1211.00	827.00	1970.00	3727.00	4689.00	2471.00	695.80	1011.50	1246.00	1141.00	
15	344.00	703.60	1109.50	917.00	2000.00	3832.00	4672.00	2410.50	756.00	1015.00	1253.00	1141.00	
16	386.50	821.00	1008.00	994.00	2035.00	3916.00	4621.00	2339.00	818.00	1015.00	1242.50	1127.00	
17	447.20	965.00	932.00	1095.50	2060.00	3976.00	4570.00	2267.50	878.00	1025.50	1228.50	1099.00	
18	476.60	1053.50	887.00	1179.50	2125.00	4024.00	4522.00	2200.00	878.00	1015.00	1228.50	1067.50	
19	453.50	1074.50	866.00	1218.00	2190.00	4072.00	4458.00	2150.00	890.00	1022.00	1239.00	997.50	
20	415.00	1053.50	863.00	1246.00	2235.00	4108.00	4410.00	2090.00	860.00	1025.50	1260.00	920.00	
21	401.70	1039.50	878.00	1304.00	2262.00	4176.00	4335.00	2030.00	830.00	1078.00	1272.00	815.00	
22	391.60	1011.50	881.00	1356.00	2295.00	4218.00	4305.00	1965.00	791.00	1106.00	1264.00	750.40	
23	386.50	997.50	872.00	1388.00	2300.50	4246.00	4246.00	1890.00	761.60	1116.50	1260.00	698.40	
24	378.90	965.00	866.00	1416.00	2284.00	4275.00	4190.00	1800.00	756.00	1134.00	1249.50	660.50	
25	368.80	902.00	851.00	1432.00	2311.50	4305.00	4120.00	1710.00	761.60	1141.00	1228.50	629.00	
26	351.00	827.00	821.00	1472.00	2350.00	4320.00	4048.00	1596.00	767.20	1134.00	1225.00	611.	

WATER YEAR : 2011**CHAO PHRAYA RIVER BASIN****Chao Phraya River at Ban Bang Phutsa, Sing Buri (C.3)**

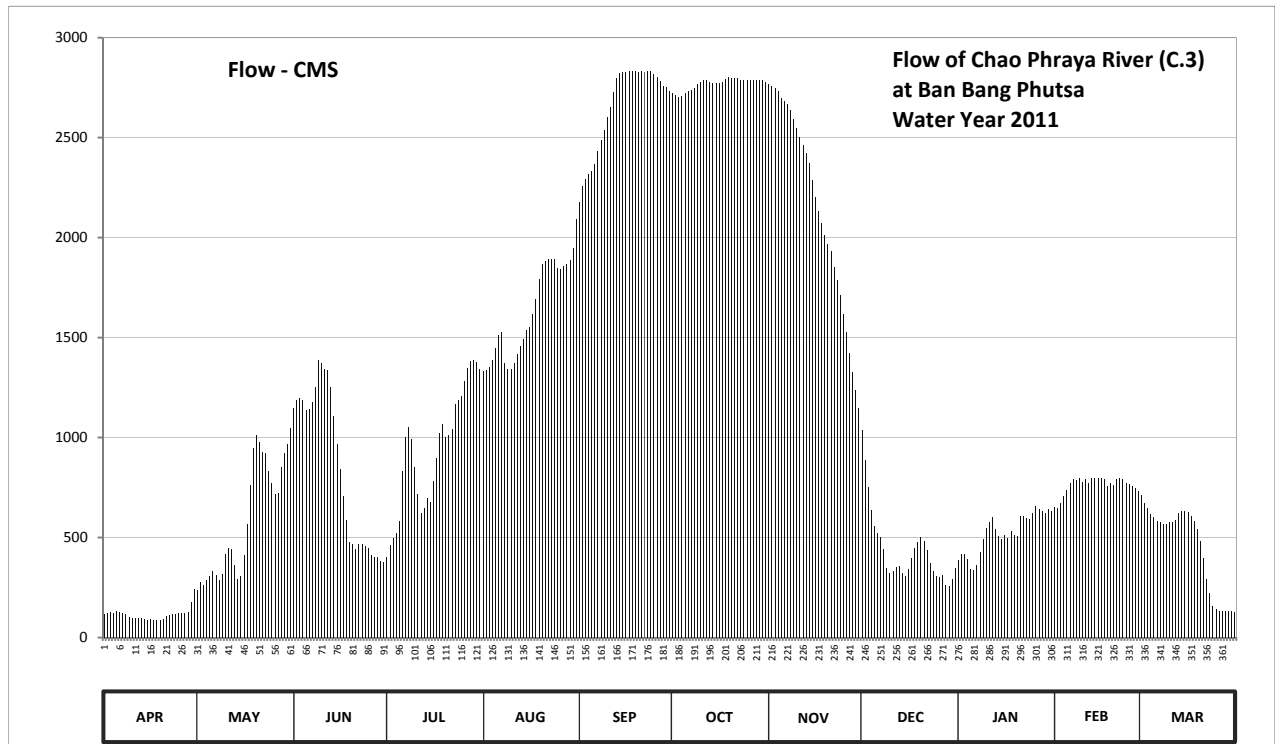
Lat 14 - 53 - 50 N Long 100 - 24 - 18 E

Location : on right bank at Ban Bang Phutsa

	Ban	Bang Phutsa	Amphoe	Mueang	Changwat	Sing Buri
Drainage Area	118,752	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the bridge				Elevation	+11.880 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1950 to date					
Rating Operation						
Period of Rating	1950 to date					
Rated by Flot	-					
Rated by Current Meter	1950 to date					
Stability of Channel Regimes	Fairly stable					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.63	3.70	8.10	4.84	8.74	11.30	12.75	12.87	7.71	4.73	6.19	6.45	
2	2.67	4.01	8.26	5.18	8.76	11.52	12.73	12.85	7.15	4.90	6.16	6.29	
3	2.74	3.89	8.28	5.38	8.80	11.61	12.70	12.82	6.63	4.91	6.27	6.17	
4	2.71	4.08	8.26	5.50	8.92	11.67	12.72	12.78	6.11	4.76	6.44	6.01	
5	2.79	4.21	8.08	5.85	9.12	11.71	12.75	12.69	5.71	4.45	6.57	5.93	
6	2.73	4.38	8.09	6.95	9.32	11.81	12.78	12.65	5.51	4.41	6.70	5.85	
7	2.70	4.26	8.22	7.59	9.37	11.98	12.80	12.61	5.40	4.56	6.78	5.82	
8	2.62	4.08	8.48	7.77	8.87	12.13	12.82	12.53	5.07	4.97	6.77	5.75	
9	2.43	4.30	8.92	7.55	8.78	12.27	12.87	12.41	4.49	5.34	6.80	5.77	
10	2.35	4.91	8.88	7.02	8.77	12.44	12.90	12.30	4.34	5.65	6.73	5.81	
11	2.39	5.10	8.77	6.47	8.87	12.57	12.93	12.18	4.39	5.81	6.79	5.82	
12	2.39	5.05	8.75	6.03	9.02	12.77	12.92	12.07	4.52	5.94	6.71	5.87	
13	2.36	4.59	8.47	6.17	9.14	12.95	12.90	11.96	4.54	5.63	6.80	6.03	
14	2.28	4.13	7.96	6.38	9.26	13.02	12.89	11.82	4.32	5.43	6.81	6.10	
15	2.24	4.23	7.45	6.30	9.39	13.03	12.88	11.60	4.21	5.36	6.81	6.10	
16	2.29	4.89	6.97	6.75	9.45	13.03	12.88	11.37	4.46	5.46	6.81	6.06	
17	2.22	5.77	6.42	7.20	9.65	13.04	12.90	11.17	4.78	5.38	6.78	5.97	
18	2.23	6.67	5.86	7.66	9.87	13.05	12.94	11.00	5.09	5.58	6.65	5.85	
19	2.26	7.39	5.25	7.83	10.18	13.04	12.96	10.81	5.26	5.45	6.70	5.61	
20	2.30	7.62	5.20	7.59	10.40	13.03	12.95	10.67	5.41	5.42	6.67	5.28	
21	2.48	7.49	5.06	7.62	10.45	13.04	12.95	10.58	5.28	5.97	6.78	4.80	
22	2.54	7.31	5.21	7.73	10.47	13.03	12.95	10.36	5.03	5.96	6.81	4.11	
23	2.61	7.28	5.22	8.19	10.48	13.05	12.93	10.16	4.64	5.91	6.78	3.58	
24	2.63	6.95	5.15	8.26	10.47	13.04	12.92	9.93	4.38	5.88	6.71	3.05	
25	2.67	6.70	5.10	8.32	10.34	13.00	12.92	9.65	4.23	6.04	6.69	2.91	
26	2.68	6.47	4.88	8.57	10.33	12.97	12.92	9.37	4.19	6.20	6.65	2.82	
27	2.68	6.50	4.83	8.79	10.38	12.91	12.92	9.04	4.27	6.15	6.60	2.81	
28	2.74	7.01	4.82	8.90	10.41	12.85	12.92	8.73	3.91	6.10	6.55	2.80	
29	3.22	7.29	4.71	8.92	10.46	12.83	12.92	8.43	3.88	6.05	6.45	2.78	
30	3.76	7.45	4.66	8.89	10.62	12.78	12.92	8.11	4.11	6.14		2.78	
31		7.75		8.78	11.06		12.90		4.49	6.09		2.77	
Mean	2.58	5.66	6.81	7.26	9.68	12.58	12.88	11.18	4.95	5.50	6.65	4.96	
Max	3.76	7.75	8.92	8.92	11.06	13.05	12.96	12.87	7.71	6.20	6.81	6.45	13.05
Min	2.22	3.70	4.66	4.84	8.74	11.30	12.70	8.11	3.88	4.41	6.16	2.77	2.22
Annual Max Momentary Gage Height	13.05		m. (MSL.) ,			at 12.00 Hours , on Sep 24 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	-1.79	m. (MSL)					
Left Bank Elevation	11.97		m. (MSL.) ,										
Right Bank Elevation	11.91		m. (MSL.) ,			Drainage Area	118752	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	118.40	236.00	1144.00	404.80	1332.00	2180.00	2721.00	2766.60	1034.80	386.80	652.90	711.50		
2	121.60	276.40	1188.80	462.60	1338.00	2260.40	2713.40	2759.00	886.00	415.00	646.60	674.80		
3	127.20	260.70	1194.40	498.40	1350.00	2293.70	2702.00	2747.60	753.20	416.70	670.40	648.70		
4	124.80	286.20	1188.80	520.00	1386.00	2315.90	2709.60	2732.40	636.10	391.60	709.20	616.00		
5	131.20	305.50	1138.40	584.50	1448.40	2330.70	2721.00	2698.20	557.90	342.00	739.10	600.00		
6	126.40	331.00	1141.20	834.00	1512.40	2367.70	2732.40	2683.00	521.80	335.60	770.00	584.50		
7	124.00	313.00	1177.60	1002.30	1528.40	2430.60	2740.00	2667.80	502.00	359.60	790.00	578.80		
8	117.60	286.20	1254.00	1051.60	1371.00	2486.10	2747.60	2637.40	443.90	426.90	787.50	565.50		
9	102.40	319.00	1386.00	991.50	1344.00	2538.60	2766.60	2591.80	348.40	491.20	795.00	569.30		
10	96.00	416.70	1374.00	852.20	1341.00	2603.20	2778.00	2550.00	325.00	547.00	777.50	576.90		
11	99.20	449.00	1341.00	716.10	1371.00	2652.60	2789.40	2504.60	332.50	576.90	792.50	578.80		
12	99.20	440.50	1335.00	620.00	1416.40	2728.60	2785.60	2463.90	353.20	602.00	772.50	588.30		
13	96.80	364.40	1251.00	648.70	1454.80	2797.00	2778.00	2423.20	356.40	543.40	795.00	620.00		
14	90.60	293.50	1104.80	695.40	1493.20	2823.60	2774.20	2371.40	322.00	507.40	797.60	634.00		
15	87.80	308.50	964.50	677.00	1534.80	2827.40	2770.40	2290.00	305.50	494.80	797.60	634.00		
16	91.30	413.30	839.20	782.50	1554.00	2827.40	2770.40	2205.20	343.60	512.80	797.60	626.00		
17	86.40	569.30	704.60	899.00	1618.00	2831.20	2778.00	2133.20	394.80	498.40	790.00	608.00		
18	87.10	762.80	586.40	1021.20	1690.10	2835.00	2793.20	2072.00	447.30	534.40	758.00	584.50		
19	89.20	948.40	475.00	1068.40	1792.40	2831.20	2800.80	2011.20	476.80	511.00	770.00	539.80		
20	92.00	1010.40	466.00	1002.30	1865.00	2827.40	2797.00	1964.90	503.80	505.60	762.80	480.40		
21	106.40	975.30	442.20	1010.40	1883.50	2831.20	2797.00	1931.60	480.40	608.00	790.00	398.00		
22	111.20	927.60	467.80	1040.40	1890.90	2827.40	2797.00	1851.80	437.10	606.00	797.60	290.50		
23	116.80	919.80	469.60	1169.20	1894.60	2835.00	2789.40	1785.80	372.40	596.00	790.00	220.40		
24	118.40	834.00	457.50	1188.80	1890.90	2831.20	2785.60	1709.90	331.00	590.20	772.50	155.50		
25	121.60	770.00	449.00	1206.00	1845.20	2816.00	2785.60	1618.00	308.50	622.00	767.60	141.90		
26	122.40	716.10	411.60	1281.00	1841.90	2804.60	2785.60	1528.40	302.50	655.00	758.00	133.80		
27	122.40	723.00	403.10	1347.00	1858.40	2781.80	2785.60	1422.80	314.50	644.50	746.00	132.90		
28	127.20	849.60	401.40	1380.00	1868.70	2759.00	2785.60	1329.00	263.30	634.00	734.50	132.00		
29	175.40	922.40	383.60	1386.00	1887.20	2751.40	2785.60	1239.00	259.40	624.00	711.50	130.40		
30	243.80	964.50	375.60	1377.00	1946.40	2732.40	2785.60	1146.80	290.50	642.40		130.40		
31		1046.00		1344.00	2093.60		2778.00		348.40	632.00		129.60		
Total	3474.80	18239.10	25516.10	29062.30	50642.20	79758.30	85829.20	64836.50	13553.00	16253.20	22039.50	14015.20	423219.40	CMSDAY
Mean	115.80	588.40	850.50	937.50	1633.60	2658.60	2768.70	2161.20	437.20	524.30	760.00	452.10	1156.30	CMS
Max	243.80	1046.00	1386.00	1386.00	2093.60	2835.00	2800.80	2766.60	1034.80	655.00	797.60	711.50	2835.00	CMS
Min	86.40	236.00	375.60	404.80	1332.00	2180.00	2702.00	1146.80	259.40	335.60	646.60	129.60	86.40	CMS
Runoff	300.22	1575.86	2204.59	2510.98	4375.49	6891.12	7415.64	5601.87	1170.98	1404.28	1904.21	1210.91	36566.16	MCM
Momentary Peak	2835.00 CMS. at 13.05 m. (MSL.) at 12.00 Hours , on Sep 24 , 2011													
Runoff Yield	9.74	Liters/Second/Square KM.			Momentary Peak Yield			23.873	Liters/Second/Square KM.					

WATER YEAR : 2011

CHAO PHRAYA RIVER BASIN

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

Lat 14 - 35 - 05 N Long 100 - 27 - 12 E

Location : on left bank at Ban Bang Kaco

Ban Bang Keao **Amphoe** Mueang **Changwat** Ang Thong

Drainage Area	Flood Plain
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Type of Gage	Water - stage recorder
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Zero Gage at Bottom	+0.000	m. (MSL.)
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Bench Mark B.M.-H.D.

Location BM	On left bank near the gage site	Elevation	+8.633 m. (MSL.)
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Gage Reading Frequency	Recording
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Basis of Mean Daily Gage Height Arithmetic means of 24 readings

Period of Available Gage Records	2006 to date
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Rating Operation

Period of Rating	2006 to date
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Rated by Flot _____

Rated by Current Meter 2006 to date

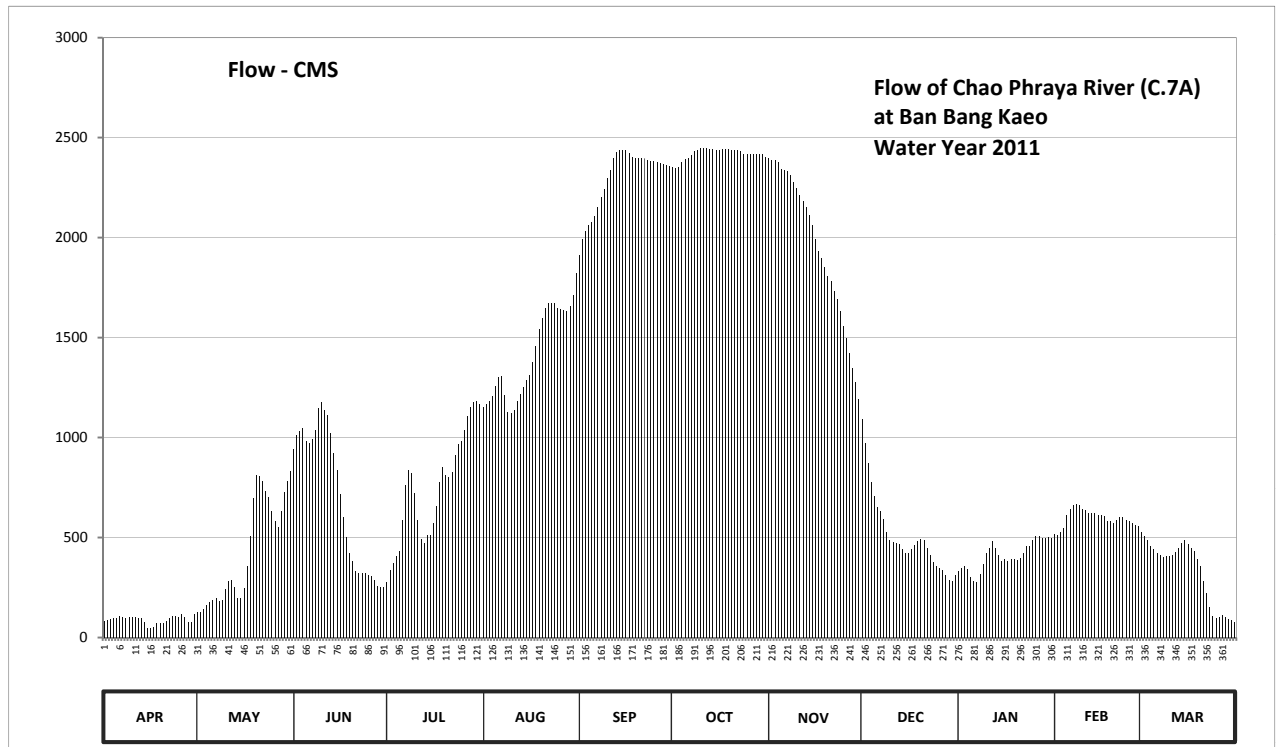
Stability of Channel Regimes	Fairly stable.
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Overbank Flow Conditions Overbank flow starts at elevation +8.260 m.(MSL.), records are channel flow only.

General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2011.
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Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.83	1.20	4.87	2.08	5.58	7.87	9.02	9.13	5.39	2.36	3.23	3.28	
2	0.89	1.20	5.12	2.39	5.63	8.09	9.01	9.11	4.99	2.44	3.21	3.19	
3	0.93	1.30	5.19	2.57	5.68	8.20	9.02	9.11	4.62	2.48	3.29	3.12	
4	0.98	1.43	5.23	2.73	5.76	8.28	9.08	9.08	4.29	2.40	3.37	2.99	
5	0.98	1.50	5.02	2.87	5.92	8.31	9.12	9.00	4.02	2.21	3.64	2.91	
6	1.05	1.56	4.98	3.53	6.06	8.39	9.14	8.98	3.81	2.10	3.75	2.80	
7	1.03	1.64	5.06	4.24	6.09	8.51	9.17	8.97	3.71	2.09	3.85	2.77	
8	0.96	1.55	5.21	4.50	5.78	8.64	9.22	8.92	3.56	2.28	3.86	2.70	
9	1.00	1.56	5.57	4.45	5.51	8.75	9.24	8.84	3.29	2.53	3.85	2.73	
10	1.02	1.89	5.67	4.08	5.49	8.89	9.26	8.76	3.11	2.80	3.76	2.73	
11	1.00	2.12	5.54	3.54	5.54	8.98	9.26	8.67	3.07	2.93	3.74	2.77	
12	0.96	2.14	5.46	3.14	5.68	9.13	9.26	8.59	3.06	3.10	3.67	2.83	
13	0.98	1.95	5.15	3.05	5.79	9.21	9.25	8.51	3.04	2.94	3.68	2.95	
14	0.79	1.64	4.80	3.22	5.91	9.24	9.25	8.41	2.92	2.76	3.68	3.05	
15	0.56	1.64	4.51	3.22	6.02	9.23	9.24	8.27	2.80	2.62	3.64	3.12	
16	0.58	1.93	4.07	3.46	6.10	9.23	9.24	8.09	2.81	2.66	3.64	3.03	
17	0.60	2.49	3.59	3.83	6.30	9.20	9.25	7.93	2.90	2.60	3.62	2.95	
18	0.75	3.19	3.17	4.28	6.55	9.15	9.25	7.83	3.02	2.65	3.50	2.86	
19	0.78	3.98	2.81	4.56	6.80	9.14	9.25	7.70	3.09	2.67	3.52	2.66	
20	0.75	4.41	2.60	4.42	6.97	9.14	9.23	7.57	3.13	2.64	3.46	2.48	
21	0.87	4.40	2.36	4.38	7.12	9.14	9.23	7.51	3.11	2.68	3.54	2.12	
22	0.97	4.30	2.32	4.46	7.18	9.13	9.23	7.36	2.94	2.80	3.59	1.77	
23	1.04	4.13	2.32	4.77	7.18	9.11	9.22	7.24	2.77	2.99	3.59	1.36	
24	1.07	4.01	2.31	4.96	7.18	9.10	9.19	7.07	2.59	2.99	3.54	1.05	
25	1.02	3.71	2.26	5.02	7.12	9.10	9.19	6.85	2.49	3.11	3.50	0.99	
26	1.11	3.52	2.23	5.21	7.10	9.08	9.19	6.67	2.43	3.19	3.46	1.02	
27	1.02	3.38	2.13	5.43	7.09	9.07	9.19	6.44	2.39	3.19	3.42	1.09	
28	0.80	3.72	1.99	5.58	7.07	9.06	9.19	6.21	2.25	3.16	3.40	1.00	
29	0.81	4.10	1.95	5.67	7.14	9.05	9.19	5.98	2.13	3.16	3.33	0.95	
30	1.13	4.31	1.95	5.68	7.31	9.04	9.18	5.71	2.12	3.17		0.88	
31		4.48		5.64	7.62		9.15		2.25	3.15		0.82	
Mean	0.91	2.72	3.85	4.10	6.40	8.88	9.19	7.95	3.16	2.74	3.56	2.29	
Max	1.13	4.48	5.67	5.68	7.62	9.24	9.26	9.13	5.39	3.19	3.86	3.28	9.26
Min	0.56	1.20	1.95	2.08	5.49	7.87	9.01	5.71	2.12	2.09	3.21	0.82	0.56
Annual Max Momentary Gage Height	9.30		m. (MSL.) , at 05.00 Hours , on Sep 14 , 2011										
Zero Gage at Bottom Elevation		0.00	m. (MSL.) ,		River Bed	-7.26	m. (MSL)						
Left Bank Elevation		8.63	m. (MSL.) ,										
Right Bank Elevation		8.25	m. (MSL.) ,		Drainage Area		Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	79.60	128.00	939.60	276.00	1150.80	1910.90	2352.00	2396.00	1092.00	332.00	515.20	527.20	
2	86.80	128.00	1011.00	338.00	1166.30	1992.30	2348.00	2388.00	973.20	348.00	510.40	505.60	
3	91.60	144.00	1032.00	374.00	1181.80	2034.00	2352.00	2388.00	869.60	356.00	529.60	488.80	
4	97.60	164.80	1044.00	406.00	1206.60	2064.40	2376.00	2376.00	777.20	340.00	548.80	458.00	
5	97.60	176.00	981.80	434.00	1256.20	2075.80	2392.00	2344.00	705.20	302.00	613.60	442.00	
6	107.00	185.60	970.40	587.20	1299.60	2106.20	2400.00	2336.00	654.40	280.00	640.00	420.00	
7	104.20	198.40	993.40	763.20	1308.90	2151.80	2412.00	2332.00	630.40	278.00	664.00	414.00	
8	95.20	184.00	1038.00	836.00	1212.80	2201.20	2432.00	2312.00	594.40	316.00	666.40	400.00	
9	100.00	185.60	1147.70	822.00	1129.10	2244.00	2440.00	2280.00	529.60	366.00	664.00	406.00	
10	102.80	240.30	1178.70	720.80	1122.90	2300.00	2448.00	2248.00	486.40	420.00	642.40	406.00	
11	100.00	284.00	1138.40	589.60	1138.40	2336.00	2448.00	2212.60	476.80	446.00	637.60	414.00	
12	95.20	288.00	1113.60	493.60	1181.80	2396.00	2448.00	2182.20	474.40	484.00	620.80	426.00	
13	97.60	251.00	1020.00	472.00	1215.90	2428.00	2444.00	2151.80	469.60	448.00	623.20	450.00	
14	74.80	198.40	920.00	512.80	1253.10	2440.00	2444.00	2113.80	444.00	412.00	623.20	472.00	
15	47.20	198.40	838.80	512.80	1287.20	2436.00	2440.00	2060.60	420.00	384.00	613.60	488.80	
16	49.60	247.40	718.20	570.40	1312.00	2436.00	2440.00	1992.30	422.00	392.00	613.60	467.20	
17	52.00	358.00	601.60	659.20	1376.00	2424.00	2444.00	1933.10	440.00	380.00	608.80	450.00	
18	70.00	505.60	500.80	774.40	1457.50	2404.00	2444.00	1896.10	464.80	390.00	580.00	432.00	
19	73.60	695.20	422.00	852.80	1540.00	2400.00	2444.00	1850.00	481.60	394.00	584.80	392.00	
20	70.00	810.80	380.00	813.60	1597.80	2400.00	2436.00	1804.50	491.20	388.00	570.40	356.00	
21	84.40	808.00	332.00	802.40	1648.80	2400.00	2436.00	1783.50	486.40	396.00	589.60	284.00	
22	96.40	780.00	324.00	824.80	1669.20	2396.00	2436.00	1731.00	448.00	420.00	601.60	219.90	
23	105.60	733.80	324.00	911.60	1669.20	2388.00	2432.00	1689.60	414.00	458.00	601.60	153.60	
24	109.80	702.60	322.00	964.80	1669.20	2384.00	2420.00	1631.80	378.00	458.00	589.60	107.00	
25	102.80	630.40	312.00	981.80	1648.80	2384.00	2420.00	1557.00	358.00	486.40	580.00	98.80	
26	115.40	584.80	306.00	1038.00	1642.00	2376.00	2420.00	1497.10	346.00	505.60	570.40	102.80	
27	102.80	551.20	286.00	1104.30	1638.60	2372.00	2420.00	1421.					

WATER YEAR : 2011

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Luang, Chai Nat (C.13)

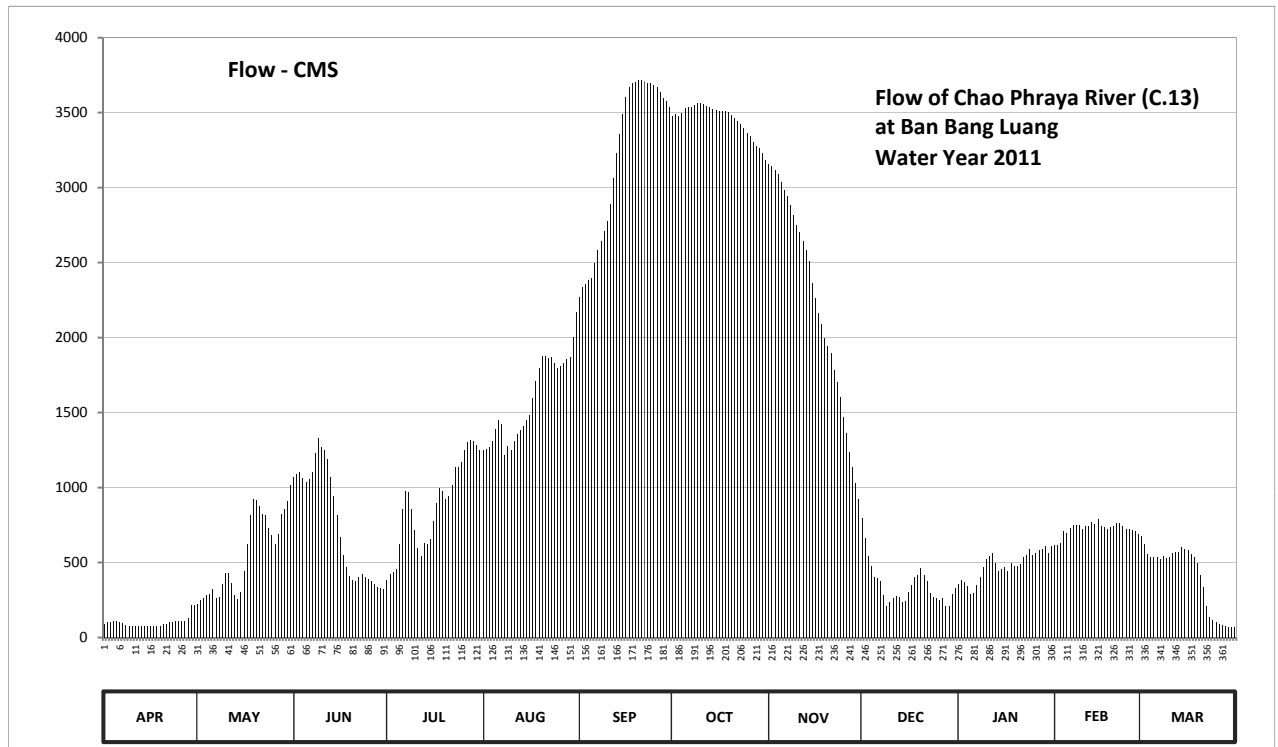
Lat 15 - 10 - 07 N Long 100 - 11 - 48 E

Location : on left bank at Wat Pho Ngam about 1.5 kilometers downstream from Chao Phraya Diversion Dam

	Ban	Bang Luang	Amphoe	Sanphaya	Changwat	Chai Nat
Drainage Area	117,187	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	B.M.2 - on right bank about 400 meters from the B.M.1				Elevation	+16.310 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1947 to date					
Rating Operation						
Period of Rating	1953 - 1962, 1965 - 1968, 1972 - 1975 to date					
Rated by Flot	-					
Rated by Current Meter	1953 - 1962, 1965 - 1968, 1972 - 1975 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +16.440 m.(MSL.), records are channel flow only.					
General Description	Records good. Flow regulated by Chao Phraya Dam above gage site. Stage-discharge relation defined by 42 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.22	7.61	11.82	8.69	12.42	15.11	17.49	16.93	10.75	8.51	9.94	10.23	
2	6.41	7.82	11.89	8.93	12.45	15.26	17.51	16.90	10.16	8.71	9.94	9.97	
3	6.42	7.89	11.93	9.03	12.49	15.31	17.49	16.86	9.57	8.61	10.02	9.64	
4	6.51	8.02	11.79	9.12	12.63	15.37	17.53	16.81	9.22	8.46	10.38	9.55	
5	6.48	8.10	11.68	9.99	12.88	15.39	17.58	16.70	8.83	8.09	10.32	9.54	
6	6.42	8.31	11.77	11.00	13.06	15.62	17.59	16.61	8.76	8.13	10.47	9.55	
7	6.35	7.91	11.93	11.48	12.98	15.81	17.59	16.53	8.65	8.49	10.56	9.49	
8	6.19	7.96	12.36	11.44	12.32	15.94	17.62	16.42	8.04	8.84	10.55	9.57	
9	6.03	8.52	12.69	11.01	12.52	16.07	17.64	16.28	7.52	9.21	10.56	9.50	
10	6.00	8.99	12.50	10.41	12.44	16.21	17.64	16.16	7.72	9.46	10.43	9.56	
11	6.00	8.96	12.44	9.86	12.63	16.43	17.63	16.06	7.87	9.57	10.53	9.68	
12	6.00	8.57	12.22	9.57	12.77	16.76	17.61	15.94	7.99	9.67	10.54	9.70	
13	6.00	8.04	11.81	10.02	12.86	17.07	17.59	15.81	7.93	9.35	10.66	9.72	
14	6.00	7.86	11.34	9.99	12.94	17.29	17.57	15.66	7.69	9.04	10.60	9.87	
15	6.00	8.20	10.84	10.14	13.06	17.51	17.56	15.32	7.77	9.14	10.72	9.82	
16	6.00	9.05	10.20	10.67	13.17	17.71	17.55	15.09	8.18	9.20	10.54	9.78	
17	6.00	9.98	9.62	11.17	13.47	17.83	17.55	14.87	8.47	9.06	10.49	9.65	
18	6.00	10.84	9.19	11.56	13.76	17.87	17.55	14.69	8.80	9.34	10.44	9.55	
19	6.01	11.28	8.88	11.49	13.97	17.88	17.54	14.47	8.89	9.23	10.49	9.35	
20	6.23	11.25	8.70	11.27	14.17	17.91	17.50	14.33	9.17	9.24	10.53	8.92	
21	6.29	11.10	8.65	11.36	14.17	17.91	17.47	14.22	8.90	9.31	10.61	8.39	
22	6.38	10.87	8.84	11.61	14.14	17.89	17.44	13.94	8.67	9.55	10.61	7.50	
23	6.41	10.85	8.93	12.06	14.16	17.87	17.40	13.74	8.15	9.62	10.52	6.79	
24	6.48	10.48	8.84	12.04	14.06	17.87	17.35	13.48	7.96	9.80	10.44	6.57	
25	6.48	10.25	8.72	12.17	13.97	17.85	17.30	13.13	7.87	9.61	10.45	6.45	
26	6.46	9.98	8.67	12.43	14.01	17.82	17.26	12.79	7.82	9.66	10.41	6.26	
27	6.47	10.30	8.53	12.61	14.06	17.77	17.19	12.39	7.88	9.78	10.38	6.17	
28	6.75	10.87	8.42	12.66	14.12	17.70	17.15	12.05	7.51	9.80	10.30	5.96	
29	7.57	11.01	8.36	12.63	14.15	17.66	17.12	11.67	7.51	9.92	10.20	5.86	
30	7.57	11.22	8.34	12.55	14.49	17.60	17.07	11.27	8.06	9.67		5.85	
31		11.61		12.42	14.88		16.98		8.36	9.91		5.85	
Mean	6.34	9.47	1										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	87.40	223.40	1071.60	382.40	1246.00	2270.40	3476.20	3158.20	794.00	353.60	616.00	676.60		
2	102.00	252.80	1091.20	421.40	1255.00	2336.40	3487.80	3142.00	661.20	385.60	616.00	622.00		
3	102.80	262.60	1102.40	439.40	1267.00	2358.40	3476.20	3120.40	542.00	369.60	632.00	556.00		
4	110.20	280.80	1063.20	455.60	1309.60	2384.80	3499.40	3093.40	473.60	345.60	709.60	538.00		
5	107.80	292.00	1032.40	626.00	1389.60	2393.60	3528.40	3034.00	404.80	290.60	696.40	536.00		
6	102.80	321.60	1057.60	854.00	1447.20	2494.80	3534.20	2985.40	393.60	296.20	729.40	538.00		
7	97.10	265.40	1102.40	976.80	1421.60	2580.80	3534.20	2943.60	376.00	350.40	749.20	526.00		
8	85.40	272.40	1228.00	966.40	1216.00	2643.20	3551.60	2886.40	283.60	406.40	747.00	542.00		
9	76.50	355.20	1328.80	856.40	1276.00	2707.00	3563.20	2813.60	212.40	471.80	749.20	528.00		
10	75.00	432.20	1270.00	716.20	1252.00	2777.20	3563.20	2752.00	238.80	520.00	720.60	540.00		
11	75.00	426.80	1252.00	600.00	1309.60	2891.60	3557.40	2702.00	259.80	542.00	742.60	564.00		
12	75.00	363.20	1186.00	542.00	1354.40	3066.40	3545.80	2643.20	276.60	562.00	744.80	568.00		
13	75.00	283.60	1068.80	632.00	1383.20	3233.80	3534.20	2580.80	268.20	498.00	772.40	572.00		
14	75.00	258.40	940.40	626.00	1408.80	3360.20	3522.60	2512.40	234.60	441.20	758.00	602.00		
15	75.00	306.00	815.60	656.80	1447.20	3487.80	3516.80	2362.80	245.80	459.20	786.80	592.00		
16	75.00	443.00	670.00	774.80	1483.80	3603.80	3511.00	2261.60	303.20	470.00	744.80	584.00		
17	75.00	624.00	552.00	896.20	1596.60	3673.40	3511.00	2164.80	347.20	444.80	733.80	558.00		
18	75.00	815.60	468.20	998.80	1712.00	3696.60	3511.00	2087.80	400.00	496.00	722.80	538.00		
19	75.50	924.80	412.80	979.40	1796.00	3702.40	3505.20	1996.00	414.40	475.40	733.80	498.00		
20	88.10	917.00	384.00	922.20	1876.00	3720.00	3482.00	1940.00	464.60	477.20	742.60	419.60		
21	92.30	878.00	376.00	945.60	1876.00	3720.00	3464.60	1896.00	416.00	490.00	760.40	334.40		
22	99.60	822.80	406.40	1012.80	1864.00	3708.20	3447.20	1784.00	379.20	538.00	760.40	210.00		
23	102.00	818.00	421.40	1138.80	1872.00	3696.60	3424.00	1704.00	299.00	552.00	740.40	133.20		
24	107.80	731.60	406.40	1133.20	1832.00	3696.60	3395.00	1600.40	272.40	588.00	722.80	115.10		
25	107.80	681.00	387.20	1171.00	1796.00	3685.00	3366.00	1470.20	259.80	550.00	725.00	105.30		
26	106.10	624.00	379.20	1249.00	1812.00	3667.60	3342.80	1360.80	252.80	560.00	716.20	90.20		
27	106.90	692.00	356.80	1303.20	1832.00	3638.60	3302.20	1237.00	261.20	584.00	709.60	84.20		
28	129.90	822.80	339.20	1319.20	1856.00	3598.00	3279.00	1136.00	211.20	588.00	692.00	73.00		
29	218.40	856.40	329.60	1309.60	1868.00	3574.80	3261.60	1029.60	211.20	612.00	670.00	68.00		
30	218.40	909.20	326.40	1285.00	2004.00	3540.00	3233.80	922.20	286.40	562.00		67.50		
31		1012.80		1246.00	2169.20		3185.20		329.60	610.00		67.50		
Total	2999.80	17169.40	22826.00	27436.20	49228.80	95908.00	107112.80	67320.60	10773.20	14889.60	20944.60	12446.60	449055.60	CMSDAY
Mean	100.00	553.90	760.90	885.00	1588.00	3196.90	3455.30	2244.00	347.50	480.30	722.20	401.50	1226.90	CMS
Max	218.40	1012.80	1328.80	1319.20	2169.20	3720.00	3563.20	3158.20	794.00	612.00	786.80	676.60	3720.00	CMS
Min	75.00	223.40	326.40	382.40	1216.00	2270.40	3185.20	922.20	211.20	290.60	616.00	67.50	67.50	CMS
Runoff	259.18	1483.44	1972.17	2370.49	4253.37	8286.45	9254.55	5816.50	930.80	1286.46	1809.61	1075.39	38798.40	MCM
Momentary Peak	3726.00 CMS. at 17.92 m. (MSL.) at 24.00 Hours , on Sep 21 , 2011													
Runoff Yield	10.47	Liters/Second/Square KM.			Momentary Peak Yield			31.795	Liters/Second/Square KM.					

WATER YEAR : 2011

CHAO PHRAYA RIVER BASIN

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

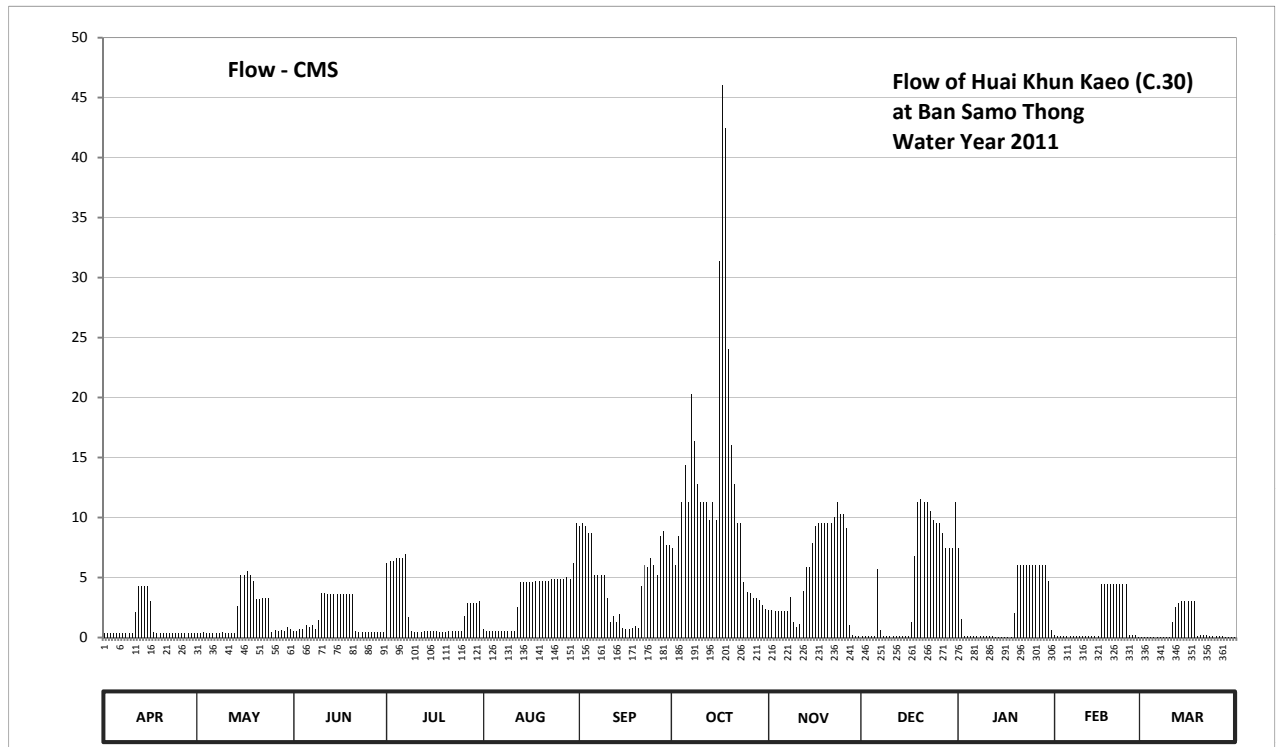
Lat 15 - 20 - 53 N Long 99 - 32 - 11 E

Location : on right bank in front of Wat Samo Thong School

	Ban	Samo Thong	Amphoe	Huai Khot	Changwat	Uthai Thani
Drainage Area	227	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+101.530	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 60 meters from the top staff gage				Elevation	+111.590 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1982 to date					
Rating Operation						
Period of Rating	1983 to date					
Rated by Flot	-					
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 13 discharge measurements made in 1911.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	101.69	101.69	101.74	102.34	101.78	102.50	102.41	102.03	101.60	102.41	101.63	101.58	
2	101.69	101.70	101.73	102.35	101.74	102.51	102.33	102.03	101.60	101.93	101.61	101.58	
3	101.69	101.71	101.77	102.35	101.74	102.50	102.46	102.02	101.60	101.60	101.61	101.58	
4	101.69	101.70	101.78	102.36	101.74	102.47	102.58	102.02	101.60	101.60	101.60	101.58	
5	101.69	101.70	101.85	102.36	101.74	102.47	102.68	102.02	101.60	101.60	101.60	101.58	
6	101.69	101.70	101.81	102.36	101.73	102.28	102.58	102.02	102.31	101.60	101.60	101.58	
7	101.69	101.69	101.84	102.38	101.73	102.28	102.85	102.02	101.75	101.60	101.60	101.58	
8	101.69	101.70	101.77	101.96	101.73	102.28	102.74	102.14	101.61	101.60	101.60	101.58	
9	101.69	101.71	101.92	101.73	101.73	102.28	102.63	101.89	101.60	101.60	101.60	101.58	
10	101.69	101.70	102.17	101.72	101.73	102.13	102.58	101.81	101.60	101.60	101.60	101.58	
11	102.01	101.69	102.17	101.71	101.73	101.89	102.58	101.86	101.60	101.60	101.60	101.89	
12	102.22	101.69	102.16	101.71	102.05	101.97	102.58	102.19	101.59	101.60	101.60	102.05	
13	102.22	101.69	102.16	101.74	102.24	101.89	102.52	102.32	101.59	101.58	101.60	102.09	
14	102.22	102.06	102.16	101.74	102.24	101.99	102.58	102.32	101.59	101.58	101.60	102.10	
15	102.22	102.28	102.16	101.74	102.24	101.80	102.52	102.43	101.59	101.58	101.60	102.10	
16	102.10	102.28	102.16	101.74	102.24	101.78	103.12	102.50	101.59	101.58	102.23	102.10	
17	101.72	102.30	102.16	101.73	102.24	101.77	103.42	102.51	101.90	101.58	102.23	102.10	
18	101.70	102.28	102.16	101.72	102.25	101.80	103.35	102.51	102.37	101.58	102.23	102.10	
19	101.70	102.25	102.16	101.72	102.25	101.83	102.95	102.51	102.58	102.00	102.23	101.61	
20	101.70	102.12	102.16	101.72	102.25	101.80	102.73	102.51	102.59	102.33	102.23	101.63	
21	101.70	102.12	101.73	101.73	102.25	102.22	102.63	102.51	102.58	102.33	102.23	101.63	
22	101.70	102.13	101.72	101.73	102.25	102.33	102.51	102.53	102.58	102.33	102.23	101.63	
23	101.70	102.13	101.71	101.73	102.26	102.32	102.51	102.58	102.55	102.33	102.23	101.61	
24	101.70	102.13	101.71	101.73	102.26	102.36	102.24	102.54	102.52	102.33	102.23	101.60	
25	101.69	101.72	101.71	101.73	102.26	102.33	102.18	102.54	102.51	102.33	101.63	101.60	
26	101.69	101.76	101.71	101.97	102.26	102.28	102.17	102.49	102.51	102.33	101.63	101.60	
27	101.69	101.73	101.71	102.09	102.26	102.46	102.13	101.85	102.47	102.33	101.63	101.60	
28	101.69	101.75	101.71	102									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.37	0.37	0.56	6.22	0.72	9.30	7.50	2.30	0.10	7.50	0.19	0.08		
2	0.37	0.40	0.52	6.40	0.56	9.55	6.04	2.30	0.10	1.51	0.13	0.08		
3	0.37	0.44	0.68	6.40	0.56	9.30	8.50	2.20	0.10	0.10	0.13	0.08		
4	0.37	0.40	0.72	6.58	0.56	8.70	11.30	2.20	0.10	0.10	0.10	0.08		
5	0.37	0.40	1.05	6.58	0.56	8.70	14.36	2.20	0.10	0.10	0.10	0.08		
6	0.37	0.40	0.85	6.58	0.52	5.20	11.30	2.20	5.68	0.10	0.10	0.08		
7	0.37	0.37	1.00	6.94	0.52	5.20	20.25	2.20	0.60	0.10	0.10	0.08		
8	0.37	0.40	0.68	1.72	0.52	5.20	16.36	3.40	0.13	0.10	0.10	0.08		
9	0.37	0.44	1.44	0.52	0.52	5.20	12.76	1.25	0.10	0.10	0.10	0.08		
10	0.37	0.40	3.70	0.48	0.52	3.30	11.30	0.85	0.10	0.10	0.10	0.08		
11	2.10	0.37	3.70	0.44	0.52	1.25	11.30	1.10	0.10	0.10	0.10	1.25		
12	4.30	0.37	3.60	0.44	2.50	1.79	11.30	3.90	0.09	0.10	0.10	2.50		
13	4.30	0.37	3.60	0.56	4.60	1.25	9.80	5.86	0.09	0.08	0.10	2.90		
14	4.30	2.60	3.60	0.56	4.60	1.93	11.30	5.86	0.09	0.08	0.10	3.00		
15	4.30	5.20	3.60	0.56	4.60	0.80	9.80	7.90	0.09	0.08	0.10	3.00		
16	3.00	5.20	3.60	0.56	4.60	0.72	31.40	9.30	0.09	0.08	4.45	3.00		
17	0.48	5.50	3.60	0.52	4.60	0.68	46.08	9.55	1.30	0.08	4.45	3.00		
18	0.40	5.20	3.60	0.48	4.75	0.80	42.50	9.55	6.76	0.08	4.45	3.00		
19	0.40	4.75	3.60	0.48	4.75	0.95	24.05	9.55	11.30	2.00	4.45	0.13		
20	0.40	3.20	3.60	0.48	4.75	0.80	16.02	9.55	11.55	6.04	4.45	0.19		
21	0.40	3.20	0.52	0.52	4.75	4.30	12.76	9.55	11.30	6.04	4.45	0.19		
22	0.40	3.30	0.48	0.52	4.75	6.04	9.55	10.05	11.30	6.04	4.45	0.19		
23	0.40	3.30	0.44	0.52	4.90	5.86	9.55	11.30	10.55	6.04	4.45	0.13		
24	0.40	3.30	0.44	0.52	4.90	6.58	4.60	10.30	9.80	6.04	4.45	0.10		
25	0.37	0.48	0.44	0.52	4.90	6.04	3.80	10.30	9.55	6.04	0.19	0.10		
26	0.37	0.64	0.44	1.79	4.90	5.20	3.70	9.10	9.55	6.04	0.19	0.10		
27	0.37	0.52	0.44	2.90	4.90	8.50	3.30	1.05	8.70	6.04	0.19	0.10		
28	0.37	0.60	0.44	2.90	5.05	8.90	3.30	0.19	7.50	6.04	0.08	0.08		
29	0.37	0.52	0.44	2.90	4.90	7.70	3.10	0.16	7.50	6.04	0.08	0.07		
30	0.37	0.90	0.44	2.90	6.22	7.70	2.70	0.13	7.50	4.75		0.07		
31		0.68		3.00	9.55		2.40		11.30	0.60		0.07		
Total	31.50	54.22	51.82	72.49	105.55	147.44	391.98	155.35	143.12	78.24	42.43	23.97	1298.11	CMSDAY
Mean	1.05	1.75	1.73	2.34	3.40	4.91	12.64	5.18	4.62	2.52	1.46	0.77	3.55	CMS
Max	4.30	5.50	3.70	6.94	9.55	9.55	46.08	11.30	11.55	7.50	4.45	3.00	46.08	CMS
Min	0.37	0.37	0.44	0.44	0.52	0.68	2.40	0.13	0.09	0.08	0.08	0.07	0.07	CMS
Runoff	2.72	4.69	4.48	6.26	9.12	12.74	33.87	13.42	12.37	6.76	3.67	2.07	112.16	MCM
Momentary Peak	CMS. at 103.43 m. (MSL.) at 06.00 Hours , on Oct 17 , 2011													
Runoff Yield	15.59	Liters/Second/Square KM.			Momentary Peak Yield			204.959	Liters/Second/Square KM.					

WATER YEAR : 2011

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Luang Dod, Phra Nakhon Si Ayutthaya (C.36)

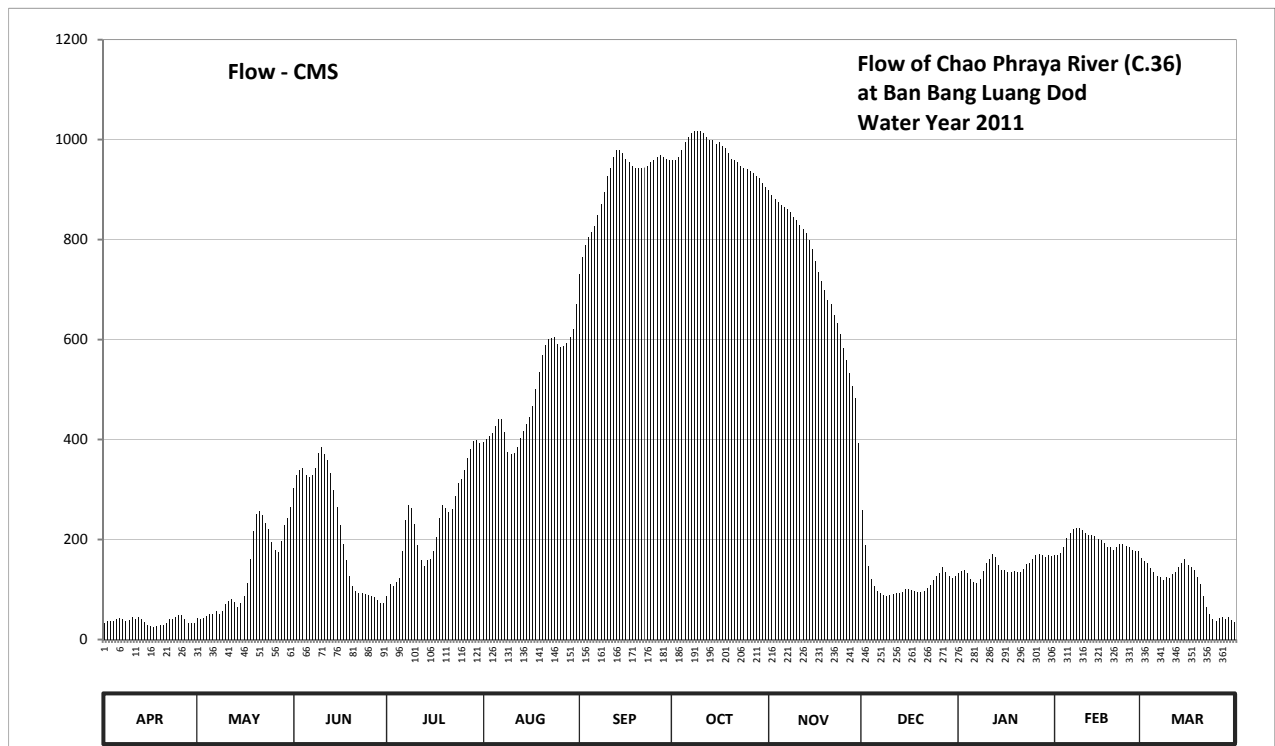
Lat 14 - 24 - 50 N Long 100 - 26 - 37 E

Location : on right bank at the bridge.

	Ban	Bang Luang Dod	Amphoe	Bang Ban	Changwat	Phra Nakhon Si Ayutthaya
Drainage Area		Flood Plain				
Type of Gage		Water - stage recorder				
Zero Gage at Bottom		+0.000 m. (MSL.)				
Bench Mark		B.M.-H.D.				
Location BM		On right bank near the top staff gage			Elevation	+7.500 m. (MSL.)
Gage Reading Frequency		Recording				
Basis of Mean Daily Gage Height		Arithmetic means of 24 readings				
Period of Available Gage Records		1982 to date				
Rating Operation						
Period of Rating		1983 to date				
Rated by Flot		-				
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 good. Stage-discharge relation defined by 31 discharge measurements made in 2011.				

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	0.48	3.23	1.13	3.91	5.64	6.38	6.21	4.15	1.69	2.06	2.00	
2	0.38	0.46	3.43	1.43	3.95	5.77	6.38	6.18	3.91	1.73	2.05	1.94	
3	0.37	0.49	3.51	1.38	3.99	5.86	6.40	6.16	3.67	1.76	2.10	1.90	
4	0.38	0.54	3.54	1.49	4.03	5.91	6.44	6.14	3.45	1.69	2.22	1.80	
5	0.43	0.61	3.44	1.57	4.13	5.95	6.48	6.12	3.25	1.56	2.40	1.71	
6	0.48	0.63	3.40	2.15	4.22	5.99	6.51	6.11	3.10	1.49	2.49	1.62	
7	0.44	0.70	3.44	2.72	4.22	6.06	6.53	6.10	3.01	1.45	2.56	1.59	
8	0.36	0.62	3.54	2.97	4.04	6.13	6.54	6.08	2.90	1.56	2.58	1.54	
9	0.40	0.72	3.76	2.93	3.78	6.20	6.54	6.05	2.72	1.73	2.58	1.59	
10	0.51	0.92	3.85	2.64	3.74	6.29	6.54	6.03	2.58	1.89	2.53	1.58	
11	0.45	1.01	3.75	2.26	3.76	6.34	6.53	6.00	2.52	1.98	2.49	1.66	
12	0.50	1.05	3.66	1.96	3.85	6.40	6.51	5.97	2.50	2.09	2.45	1.72	
13	0.46	0.98	3.47	1.84	3.97	6.44	6.49	5.94	2.46	2.01	2.45	1.82	
14	0.35	0.84	3.21	1.95	4.06	6.44	6.49	5.89	2.36	1.86	2.43	1.90	
15	0.19	0.93	2.95	1.98	4.15	6.42	6.47	5.83	2.27	1.76	2.38	1.97	
16	0.14	1.13	2.63	2.13	4.24	6.39	6.48	5.74	2.25	1.76	2.35	1.86	
17	0.12	1.45	2.27	2.41	4.38	6.37	6.46	5.66	2.29	1.70	2.30	1.82	
18	0.17	1.97	1.95	2.76	4.59	6.35	6.45	5.59	2.34	1.71	2.22	1.75	
19	0.21	2.51	1.63	2.98	4.77	6.34	6.42	5.52	2.36	1.74	2.22	1.59	
20	0.21	2.83	1.39	2.92	4.94	6.34	6.39	5.44	2.36	1.70	2.17	1.43	
21	0.30	2.87	1.26	2.85	5.04	6.34	6.38	5.40	2.33	1.71	2.23	1.14	
22	0.43	2.80	1.20	2.91	5.09	6.34	6.37	5.31	2.23	1.77	2.27	0.84	
23	0.46	2.66	1.22	3.12	5.10	6.35	6.35	5.24	2.13	1.88	2.27	0.62	
24	0.52	2.55	1.19	3.31	5.11	6.37	6.34	5.14	2.01	1.91	2.25	0.43	
25	0.59	2.32	1.15	3.38	5.05	6.38	6.33	5.01	1.93	1.99	2.21	0.39	
26	0.59	2.16	1.13	3.51	5.02	6.40	6.32	4.89	1.88	2.06	2.16	0.49	
27	0.46	2.11	1.10	3.69	5.03	6.41	6.31	4.76	1.82	2.08	2.15	0.53	
28	0.29	2.34	1.03	3.82	5.06	6.40	6.29	4.63	1.71	2.05	2.13	0.46	
29	0.27	2.62	0.93	3.92	5.11	6.39	6.28	4.49	1.61	2.02	2.03	0.53	
30	0.27	2.75	0.95	3.94	5.19	6.38	6.25	4.33	1.58	2.05		0.40	
31		2.95		3.90	5.40		6.23		1.63	2.03		0.35	
Mean	0.37	1.58	2.44	2.64	4.48	6.25	6.42	5.60	2.49	1.82	2.30	1.32	
Max	0.59	2.95	3.85	3.94	5.40	6.44	6.54	6.21	4.15	2.09	2.58	2.	



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.00	42.80	301.90	86.40	394.50	730.40	958.00	898.50	260.00	133.10	169.00	163.00	
2	37.00	41.60	327.90	110.40	400.50	764.90	958.00	888.40	189.30	136.70	168.00	157.00	
3	36.50	43.40	338.30	106.40	406.50	789.80	965.00	881.80	147.10	139.40	173.00	153.00	
4	37.00	46.40	342.20	115.20	412.50	803.90	979.80	875.20	122.00	133.10	185.00	143.00	
5	39.80	50.60	329.20	122.30	427.50	815.50	994.60	868.60	106.50	121.40	204.00	134.90	
6	42.80	51.80	324.00	178.00	441.00	827.10	1005.80	865.30	96.00	115.20	213.90	126.80	
7	40.40	56.00	329.20	239.20	441.00	849.20	1013.40	862.00	93.30	112.00	221.60	124.10	
8	36.00	51.20	342.20	268.40	414.00	871.90	1017.20	855.60	90.00	121.40	223.80	119.60	
9	38.00	57.40	372.40	263.60	375.20	895.00	1017.20	846.00	87.20	136.70	223.80	124.10	
10	44.60	71.40	385.50	230.40	369.60	926.50	1017.20	839.60	88.80	152.00	218.30	123.20	
11	41.00	77.70	371.00	189.00	372.40	944.00	1013.40	830.00	91.20	161.00	213.90	130.40	
12	44.00	80.50	358.40	159.00	385.50	965.00	1005.80	821.30	92.00	172.00	209.50	135.80	
13	41.60	75.60	333.10	147.00	403.50	979.80	998.30	812.60	92.80	164.00	209.50	145.00	
14	35.50	65.80	299.30	158.00	417.00	979.80	998.30	798.20	95.60	149.00	207.30	153.00	
15	28.60	72.10	266.00	161.00	430.50	972.40	990.90	781.40	100.10	139.40	201.80	160.00	
16	26.60	86.40	229.30	176.00	444.00	961.50	994.60	756.80	101.50	139.40	198.50	149.00	
17	25.80	112.00	190.00	205.10	465.80	954.50	987.20	735.60	98.70	134.00	193.00	145.00	
18	27.80	160.00	158.00	243.60	500.30	947.50	983.50	717.40	96.40	134.90	185.00	138.50	
19	29.40	216.10	127.70	269.60	534.00	944.00	972.40	699.20	95.60	137.60	185.00	124.10	
20	29.40	251.60	107.20	262.40	568.00	944.00	961.50	679.60	95.60	134.00	180.00	110.40	
21	33.00	256.40	96.80	254.00	588.80	944.00	958.00	670.00	96.80	134.90	186.00	87.20	
22	39.80	248.00	92.00	261.20	599.80	944.00	954.50	648.40	102.90	140.30	190.00	65.80	
23	41.60	232.60	93.60	287.60	602.00	947.50	947.50	632.80	108.50	151.00	190.00	51.20	
24	45.20	220.50	91.20	312.30	604.20	954.50	944.00	610.80	119.00	154.00	188.00	39.80	
25	49.40	195.20	88.00	321.40	591.00	958.00	940.50	582.20	127.00	162.00	184.00	37.50	
26	49.40	179.00	86.40	338.30	584.40	965.00	937.00	558.00	132.60	169.00	179.00	43.40	
27	41.60	174.00	84.00	362.60	586.60	968.70	933.50	532.00	145.00	171.00	178.00	45.80	
28	32.60	197.40	79.10	381.00	593.20	965.00	926.50	507.40	134.90	168.			

WATER YEAR : 2011

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Ban, Phra Nakhon Si Ayutthaya (C.37)

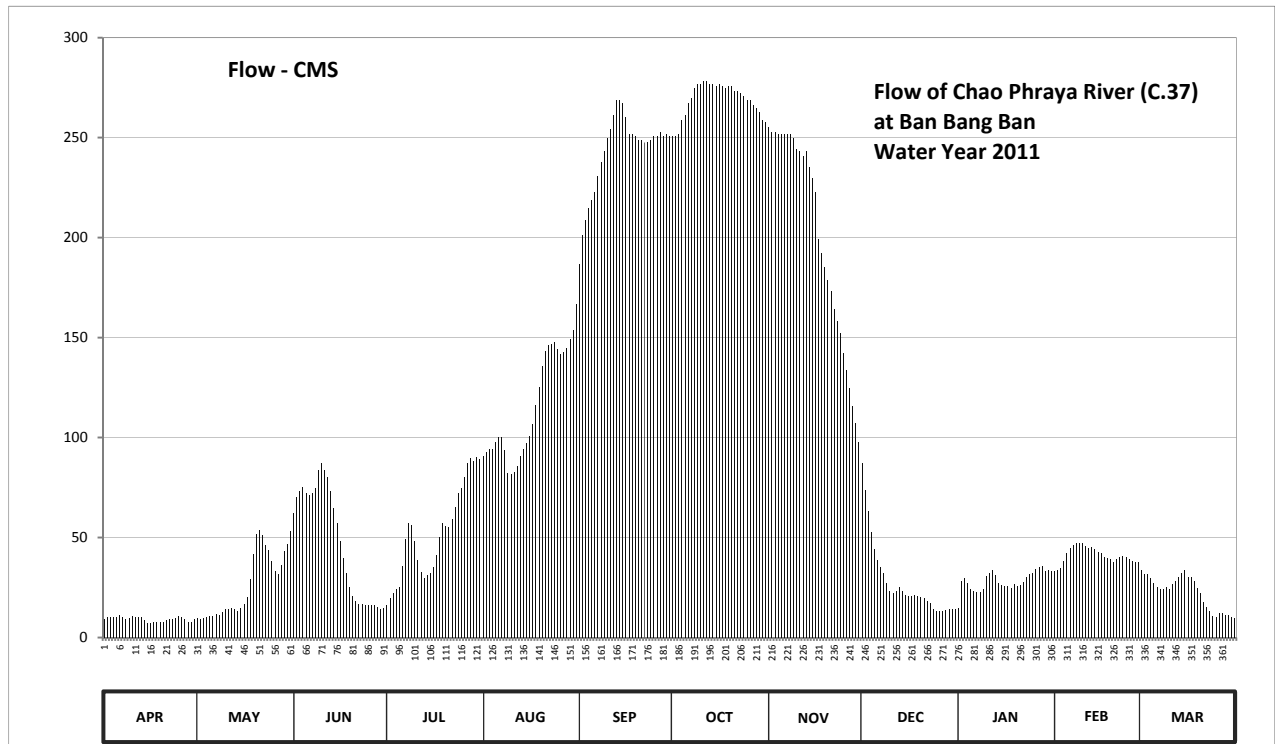
Lat 14 - 21 - 28 N Long 100 - 29 - 03 E

Location : on left bank at the bridge.

	Ban	Bang Ban	Amphoe	Bang Ban	Changwat	Phra Nakhon Si Ayutthaya
Drainage Area		Flood Plain				
Type of Gage		Water - stage recorder				
Zero Gage at Bottom		+0.000 m. (MSL.)				
Bench Mark		B.M.-H.D.				
Location BM		On left bank near the top staff gage			Elevation	+7.703 m. (MSL.)
Gage Reading Frequency		Recording				
Basis of Mean Daily Gage Height		Arithmetic means of 24 readings				
Period of Available Gage Records		1982 to date				
Rating Operation						
Period of Rating		1983 to date				
Rated by Flot		-				
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 good. Stage-discharge relation defined by 34 discharge measurements made in 2011.				

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.36	2.51	0.82	3.17	4.64	5.28	5.32	3.72	1.34	1.60	1.62	
2	0.42	0.33	2.71	1.04	3.22	4.80	5.28	5.30	3.52	1.42	1.62	1.56	
3	0.41	0.36	2.78	1.17	3.25	4.88	5.29	5.30	3.33	1.49	1.66	1.55	
4	0.41	0.41	2.83	1.26	3.25	4.94	5.35	5.29	3.14	1.38	1.77	1.48	
5	0.42	0.45	2.76	1.31	3.33	4.98	5.37	5.29	2.96	1.26	1.91	1.38	
6	0.48	0.44	2.73	1.69	3.38	5.02	5.42	5.29	2.82	1.22	1.99	1.31	
7	0.43	0.51	2.75	2.14	3.38	5.10	5.44	5.29	2.73	1.18	2.05	1.27	
8	0.34	0.47	2.82	2.37	3.24	5.16	5.48	5.29	2.65	1.19	2.07	1.25	
9	0.36	0.59	3.01	2.34	2.98	5.21	5.50	5.27	2.50	1.27	2.08	1.30	
10	0.45	0.70	3.09	2.11	2.97	5.27	5.50	5.22	2.37	1.52	2.08	1.27	
11	0.41	0.69	3.01	1.79	2.99	5.31	5.51	5.21	2.30	1.57	2.02	1.37	
12	0.43	0.71	2.94	1.59	3.06	5.37	5.51	5.19	2.37	1.63	2.00	1.43	
13	0.43	0.67	2.78	1.49	3.17	5.43	5.50	5.21	2.44	1.54	2.01	1.51	
14	0.28	0.62	2.57	1.54	3.25	5.43	5.50	5.14	2.35	1.39	1.98	1.57	
15	0.12	0.73	2.36	1.57	3.32	5.42	5.49	5.09	2.27	1.35	1.92	1.63	
16	0.14	0.84	2.10	1.67	3.39	5.36	5.50	5.02	2.23	1.33	1.90	1.51	
17	0.17	1.05	1.82	1.88	3.51	5.29	5.49	4.91	2.23	1.33	1.85	1.50	
18	0.19	1.46	1.58	2.17	3.67	5.29	5.48	4.86	2.25	1.29	1.82	1.43	
19	0.19	1.89	1.31	2.37	3.82	5.28	5.49	4.81	2.24	1.37	1.81	1.29	
20	0.15	2.20	1.09	2.32	3.98	5.26	5.49	4.75	2.22	1.33	1.76	1.16	
21	0.27	2.26	0.96	2.31	4.09	5.26	5.47	4.70	2.19	1.34	1.81	0.92	
22	0.31	2.19	0.86	2.42	4.13	5.25	5.47	4.62	2.10	1.40	1.84	0.76	
23	0.33	2.05	0.85	2.58	4.14	5.25	5.46	4.56	2.05	1.51	1.86	0.60	
24	0.37	1.96	0.82	2.76	4.15	5.26	5.45	4.50	1.83	1.55	1.85	0.45	
25	0.44	1.77	0.81	2.82	4.10	5.28	5.43	4.41	1.60	1.58	1.80	0.43	
26	0.43	1.61	0.81	2.94	4.07	5.28	5.43	4.32	1.68	1.64	1.77	0.54	
27	0.31	1.55	0.82	3.09	4.08	5.30	5.41	4.22	1.60	1.68	1.76	0.56	
28	0.17	1.70	0.75	3.15	4.11	5.28	5.40	4.11	1.49	1.69	1.75	0.48	
29	0.18	1.94	0.68	3.11	4.17	5.29	5.38	4.00	1.39	1.61	1.65	0.47	
30	0.31	2.06	0.72	3.16	4.24	5.28	5.35	3.87	1.36	1.62		0.40	
31		2.25		3.14	4.41		5.34		1.35	1.60		0.35	
Mean	0.32	1.19	1.92	2.13	3.61	5.21	5.43	4.88	2.30	1.44	1.86	1.11	
Max	0.48	2.26	3.09	3.16	4.41	5.43	5.51	5.32	3.72	1.69	2.08	1.63	5.51
Min	0.12	0.33	0.68	0.82	2.97	4.64	5.28	3.87	1.35	1.18	1.60	0.35	0.12
Annual Max Momentary Gage Height	5.54		m. (MSL.) ,		at 21.00 Hours , on Oct 12 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	-3.13		m. (MSL)					
Left Bank Elevation	7.53		m. (MSL.) ,										
Right Bank Elevation	6.61		m. (MSL.) ,		Drainage Area	Square Kilometers							



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.20	9.60	62.40	16.30	90.65	186.60	250.80	255.40	87.40	14.60	33.00	33.60	
2	10.30	9.30	70.40	19.80	92.90	201.00	250.80	253.00	73.80	28.00	33.60	31.80	
3	10.15	9.60	73.20	22.40	94.25	209.00	251.90	253.00	63.15	29.75	34.80	31.50	
4	10.15	10.15	75.35	24.20	94.25	215.00	259.00	251.90	53.00	27.00	38.10	29.50	
5	10.30	10.75	72.40	25.25	97.85	219.00	261.40	251.90	44.40	24.20	42.30	27.00	
6	11.20	10.60	71.20	35.70	100.10	223.00	267.40	251.90	38.80	23.40	44.70	25.25	
7	10.45	11.65	72.00	49.40	100.10	231.00	269.80	251.90	35.20	22.60	46.50	24.40	
8	9.40	11.05	74.90	57.45	93.80	237.60	274.60	251.90	32.00	22.80	47.10	24.00	
9	9.60	12.85	83.45	56.40	82.10	243.10	277.00	249.70	27.00	24.40	47.40	25.00	
10	10.75	14.50	87.05	48.35	81.65	249.70	277.00	244.20	23.40	30.60	47.40	24.40	
11	10.15	14.35	83.45	38.70	82.55	254.20	278.20	243.10	22.00	32.10	45.60	26.75	
12	10.45	14.65	80.30	32.70	85.70	261.40	278.20	240.90	23.40	33.90	45.00	28.25	
13	10.45	14.05	73.20	29.75	90.65	268.60	277.00	243.10	25.20	31.20	45.30	30.30	
14	8.80	13.30	64.80	31.20	94.25	268.60	277.00	235.40	23.00	27.25	44.40	32.10	
15	7.20	14.95	57.10	32.10	97.40	267.40	275.80	230.00	21.40	26.25	42.60	33.90	
16	7.40	16.60	48.00	35.10	100.55	260.20	277.00	223.00	20.60	25.75	42.00	30.30	
17	7.70	20.00	39.60	41.40	106.60	251.90	275.80	199.20	20.60	25.75	40.50	30.00	
18	7.90	29.00	32.40	50.45	116.20	251.90	274.60	192.40	21.00	24.80	39.60	28.25	
19	7.90	41.70	25.25	57.45	125.20	250.80	275.80	185.40	20.80	26.75	39.30	24.80	
20	7.50	51.50	20.80	55.70	135.60	248.60	275.80	178.50	20.40	25.75	37.80	22.20	
21	8.70	53.60	18.40	55.35	143.30	248.60	273.40	173.00	19.80	26.00	39.30	17.80	
22	9.10	51.15	16.90	59.20	146.10	247.50	273.40	164.20	18.00	27.50	40.20	15.40	
23	9.30	46.50	16.75	65.20	146.80	247.50	272.20	158.00	17.00	30.30	40.80	13.00	
24	9.70	43.80	16.30	72.40	147.50	248.60	271.00	152.00	14.30	31.50	40.50	10.75	
25	10.60	38.10	16.15	74.90	144.00	250.80	268.60	142.10	13.00	32.40	39.00	10.45	
26	10.45	33.30	16.15	80.30	141.90	250.80	268.60	133.80	13.40	34.20	38.10	12.10	
27	9.10	31.50	16.30	87.05	142.60	253.00	266.20	124.80	13.00	35.40	37.80	12.40	
28	7.70	36.00	15.25	89.75	144.70	250.80	265.00	115.80	13.55	35.70	37.50	11.20	
29	7.80	43.20	14.20	87.95	148.90	251.90	262.60	107.00	14.10	33.30	34.50	1	

WATER YEAR : 2011

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban In Buri, Sing Buri (C.44)

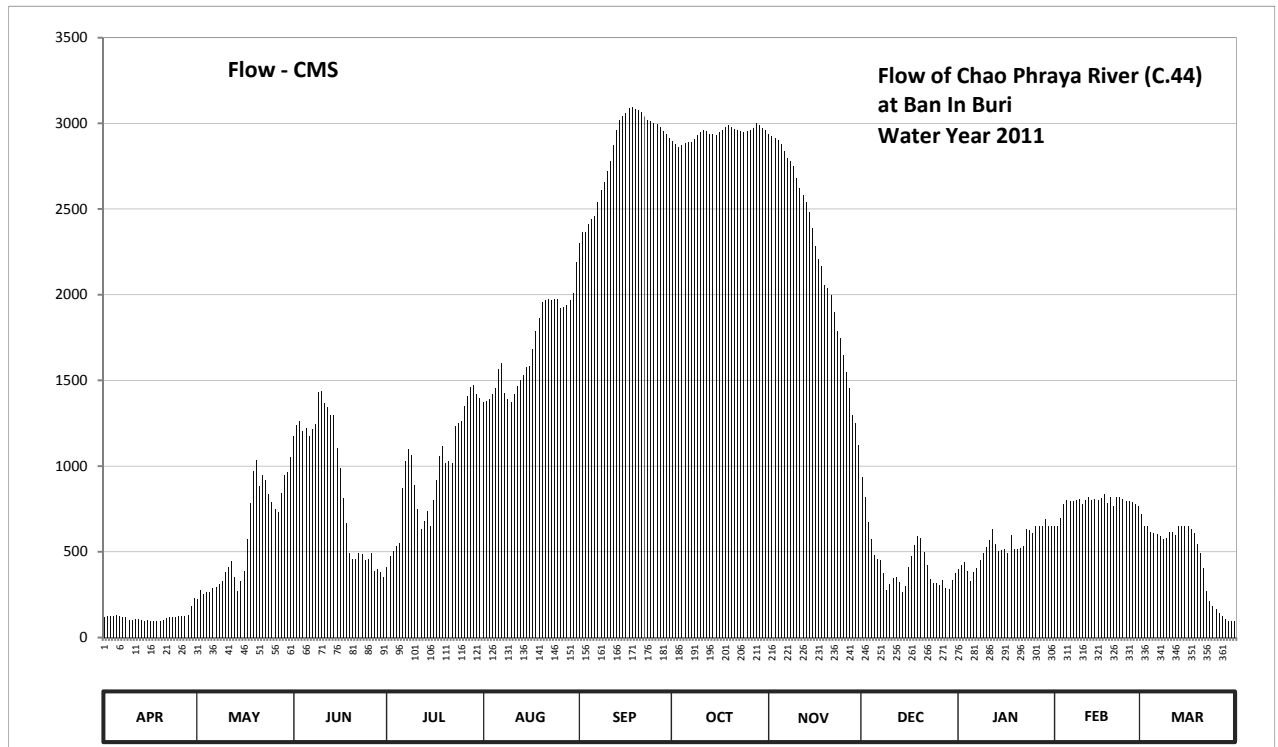
Lat 15 - 00 - 18 N Long 100 - 19 - 48 E

Location : on right bank at the bridge

	Ban	In Buri	Amphoe	In Buri	Changwat	Sing Buri
Drainage Area	118,510	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site				Elevation	+13.856 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2005 to date					
Rating Operation						
Period of Rating	2005 to date					
Rated by Flot	-					
Rated by Current Meter	2005 to date					
Stability of Channel Regimes	Fairly stable					
Overbank Flow Conditions	Overbank flow starts at elevation +12.180 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.39	5.48	10.10	6.74	10.75	13.39	14.89	15.00	9.23	6.65	8.00	8.34	
2	4.43	5.87	10.32	7.09	10.77	13.56	14.85	14.97	8.78	6.78	8.00	8.00	
3	4.48	5.70	10.38	7.25	10.80	13.56	14.80	14.93	8.12	6.90	8.22	8.00	
4	4.43	5.79	10.20	7.40	10.90	13.68	14.84	14.90	7.64	6.60	8.59	7.83	
5	4.54	5.80	10.25	7.50	11.00	13.75	14.86	14.85	7.13	6.25	8.70	7.80	
6	4.48	5.96	10.10	8.98	11.35	13.80	14.88	14.75	6.99	6.55	8.68	7.78	
7	4.42	5.99	10.23	9.60	11.45	14.00	14.88	14.65	6.95	6.70	8.68	7.73	
8	4.35	6.12	10.34	9.85	10.92	14.18	14.92	14.60	6.53	6.97	8.70	7.63	
9	4.14	6.25	10.93	9.72	10.80	14.30	14.98	14.52	5.89	7.20	8.73	7.65	
10	4.13	6.57	10.95	9.05	10.75	14.45	15.02	14.35	6.10	7.38	8.60	7.84	
11	4.18	6.72	10.74	8.45	10.90	14.60	15.05	14.20	6.36	7.60	8.69	7.85	
12	4.15	6.94	10.67	7.92	11.05	14.83	15.03	14.10	6.40	7.93	8.78	7.75	
13	4.10	6.38	10.50	8.15	11.15	15.05	15.00	14.00	6.18	7.46	8.71	8.00	
14	4.04	5.85	10.50	8.40	11.25	15.20	15.00	13.86	5.80	7.25	8.72	8.00	
15	4.08	6.23	9.86	8.00	11.38	15.25	14.98	13.62	6.02	7.28	8.71	8.00	
16	4.02	6.60	9.45	8.69	11.40	15.30	15.02	13.35	6.73	7.31	8.74	8.00	
17	3.98	7.64	8.75	9.18	11.69	15.37	15.05	13.15	7.08	7.19	8.84	7.93	
18	4.03	8.61	8.10	9.70	12.00	15.38	15.09	13.05	7.43	7.75	8.61	7.80	
19	4.05	9.38	7.18	9.90	12.21	15.36	15.12	12.75	7.73	7.30	8.76	7.48	
20	4.13	9.62	7.00	9.57	12.48	15.35	15.09	12.70	7.66	7.32	8.54	7.19	
21	4.28	9.04	6.98	9.60	12.50	15.31	15.07	12.60	7.21	7.35	8.78	6.70	
22	4.35	9.28	7.20	9.57	12.52	15.25	15.06	12.30	6.78	7.42	8.77	5.85	
23	4.36	9.17	7.15	10.30	12.50	15.20	15.04	12.00	6.32	7.93	8.73	5.40	
24	4.40	8.85	6.95	10.35	12.53	15.18	15.02	11.87	6.14	7.90	8.66	5.16	
25	4.43	8.65	7.00	10.38	12.53	15.15	15.04	11.60	6.16	7.80	8.68	4.93	
26	4.43	8.45	7.20	10.68	12.37	15.14	15.06	11.30	6.06	8.00	8.65	4.69	
27	4.43	8.39	6.60	10.86	12.40	15.09	15.08	11.00	6.28	8.00	8.60	4.43	
28	4.52	8.86	6.67	11.03	12.42	15.04	15.15	10.50	5.96	8.00	8.53	4.15	
29	5.16	9.29	6.55	11.07	12.50	15.00	15.12	10.35	5.93	8.20	8.39	4.05	
30	5.55	9.36	6.40	10.90	12.62	14.94	15.08	9.92	6.28	8.00		4.02	
31		9.68		10.82	13.10		15.06		6.52	8.00		3.98	
Mean	4.35	7.50	8.84	9.25	11.71	14.72	15.00	13.19	6.79	7.39	8.61	6.77	
Max	5.55	9.68	10.95	11.07	13.10	15.38	15.15	15.00	9.23	8.20	8.84	8.34	15.38
Min	3.98	5.48	6.40	6.74	10.75	13.39	14.80	9.92	5.80	6.25	8.00	3.98	3.98
Annual Max Momentary Gage Height	15.38		m. (MSL.) , at 06.00 Hours , on Sep 18 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) , River Bed 2.00 m. (MSL)										
Left Bank Elevation	12.18		m. (MSL.) ,										
Right Bank Elevation	13.65		m. (MSL.) , Drainage Area 118510 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	120.30	221.60	1175.00	413.20	1372.00	2298.20	2896.00	2940.00	932.50	397.50	648.00	722.80		
2	123.10	275.80	1241.00	476.20	1378.40	2364.00	2880.00	2928.00	821.20	420.40	648.00	648.00		
3	126.60	252.00	1259.00	505.00	1388.00	2364.00	2860.00	2912.00	674.40	442.00	696.40	648.00		
4	123.10	264.60	1205.00	532.00	1420.00	2412.00	2876.00	2900.00	576.00	389.00	777.80	614.00		
5	130.80	266.00	1220.00	550.00	1452.00	2440.00	2884.00	2880.00	483.40	332.50	802.00	608.00		
6	126.60	289.00	1175.00	870.00	1566.50	2460.00	2892.00	2840.00	458.20	380.50	797.60	604.00		
7	122.40	293.50	1214.00	1028.00	1599.50	2540.00	2892.00	2800.00	451.00	406.00	797.60	594.00		
8	117.50	313.00	1247.00	1100.50	1426.40	2612.00	2908.00	2780.00	377.10	454.60	802.00	574.00		
9	104.40	332.50	1429.60	1062.80	1388.00	2660.00	2932.00	2748.00	278.60	496.00	809.20	578.00		
10	103.80	383.90	1436.00	887.50	1372.00	2720.00	2948.00	2680.00	310.00	528.40	780.00	616.00		
11	106.80	409.60	1368.80	747.00	1420.00	2780.00	2960.00	2620.00	349.00	568.00	799.80	618.00		
12	105.00	449.20	1346.70	632.00	1468.00	2872.00	2952.00	2580.00	355.00	634.00	821.20	598.00		
13	102.00	352.00	1295.00	681.00	1500.50	2960.00	2940.00	2540.00	322.00	542.80	804.40	648.00		
14	98.40	273.00	1295.00	736.00	1533.50	3020.00	2940.00	2484.00	266.00	505.00	806.80	648.00		
15	100.80	329.50	1103.40	648.00	1576.40	3040.00	2932.00	2388.00	298.00	510.40	804.40	648.00		
16	97.20	389.00	987.50	799.80	1583.00	3060.00	2948.00	2283.00	411.40	515.80	811.60	648.00		
17	94.80	576.00	814.00	920.00	1681.50	3088.00	2960.00	2207.00	474.40	494.20	835.60	634.00		
18	97.80	782.20	670.00	1057.00	1790.00	3092.00	2976.00	2169.00	537.40	598.00	782.20	608.00		
19	99.00	970.00	492.40	1115.00	1863.50	3084.00	2988.00	2055.00	594.00	514.00	816.40	546.40		
20	103.80	1033.80	460.00	1019.60	1958.00	3080.00	2976.00	2036.00	580.00	517.60	766.80	494.20		
21	112.80	885.00	456.40	1028.00	1965.00	3064.00	2968.00	2000.00	497.80	523.00	821.20	406.00		
22	117.50	945.00	496.00	1019.60	1972.00	3040.00	2964.00	1895.00	420.40	535.60	818.80	273.00		
23	118.20	917.50	487.00	1235.00	1965.00	3020.00	2956.00	1790.00	343.00	634.00	809.20	212.00		
24	121.00	838.00	451.00	1250.00	1975.50	3012.00	2948.00	1744.50	316.00	628.00	793.20	186.00		
25	123.10	791.00	460.00	1259.00	1975.50	3000.00	2956.00	1650.00	319.00	608.00	797.60	163.00		
26	123.10	747.00	496.00	1349.80	1919.50	2996.00	2964.00	1550.00	304.00	648.00	791.00	142.20		
27	123.10	733.80	389.00	1407.20	1930.00	2976.00	2972.00	1452.00	337.00	648.00	780.00	123.10		
28	129.40	840.40	400.90	1461.60	1937.00	2956.00	3000.00	1295.00	289.00	648.00	764.60	105.00		
29	186.00	947.50	380.50	1474.40	1965.00	2940.00	2988.00	1250.00	284.50	692.00	733.80	99.00		
30	231.00	965.00	355.00	1420.00	2007.20	2916.00	2972.00	1121.00	337.00	648.00		97.20		
31		1051.20		1394.40	2188.00		2964.00		375.40	648.00		94.80		
Total	3589.40	18117.60	26806.20	30079.60	52536.90	84866.20	91192.00	67517.50	13372.70	16507.30	22717.20	14198.70	441501.30	CMSDAY
Mean	119.60	584.40	893.50	970.30	1694.70	2828.90	2941.70	2250.60	431.40	532.50	783.40	458.00	1206.30	CMS
Max	231.00	1051.20	1436.00	1474.40	2188.00	3092.00	3000.00	2940.00	932.50	692.00	835.60	722.80	3092.00	CMS
Min	94.80	221.60	355.00	413.20	1372.00	2298.20	2860.00	1121.00	266.00	332.50	648.00	94.80	94.80	CMS
Runoff	310.12	1565.36	2316.06	2598.88	4539.19	7332.44	7878.99	5833.51	1155.4	1426.23	1962.77	1226.77	38145.71	MCM
Momentary Peak	3092.00 CMS. at 15.38 m. (MSL.) at 06.00 Hours , on Sep 18 , 2011													
Runoff Yield	10.18	Liters/Second/Square KM.			Momentary Peak Yield			26.091	Liters/Second/Square KM.					

WATER YEAR : 2011**CHAO PHRAYA RIVER BASIN****Huai Khun Kaeo at Ban Ngiu Ngam, Uthai Thani (C.50)**

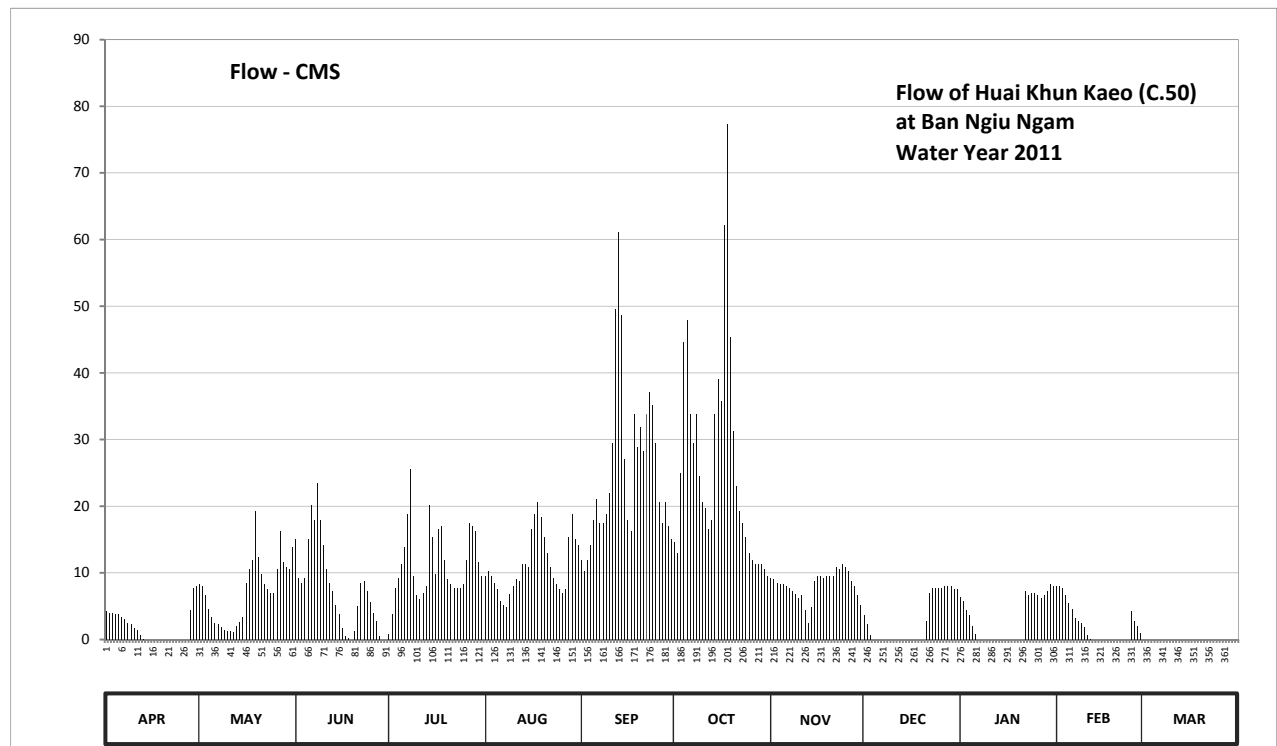
Lat 15 - 18 - 23 N Long 99 - 51 - 15 E

Location : on right bank at the bridge

	Ban	Ngiu Ngam	Amphoe	Nong Chang	Changwat	Uthai Thani
Drainage Area	-	sq.km.				
Type of Gage		Staff gage.				
Zero Gage at Bottom	+45.100	m. (MSL.)				
Bench Mark		B.M.-H.D.				
Location BM		On right bank near the gage site			Elevation	+50.716 m. (MSL.)
Gage Reading Frequency		5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height		Arithmetic means of 5 readings				
Period of Available Gage Records		1996 to date				
Rating Operation						
Period of Rating		1996 to date				
Rated by Flot		-				
Rated by Current Meter		1996 to date				
Stability of Channel Regimes		Fairly stable.				
Overbank Flow Conditions		No overbank flow.				
General Description		Records good. Stage-discharge relation defined by 3 discharge measurements made in 2011.				

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	47.76	47.95	48.15	47.52	48.00	48.07	48.14	47.99	47.73	47.87	47.94	47.29	
2	47.75	47.94	47.99	47.74	48.02	48.02	48.10	47.98	47.64	47.84	47.94	47.08	
3	47.75	47.88	47.96	47.93	48.00	48.07	48.37	47.96	47.50	47.77	47.93	46.90	
4	47.74	47.78	47.99	47.99	47.96	48.13	48.67	47.95	47.36	47.73	47.88	46.65	
5	47.74	47.72	48.15	48.05	47.92	48.22	48.71	47.95	47.26	47.62	47.82	46.40	
6	47.72	47.66	48.27	48.12	47.84	48.29	48.52	47.94	47.24	47.52	47.78	46.25	
7	47.70	47.64	48.22	48.24	47.81	48.21	48.45	47.93	47.22	47.39	47.71	46.17	
8	47.66	47.60	48.34	48.38	47.79	48.21	48.52	47.91	47.22	47.27	47.68	46.12	
9	47.64	47.57	48.22	48.00	47.89	48.24	48.36	47.89	47.22	47.18	47.65	46.10	
10	47.59	47.55	48.13	47.88	47.94	48.31	48.28	47.86	47.23	47.17	47.60	46.09	
11	47.57	47.55	48.03	47.85	47.98	48.45	48.26	47.88	47.24	47.16	47.50	46.09	
12	47.50	47.54	47.96	47.90	47.97	48.73	48.19	47.77	47.24	47.16	47.42	46.09	
13	47.41	47.62	47.91	47.94	48.05	48.86	48.22	47.65	47.24	47.16	47.27	46.09	
14	47.34	47.67	47.81	48.27	48.05	48.72	48.52	47.79	47.22	47.16	47.20	46.08	
15	47.28	47.72	47.74	48.16	48.04	48.41	48.60	47.97	47.18	47.16	47.18	46.08	
16	47.20	47.96	47.59	48.01	48.19	48.22	48.55	48.00	47.16	47.15	47.16	46.08	
17	47.14	48.03	47.48	48.19	48.24	48.18	48.87	48.00	47.16	47.15	47.10	46.08	
18	47.11	48.07	47.43	48.20	48.28	48.52	49.02	47.99	47.15	47.15	46.85	46.08	
19	47.10	48.25	47.37	48.07	48.23	48.44	48.68	48.00	47.15	47.15	46.63	46.08	
20	47.10	48.08	47.55	47.98	48.16	48.49	48.48	48.00	47.20	47.14	46.45	46.07	
21	47.10	48.01	47.80	47.95	48.10	48.43	48.33	48.00	47.68	47.19	46.35	46.07	
22	47.08	47.95	47.96	47.93	48.04	48.52	48.25	48.04	47.90	47.91	46.45	46.06	
23	47.08	47.92	47.97	47.93	47.99	48.57	48.21	48.03	47.93	47.88	46.66	46.06	
24	47.07	47.90	47.91	47.93	47.95	48.54	48.16	48.05	47.93	47.90	47.13	46.05	
25	47.06	47.90	47.83	47.95	47.92	48.45	48.10	48.04	47.93	47.90	47.76	46.01	
26	47.07	48.03	47.75	48.07	47.90	48.28	48.07	48.02	47.93	47.88	47.68	45.96	
27	47.10	48.18	47.68	48.21	47.92	48.21	48.05	47.97	47.94	47.86	47.62	45.90	
28	47.77	48.06	47.48	48.20	48.16	48.28	48.05	47.94	47.94	47.88	47.53	45.85	
29	47.93	48.04	47.39	48.18	48.24	48.20	48.05	47.88	47.94	47.91	47.45	45.84	
30	47.94	48.03	47.36	48.06	48.15	48.15	48.03	47.81	47.92	47.95		45.84	
31		48.12		48.00	48.13		48.00		47.92	47.94		45.77	
Mean	47.43	47.87	47.85	48.03	48.03	48.35	48.35	47.94	47.50	47.52	47.36	46.17	
Max	47.94	48.25	48.34	48.38	48.28	48.86	49.02	48.05	47.94	47.95	47.94	47.29	49.02
Min	47.06	47.54	47.36	47.52	47.79	48.02	48.00	47.65	47.15	47.14	46.35	45.77	45.77
Annual Max Momentary Gage Height	49.04		m. (MSL.) ,		at 06.00 Hours , on Oct 18 , 2011								
Zero Gage at Bottom Elevation	45.10		m. (MSL.) ,		River Bed	43.96	m. (MSL)						
Left Bank Elevation	50.73		m. (MSL.) ,										
Right Bank Elevation	50.72		m. (MSL.) ,		Drainage Area		Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.20	8.25	15.00	0.84	9.50	11.95	14.60	9.25	3.60	6.40	8.00	0.00	
2	4.00	8.00	9.25	3.80	10.20	10.20	13.00	9.00	2.28	5.80	8.00	0.00	
3	4.00	6.60	8.50	7.75	9.50	11.95	25.00	8.50	0.60	4.40	7.75	0.00	
4	3.80	4.60	9.25	9.25	8.50	14.20	44.60	8.25	0.00	3.60	6.60	0.00	
5	3.80	3.40	15.00	11.25	7.50	17.90	47.85	8.25	0.00	2.04	5.40	0.00	
6	3.40	2.52	20.15	13.80	5.80	21.05	33.80	8.00	0.00	0.84	4.60	0.00	
7	3.00	2.28	17.90	18.80	5.20	17.45	29.50	7.75	0.00	0.00	3.20	0.00	
8	2.52	1.80	23.50	25.50	4.80	17.45	33.80	7.25	0.00	0.00	2.76	0.00	
9	2.28	1.44	17.90	9.50	6.80	18.80	24.50	6.80	0.00	0.00	2.40	0.00	
10	1.68	1.20	14.20	6.60	8.00	22.00	20.60	6.20	0.00	0.00	1.80	0.00	
11	1.44	1.20	10.55	6.00	9.00	29.50	19.70	6.60	0.00	0.00	0.60	0.00	
12	0.60	1.08	8.50	7.00	8.75	49.55	16.60	4.40	0.00	0.00	0.12	0.00	
13	0.06	2.04	7.25	8.00	11.25	61.20	17.90	2.40	0.00	0.00	0.00	0.00	
14	0.00	2.64	5.20	20.15	11.25	48.70	33.80	4.80	0.00	0.00	0.00	0.00	
15	0.00	3.40	3.80	15.40	10.90	27.10	39.00	8.75	0.00	0.00	0.00	0.00	
16	0.00	8.50	1.68	9.85	16.60	17.90	35.75	9.50	0.00	0.00	0.00	0.00	
17	0.00	10.55	0.48	16.60	18.80	16.20	62.15	9.50	0.00	0.00	0.00	0.00	
18	0.00	11.95	0.18	17.00	20.60	33.80	77.30	9.25	0.00	0.00	0.00	0.00	
19	0.00	19.25	0.00	11.95	18.35	28.90	45.40	9.50	0.00	0.00	0.00	0.00	
20	0.00	12.30	1.20	9.00	15.40	31.90	31.30	9.50	0.00	0.00	0.00	0.00	
21	0.00	9.85	5.00	8.25	13.00	28.30	23.00	9.50	2.76	0.00	0.00	0.00	
22	0.00	8.25	8.50	7.75	10.90	33.80	19.25	10.90	7.00	7.25	0.00	0.00	
23	0.00	7.50	8.75	7.75	9.25	37.05	17.45	10.55	7.75	6.60	0.00	0.00	
24	0.00	7.00	7.25	7.75	8.25	35.10	15.40	11.25	7.75	7.00	0.00	0.00	
25	0.00	7.00	5.60	8.25	7.50	29.50	13.00	10.90	7.75	7.00	4.20	0.00	
26	0.00	10.55	4.00	11.95	7.00	20.60	11.95	10.20	7.75	6.60	2.76	0.00	
27	0.00	16.20	2.76	17.45	7.50	17.45	11.25	8.75	8.00	6.20	2.04	0.00	
28	4.40	11.60	0.48	17.00	15.40	20.60	11.25	8.00	8.00	6.60	0.96	0.00	
29	7.75	10.90	0.00	16.20	18.80	17.00	11.25	6.60	8.00	7.25	0.30	0.00	
30	8.00	10.55	0.00	11.60	15.00	15.00	10.55	5.20	7.50	8.25		0.00	
31		13.80		9.50	14.20		9.50		7.50	8.00		0.00	
Total	54.93	226.20	231.83	351.49	343.50	762.10	820.00	245.30	86.24	93.83	61.49		

WATER YEAR : 2011**CHAO PHRAYA RIVER BASIN****Huai Khun Kaeo at Ban Kud Jok, Chai Nat (C.51)**

Lat 15 - 17 - 22 N Long 99 - 54 - 07 E

Location : on left bank at the bridge

	Ban	Kud Jok	Amphoe	Wat Sing	Changwat	Chai Nat
Drainage Area	1,059	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the bridge				Elevation	+37.426 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 6 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.55	30.79	31.88	30.97	31.15	31.60	31.62	31.78	31.71	29.47	29.47	29.47	
2	31.53	30.85	31.64	31.15	31.51	31.49	31.54	31.76	31.68	29.47	29.47	29.47	
3	31.52	30.97	31.12	31.26	31.45	31.82	31.23	31.75	31.64	29.47	29.47	29.47	
4	31.52	30.94	31.08	31.45	31.22	31.91	32.34	31.75	31.58	29.47	29.47	29.47	
5	31.52	30.86	31.23	31.75	30.89	32.05	32.84	31.74	31.53	29.47	29.47	29.47	
6	31.50	30.89	32.07	31.93	30.64	32.13	32.53	31.73	31.47	29.47	29.47	29.47	
7	31.45	30.93	32.13	32.11	30.58	32.06	32.29	31.74	31.42	29.47	29.47	29.47	
8	31.28	30.95	32.23	31.83	30.66	31.94	32.40	31.74	31.35	29.47	29.47	29.47	
9	31.16	30.98	32.07	31.53	30.74	31.71	32.19	31.72	31.27	29.47	29.47	29.47	
10	31.08	30.86	31.86	31.16	30.76	31.89	32.06	31.68	31.20	29.47	29.47	29.47	
11	31.03	30.77	31.56	31.07	30.76	32.47	32.03	31.63	31.11	29.47	29.47	29.47	
12	30.98	30.74	31.13	31.12	30.78	32.80	31.81	31.56	31.04	29.47	29.47	29.47	
13	30.88	30.75	31.00	31.29	31.02	33.23	31.78	31.47	30.98	29.47	29.47	29.47	
14	30.81	30.91	30.91	32.07	31.53	33.11	32.14	31.42	30.92	29.47	29.47	29.47	
15	30.75	31.04	30.84	32.01	31.19	32.53	32.61	31.38	30.89	29.47	29.47	29.47	
16	30.69	31.15	30.78	31.96	31.67	32.10	32.57	31.34	30.84	29.47	29.47	29.47	
17	30.65	31.19	30.76	32.14	32.06	31.95	33.05	31.32	30.81	29.47	29.47	29.47	
18	30.61	31.50	30.71	32.11	32.15	32.34	33.48	31.43	30.80	29.47	29.47	29.47	
19	30.56	32.02	30.66	31.92	32.06	32.35	33.05	31.58	30.73	29.47	29.47	29.47	
20	30.53	32.08	30.65	31.79	31.94	32.37	32.46	31.71	30.67	29.47	29.47	29.47	
21	30.49	31.72	30.74	31.42	31.84	32.31	32.11	31.75	29.47	29.47	29.47	29.47	
22	30.46	31.28	30.90	31.15	31.63	32.43	31.88	31.77	29.47	29.47	29.47	29.47	
23	30.45	31.14	31.04	30.95	31.26	32.58	31.69	31.78	29.47	29.47	29.47	29.47	
24	30.45	31.05	31.10	30.94	31.01	32.54	31.41	31.77	29.47	29.47	29.47	29.47	
25	30.45	30.96	31.07	30.90	30.92	32.38	31.39	31.78	29.47	29.47	29.47	29.47	
26	30.45	31.31	31.06	31.11	30.79	32.12	31.13	31.77	29.47	29.47	29.47	29.47	
27	30.45	32.02	31.07	32.04	30.64	31.92	30.60	31.74	29.47	29.47	29.47	29.47	
28	30.45	31.85	31.07	31.97	30.75	31.95	30.61	31.74	29.47	29.47	29.47	29.47	
29	30.45	31.71	31.03	31.94	31.92	31.93	31.24	31.74	29.47	29.47	29.47	29.47	
30	30.45	31.64	30.98	31.74	31.83	31.67	31.42	31.73	29.47	29.47		29.47	
31		31.79		31.87	31.77		31.72		29.47	29.47		29.47	
Mean	30.87	31.21	31.21	31.57	31.26	32.19	31.97	31.66	30.57	29.47	29.47	29.47	
Max	31.55	32.08	32.23	32.14	32.15	33.23	33.48	31.78	31.71	29.47	29.47	29.47	33.48
Min	30.45	30.74	30.65	30.90	30.58	31.49	30.60	31.32	29.47	29.47	29.47	29.47	29.47
Annual Max Momentary Gage Height	33.53		m. (MSL.) ,			at 17.00 Hours , on Oct 18 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	29.74	m. (MSL)					
Left Bank Elevation		37.41		m. (MSL.) ,									
Right Bank Elevation		37.35		m. (MSL.) ,		Drainage Area	1059	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	7.20	0.00	0.00	0.00	23.70	29.30	26.85	0.00	0.00	0.00	
2	0.00	0.00	0.72	0.00	0.00	0.00	21.20	28.60	25.80	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	4.80	13.60	28.25	24.40	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	8.60	55.00	28.25	22.40	0.00	0.00	0.00	
5	0.00	0.00	0.00	2.90	0.00	18.25	83.60	27.90	20.90	0.00	0.00	0.00	
6	0.00	0.00	19.95	9.80	0.00	30.15	65.15	27.55	19.25	0.00	0.00	0.00	
7	0.00	0.00	30.15	25.05	0.00	41.20	52.50	27.90	18.00	0.00	0.00	0.00	
8	0.00	0.00	49.50	5.20	0.00	35.80	58.00	27.90	16.25	0.00	0.00	0.00	
9	0.00	0.00	19.95	0.00	0.00	26.85	47.50	27.20	14.40	0.00	0.00	0.00	
10	0.00	0.00	6.40	0.00	0.00	33.60	41.20	25.80	13.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	61.85	39.85	24.05	11.20	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	81.00	30.40	21.80	9.80	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	110.10	29.30	19.25	8.60	0.00	0.00	0.00	
14	0.00	0.00	0.00	19.95	0.00	101.70	45.00	18.00	7.40	0.00	0.00	0.00	
15	0.00	0.00	0.00	14.85	0.00	65.15	69.60	17.00	6.85	0.00	0.00	0.00	
16	0.00	0.00	0.00	11.60	1.26	43.00	67.35	16.00	6.10	0.00	0.00	0.00	
17	0.00	0.00	0.00	32.70	19.10	36.25	97.50	15.50	5.65	0.00	0.00	0.00	
18	0.00	0.00	0.00	25.05	35.25	55.00	128.50	18.25	5.50	0.00	0.00	0.00	
19	0.00	15.70	0.00	9.20	19.10	55.50	97.50	22.40	4.45	0.00	0.00	0.00	
20	0.00	20.80	0.00	3.78	10.40	56.50	61.30	26.85	3.55	0.00	0.00	0.00	
21	0.00	2.24	0.00	0.00	5.60	53.50	43.50	28.25	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.54	59.65	33.20	28.95	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	67.90	26.15	29.30	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	65.70	17.75	28.95	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	57.00	17.25	29.30	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	44.00	11.60	28.95	0.00	0.00	0.00	0.00	
27	0.00	15.70	0.00	17.40	0.00	34.90	2.50	27.90	0.00	0.00	0.00	0.00	
28	0.00	6.00	0.00	12.20	0.00	36.25	2.65	27.90	0.00	0.00	0.00	0.00	
29	0.00	2.02	0.00	10.40	9.20	35.35	13.80	27.90	0.00	0.00	0.00	0.00	
30	0.00	0.72	0.00	2.68	5.20	25.45	18.00	27.55	0.00	0.00		0.00	
31		3.78		6.80	3.34		27.20		0.00	0.00		0.00	
Total	0.00	66.96	133.87	209.56	108.99	1345.00	1341.35	762.70	270.35	0.00			

WATER YEAR : 2011

SAKAE KRANG RIVER BASIN

Nam Mae Wong at Ban San Chao Kai To, Nakhon Sawan (Ct.4)

Lat 15 - 46 - 58 N Long 99 - 40 - 57 E

Location : on left bank at Ban San Chao Kai To.

	Ban	San Chao Kai To	Amphoe	Lat Yao	Changwat	Nakhon Sawan
Drainage Area	1,386	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+65.880	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On left bank at the	bridge			Elevation	+72.250 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
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 15 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.18	68.20	68.59	68.30	68.35	68.66	68.88	68.36	68.17	67.32	66.68	66.58	
2	68.18	68.22	68.52	68.35	68.49	68.70	68.81	68.33	68.18	67.26	66.68	66.56	
3	68.16	68.22	68.60	68.32	68.50	68.92	68.76	68.32	68.16	67.19	66.68	66.55	
4	68.16	68.68	68.93	68.32	68.43	68.68	69.74	68.31	68.17	67.07	66.67	66.53	
5	68.16	68.67	69.04	68.35	68.39	68.72	70.59	68.29	68.16	67.00	66.66	66.51	
6	68.16	68.37	68.92	68.43	68.34	68.72	70.68	68.27	68.19	66.91	66.64	66.48	
7	68.16	68.38	68.93	68.36	68.29	68.72	70.37	68.25	68.20	66.83	66.64	66.43	
8	68.18	68.57	68.99	68.29	68.26	68.58	70.55	68.27	68.16	66.81	66.63	66.43	
9	68.22	68.68	69.20	68.25	68.27	68.62	70.29	68.23	68.10	66.84	66.63	66.38	
10	68.20	68.53	68.80	68.25	68.26	68.58	69.97	68.20	68.10	67.05	66.63	66.38	
11	68.19	68.53	68.54	68.28	68.26	68.98	69.85	68.21	68.12	67.34	66.79	66.38	
12	68.18	68.53	68.42	68.28	68.25	69.58	69.61	68.20	68.14	67.67	67.66	66.33	
13	68.18	68.38	68.44	68.29	68.25	70.28	69.39	68.18	68.12	68.06	68.59	66.33	
14	68.16	68.48	68.44	68.34	68.24	70.37	69.36	68.17	68.15	68.49	68.35	66.33	
15	68.14	68.98	68.33	68.35	68.25	70.41	69.74	68.17	68.16	67.88	67.41	66.38	
16	68.11	69.78	68.28	68.38	68.34	70.39	69.59	68.16	68.18	66.98	67.33	66.48	
17	68.08	70.08	68.28	68.34	68.32	69.91	70.57	68.15	68.16	66.93	67.27	66.73	
18	68.07	69.97	68.26	68.25	68.51	69.44	71.02	68.15	68.15	66.93	67.23	66.78	
19	68.13	69.43	68.26	68.23	68.74	69.24	71.08	68.13	68.15	66.92	67.16	66.93	
20	68.12	69.23	68.24	68.23	68.66	69.22	70.68	68.11	68.12	66.85	67.06	66.93	
21	68.13	68.78	68.24	68.24	68.69	69.16	70.00	68.10	68.11	67.34	66.86	66.93	
22	68.13	68.63	68.29	68.24	68.59	69.27	69.52	68.10	68.13	66.92	66.67	66.93	
23	68.13	68.63	68.26	68.26	68.38	69.62	69.22	68.12	68.11	66.81	66.63	66.93	
24	68.12	68.43	68.25	68.36	68.05	69.93	69.03	68.15	68.03	66.77	66.63	66.93	
25	68.13	68.38	68.23	68.40	68.06	69.72	68.89	68.12	67.99	66.76	66.62	66.78	
26	68.13	68.75	68.23	68.34	68.06	69.80	68.74	68.16	67.94	66.75	66.62	66.63	
27	68.13	69.38	68.24	68.35	68.06	69.45	68.57	68.16	67.26	66.73	66.61	66.58	
28	68.13	69.03	68.28	68.38	68.08	69.15	68.49	68.15	67.15	66.72	66.61	66.58	
29	68.17	68.78	68.31	68.35	68.08	69.21	68.45	68.16	67.15	66.70	66.60	66.58	
30	68.18	68.73	68.26	68.45	68.08	68.99	68.43	68.14	67.16				

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.20	3.50	13.15	5.00	6.25	15.60	24.60	6.50	3.05	0.00	0.00	0.00	
2	3.20	3.80	10.70	6.25	9.75	17.00	21.45	5.75	3.20	0.00	0.00	0.00	
3	2.90	3.80	13.50	5.50	10.00	26.40	19.40	5.50	2.90	0.00	0.00	0.00	
4	2.90	16.30	26.85	5.50	8.25	16.30	68.90	5.25	3.05	0.00	0.00	0.00	
5	2.90	15.95	31.80	6.25	7.25	17.80	124.30	4.85	2.90	0.00	0.00	0.00	
6	2.90	6.75	26.40	8.25	6.00	17.80	130.60	4.55	3.35	0.00	0.00	0.00	
7	2.90	7.00	26.85	6.50	4.85	17.80	108.90	4.25	3.50	0.00	0.00	0.00	
8	3.20	12.45	29.55	4.85	4.40	12.80	121.50	4.55	2.90	0.00	0.00	0.00	
9	3.80	16.30	39.00	4.25	4.55	14.20	103.35	3.95	2.00	0.00	0.00	0.00	
10	3.50	11.05	21.00	4.25	4.40	12.80	82.70	3.50	2.00	0.00	0.00	0.00	
11	3.35	11.05	11.40	4.70	4.40	29.10	75.50	3.65	2.30	0.00	0.00	0.00	
12	3.20	11.05	8.00	4.70	4.25	59.40	61.10	3.50	2.60	0.00	0.00	0.00	
13	3.20	7.00	8.50	4.85	4.25	102.70	48.95	3.20	2.30	1.60	13.15	0.00	
14	2.90	9.50	8.50	6.00	4.10	108.90	47.30	3.05	2.75	9.75	6.25	0.00	
15	2.60	29.10	5.75	6.25	4.25	111.70	68.90	3.05	2.90	0.00	0.00	0.00	
16	2.15	71.30	4.70	7.00	6.00	110.30	59.95	2.90	3.20	0.00	0.00	0.00	
17	1.80	89.70	4.70	6.00	5.50	79.10	122.90	2.75	2.90	0.00	0.00	0.00	
18	1.70	82.70	4.40	4.25	10.35	51.70	155.00	2.75	2.75	0.00	0.00	0.00	
19	2.45	51.15	4.40	3.95	18.60	41.00	159.50	2.45	2.75	0.00	0.00	0.00	
20	2.30	40.50	4.10	3.95	15.60	40.00	130.60	2.15	2.30	0.00	0.00	0.00	
21	2.45	20.20	4.10	4.10	16.65	37.20	84.50	2.00	2.15	0.00	0.00	0.00	
22	2.45	14.55	4.85	4.10	13.15	42.50	56.10	2.00	2.45	0.00	0.00	0.00	
23	2.45	14.55	4.40	4.40	7.00	61.70	40.00	2.30	2.15	0.00	0.00	0.00	
24	2.30	8.25	4.25	6.50	1.50	80.30	31.35	2.75	1.30	0.00	0.00	0.00	
25	2.45	7.00	3.95	7.50	1.60	67.70	25.05	2.30	0.90	0.00	0.00	0.00	
26	2.45	19.00	3.95	6.00	1.60	72.50	18.60	2.90	0.40	0.00	0.00	0.00	
27	2.45	48.40	4.10	6.25	1.60	52.25	12.45	2.90	0.00	0.00	0.00	0.00	
28	2.45	31.35	4.70	7.00	1.80	36.75	9.75	2.75	0.00	0.00	0.00	0.00	
29	3.05	20.20	5.25	6.25	1.80	39.50	8.75	2.90	0.00	0.00	0.00	0.00	
30	3.20	18.20	4.40	8.75	1.80	29.55	8.25	2.60	0.00	0.00		0.00	
31		20.20		6.25	1.70		7.25		0.00	0.00		0.00	
Total	82.75	721.85	347.20	175.35	193.20	1422.35	2037.45	103.50	64.95	11.35	19.40		

WATER YEAR : 2011

SAKAE KRANG RIVER BASIN

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

Lat 15 - 55 - 33 N Long 99 - 30 - 22 E

Location : on left bank behind Wat Pang Makha.

	Ban	Pang Makha		Amphoe	Khanu Woralaksaburi	Changwat	Kamphaeng Phet						
Drainage Area	977	sq.km.											
Type of Gage	Staff gage												
Zero Gage at Bottom	+0.000	m. (MSL.)											
Bench Mark	B.M.-H.D.												
Location BM	In front of the station office					Elevation	+108.090 m. (MSL.)						
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.												
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings												
Period of Available Gage Records	1969 to date												
Rating Operation													
Period of Rating	1969 to date												
Rated by Flot	-												
Rated by Current Meter	1969 to date												
Stability of Channel Regimes	Fairly stable												
Overbank Flow Conditions	Overbank flow starts at elevation +107.660 m.(MSL.), records are channel flow only.												
General Description	Records good. Flow effected by the local weir above gage site estimated by recession equation.												
	Stage-discharge relation defined by 34 discharge measurements made in 2011.												
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	103.27	103.36	103.46	103.29	103.50	103.55	103.94	103.93	103.26	103.18	103.05	103.00	
2	103.24	103.28	103.78	103.24	103.64	103.88	103.83	103.83	103.26	103.18	103.05	102.99	
3	103.22	104.42	104.09	103.21	103.56	103.74	103.58	103.80	103.25	103.18	103.25	102.98	
4	103.21	103.52	104.12	103.25	103.56	103.66	105.20	103.74	103.25	103.17	103.25	102.97	
5	103.20	103.40	103.97	103.44	103.48	103.61	105.49	103.71	103.24	103.17	103.18	102.96	
6	103.22	103.46	103.91	103.37	103.44	103.54	105.01	103.65	103.24	103.17	103.14	102.95	
7	103.27	103.51	103.86	103.32	103.40	103.51	105.35	103.61	103.24	103.17	103.13	102.94	
8	103.29	103.60	104.56	103.27	103.39	103.50	104.96	103.59	103.27	103.16	103.12	102.93	
9	103.26	103.44	103.74	103.25	103.39	103.49	104.49	103.56	103.26	103.16	103.12	102.93	
10	103.23	103.45	103.62	103.22	103.39	103.92	104.48	103.54	103.26	103.15	103.10	102.92	
11	103.22	103.35	103.44	103.25	103.28	104.71	104.39	103.50	103.25	103.15	103.11	102.92	
12	103.23	103.30	103.40	103.19	103.26	106.15	104.36	103.47	103.25	103.15	103.09	102.90	
13	103.21	103.27	103.60	103.23	103.35	107.25	104.28	103.45	103.25	103.14	103.08	102.90	
14	103.21	103.20	103.36	103.35	103.28	105.17	105.05	103.44	103.25	103.14	103.08	102.89	
15	103.20	105.66	103.30	103.26	103.55	104.69	104.43	103.43	103.25	103.13	103.07	102.89	
16	103.20	104.57	103.30	103.30	103.40	104.27	105.66	103.42	103.25	103.13	103.07	102.88	
17	103.18	104.76	103.28	103.24	103.51	103.98	105.92	103.41	103.24	103.12	103.06	102.88	
18	103.15	104.08	103.28	103.20	103.66	103.76	105.99	103.38	103.24	103.12	103.06	102.87	
19	103.11	103.83	103.28	103.17	103.52	103.88	105.26	103.35	103.24	103.11	103.05	102.87	
20	103.08	103.51	103.25	103.15	103.52	103.90	104.72	103.34	103.23	103.11	103.05	102.86	
21	103.11	103.46	103.24	103.25	103.54	103.81	104.51	103.33	103.23	103.11	103.04	102.86	
22	103.13	103.37	103.24	103.34	103.47	103.95	104.42	103.31	103.23	103.11	103.04	102.85	
23	103.12	103.35	103.21	103.39	103.41	104.40	104.39	103.30	103.22	103.11	103.03	102.85	
24	103.16	103.32	103.20	103.43	103.36	104.20	104.34	103.30	103.22	103.10	103.03	102.85	
25	103.27	103.35	103.19	103.31	103.38	105.03	104.37	103.29	103.22	103.09	103.02	102.84	
26	103.19	104.01	103.17	103.35	103.43	104.07	104.30	103.28	103.21	103.08	103.02	102.84	
27	103.12	103.54	103.28	103.53	103.45	103.81	104.24	103.28	103.21	103.07	103.01	102.83	
28	103.11	103.59	103.39	103.44	104.10	104.16	104.16	103.27	103.21	103.06	103.01	102.83	
29	103.12	103.57	103.33	103.70	103.79	103.89	104.05	103.27	103.20	103.06	103.00	102.83	
30	103.22	103.54	103.28	103.48	103.88	103.81	104.16	103.27	103.20	103.06		102.82	
31		103.56		103.37	103.66		104.07		103.19	103.06		102.81	
Mean	103.19	103.67	103.50	103.32	103.50	104.18	104.63	103.47	103.24	103.13	103.08	102.89	
Max	103.29	105.66	104.56	103.70	104.10	107.25	105.99	103.93	103.27	103.18	103.25	103.00	107.25
Min	103.08	103.20	103.17	103.15	103.26	103.49	103.58	103.27	103.19	103.06	103.00	102.81	102.81
Annual Max Momentary Gage Height	107.84		m. (MSL.) ,		at 06.00 Hours , on Sep 13 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	102.26		m. (MSL)					
Left Bank Elevation		107.70		m. (MSL.) ,									
Right Bank Elevation		107.65		m. (MSL.) ,	Drainage Area	977	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.40	7.80	11.10	5.80	12.50	14.50	32.00	31.50	5.20	3.80	2.50	2.00	
2	4.80	5.60	24.10	4.80	18.10	29.00	26.50	26.50	5.20	3.80	2.50	1.90	
3	4.40	58.80	39.95	4.20	14.90	22.30	15.70	25.00	5.00	3.80	5.00	1.80	
4	4.20	13.30	41.60	5.00	14.90	18.90	113.50	22.30	5.00	3.70	5.00	1.70	
5	4.00	9.00	33.50	10.40	11.80	16.90	136.70	20.95	4.80	3.70	3.80	1.60	
6	4.40	11.10	30.50	8.10	10.40	14.10	99.25	18.50	4.80	3.70	3.40	1.50	
7	5.40	12.90	28.00	6.60	9.00	12.90	125.50	16.90	4.80	3.70	3.30	1.40	
8	5.80	16.50	67.90	5.40	8.70	12.50	95.50	16.10	5.40	3.60	3.20	1.30	
9	5.20	10.40	22.30	5.00	8.70	12.15	63.35	14.90	5.20	3.60	3.20	1.30	
10	4.60	10.75	17.30	4.40	8.70	31.00	62.70	14.10	5.20	3.50	3.00	1.20	
11	4.40	7.50	10.40	5.00	5.60	77.70	56.90	12.50	5.00	3.50	3.10	1.20	
12	4.60	6.00	9.00	3.90	5.20	192.50	55.10	11.45	5.00	3.50	2.90	1.00	
13	4.20	5.40	16.50	4.60	7.50	292.75	50.40	10.75	5.00	3.40	2.80	1.00	
14	4.20	4.00	7.80	7.50	5.60	111.25	102.25	10.40	5.00	3.40	2.80	0.95	
15	4.00	150.60	6.00	5.20	14.50	76.35	59.45	10.05	5.00	3.30	2.70	0.95	
16	4.00	68.55	6.00	6.00	9.00	49.85	150.60	9.70	5.00	3.30	2.70	0.90	
17	3.80	81.20	5.60	4.80	12.90	34.00	172.70	9.35	4.80	3.20	2.60	0.90	
18	3.50	39.40	5.60	4.00	18.90	23.20	178.65	8.40	4.80	3.20	2.60	0.85	
19	3.10	26.50	5.60	3.70	13.30	29.00	118.30	7.50	4.80	3.10	2.50	0.85	
20	2.80	12.90	5.00	3.50	13.30	30.00	78.40	7.20	4.60	3.10	2.50	0.80	
21	3.10	11.10	4.80	5.00	14.10	25.50	64.65	6.90	4.60	3.10	2.40	0.80	
22	3.30	8.10	4.80	7.20	11.45	32.50	58.80	6.30	4.60	3.10	2.40	0.75	
23	3.20	7.50	4.20	8.70	9.35	57.50	56.90	6.00	4.40	3.10	2.30	0.75	
24	3.60	6.60	4.00	10.05	7.80	46.00	53.90	6.00	4.40	3.00	2.30	0.75	
25	5.40	7.50	3.90	6.30	8.40	100.75	55.70	5.80	4.40	2.90	2.20	0.70	
26	3.90	35.55	3.70	7.50	10.05	38.85	51.50	5.60	4.20	2.80	2.20	0.70	
27	3.20	14.10	5.60	13.70	10.75	25.50	48.20	5.60	4.20	2.70	2.10	0.65	
28	3.10	16.10	8.70	10.40	40.50	43.80	43.80	5.40	4.20	2.60	2.10	0.65	
29	3.20	15.30	6.90	20.50	24.55	29.50	37.75	5.40	4.00	2.60	2.00	0.65	
30	4.40	14.10	5.60	11.80	29.00	25.50	43.80	5.40	4.00	2.60		0.60	
31		14.90		8.10	18.90		38.85		3.90	2.60		0.55	
Total	123.20	709.05	445.95	217.15	408.35	1526.25	2347.30						

WATER YEAR : 2011

SAKAE KRANG RIVER BASIN

Khlong Pho at Ban Mai Khlong Charoen, Nakhon Sawan (Ct.7)

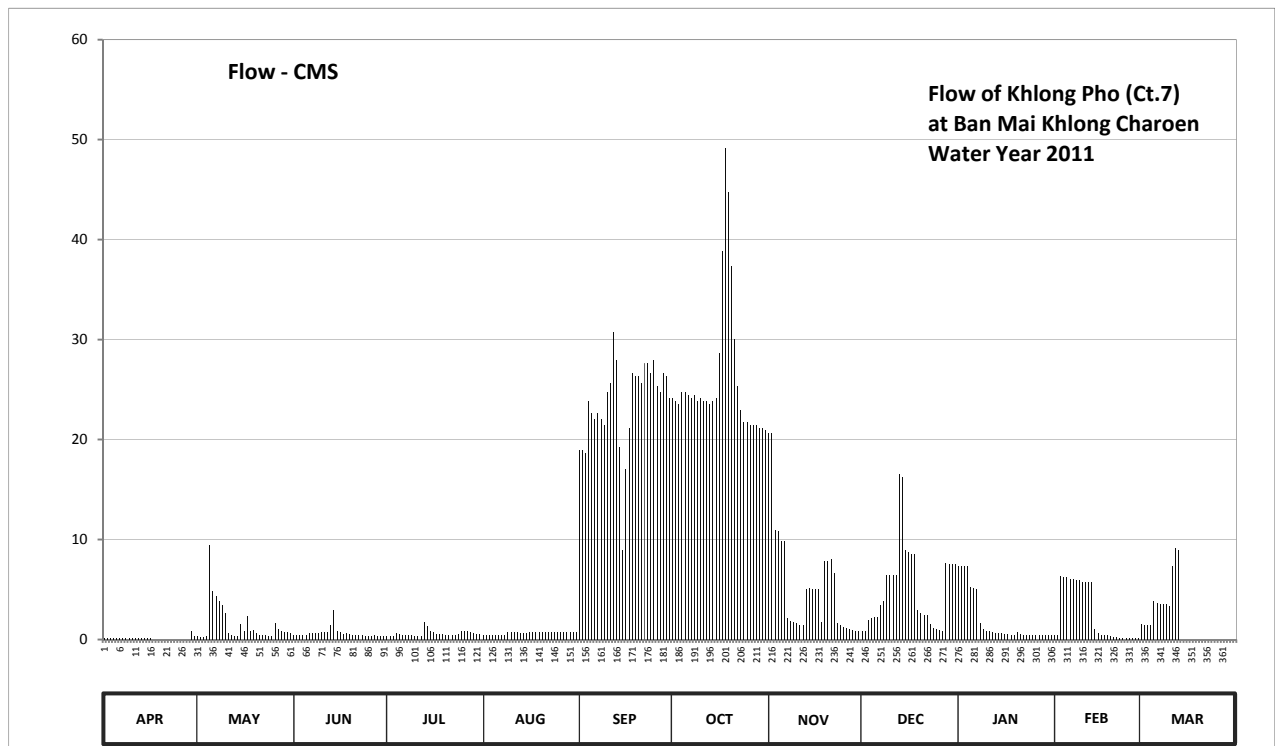
Lat 15 - 38 - 24 N Long 99 - 32 - 24 E

Location : on right bank at Ban Mai Khlong Charoen.

	Ban	Mai Khlong Charoen	Amphoe	Mae Poen	Changwat	Nakhon Sawan
Drainage Area	453	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the sling pole.				Elevation	+107.519 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1975 - 1978, 2008 to date					
Rating Operation						
Period of Rating	1975 - 1978, 2008 to date					
Rated by Flot	-					
Rated by Current Meter	1975 - 1978, 2008 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	101.57	101.64	101.69	101.64	101.69	102.89	103.07	102.95	101.77	102.35	101.68	101.88	
2	101.56	101.63	101.68	101.65	101.69	102.89	103.06	102.95	101.76	102.35	101.67	101.86	
3	101.56	101.62	101.69	101.64	101.69	102.88	103.05	102.55	101.93	102.35	102.29	101.86	
4	101.56	101.65	101.69	101.72	101.69	103.06	103.09	102.54	101.96	102.35	102.28	101.86	
5	101.56	102.47	101.69	101.71	101.69	103.02	103.09	102.49	101.97	102.22	102.28	102.11	
6	101.55	102.19	101.72	101.69	101.69	103.00	103.08	102.49	101.97	102.21	102.27	102.10	
7	101.55	102.15	101.72	101.68	101.69	103.02	103.07	101.96	102.08	102.20	102.27	102.09	
8	101.55	102.11	101.72	101.68	101.69	103.00	103.08	101.92	102.11	101.89	102.26	102.09	
9	101.55	102.08	101.72	101.68	101.74	102.98	103.06	101.91	102.30	101.81	102.26	102.09	
10	101.55	102.01	101.74	101.66	101.74	103.09	103.07	101.89	102.30	101.78	102.25	102.07	
11	101.55	101.72	101.74	101.65	101.74	103.12	103.06	101.87	102.30	101.76	102.25	102.35	
12	101.55	101.67	101.75	101.65	101.74	103.27	103.06	101.86	102.30	101.75	102.25	102.45	
13	101.55	101.65	101.87	101.91	101.73	103.19	103.05	102.20	102.80	101.72	102.25	102.44	
14	101.55	101.64	102.04	101.85	101.73	102.90	103.06	102.21	102.79	101.73	101.80	101.39	
15	101.55	101.88	101.78	101.77	101.73	102.44	103.07	102.20	102.44	101.72	101.73	101.39	
16	101.55	101.78	101.74	101.75	101.74	102.82	103.21	102.20	102.43	101.71	101.69	101.35	
17	100.49	101.98	101.71	101.71	101.74	102.97	103.49	102.20	102.42	101.71	101.67	101.31	
18	100.49	101.78	101.72	101.71	101.74	103.15	103.73	101.91	102.42	101.70	101.67	101.29	
19	100.49	101.79	101.71	101.71	101.74	103.14	103.63	102.38	102.04	101.70	101.64	101.29	
20	100.49	101.72	101.69	101.70	101.74	103.14	103.45	102.38	102.01	101.75	101.62	101.28	
21	100.49	101.70	101.68	101.70	101.74	103.12	103.25	102.39	102.00	101.71	101.63	101.27	
22	100.49	101.68	101.68	101.69	101.74	103.18	103.11	102.31	102.00	101.70	101.59	101.26	
23	100.49	101.68	101.68	101.69	101.74	103.18	103.03	101.90	101.88	101.70	101.58	101.26	
24	100.49	101.66	101.66	101.71	101.74	103.15	102.99	101.86	101.82	101.70	101.57	101.26	
25	100.49	101.66	101.66	101.77	101.74	103.19	102.99	101.83	101.80	101.69	101.57	101.26	
26	100.49	101.90	101.66	101.78	101.74	103.11	102.98	101.82	101.79	101.69	101.57	101.26	
27	100.49	101.81	101.67	101.77	101.74	103.09	102.98	101.80	101.77	101.69	101.56	101.26	
28	100.49	101.76	101.66	101									



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.14	0.32	0.47	0.32	0.47	18.93	24.10	20.60	0.85	7.35	0.44	1.56	
2	0.12	0.29	0.44	0.35	0.47	18.93	23.80	20.60	0.80	7.35	0.41	1.42	
3	0.12	0.26	0.47	0.32	0.47	18.66	23.50	11.00	1.94	7.35	6.35	1.42	
4	0.12	0.35	0.47	0.60	0.47	23.80	24.70	10.80	2.18	7.35	6.20	1.42	
5	0.12	9.46	0.47	0.55	0.47	22.60	24.70	9.82	2.26	5.30	6.20	3.83	
6	0.10	4.87	0.60	0.47	0.47	22.00	24.40	9.82	2.26	5.15	6.05	3.70	
7	0.10	4.35	0.60	0.44	0.47	22.60	24.10	2.18	3.46	5.00	6.05	3.58	
8	0.10	3.83	0.60	0.44	0.47	22.00	24.40	1.86	3.83	1.63	5.90	3.58	
9	0.10	3.46	0.60	0.44	0.70	21.44	23.80	1.78	6.50	1.07	5.90	3.58	
10	0.10	2.62	0.70	0.38	0.70	24.70	24.10	1.63	6.50	0.90	5.75	3.34	
11	0.10	0.60	0.70	0.35	0.70	25.66	23.80	1.49	6.50	0.80	5.75	7.35	
12	0.10	0.41	0.75	0.35	0.70	30.75	23.80	1.42	6.50	0.75	5.75	9.10	
13	0.10	0.35	1.49	1.78	0.65	27.97	23.50	5.00	16.50	0.60	5.75	8.92	
14	0.10	0.32	2.98	1.35	0.65	19.20	23.80	5.15	16.27	0.65	1.00	0.00	
15	0.10	1.56	0.90	0.85	0.65	8.92	24.10	5.00	8.92	0.60	0.65	0.00	
16	0.10	0.90	0.70	0.75	0.70	17.04	28.65	5.00	8.74	0.55	0.47	0.00	
17	0.00	2.34	0.55	0.55	0.70	21.16	38.83	5.00	8.56	0.55	0.41	0.00	
18	0.00	0.90	0.60	0.55	0.70	26.65	49.21	1.78	8.56	0.50	0.41	0.00	
19	0.00	0.95	0.55	0.55	0.70	26.32	44.79	7.86	2.98	0.50	0.32	0.00	
20	0.00	0.60	0.47	0.50	0.70	26.32	37.35	7.86	2.62	0.75	0.26	0.00	
21	0.00	0.50	0.44	0.50	0.70	25.66	30.05	8.03	2.50	0.55	0.29	0.00	
22	0.00	0.44	0.44	0.47	0.70	27.64	25.33	6.67	2.50	0.50	0.18	0.00	
23	0.00	0.44	0.44	0.47	0.70	27.64	22.90	1.70	1.56	0.50	0.16	0.00	
24	0.00	0.38	0.38	0.55	0.70	26.65	21.72	1.42	1.14	0.50	0.14	0.00	
25	0.00	0.38	0.38	0.85	0.70	27.97	21.72	1.21	1.00	0.47	0.14	0.00	
26	0.00	1.70	0.38	0.90	0.70	25.33	21.44	1.14	0.95	0.47	0.14	0.00	
27	0.00	1.07	0.41	0.85	0.70	24.70	21.44	1.00	0.85	0.47	0.12	0.00	
28	0.00	0.80	0.38	0.75	0.70	26.65	21.44	0.95	7.69	0.47	0.12	0.00	
29	0.85	0.75	0.38	0.60	0.70	26.32	21.16	0.90	7.52	0.47	1.63	0.00	
30	0.38	0.70	0.35	0.55	0.70	24.10	21.16	0.90	7.52	0.47		0.00	
31		0.65		0.55	0.70		20.88		7.52	0.44		0.00	
Total	2.95	46.55	19.09	18.93	19.71	708.31	808.67	159.57	157.48	60.01	72.94	52.80	2127.01
Mean	0.10	1.50											

WATER YEAR : 2011

SAKAE KRANG RIVER BASIN

Huai Tak Dad at Ban Khok Mo, Uthai Thani (Ct.8)

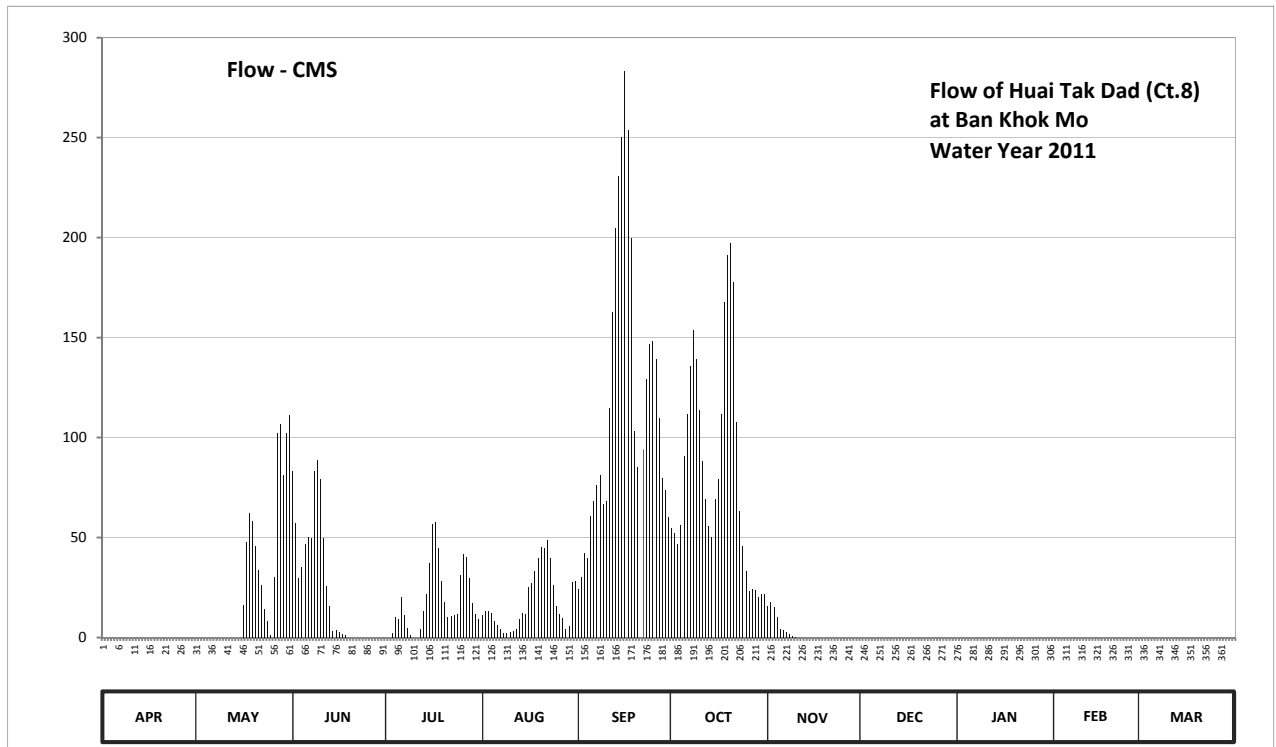
Lat 15 - 29 - 50 N Long 99 - 56 - 28 E

Location : on left bank at Ban Khok Mo.

	Ban	Khok Mo	Amphoe	Thap Than	Changwat	Uthai Thani
Drainage Area	3,207	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the sling pole				Elevation	+34.250 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1975 - 1978, 2008 to date					
Rating Operation						
Period of Rating	1975 - 1978, 2008 to date					
Rated by Flot	-					
Rated by Current Meter	1975 - 1978, 2008 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +34.290 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.65	28.60	31.82	30.10	30.47	30.74	31.33	30.57	28.33	26.47	26.23	25.85	
2	29.62	28.59	31.38	30.18	30.52	30.87	31.29	30.61	28.25	26.47	26.23	25.85	
3	29.60	28.56	30.85	30.26	30.52	31.10	31.19	30.56	28.13	26.47	26.23	25.85	
4	29.59	28.55	30.96	30.45	30.49	31.05	31.36	30.45	28.06	26.47	26.23	25.85	
5	29.57	28.53	31.19	30.43	30.41	31.44	31.94	30.31	27.97	26.47	26.23	25.85	
6	29.53	28.51	31.25	30.67	30.36	31.57	32.28	30.29	27.87	26.47	26.23	25.85	
7	29.45	28.50	31.24	30.47	30.30	31.70	32.62	30.27	27.78	26.47	26.23	25.85	
8	29.37	28.49	31.82	30.32	30.26	31.79	32.86	30.24	27.68	26.47	26.23	25.85	
9	29.30	28.48	31.91	30.23	30.25	31.55	32.67	30.22	27.57	26.47	26.23	25.85	
10	29.23	28.47	31.75	30.19	30.27	31.57	32.31	30.21	27.47	26.47	26.23	25.85	
11	29.16	28.43	31.24	30.19	30.28	32.32	31.90	30.15	27.36	26.47	26.23	25.85	
12	29.11	28.37	30.77	30.31	30.30	32.98	31.59	30.09	27.29	26.47	26.23	25.85	
13	29.05	28.33	30.57	30.52	30.43	33.52	31.35	30.02	27.24	26.47	26.23	25.85	
14	28.96	28.29	30.28	30.69	30.49	33.85	31.25	29.90	27.20	26.47	26.23	25.85	
15	28.87	28.44	30.29	31.00	30.48	34.08	31.59	29.75	27.12	26.47	26.23	25.85	
16	28.79	30.58	30.27	31.37	30.76	34.47	31.75	29.58	27.02	26.47	26.23	25.85	
17	28.74	31.20	30.24	31.39	30.80	34.12	32.28	29.38	26.93	26.47	26.23	25.85	
18	28.68	31.47	30.23	31.15	30.92	33.46	33.05	29.12	26.85	26.47	26.23	25.85	
19	28.61	31.40	30.18	30.82	31.05	32.15	33.35	28.85	26.74	26.47	26.23	25.85	
20	28.59	31.17	30.18	30.61	31.16	31.85	33.43	28.64	26.68	26.47	26.23	25.85	
21	28.53	30.93	30.18	30.45	31.15	30.16	33.18	28.57	26.66	26.47	26.23	25.85	
22	28.47	30.79	30.17	30.46	31.22	32.00	32.22	28.54	26.62	26.47	26.23	25.85	
23	28.53	30.54	30.17	30.47	31.05	32.53	31.49	28.50	26.51	26.47	26.23	25.85	
24	28.63	30.40	30.14	30.48	30.79	32.77	31.17	28.50	26.47	26.47	26.23	25.85	
25	28.63	30.23	30.14	30.88	30.57	32.79	30.92	28.52	26.47	26.47	26.23	25.85	
26	28.60	30.86	30.09	31.09	30.48	32.67	30.72	28.46	26.47	26.47	26.23	25.85	
27	28.57	32.13	30.02	31.07	30.44	32.25	30.75	28.40	26.47	26.47	26.23	25.85	
28	28.55	32.20	30.01	30.85	30.30	31.76	30.73	28.38	26.47	26.47	26.23	25.85	
29	28.54	31.79	30.03	30.60	30.34	31.66	30.66	28.35	26.47	26.47	26.23	25.85	
30	28.60	32.13	30.06	30.48	30.81	31.43	30.69	28.36	26.47	26.47		25.85	
31		32.27		30.43	30.83		30.69		26.47	26.47		25.85	
Mean	28.97	29.91	30.65	30.60	30.60	32.21	31.76	29.46	27.13	26.47	26.23	25.85	
Max	29.65	32.27	31.91	31.39	31.22	34.47	33.43	30.61	28.33	26.47	26.23	25.85	34.47
Min	28.47	28.29	30.01	30.10	30.25	30.16	30.66	28.35	26.47	26.47	26.23	25.85	25.85
Annual Max Momentary Gage Height		34.53	m. (MSL.) ,		at 16.00 Hours , on Sep 16 , 2011								
Zero Gage at Bottom Elevation		0.00	m. (MSL.) ,		River Bed	25.50	m. (MSL)						
Left Bank Elevation			34.28	m. (MSL.) ,									
Right Bank Elevation			34.28	m. (MSL.) ,		Drainage Area	3207	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	83.20	0.00	11.15	24.00	54.65	15.65	0.00	0.00	0.00	0.00	
2	0.00	0.00	57.40	0.00	13.40	30.50	52.45	17.50	0.00	0.00	0.00	0.00	
3	0.00	0.00	29.50	2.40	13.40	42.00	46.95	15.20	0.00	0.00	0.00	0.00	
4	0.00	0.00	35.00	10.25	12.05	39.50	56.30	10.25	0.00	0.00	0.00	0.00	
5	0.00	0.00	46.95	9.35	8.45	60.70	90.40	4.40	0.00	0.00	0.00	0.00	
6	0.00	0.00	50.25	20.50	6.40	68.20	111.70	3.60	0.00	0.00	0.00	0.00	
7	0.00	0.00	49.70	11.15	4.00	76.00	135.50	2.80	0.00	0.00	0.00	0.00	
8	0.00	0.00	83.20	4.80	2.40	81.40	153.50	1.60	0.00	0.00	0.00	0.00	
9	0.00	0.00	88.60	1.20	2.00	67.00	139.25	0.80	0.00	0.00	0.00	0.00	
10	0.00	0.00	79.00	0.00	2.80	68.20	113.70	0.40	0.00	0.00	0.00	0.00	
11	0.00	0.00	49.70	0.00	3.20	114.40	88.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	25.50	4.40	4.00	162.50	69.40	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	15.65	13.40	9.35	204.60	55.75	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	3.20	21.50	12.05	231.00	50.25	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	3.60	37.00	11.60	250.30	69.40	0.00	0.00	0.00	0.00	0.00	
16	0.00	16.10	2.80	56.85	25.00	283.45	79.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	47.50	1.60	57.95	27.00	253.70	111.70	0.00	0.00	0.00	0.00	0.00	
18	0.00	62.35	1.20	44.75	33.00	199.80	167.75	0.00	0.00	0.00	0.00	0.00	
19	0.00	58.50	0.00	28.00	39.50	103.25	191.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	45.85	0.00	17.50	45.30	85.00	197.40	0.00	0.00	0.00	0.00	0.00	
21	0.00	33.50	0.00	10.25	44.75	0.00	177.50	0.00	0.00	0.00	0.00	0.00	
22	0.00	26.50	0.00	10.70	48.60	94.00	107.80	0.00	0.00	0.00	0.00	0.00	
23	0.00	14.30	0.00	11.15	39.50	129.10	63.45	0.00	0.00	0.00	0.00	0.00	
24	0.00	8.00	0.00	11.60	26.50	146.75	45.85	0.00	0.00	0.00	0.00	0.00	
25	0.00	1.20	0.00	31.00	15.65	148.25	33.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	30.00	0.00	41.50	11.60	139.25	23.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	101.95	0.00	40.50	9.80	109.75	24.50	0.00	0.00	0.00	0.00	0.00	
28	0.00	106.50	0.00	29.50	4.00	79.60	23.50	0.00	0.00	0.00	0.00	0.00	
29	0.00	81.40	0.00	17.00	5.60	73.60	20.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	101.95	0.00	11.60	27.50	60.15	21.50	0.00	0.00	0.00		0.00	
31		111.05		9.35	28.50		21.50		0.00	0.00		0.00	
Total	0.00	846.65											

WATER YEAR : 2011

SAKAE KRANG RIVER BASIN

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

Lat 15 - 31 - 35 N Long 99 - 28 - 10 E

Location : on left bank about 9 kilometers upstream from Ct.6.

	Ban Bung Ai Chiam	Amphoe Lan Sak	Changwat Uthai Thani										
Drainage Area	528 sq.km.												
Type of Gage	Staff gage.												
Zero Gage at Bottom	+0.000 m. (MSL.)												
Bench Mark	B.M.-H.D.												
Location BM	On left bank about 100 meters from the gage observer's house	Elevation	+129.000 m. (MSL.)										
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.												
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings												
Period of Available Gage Records	1977 to date												
Rating Operation													
Period of Rating	1977 to date												
Rated by Flot	-												
Rated by Current Meter	1977 to date												
Stability of Channel Regimes	Fairly stable												
Overbank Flow Conditions	No overbank flow.												
General Description	Records good. Flow regulated by Rabum Dam above gage site.												
	Stage-discharge relation defined by 12 discharge measurements made in 2011.												
Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.37	123.50	123.38	124.27	123.46	123.46	123.49	123.90	123.66	124.77	123.46	123.43	
2	123.36	123.50	123.37	124.27	123.46	123.46	123.49	123.88	123.48	124.77	123.46	123.43	
3	123.36	123.50	123.37	124.27	123.46	123.46	123.50	123.85	123.42	124.77	123.46	123.43	
4	123.36	123.50	123.37	124.27	123.46	123.48	123.57	123.83	123.41	124.74	123.46	123.43	
5	123.35	123.48	123.42	124.05	123.46	123.47	123.52	123.81	123.41	124.74	123.46	123.43	
6	123.40	123.39	123.42	123.61	123.50	123.50	123.50	123.78	123.40	124.74	123.46	123.43	
7	123.48	123.35	123.40	123.85	123.55	123.49	123.52	123.75	123.40	124.76	123.46	123.43	
8	123.48	123.35	123.50	123.73	123.55	123.49	123.52	123.74	123.40	124.76	123.46	123.43	
9	123.48	123.35	123.42	123.53	123.55	123.47	123.49	123.73	123.40	124.76	123.46	123.43	
10	123.47	123.34	123.38	123.51	123.55	123.51	123.49	123.85	123.40	124.39	123.46	123.43	
11	123.38	123.34	123.35	123.51	123.55	123.57	123.48	124.37	123.40	123.62	123.46	123.43	
12	123.37	123.34	123.35	123.50	123.55	123.64	123.50	124.61	123.40	123.56	123.46	123.43	
13	123.37	123.33	123.34	123.57	123.55	123.63	123.49	124.67	123.40	123.53	123.46	123.43	
14	123.36	123.33	123.33	123.51	123.55	123.59	123.61	124.75	123.40	123.46	123.42	123.43	
15	123.35	123.33	123.33	123.49	123.56	123.55	123.51	124.75	123.42	123.46	123.35	123.43	
16	123.35	123.33	123.33	123.49	123.53	123.51	123.61	124.73	123.48	123.46	123.35	123.43	
17	123.35	123.33	123.32	123.48	123.49	123.48	124.21	124.72	123.48	123.46	123.33	123.39	
18	123.35	123.32	123.31	123.47	123.50	123.48	124.98	124.72	123.48	123.46	123.33	123.33	
19	123.35	123.32	123.31	123.47	123.48	123.48	125.10	124.72	123.49	123.46	123.32	123.32	
20	123.39	123.32	123.31	123.47	123.46	123.48	125.01	124.76	123.76	123.46	123.32	123.32	
21	123.40	123.32	123.37	123.47	123.46	123.48	124.84	124.80	124.03	123.46	123.40	123.32	
22	123.40	123.32	123.51	123.47	123.44	123.50	124.67	124.81	124.14	123.43	123.43	123.32	
23	123.40	123.31	123.51	123.47	123.44	123.51	124.52	124.81	124.50	123.42	123.43	123.32	
24	123.44	123.34	123.75	123.47	123.44	123.59	124.39	124.79	124.56	123.40	123.43	123.36	
25	123.47	123.46	124.05	123.47	123.44	123.64	124.29	124.79	124.56	123.39	123.43	123.43	
26	123.47	123.51	124.08	123.51	123.44	123.55	124.20	124.77	124.56	123.35	123.43	123.43	
27	123.40	123.40	124.21	123.49	123.50	123.54	124.14	124.77	124.56	123.35	123.43	123.43	
28	123.46	123.39	124.20	123.48	123.47	123.55	124.08	124.66	124.63	123.42	123.43	123.43	
29	123.49	123.39	124.19	123.49	123.47	123.49	124.03	124.57	124.76	123.44	123.43	123.43	
30	123.50	123.39	124.23	123.47	123.46	123.49	123.97	124.48	124.76	123.44		123.43	
31		123.38		123.47	123.46		123.93		124.77	123.44		123.43	
Mean	123.41	123.38	123.55	123.63	123.49	123.52	123.96	124.41	123.84	123.86	123.42	123.41	
Max	123.50	123.51	124.23	124.27	123.56	123.64	125.10	124.81	124.77	124.77	123.46	123.43	125.10
Min	123.35	123.31	123.31	123.47	123.44	123.46	123.48	123.73	123.40	123.35	123.32	123.32	123.31
Annual Max Momentary Gage Height	125.12		m. (MSL.) ,		at 09.00 Hours , on Oct 19 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	123.18		m. (MSL)					
Left Bank Elevation		127.70		m. (MSL.) ,									
Right Bank Elevation		127.57		m. (MSL.) ,	Drainage Area	528	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	21.45	0.00	0.00	0.00	9.00	3.20	41.71	0.00	0.00		
2	0.00	0.00	0.00	21.45	0.00	0.00	0.00	8.50	0.00	41.71	0.00	0.00		
3	0.00	0.00	0.00	21.45	0.00	0.00	0.00	7.75	0.00	41.71	0.00	0.00		
4	0.00	0.00	0.00	21.45	0.00	0.00	1.40	7.25	0.00	40.42	0.00	0.00		
5	0.00	0.00	0.00	13.85	0.00	0.00	0.40	6.75	0.00	40.42	0.00	0.00		
6	0.00	0.00	0.00	2.20	0.00	0.00	0.00	6.00	0.00	40.42	0.00	0.00		
7	0.00	0.00	0.00	7.75	1.00	0.00	0.40	5.25	0.00	41.28	0.00	0.00		
8	0.00	0.00	0.00	4.75	1.00	0.00	0.40	5.00	0.00	41.28	0.00	0.00		
9	0.00	0.00	0.00	0.60	1.00	0.00	0.00	4.75	0.00	41.28	0.00	0.00		
10	0.00	0.00	0.00	0.20	1.00	0.20	0.00	7.75	0.00	26.10	0.00	0.00		
11	0.00	0.00	0.00	0.20	1.00	1.40	0.00	25.30	0.00	2.40	0.00	0.00		
12	0.00	0.00	0.00	0.00	1.00	2.80	0.00	34.92	0.00	1.20	0.00	0.00		
13	0.00	0.00	0.00	1.40	1.00	2.60	0.00	37.44	0.00	0.60	0.00	0.00		
14	0.00	0.00	0.00	0.20	1.00	1.80	2.20	40.85	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	1.20	1.00	0.20	40.85	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.60	0.20	2.20	39.99	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	0.00	19.35	39.56	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	0.00	51.50	39.56	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	0.00	57.50	39.56	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	0.00	53.00	41.28	5.50	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	0.00	44.80	43.00	13.19	0.00	0.00	0.00		
22	0.00	0.00	0.20	0.00	0.00	0.00	37.44	43.45	16.90	0.00	0.00	0.00		
23	0.00	0.00	0.20	0.00	0.00	0.20	31.30	43.45	30.50	0.00	0.00	0.00		
24	0.00	0.00	5.25	0.00	0.00	1.80	26.10	42.57	32.90	0.00	0.00	0.00		
25	0.00	0.00	13.85	0.00	0.00	2.80	22.15	42.57	32.90	0.00	0.00	0.00		
26	0.00	0.20	14.84	0.20	0.00	1.00	19.00	41.71	32.90	0.00	0.00	0.00		
27	0.00	0.00	19.35	0.00	0.00	0.80	16.90	41.71	32.90	0.00	0.00	0.00		
28	0.00	0.00	19.00	0.00	0.00	1.00	14.84	37.02	35.76	0.00	0.00	0.00		
29	0.00	0.00	18.65	0.00	0.00	0.00	13.19	33.30	41.28	0.00	0.00	0.00		
30	0.00	0.00	20.05	0.00	0.00	0.00	11.24	29.70	41.28	0.00		0.00		
31		0.00		0.00	0.00		9.96		41.71	0.00		0.00		
Total	0.00	0.20	111.39	117.15	9.80	17.60	435.47	845.79	360.92	400.53	0.00	0.00	2298.85	CMSDAY
Mean	0.00													

WATER YEAR : 2011

SAKAE KRANG RIVER BASIN

Huai Tak Dad at Ban Don Yai, Uthai Thani (Ct.19)

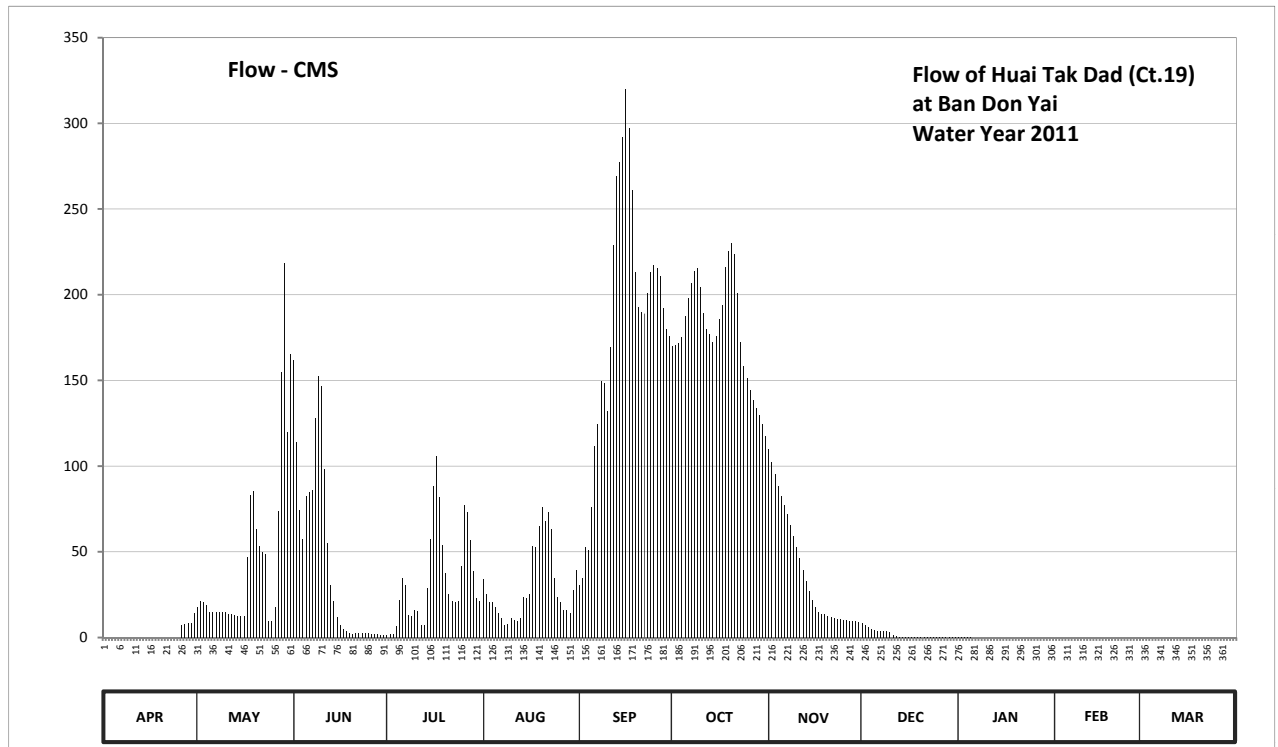
Lat 15 - 27 - 07 N Long 100 - 02 - 00 E

Location : on right bank at Ban Don Yai

	Ban	Don Yai	Amphoe	Mueang	Changwat	Uthai Thani
Drainage Area	3,454	sq.km.				
Type of Gage	Staff gage.					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 5.00 meters from the top staff gage.				Elevation	+24.379 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	1998 to date					
Rating Operation						
Period of Rating	1998 to date					
Rated by Flot	-					
Rated by Current Meter	1998 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.21	18.75	21.91	17.75	19.33	19.22	22.03	21.09	18.28	17.48	16.67	16.67	
2	17.21	18.89	21.16	17.78	19.04	19.36	22.04	20.94	18.22	17.42	16.67	16.67	
3	17.21	18.87	20.39	17.79	18.86	19.88	22.05	20.81	18.15	17.37	16.67	16.67	
4	17.20	18.79	20.01	18.16	18.87	19.83	22.10	20.67	18.07	17.32	16.67	16.67	
5	17.20	18.63	20.55	18.91	18.74	20.42	22.28	20.55	18.03	17.26	16.67	16.67	
6	17.18	18.64	20.60	19.35	18.62	21.12	22.41	20.45	17.98	17.19	16.67	16.67	
7	17.16	18.64	20.62	19.23	18.46	21.34	22.52	20.34	17.97	17.13	16.67	16.67	
8	17.16	18.64	21.40	18.55	18.22	21.74	22.61	20.20	17.96	17.08	16.67	16.67	
9	17.14	18.64	21.78	18.54	18.25	21.72	22.63	20.05	17.96	17.03	16.67	16.67	
10	17.11	18.63	21.69	18.67	18.46	21.47	22.49	19.88	17.91	17.00	16.67	16.67	
11	17.08	18.59	20.86	18.66	18.40	22.02	22.30	19.70	17.76	16.95	16.67	16.67	
12	17.16	18.58	19.94	18.21	18.39	22.79	22.17	19.50	17.63	16.91	16.67	16.67	
13	17.15	18.56	19.23	18.21	18.47	23.19	22.13	19.30	17.34	16.87	16.67	16.67	
14	17.15	18.54	18.88	19.17	18.99	23.27	22.06	19.10	17.30	16.84	16.67	16.67	
15	17.15	18.52	18.49	20.01	18.96	23.40	22.11	18.91	17.36	16.80	16.67	16.67	
16	17.14	18.52	18.20	20.66	19.05	23.64	22.25	18.74	17.54	16.77	16.67	16.67	
17	17.13	19.72	18.08	21.02	19.89	23.45	22.36	18.63	17.61	16.74	16.67	16.67	
18	17.12	20.56	17.96	20.54	19.88	23.11	22.64	18.58	17.61	16.73	16.67	16.67	
19	17.12	20.61	17.84	19.92	20.19	22.60	22.75	18.58	17.54	16.67	16.67	16.67	
20	17.12	20.15	17.82	19.45	20.42	22.35	22.80	18.53	17.54	16.67	16.67	16.67	
21	17.12	19.89	17.83	19.04	20.25	22.31	22.73	18.49	17.54	16.67	16.67	16.67	
22	17.10	19.79	17.86	18.89	20.37	22.30	22.45	18.47	17.54	16.67	16.67	16.67	
23	17.08	19.76	17.86	18.87	20.14	22.45	22.06	18.45	17.54	16.67	16.67	16.67	
24	17.08	18.39	17.85	18.89	19.35	22.60	21.86	18.43	17.54	16.67	16.67	16.67	
25	17.06	18.37	17.83	19.56	18.98	22.65	21.76	18.41	17.55	16.67	16.67	16.67	
26	18.20	18.75	17.80	20.44	18.87	22.63	21.66	18.40	17.56	16.67	16.67	16.67	
27	18.24	20.38	17.80	20.37	18.69	22.57	21.57	18.38	17.56	16.67	16.67	16.67	
28	18.28	21.81	17.78	19.99	18.69	22.34	21.50	18.37	17.56	16.67	16.67	16.67	
29	18.30	22.67	17.76	19.48	18.60	22.17	21.43	18.36	17.56	16.67	16.67	16.67	
30	18.60	21.26	17.75	18.97	19.12	22.11	21.34	18.33	17.56	16.67	16.67	16.67	
31		21.96		18.90	19.50		21.22		17.56	16.67	16.67	16.67	
Mean	17.34	19.44	19.18	19.16	19.10	22.00	22.14	19.29	17.70	16.89	16.67	16.67	
Max	18.60	22.67	21.91	21.02	20.42	23.64	22.80	21.09	18.28	17.48	16.67	16.67	23.64
Min	17.06	18.37	17.75	17.75	18.22	19.22	21.22	18.33	17.30	16.67	16.67	16.67	16.67
Annual Max Momentary Gage Height	23.78		m. (MSL.) , at 19.00 Hours , on Sep 16 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) , River Bed 15.68 m. (MSL)										
Left Bank Elevation	24.36		m. (MSL.) ,										
Right Bank Elevation	24.35		m. (MSL.) , Drainage Area 3454 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.01	17.75	161.70	1.50	33.90	30.60	170.10	109.95	8.20	0.28	0.00	0.00		
2	0.01	21.25	113.80	1.80	25.20	34.80	170.80	102.00	7.30	0.22	0.00	0.00		
3	0.01	20.75	74.50	1.90	20.50	52.80	171.50	95.50	6.25	0.17	0.00	0.00		
4	0.00	18.75	57.70	6.40	20.75	51.05	175.00	88.50	5.05	0.12	0.00	0.00		
5	0.00	14.75	82.50	21.75	17.50	76.00	187.60	82.50	4.45	0.06	0.00	0.00		
6	0.00	15.00	85.00	34.50	14.50	111.60	197.80	77.50	3.80	0.00	0.00	0.00		
7	0.00	15.00	86.00	30.90	11.20	124.40	206.60	72.00	3.70	0.00	0.00	0.00		
8	0.00	15.00	128.00	13.00	7.30	149.80	213.80	65.50	3.60	0.00	0.00	0.00		
9	0.00	15.00	152.60	12.80	7.75	148.40	215.40	59.30	3.60	0.00	0.00	0.00		
10	0.00	14.75	146.35	15.75	11.20	132.20	204.20	52.80	3.10	0.00	0.00	0.00		
11	0.00	13.80	98.00	15.50	10.00	169.40	189.00	46.50	1.60	0.00	0.00	0.00		
12	0.00	13.60	55.02	7.15	9.85	229.10	179.90	39.50	0.65	0.00	0.00	0.00		
13	0.00	13.20	30.90	7.15	11.40	269.00	177.10	33.00	0.14	0.00	0.00	0.00		
14	0.00	12.80	21.00	29.10	23.75	277.70	172.20	27.00	0.10	0.00	0.00	0.00		
15	0.00	12.40	11.80	57.70	23.00	292.00	175.70	21.75	0.16	0.00	0.00	0.00		
16	0.00	12.40	7.00	88.00	25.50	319.80	185.50	17.50	0.38	0.00	0.00	0.00		
17	0.00	47.20	5.20	106.10	53.15	297.50	193.80	14.75	0.55	0.00	0.00	0.00		
18	0.00	83.00	3.60	82.00	52.80	261.00	216.20	13.60	0.55	0.00	0.00	0.00		
19	0.00	85.50	2.40	54.26	65.08	213.00	225.50	13.60	0.38	0.00	0.00	0.00		
20	0.00	63.40	2.20	37.75	76.00	193.00	230.00	12.60	0.38	0.00	0.00	0.00		
21	0.00	53.15	2.30	25.20	67.75	189.80	223.70	11.80	0.38	0.00	0.00	0.00		
22	0.00	49.65	2.60	21.25	73.50	189.00	201.00	11.40	0.38	0.00	0.00	0.00		
23	0.00	48.60	2.60	20.75	62.98	201.00	172.20	11.00	0.38	0.00	0.00	0.00		
24	0.00	9.85	2.50	21.25	34.50	213.00	158.20	10.60	0.38	0.00	0.00	0.00		
25	0.00	9.55	2.30	41.60	23.50	217.00	151.20	10.20	0.40	0.00	0.00	0.00		
26	7.00	17.75	2.00	77.00	20.75	215.40	144.40	10.00	0.42	0.00	0.00	0.00		
27	7.60	74.00	2.00	73.50	16.25	210.60	138.55	9.70	0.42	0.00	0.00	0.00		
28	8.20	154.70	1.80	56.92	16.25	192.20	134.00	9.55	0.42	0.00	0.00	0.00		
29	8.50	218.60	1.60	38.80	14.00	179.90	129.80	9.40	0.42	0.00	0.00	0.00		
30	14.00	119.60	1.50	23.25	27.60	175.70	124.40	8.95	0.42	0.00	0.00	0.00		
31		165.20		21.50	39.50		117.20		0.42	0.00		0.00		
Total	45.33	1445.95	1346.47	1046.03	916.91	5416.75	5552.35	1147.95	58.38	0.85	0.00	0.00	16976.97	CMSDAY
Mean	1.51	46.64	44.88	33.74	29.58	180.56	179.11	38.26	1.88	0.03	0.00	0.00	46.39	CMS
Max	14.00	218.60	161.70	106.10	76.00	319.80	230.00	109.95	8.20	0.28	0.00	0.00	319.80	CMS
Min	0.00	9.55	1.50	1.50	7.30	30.60	117.20	8.95	0.10	0.00	0.00	0.00	0.00	CMS
Runoff	3.92	124.93	116.34	90.38	79.22	468.01	479.72	99.18	5.04	0.07	0.00	0.00	1466.81	MCM
Momentary Peak	336.60 CMS. at 23.78 m. (MSL.) at 19.00 Hours , on Sep 16 , 2011													
Runoff Yield	13.43	Liters/Second/Square KM.			Momentary Peak Yield			97.452	Liters/Second/Square KM.					

WATER YEAR : 2011

SAKAE KRANG RIVER BASIN

Lower Huai Thap Salao at Ban Saphan Leak, Uthai Thani (Ct.20)

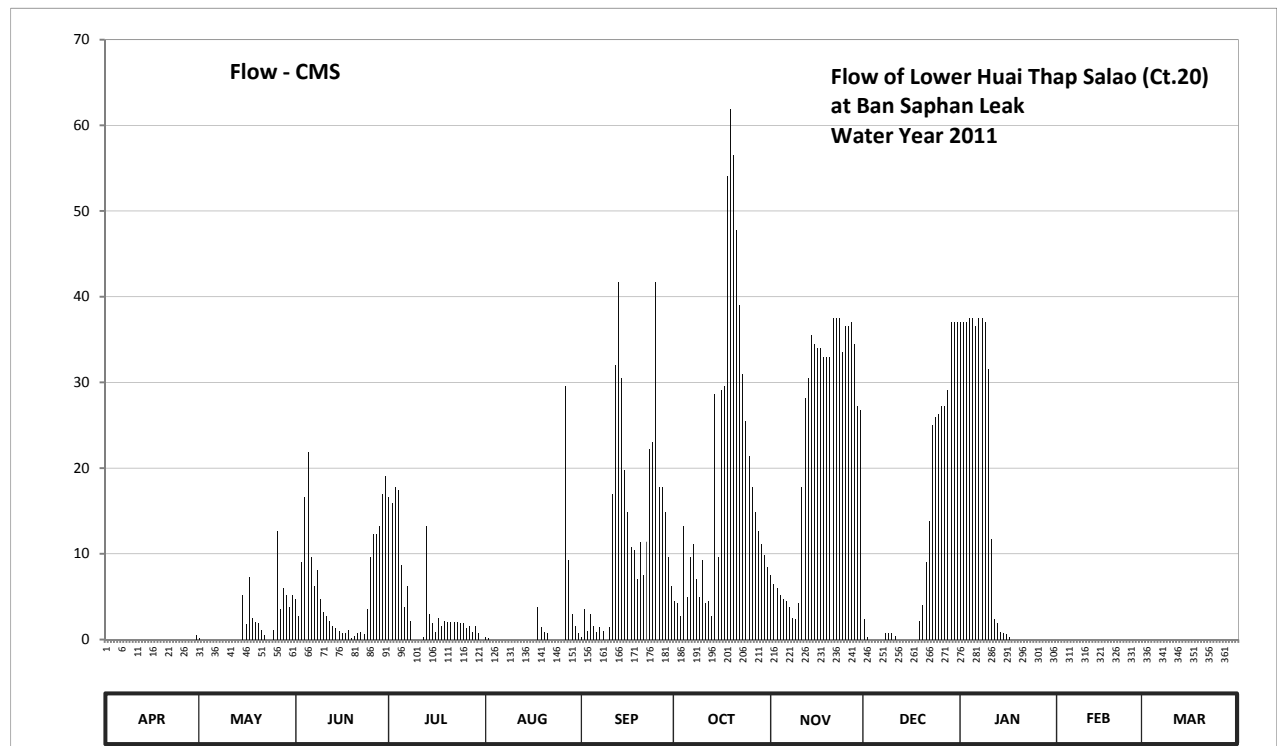
Lat 15 - 26 - 43 N Long 99 - 35 - 24 E

Location : on right bank at Ban Saphan Leak

	Ban	Saphan Leak	Amphoe	Lan Sak	Changwat	Uthai Thani
Drainage Area	691	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the automatic gage buidng				Elevation	+101.800 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow					
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	98.65	98.92	99.19	99.59	98.93	98.93	99.18	99.30	99.09	100.05	98.59	98.52	
2	98.63	98.74	99.11	99.57	98.92	99.14	99.17	99.26	98.93	100.05	98.57	98.54	
3	98.63	98.73	99.35	99.62	98.87	99.00	99.11	99.24	98.83	100.05	98.57	98.55	
4	98.64	98.71	99.59	99.61	98.86	99.12	99.49	99.21	98.88	100.06	98.58	98.56	
5	98.64	98.71	99.72	99.34	98.80	99.04	99.20	99.19	98.78	100.06	98.60	98.53	
6	98.65	98.73	99.37	99.15	98.73	98.99	99.37	99.18	98.77	100.04	98.62	98.52	
7	98.69	98.67	99.25	99.25	98.77	99.03	99.42	99.15	98.76	100.06	98.61	98.52	
8	98.70	98.65	99.32	99.08	98.78	99.00	99.28	99.10	98.98	100.06	98.61	98.52	
9	98.70	98.73	99.19	98.78	98.86	98.90	99.20	99.09	98.97	100.05	98.63	98.52	
10	98.66	98.73	99.13	98.85	98.79	99.03	99.36	99.17	98.97	99.94	98.64	98.53	
11	98.65	98.71	99.11	98.87	98.80	99.60	99.17	99.62	98.94	99.44	98.63	98.56	
12	98.65	98.68	99.08	98.93	98.87	99.95	99.18	99.87	98.90	99.09	98.62	98.56	
13	98.66	98.67	99.04	99.49	98.87	100.14	99.11	99.92	98.87	99.06	98.62	98.55	
14	98.67	98.73	99.02	99.12	98.87	99.92	99.88	100.02	98.84	98.99	98.62	98.55	
15	98.65	99.21	99.00	99.06	98.88	99.67	99.37	100.00	98.81	98.98	98.56	98.61	
16	98.63	99.05	98.98	98.99	98.76	99.54	99.89	99.99	98.78	98.96	98.54	98.69	
17	98.63	99.29	98.97	99.10	98.76	99.41	99.90	99.99	98.78	98.93	98.56	98.61	
18	98.58	99.10	99.01	99.04	99.15	99.40	100.36	99.97	98.79	98.90	98.56	98.56	
19	98.90	99.07	98.92	99.08	99.03	99.28	100.49	99.97	99.08	98.88	98.55	98.56	
20	98.83	99.06	98.94	99.07	98.99	99.43	100.40	99.97	99.16	98.87	98.53	98.55	
21	98.73	99.01	98.98	99.07	98.98	99.30	100.25	100.06	99.35	98.86	98.52	98.54	
22	98.65	98.95	98.99	99.07	98.88	99.43	100.09	100.06	99.51	98.86	98.53	98.53	
23	98.69	98.89	98.96	99.07	98.77	99.73	99.93	100.06	99.80	98.84	98.54	98.51	
24	98.60	98.82	99.14	99.06	98.74	99.75	99.81	99.98	99.82	98.80	98.54	98.53	
25	98.62	99.01	99.37	99.06	98.82	100.14	99.71	100.04	99.83	98.79	98.52	98.54	
26	98.62	99.47	99.46	99.02	98.71	99.62	99.62	100.04	99.85	98.76	98.53	98.54	
27	98.59	99.14	99.46	99.04	99.90	99.62	99.54	100.05	99.85	98.72	98.53	98.54	
28	98.57	99.24	99.49	98.99	99.36	99.54	99.47	100.00	99.89	98.67	98.53	98.55	
29	98.67	99.21	99.60	99.04	99.12	99.37	99.42	99.85	100.05	98.65	98.51	98.55	
30	98.95	99.15	99.65	98.98	99.04	99.25	99.38	99.84	100.05	98.63		98.56	
31		99.21		98.86	98.98		99.33		100.05	98.61		98.57	
Mean	98.67	98.94	99.21	99.12	98.92	99.41	99.58	99.71	99.22	99.25	98.57	98.55	
Max	98.95	99.47	99.72	99.62	99.90	100.14	100.49	100.06	100.05	100.06	98.64	98.69	100.49
Min	98.57	98.65	98.92	98.78	98.71	98.90	99.11	99.09	98.76	98.61	98.51	98.51	98.51
Annual Max Momentary Gage Height	100.49		m. (MSL.) , at 06.00 Hours , on Oct 19 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) , River Bed 97.68 m. (MSL)										
Left Bank Elevation	104.36		m. (MSL.) ,										
Right Bank Elevation	104.34		m. (MSL.) , Drainage Area 691 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.20	4.75	16.65	0.30	0.30	4.50	7.50	2.35	37.00	0.00	0.00		
2	0.00	0.00	2.75	15.95	0.20	3.50	4.25	6.50	0.30	37.00	0.00	0.00		
3	0.00	0.00	9.00	17.80	0.00	1.00	2.75	6.00	0.00	37.00	0.00	0.00		
4	0.00	0.00	16.65	17.40	0.00	3.00	13.20	5.25	0.00	37.50	0.00	0.00		
5	0.00	0.00	21.80	8.70	0.00	1.60	5.00	4.75	0.00	37.50	0.00	0.00		
6	0.00	0.00	9.60	3.75	0.00	0.90	9.60	4.50	0.00	36.50	0.00	0.00		
7	0.00	0.00	6.25	6.25	0.00	1.45	11.10	3.75	0.00	37.50	0.00	0.00		
8	0.00	0.00	8.10	2.20	0.00	1.00	7.00	2.50	0.80	37.50	0.00	0.00		
9	0.00	0.00	4.75	0.00	0.00	0.00	5.00	2.35	0.70	37.00	0.00	0.00		
10	0.00	0.00	3.25	0.00	0.00	1.45	9.30	4.25	0.70	31.50	0.00	0.00		
11	0.00	0.00	2.75	0.00	0.00	17.00	4.25	17.80	0.40	11.70	0.00	0.00		
12	0.00	0.00	2.20	0.30	0.00	32.00	4.50	28.15	0.00	2.35	0.00	0.00		
13	0.00	0.00	1.60	13.20	0.00	41.70	2.75	30.50	0.00	1.90	0.00	0.00		
14	0.00	0.00	1.30	3.00	0.00	30.50	28.60	35.50	0.00	0.90	0.00	0.00		
15	0.00	5.25	1.00	1.90	0.00	19.80	9.60	34.50	0.00	0.80	0.00	0.00		
16	0.00	1.75	0.80	0.90	0.00	14.90	29.05	34.00	0.00	0.60	0.00	0.00		
17	0.00	7.25	0.70	2.50	0.00	10.80	29.50	34.00	0.00	0.30	0.00	0.00		
18	0.00	2.50	1.15	1.60	3.75	10.50	54.10	33.00	0.00	0.00	0.00	0.00		
19	0.00	2.05	0.20	2.20	1.45	7.00	61.90	33.00	2.20	0.00	0.00	0.00		
20	0.00	1.90	0.40	2.05	0.90	11.40	56.50	33.00	4.00	0.00	0.00	0.00		
21	0.00	1.15	0.80	2.05	0.80	7.50	47.75	37.50	9.00	0.00	0.00	0.00		
22	0.00	0.50	0.90	2.05	0.00	11.40	39.00	37.50	13.85	0.00	0.00	0.00		
23	0.00	0.00	0.60	2.05	0.00	22.20	31.00	37.50	25.00	0.00	0.00	0.00		
24	0.00	0.00	3.50	1.90	0.00	23.00	25.45	33.50	25.90	0.00	0.00	0.00		
25	0.00	1.15	9.60	1.90	0.00	41.70	21.40	36.50	26.35	0.00	0.00	0.00		
26	0.00	12.60	12.30	1.30	0.00	17.80	17.80	36.50	27.25	0.00	0.00	0.00		
27	0.00	3.50	12.30	1.60	29.50	17.80	14.90	37.00	27.25	0.00	0.00	0.00		
28	0.00	6.00	13.20	0.90	9.30	14.90	12.60	34.50	29.05	0.00	0.00	0.00		
29	0.00	5.25	17.00	1.60	3.00	9.60	11.10	27.25	37.00	0.00	0.00	0.00		
30	0.50	3.75	19.00	0.80	1.60	6.25	9.90	26.80	37.00	0.00		0.00		
31		5.25		0.00	0.80		8.40		37.00	0.00		0.00		
Total	0.50	60.05	188.20	132.50	51.60	381.95	591.75	705.35	306.10	384.55	0.00	0.00	2802.55	CMSDAY
Mean	0.02	1.94	6.27	4.27	1.66	12.73	19.09	23.51	9.87	12.40	0.00	0.00	7.66	CMS
Max	0.50	12.60	21.80	17.80	29.50	41.70	61.90	37.50	37.00	37.50	0.00	0.00	61.90	CMS
Min	0.00	0.00	0.20	0.00	0.00	0.00	2.75	2.35	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.04	5.19	16.26	11.45	4.46	33.00	51.13	60.94	26.45	33.23	0.00	0.00	242.14	MCM
Momentary Peak	61.90 CMS. at 100.49 m. (MSL.) at 06.00 Hours , on Oct 19 , 2011													
Runoff Yield	11.08	Liters/Second/Square KM.			Momentary Peak Yield		89.562	Liters/Second/Square KM.						

WATER YEAR : 2011

SAKAE KRANG RIVER BASIN

Huai Kan Yao at Ban Phai Khieo, Uthai Thani (Ct.21)

Lat 15 - 37 - 55 N Long 99 - 42 - 35 E

Location : on left bank at Ban Phai Khieo

	Ban	Phai Khieo	Amphoe	Sawang Arom	Changwat	Uthai Thani
Drainage Area	201	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge				Elevation	+68.700 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Fairly stable					
Overbank Flow Conditions	No overbank flow					
General Description	Record good. Stage-discharge relation defined by 8 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.30	64.40	65.69	65.22	65.55	65.78	65.59	65.57	64.17	64.17	64.17	64.17	
2	65.25	64.40	65.51	65.31	65.42	65.84	65.68	65.44	64.17	64.17	64.17	64.17	
3	65.10	64.40	65.94	65.67	65.23	65.72	65.72	65.41	64.17	64.17	64.17	64.17	
4	65.15	64.40	66.02	65.81	65.02	65.89	65.80	65.58	64.17	64.17	64.17	64.17	
5	65.10	64.40	65.89	66.18	64.81	65.85	65.83	65.39	64.17	64.17	64.17	64.17	
6	65.10	64.40	65.81	65.83	64.73	65.76	65.83	65.17	64.17	64.17	64.17	64.17	
7	65.05	64.40	66.17	65.71	64.78	65.84	65.89	65.23	64.17	64.17	64.17	64.17	
8	65.40	64.40	66.29	65.65	64.97	65.80	65.87	65.28	64.17	64.17	64.17	64.17	
9	65.25	64.40	65.96	65.41	65.17	65.77	65.78	65.29	64.17	64.17	64.17	64.17	
10	65.10	64.40	65.83	65.30	65.16	65.87	65.78	65.53	64.17	64.17	64.17	64.17	
11	65.10	64.40	65.65	65.29	64.82	66.02	65.78	65.65	64.17	64.17	64.17	64.17	
12	65.00	64.40	65.59	65.44	64.91	66.75	65.78	65.33	64.17	64.17	64.17	64.17	
13	64.90	64.40	65.68	65.72	65.02	66.86	65.77	65.30	64.17	64.17	64.17	64.17	
14	64.85	65.88	65.49	65.87	65.09	66.30	66.19	65.41	64.17	64.17	64.17	64.17	
15	64.70	65.68	65.40	65.82	65.07	65.95	66.14	65.25	64.17	64.17	64.17	64.17	
16	64.60	65.82	65.43	65.77	65.27	65.82	66.06	65.20	64.17	64.17	64.17	64.17	
17	64.60	65.80	65.31	65.76	65.67	65.70	66.45	65.17	64.17	64.17	64.17	64.17	
18	64.60	65.85	65.26	65.67	65.81	65.52	66.18	65.11	64.17	64.17	64.17	64.17	
19	64.40	65.80	65.20	65.38	65.84	65.50	65.88	65.05	64.17	64.17	64.17	64.17	
20	64.40	65.68	65.14	65.63	65.77	66.02	65.79	65.03	64.17	64.17	64.17	64.17	
21	64.40	65.70	65.04	65.36	65.82	65.77	65.77	65.02	64.17	64.17	64.17	64.17	
22	64.40	65.68	65.03	65.56	65.67	66.01	65.76	65.01	64.17	64.17	64.17	64.17	
23	64.40	65.68	65.65	65.56	65.06	66.14	65.76	65.00	64.17	64.17	64.17	64.17	
24	64.40	65.70	65.53	65.83	65.55	66.05	65.73	64.97	64.17	64.17	64.17	64.17	
25	64.40	65.55	65.30	65.88	65.74	65.87	65.75	64.92	64.17	64.17	64.17	64.17	
26	64.40	66.30	65.21	65.82	65.71	65.75	65.75	64.88	64.17	64.17	64.17	64.17	
27	64.40	66.00	65.14	65.79	65.49	65.71	65.72	64.82	64.17	64.17	64.17	64.17	
28	64.40	65.85	65.33	65.63	65.72	65.74	65.74	64.73	64.17	64.17	64.17	64.17	
29	64.40	65.90	65.47	65.75	65.98	65.85	65.74	64.73	64.17	64.17	64.17	64.17	
30	64.40	66.00	65.41	65.71	66.11	65.70	65.75	64.73	64.17	64.17		64.17	
31		65.90		65.65	65.82		65.72		64.17	64.17		64.17	
Mean	64.77	65.22	65.55	65.64	65.38	65.90	65.84	65.17	64.17	64.17	64.17	64.17	
Max	65.40	66.30	66.29	66.18	66.11	66.86	66.45	65.65	64.17	64.17	64.17	64.17	66.86
Min	64.40	64.40	65.03	65.22	64.73	65.50	65.59	64.73	64.17	64.17	64.17	64.17	64.17
Annual Max Momentary Gage Height	67.10		m. (MSL.) ,		at 18.00 Hours , on Sep 12 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	64.21	m. (MSL)						
Left Bank Elevation	68.51		m. (MSL.) ,										
Right Bank Elevation	68.50		m. (MSL.) ,		Drainage Area	201	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.50	0.00	4.10	1.18	2.90	5.16	3.14	3.02	0.00	0.00	0.00	0.00	
2	1.30	0.00	2.66	1.55	2.12	6.08	4.00	2.24	0.00	0.00	0.00	0.00	
3	0.80	0.00	8.10	3.90	1.22	4.44	4.44	2.06	0.00	0.00	0.00	0.00	
4	0.95	0.00	10.40	5.57	0.64	6.93	5.40	3.08	0.00	0.00	0.00	0.00	
5	0.80	0.00	6.93	25.12	0.22	6.25	5.91	1.95	0.00	0.00	0.00	0.00	
6	0.80	0.00	5.57	5.91	0.06	4.92	5.91	1.01	0.00	0.00	0.00	0.00	
7	0.70	0.00	23.68	4.32	0.16	6.08	6.93	1.22	0.00	0.00	0.00	0.00	
8	2.00	0.00	28.72	3.70	0.54	5.40	6.59	1.42	0.00	0.00	0.00	0.00	
9	1.30	0.00	8.60	2.06	1.01	5.04	5.16	1.46	0.00	0.00	0.00	0.00	
10	0.80	0.00	5.91	1.50	0.98	6.59	5.16	2.78	0.00	0.00	0.00	0.00	
11	0.80	0.00	3.70	1.46	0.24	10.40	5.16	3.70	0.00	0.00	0.00	0.00	
12	0.60	0.00	3.14	2.24	0.42	35.10	5.16	1.65	0.00	0.00	0.00	0.00	
13	0.40	0.00	4.00	4.44	0.64	37.20	5.04	1.50	0.00	0.00	0.00	0.00	
14	0.30	6.76	2.54	6.59	0.78	28.80	26.56	2.06	0.00	0.00	0.00	0.00	
15	0.00	4.00	2.00	5.74	0.74	8.35	19.36	1.30	0.00	0.00	0.00	0.00	
16	0.00	5.74	2.18	5.04	1.38	5.74	12.00	1.10	0.00	0.00	0.00	0.00	
17	0.00	5.40	1.55	4.92	3.90	4.20	30.45	1.01	0.00	0.00	0.00	0.00	
18	0.00	6.25	1.34	3.90	5.57	2.72	25.12	0.83	0.00	0.00	0.00	0.00	
19	0.00	5.40	1.10	1.90	6.08	2.60	6.76	0.70	0.00	0.00	0.00	0.00	
20	0.00	4.00	0.92	3.50	5.04	10.40	5.28	0.66	0.00	0.00	0.00	0.00	
21	0.00	4.20	0.68	1.80	5.74	5.04	5.04	0.64	0.00	0.00	0.00	0.00	
22	0.00	4.00	0.66	2.96	3.90	10.00	4.92	0.62	0.00	0.00	0.00	0.00	
23	0.00	4.00	3.70	2.96	0.72	19.36	4.92	0.60	0.00	0.00	0.00	0.00	
24	0.00	4.20	2.78	5.91	2.90	11.60	4.56	0.54	0.00	0.00	0.00	0.00	
25	0.00	2.90	1.50	6.76	4.68	6.59	4.80	0.44	0.00	0.00	0.00	0.00	
26	0.00	28.80	1.14	5.74	4.32	4.80	4.80	0.36	0.00	0.00	0.00	0.00	
27	0.00	9.60	0.92	5.28	2.54	4.32	4.44	0.24	0.00	0.00	0.00	0.00	
28	0.00	6.25	1.65	3.50	4.44	4.68	4.68	0.06	0.00	0.00	0.00	0.00	
29	0.00	7.10	2.42	4.80	9.10	6.25	4.68	0.06	0.00	0.00	0.00	0.00	
30	0.00	9.60	2.06	4.32	15.04	4.20	4.80	0.06	0.00	0.00		0.00	
31		7.10		3.70	5.74		4.44		0.00	0.00		0.00	
Total	13.05	125.30	144.65	142.27	93.76	279.24	245.61	38.37	0.00	0.00	0.00	0.00	1082.25
Mean	0.44	4.04	4.82	4.59	3.02	9.31	7.92						

WATER YEAR : 2011

SAKAE KRANG RIVER BASIN

Huai Khwee at Ban Mok Taew, Uthai Thani (Ct.22)

Lat 15 - 20 - 30 N Long 99 - 59 - 09 E

Location : on left bank at Ban Mok Taew.

	Ban	Mok Taew	Amphoe	Nong Kha Yang	Changwat	Uthai Thani
Drainage Area	-	sq.km.				
Type of Gage		Water - stage recorder				
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark		B.M.-H.D.				
Location BM		On left bank at the abutment of the bridge			Elevation	+35.110 m. (MSL.)
Gage Reading Frequency		Recording				
Basis of Mean Daily Gage Height		Arithmetic means of 24 readings				
Period of Available Gage Records		2008 to date				
Rating Operation						
Period of Rating		2008 to date				
Rated by Flot		-				
Rated by Current Meter		2008 to date				
Stability of Channel Regimes		Fairly stable.				
Overbank Flow Conditions		No overbank flow				
General Description		Records good. Stage-discharge relation defined by 5 discharge measurements made in 2011.				

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.46	30.95	31.59	31.47	31.54	31.52	31.52	31.46	31.40	30.11	30.74	30.74	
2	31.46	30.92	31.54	31.54	31.54	31.51	31.55	31.46	31.39	30.11	30.74	30.74	
3	31.46	30.92	31.56	31.54	31.54	31.50	31.56	31.44	31.34	30.11	30.74	30.74	
4	31.46	31.28	31.56	31.59	31.52	31.50	31.62	31.44	31.26	30.11	30.74	30.74	
5	31.46	31.42	31.55	31.60	31.49	31.64	31.64	31.44	31.18	30.11	30.74	30.74	
6	31.45	31.48	31.58	31.59	31.47	31.73	31.49	31.44	31.10	30.11	30.74	30.74	
7	31.40	31.47	31.60	31.57	31.46	31.77	30.98	31.42	31.05	30.11	30.74	30.74	
8	31.30	31.47	31.63	31.53	31.45	31.75	31.30	31.43	31.02	30.25	30.74	30.74	
9	31.24	31.46	31.63	31.50	31.45	31.69	31.56	31.37	30.95	30.67	30.74	30.74	
10	31.23	31.46	31.62	31.49	31.46	31.71	31.55	31.30	30.85	31.25	30.74	30.74	
11	31.25	31.46	31.59	31.48	31.53	31.90	31.54	31.25	30.71	31.04	30.74	30.74	
12	31.20	31.46	31.55	31.48	31.54	31.98	31.51	31.15	30.56	30.81	30.74	30.74	
13	31.16	31.46	31.51	31.53	31.56	32.06	31.48	31.06	30.44	30.70	30.74	30.74	
14	31.15	31.46	31.48	31.64	31.58	32.06	31.49	31.02	30.35	30.70	30.74	30.74	
15	31.12	31.50	31.47	31.72	31.57	32.00	31.56	30.98	30.24	30.63	30.74	30.74	
16	31.08	31.52	31.45	31.75	31.58	31.92	31.69	30.88	30.19	30.58	30.74	30.74	
17	31.06	31.54	31.45	31.83	31.62	31.84	31.78	30.79	30.19	30.52	30.74	30.74	
18	31.04	31.53	31.47	31.81	31.70	31.90	31.82	30.61	30.17	30.47	30.74	30.74	
19	31.05	31.53	31.46	31.75	31.71	31.92	31.77	30.42	30.12	30.43	30.74	30.74	
20	31.07	31.53	31.46	31.68	31.71	31.95	31.70	30.34	30.10	30.36	30.74	30.74	
21	31.05	31.52	31.48	31.61	31.69	31.91	31.65	30.27	30.05	30.32	30.74	30.74	
22	31.03	31.51	31.49	31.58	31.64	31.88	31.60	30.17	30.07	30.30	30.74	30.74	
23	31.01	31.50	31.49	31.56	31.58	31.85	31.57	30.20	30.11	30.19	30.74	30.74	
24	31.00	31.48	31.50	31.58	31.54	31.77	31.56	31.12	30.11	30.09	30.74	30.74	
25	30.98	31.45	31.48	31.55	31.52	31.67	31.52	31.36	30.11	30.09	30.74	30.74	
26	30.93	31.46	31.46	31.58	31.50	31.46	31.49	31.11	30.11	30.09	30.74	30.74	
27	30.92	31.50	31.45	31.64	31.49	30.94	31.48	30.74	30.11	30.09	30.74	30.74	
28	30.91	31.62	31.45	31.62	31.48	31.34	31.47	30.75	30.11	30.09	30.74	30.74	
29	30.93	31.58	31.45	31.58	31.49	31.31	31.48	31.36	30.11	30.09	30.74	30.74	
30	30.97	31.54	31.44	31.56	31.52	31.53	31.48	31.39	30.11	30.09		30.74	
31		31.62		31.53	31.54		31.47		30.11	30.09		30.74	
Mean	31.16	31.44	31.51	31.60	31.55	31.72	31.54	31.04	30.51	30.35	30.74	30.74	
Max	31.46	31.62	31.63	31.83	31.71	32.06	31.82	31.46	31.40	31.25	30.74	30.74	32.06
Min	30.91	30.92	31.44	31.47	31.45	30.94	30.98	30.17	30.05	30.09	30.74	30.74	30.05
Annual Max Momentary Gage Height	32.11		m. (MSL.) , at 03.00 Hours , on Sep 14 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) , River Bed 30.93 m. (MSL)										
Left Bank Elevation	34.96		m. (MSL.) ,										
Right Bank Elevation	34.98		m. (MSL.) , Drainage Area Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.72	0.00	2.64	0.84	1.84	1.52	1.52	0.72	0.00	0.00	0.00	0.00	
2	0.72	0.00	1.84	1.84	1.84	1.36	2.00	0.72	0.00	0.00	0.00	0.00	
3	0.72	0.00	2.16	1.84	1.84	1.20	2.16	0.48	0.00	0.00	0.00	0.00	
4	0.72	0.00	2.16	2.64	1.52	1.20	3.18	0.48	0.00	0.00	0.00	0.00	
5	0.72	0.24	2.00	2.80	1.08	3.56	3.56	0.48	0.00	0.00	0.00	0.00	
6	0.60	0.96	2.48	2.64	0.84	5.30	1.08	0.48	0.00	0.00	0.00	0.00	
7	0.00	0.84	2.80	2.32	0.72	6.10	0.00	0.24	0.00	0.00	0.00	0.00	
8	0.00	0.84	3.37	1.68	0.60	5.70	0.00	0.36	0.00	0.00	0.00	0.00	
9	0.00	0.72	3.37	1.20	0.60	4.51	2.16	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.72	3.18	1.08	0.72	4.90	2.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.72	2.64	0.96	1.68	9.10	1.84	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.72	2.00	0.96	1.84	11.26	1.36	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.72	1.36	1.68	2.16	13.72	0.96	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.72	0.96	3.56	2.48	13.72	1.08	0.00	0.00	0.00	0.00	0.00	
15	0.00	1.20	0.84	5.10	2.32	11.80	2.16	0.00	0.00	0.00	0.00	0.00	
16	0.00	1.52	0.60	5.70	2.48	9.64	4.51	0.00	0.00	0.00	0.00	0.00	
17	0.00	1.84	0.60	7.42	3.18	7.66	6.30	0.00	0.00	0.00	0.00	0.00	
18	0.00	1.68	0.84	6.94	4.70	9.10	7.18	0.00	0.00	0.00	0.00	0.00	
19	0.00	1.68	0.72	5.70	4.90	9.64	6.10	0.00	0.00	0.00	0.00	0.00	
20	0.00	1.68	0.72	4.32	4.90	10.45	4.70	0.00	0.00	0.00	0.00	0.00	
21	0.00	1.52	0.96	2.99	4.51	9.37	3.75	0.00	0.00	0.00	0.00	0.00	
22	0.00	1.36	1.08	2.48	3.56	8.62	2.80	0.00	0.00	0.00	0.00	0.00	
23	0.00	1.20	1.08	2.16	2.48	7.90	2.32	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.96	1.20	2.48	1.84	6.10	2.16	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.60	0.96	2.00	1.52	4.13	1.52	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.72	0.72	2.48	1.20	0.72	1.08	0.00	0.00	0.00	0.00	0.00	
27	0.00	1.20	0.60	3.56	1.08	0.00	0.96	0.00	0.00	0.00	0.00	0.00	
28	0.00	3.18	0.60	3.18	0.96	0.00	0.84	0.00	0.00	0.00	0.00	0.00	
29	0.00	2.48	0.60	2.48	1.08	0.00	0.96	0.00	0.00	0.00	0.00	0.00	
30	0.00	1.84	0.48	2.16	1.52	1.68	0.96	0.00	0.00	0.00		0.00	
31		3.18		1.68	1.84		0.84		0.00	0.00		0.00	
Total	4.20	35.04	45.56	88.87	63.83	179.96	72.04	3.96	0.00	0.00	0.00	0.00	493.46 CMSDAY
Mean	0.14	1.13	1.52	2.87	2.06	6.00	2.32	0.13	0.00				

WATER YEAR : 2011**SAKAE KRANG RIVER BASIN****Huai Rang at Ban Huai Rang, Uthai Thani (Ct.23)**

Lat 15 - 28 - 58 N Long 99 - 29 - 27 E

Location : on left bank at Ban Huai Rang.

	Ban	Huai Rang	Amphoe	Lan Sak	Changwat	Uthai Thani
Drainage Area	-	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge				Elevation	+125.799 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Fairly stable					
Overbank Flow Conditions	No overbank flow					
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	121.13	121.15	121.48	121.24	121.28	121.39	121.42	121.28	121.19	121.15	120.96	120.96	
2	121.11	121.13	121.44	121.23	121.25	121.36	121.40	121.28	121.19	121.15	120.96	120.96	
3	121.11	121.23	121.61	121.24	121.24	121.37	121.50	121.27	121.19	121.15	120.96	120.96	
4	121.10	121.20	121.82	121.27	121.24	121.34	121.52	121.26	121.19	121.15	120.96	120.96	
5	121.10	121.20	121.91	121.30	121.23	121.30	121.45	121.25	121.18	121.15	120.96	120.96	
6	121.13	121.22	121.70	121.30	121.23	121.29	121.50	121.24	121.18	121.15	120.96	120.96	
7	121.14	121.17	121.56	121.24	121.22	121.30	121.68	121.25	121.18	121.15	120.96	120.96	
8	121.11	121.18	121.50	121.21	121.23	121.28	121.55	121.24	121.18	121.15	120.96	120.96	
9	121.10	121.16	121.43	121.21	121.24	121.26	121.49	121.23	121.17	121.15	120.96	120.96	
10	121.09	121.15	121.40	121.21	121.23	121.52	121.59	121.23	121.17	121.14	120.96	120.96	
11	121.09	121.14	121.38	121.25	121.23	121.84	121.47	121.23	121.17	121.14	120.96	120.96	
12	121.08	121.13	121.35	121.36	121.23	121.93	121.46	121.22	121.17	121.13	120.96	120.96	
13	121.07	121.12	121.33	121.42	121.23	121.83	121.54	121.22	121.17	121.14	120.96	120.96	
14	121.07	121.36	121.31	121.34	121.24	121.66	121.67	121.21	121.17	121.15	120.96	120.96	
15	121.07	121.44	121.30	121.31	121.24	121.56	121.54	121.21	121.17	121.16	120.96	120.96	
16	121.06	121.38	121.29	121.34	121.24	121.49	121.70	121.21	121.17	121.14	120.96	120.96	
17	121.06	121.56	121.29	121.34	121.34	121.44	121.76	121.21	121.17	121.13	120.96	120.96	
18	121.07	121.39	121.29	121.34	121.31	121.40	121.73	121.21	121.16	121.13	120.96	120.96	
19	121.15	121.34	121.27	121.30	121.28	121.39	121.62	121.20	121.17	121.13	120.96	120.96	
20	121.10	121.30	121.26	121.29	121.28	121.43	121.55	121.20	121.17	121.13	120.96	120.96	
21	121.08	121.28	121.27	121.32	121.27	121.39	121.50	121.20	121.17	121.13	120.96	120.96	
22	121.07	121.26	121.26	121.30	121.26	121.50	121.46	121.19	121.16	121.14	120.96	120.96	
23	121.07	121.25	121.25	121.30	121.25	121.70	121.43	121.20	121.17	121.15	120.96	120.96	
24	121.07	121.25	121.25	121.30	121.23	121.77	121.40	121.20	121.16	121.16	120.96	120.96	
25	121.07	121.36	121.24	121.28	121.21	121.74	121.38	121.20	121.16	121.14	120.96	120.96	
26	121.07	121.38	121.23	121.29	121.21	121.61	121.36	121.19	121.16	121.14	120.96	120.96	
27	121.07	121.28	121.24	121.28	121.57	121.67	121.34	121.19	121.15	121.13	120.96	120.96	
28	121.08	121.44	121.25	121.27	121.49	121.56	121.32	121.19	121.15	121.13	120.96	120.96	
29	121.17	121.33	121.29	121.27	121.35	121.50	121.31	121.19	121.15	121.13	120.96	120.96	
30	121.22	121.41	121.27	121.26	121.33	121.45	121.30	121.19	121.15	121.12		120.96	
31		121.53		121.26	121.30		121.29		121.15	121.12		120.96	
Mean	121.10	121.28	121.38	121.29	121.27	121.51	121.49	121.22	121.17	121.14	120.96	120.96	
Max	121.22	121.56	121.91	121.42	121.57	121.93	121.76	121.28	121.19	121.16	120.96	120.96	121.93
Min	121.06	121.12	121.23	121.21	121.21	121.26	121.29	121.19	121.15	121.12	120.96	120.96	120.96
Annual Max Momentary Gage Height	122.40		m. (MSL.) ,			at 18.00 Hours , on Jun 4 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	121.03	m. (MSL)					
Left Bank Elevation		125.80	m. (MSL.) ,										
Right Bank Elevation		125.79	m. (MSL.) ,			Drainage Area		Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.24	0.32	4.02	0.87	1.22	2.54	3.01	1.22	0.48	0.32	0.00	0.00	
2	0.16	0.24	3.35	0.78	0.96	2.16	2.67	1.22	0.48	0.32	0.00	0.00	
3	0.16	0.78	6.89	0.87	0.87	2.29	4.36	1.14	0.48	0.32	0.00	0.00	
4	0.12	0.52	13.19	1.14	0.87	1.91	4.81	1.05	0.48	0.32	0.00	0.00	
5	0.12	0.52	16.26	1.40	0.78	1.40	3.51	0.96	0.44	0.32	0.00	0.00	
6	0.24	0.70	9.36	1.40	0.78	1.31	4.36	0.87	0.44	0.32	0.00	0.00	
7	0.28	0.40	5.72	0.87	0.70	1.40	8.81	0.96	0.44	0.32	0.00	0.00	
8	0.16	0.44	4.36	0.61	0.78	1.22	5.49	0.87	0.44	0.32	0.00	0.00	
9	0.12	0.36	3.18	0.61	0.87	1.05	4.19	0.78	0.40	0.32	0.00	0.00	
10	0.11	0.32	2.67	0.61	0.78	4.81	6.39	0.78	0.40	0.28	0.00	0.00	
11	0.11	0.28	2.42	0.96	0.78	13.87	3.85	0.78	0.40	0.28	0.00	0.00	
12	0.10	0.24	2.03	2.16	0.78	17.00	3.68	0.70	0.40	0.24	0.00	0.00	
13	0.08	0.20	1.78	3.01	0.78	13.53	5.26	0.70	0.40	0.28	0.00	0.00	
14	0.08	2.16	1.53	1.91	0.87	8.26	8.54	0.61	0.40	0.32	0.00	0.00	
15	0.08	3.35	1.40	1.53	0.87	5.72	5.26	0.61	0.40	0.36	0.00	0.00	
16	0.07	2.42	1.31	1.91	0.87	4.19	9.36	0.61	0.40	0.28	0.00	0.00	
17	0.07	5.72	1.31	1.91	1.91	3.35	11.26	0.61	0.40	0.24	0.00	0.00	
18	0.08	2.54	1.31	1.91	1.53	2.67	10.31	0.61	0.36	0.24	0.00	0.00	
19	0.32	1.91	1.14	1.40	1.22	2.54	7.17	0.52	0.40	0.24	0.00	0.00	
20	0.12	1.40	1.05	1.31	1.22	3.18	5.49	0.52	0.40	0.24	0.00	0.00	
21	0.10	1.22	1.14	1.65	1.14	2.54	4.36	0.52	0.40	0.24	0.00	0.00	
22	0.08	1.05	1.05	1.40	1.05	4.36	3.68	0.48	0.36	0.28	0.00	0.00	
23	0.08	0.96	0.96	1.40	0.96	9.36	3.18	0.52	0.40	0.32	0.00	0.00	
24	0.08	0.96	0.96	1.40	0.78	11.57	2.67	0.52	0.36	0.36	0.00	0.00	
25	0.08	2.16	0.87	1.22	0.61	10.62	2.42	0.52	0.36	0.28	0.00	0.00	
26	0.08	2.42	0.78	1.31	0.61	6.89	2.16	0.48	0.36	0.28	0.00	0.00	
27	0.08	1.22	0.87	1.22	5.94	8.54	1.91	0.48	0.32	0.24	0.00	0.00	
28	0.10	3.35	0.96	1.14	4.19	5.72	1.65	0.48	0.32	0.24	0.00	0.00	
29	0.40	1.78	1.31	1.14	2.03	4.36	1.53	0.48	0.32	0.24	0.00	0.00	
30	0.70	2.84	1.14	1.05	1.78	3.51	1.40	0.48	0.32	0.20		0.00	
31		5.04		1.05	1.40		1.31		0.32	0.20		0.00	
Total	4.60	47.82	94.32	41.15	39.93	161.87	144.05	21.08	12.28	8.76	0.00	0.00	575.86 CMSDAY
Mean	0.15	1.54	3.14	1.33	1.29	5.40	4.65	0.70	0.				

WATER YEAR : 2011**PASAK RIVER BASIN****Pasak River at Mueang , Phetchabun (S.4B)**

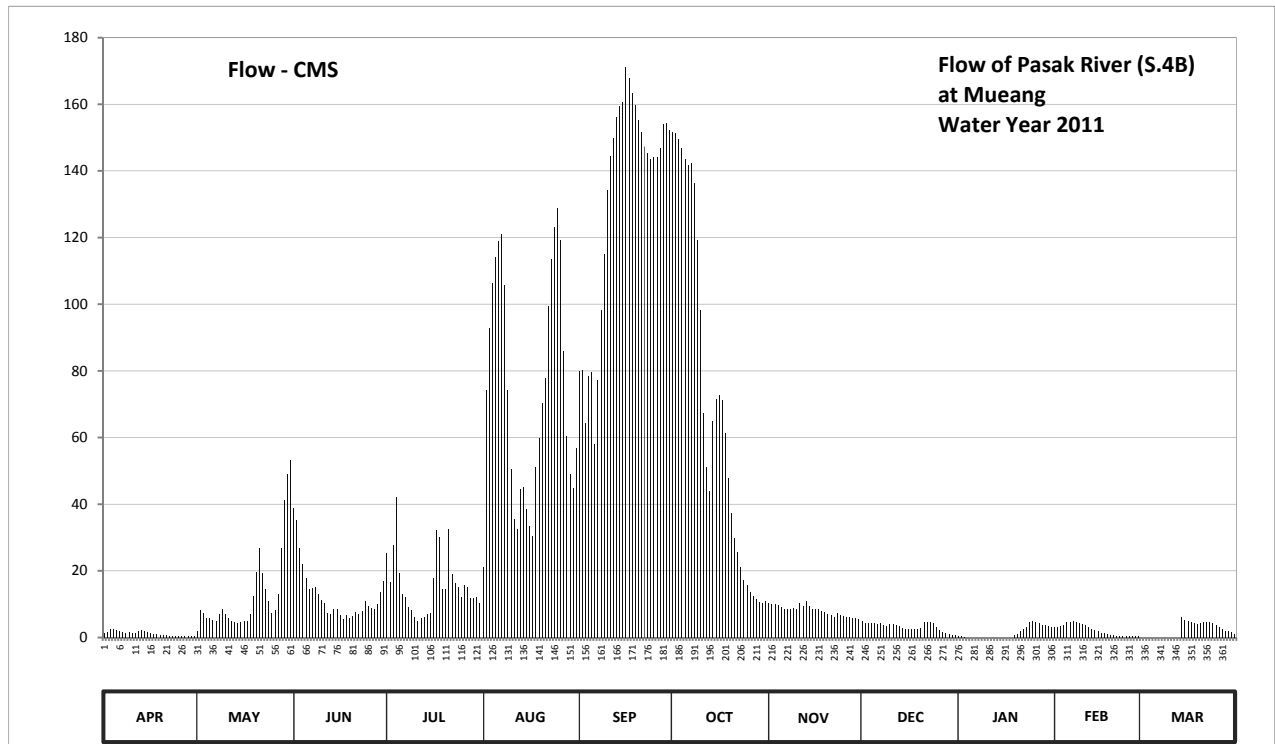
Lat 16 - 25 - 16 N Long 101 - 10 - 08 E

Location : on left bank about 300 meters downstream, Phatthana Phak Nua 2 bridge.

	Ban	Nai Mueang	Amphoe	Mueang	Changwat	Phetchabun
Drainage Area	3,459	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+106.500	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank in front of town - hall Changwat Phetchabun.				Elevation	+116.106 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +115.460 m.(MSL.), records are channel flow only.					
General Description	Records good. Flow effected by the local weir about 400 meters downstream from the gage site. Stage-discharge relation defined by 24 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.66	109.78	112.56	111.92	111.68	113.97	115.75	110.89	110.24	109.50	109.98	109.24	
2	109.75	110.66	112.40	111.40	113.80	113.98	115.74	110.86	110.14	109.47	109.99	109.27	
3	109.92	110.55	111.99	112.03	114.34	113.47	115.70	110.85	110.12	109.43	110.01	109.30	
4	109.89	110.34	111.73	112.68	114.68	113.93	115.64	110.84	110.12	109.40	110.07	109.28	
5	109.85	110.33	111.48	111.58	114.88	113.96	115.57	110.77	110.15	109.40	110.16	109.29	
6	109.79	110.28	111.27	111.15	114.99	113.26	115.53	110.71	110.10	109.38	110.19	109.29	
7	109.73	110.25	111.29	111.06	115.04	113.89	115.54	110.70	110.13	109.38	110.22	109.28	
8	109.71	110.52	111.30	110.75	114.67	114.48	115.40	110.69	110.05	109.36	110.20	109.27	
9	109.73	110.68	111.15	110.66	113.80	114.90	115.00	110.74	110.03	109.35	110.15	109.27	
10	109.70	110.50	110.97	110.36	113.01	115.35	114.48	110.72	110.10	109.34	110.10	109.28	
11	109.71	110.32	110.88	110.25	112.41	115.59	113.57	110.89	110.10	109.30	110.04	109.29	
12	109.78	110.23	110.54	110.32	112.28	115.71	113.03	110.80	110.06	109.25	109.98	109.32	
13	109.82	110.17	110.51	110.38	112.78	115.85	112.76	110.93	110.01	109.26	109.89	109.39	
14	109.77	110.15	110.70	110.48	112.80	115.92	113.49	110.80	109.95	109.26	109.84	110.38	
15	109.72	110.18	110.71	110.56	112.54	115.95	113.71	110.71	109.93	109.26	109.76	110.26	
16	109.68	110.23	110.47	111.48	112.32	116.18	113.75	110.70	109.90	109.26	109.69	110.23	
17	109.63	110.24	110.29	112.26	112.18	116.11	113.70	110.69	109.90	109.26	109.64	110.17	
18	109.59	110.50	110.47	112.15	113.03	116.01	113.37	110.60	109.89	109.26	109.59	110.14	
19	109.57	111.10	110.34	111.26	113.32	115.93	112.91	110.59	109.89	109.55	109.55	110.11	
20	109.55	111.60	110.42	111.28	113.67	115.83	112.49	110.51	109.95	109.61	109.52	110.13	
21	109.52	112.00	110.59	112.27	113.91	115.75	112.14	110.45	110.18	109.78	109.50	110.16	
22	109.50	111.57	110.49	111.56	114.51	115.65	111.93	110.41	110.19	109.92	109.50	110.16	
23	109.49	111.25	110.61	111.39	114.86	115.61	111.68	110.53	110.20	109.99	109.50	110.16	
24	109.49	110.94	110.93	111.30	115.09	115.57	111.45	110.44	110.15	110.20	109.50	110.13	
25	109.48	110.56	110.80	111.08	115.23	115.58	111.34	110.42	109.97	110.25	109.50	110.05	
26	109.48	110.65	110.74	111.35	115.00	115.58	111.19	110.40	109.86	110.20	109.50	109.99	
27	109.47	111.15	110.72	111.31	114.14	115.64	111.09	110.37	109.75	110.13	109.49	109.90	
28	109.48	112.00	110.85	111.04	113.34	115.80	111.00	110.33	109.70	110.08	109.49	109.80	
29	109.50	112.65	111.20	111.03	112.95	115.81	110.90	110.33	109.60	110.06	109.49	109.79	
30	109.50	112.95	111.44	111.05	112.79	115.76	110.88	110.31	109.55	110.03		109.72	
31		113.10		110.88	113.22		110.93		109.54	109.98		109.60	
Mean	109.65	110.88	110.99	111.23	113.65	115.23	113.28	110.63	109.98	109.61	109.79	109.73	
Max	109.92	113.10	112.56	112.68	115.23	116.18	115.75	110.93	110.24	110.25	110.22	110.38	116.18
Min	109.47	109.78	110.29	110.25	111.68	113.26	110.88	110.31	109.54	109.25	109.49	109.24	109.24
Annual Max Momentary Gage Height	116.19	m. (MSL.) ,				at 12.00 Hours , on Sep 16 , 2011							
Zero Gage at Bottom Elevation	106.50	m. (MSL.) ,				River Bed	109.35	m. (MSL)					
Left Bank Elevation	116.69	m. (MSL.) ,											
Right Bank Elevation	115.45	m. (MSL.) ,				Drainage Area	3459	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.30	1.90	39.00	25.40	21.10	79.90	151.80	10.40	5.00	0.50	3.10	0.00	
2	1.70	8.20	35.20	16.50	74.30	80.30	151.30	10.10	4.30	0.30	3.20	0.00	
3	2.60	7.40	26.80	27.60	92.90	64.30	149.50	10.00	4.20	0.10	3.30	0.00	
4	2.40	5.80	22.00	42.00	106.20	78.50	146.80	9.90	4.20	0.00	3.80	0.00	
5	2.20	5.70	17.70	19.40	114.20	79.60	143.60	9.20	4.40	0.00	4.50	0.00	
6	1.90	5.30	14.60	13.10	118.80	58.10	141.80	8.60	4.00	0.00	4.70	0.00	
7	1.70	5.10	14.90	12.10	120.90	77.20	142.30	8.50	4.20	0.00	4.90	0.00	
8	1.50	7.10	15.00	9.00	105.80	98.20	136.30	8.40	3.60	0.00	4.70	0.00	
9	1.70	8.40	13.10	8.20	74.30	115.00	119.20	8.90	3.50	0.00	4.40	0.00	
10	1.50	7.00	11.20	6.00	50.60	134.10	98.20	8.70	4.00	0.00	4.00	0.00	
11	1.50	5.70	10.30	5.10	35.50	144.50	67.30	10.40	4.00	0.00	3.60	0.00	
12	1.90	5.00	7.30	5.70	32.60	149.90	51.10	9.50	3.70	0.00	3.10	0.00	
13	2.10	4.50	7.10	6.10	44.50	156.20	44.00	10.80	3.30	0.00	2.40	0.00	
14	1.80	4.40	8.50	6.90	45.00	159.40	64.90	9.50	2.90	0.00	2.20	6.10	
15	1.60	4.60	8.60	7.40	38.50	160.70	71.50	8.60	2.70	0.00	1.80	5.20	
16	1.40	5.00	6.80	17.70	33.40	171.30	72.70	8.50	2.50	0.00	1.50	5.00	
17	1.10	5.00	5.40	32.20	30.60	168.00	71.20	8.40	2.50	0.00	1.20	4.50	
18	0.90	7.00	6.80	30.00	51.10	163.50	61.40	7.80	2.40	0.00	0.90	4.30	
19	0.80	12.50	5.80	14.50	59.80	159.90	47.80	7.70	2.40	0.80	0.80	4.10	
20	0.80	19.70	6.40	14.70	70.30	155.40	37.30	7.10	2.90	1.00	0.60	4.20	
21	0.60	27.00	7.70	32.40	77.90	151.80	29.80	6.60	4.60	1.90	0.50	4.50	
22	0.50	19.20	6.90	19.00	99.40	147.30	25.60	6.30	4.70	2.60	0.50	4.50	
23	0.40	14.40	7.80	16.30	113.40	145.50	21.10	7.20	4.70	3.20	0.50	4.50	
24	0.40	10.90	10.80	15.00	123.10	143.60	17.20	6.60	4.40	4.70	0.50	4.20	
25	0.40	7.40	9.50	12.30	129.00	144.10	15.60	6.40	3.00	5.10	0.50	3.60	
26	0.40	8.10	8.90	15.70	119.20	144.10	13.60	6.30	2.30	4.70	0.50	3.20	
27	0.30	13.10	8.70	15.10	85.90	146.80	12.40	6.00	1.70	4.20	0.40	2.50	
28	0.40	27.00	10.00	11.90	60.40	154.00	11.50	5.70	1.50	3.90	0.40	2.00	
29	0.50	41.30	13.70	11.80	48.90	154.40	10.50	5.70	1.00	3.70	0.40	1.90	
30	0.50	48.90	17.10	12.00	44.70	152.20	10.30	5.60	0.80	3.50		1.60	
31		53.20		10.30	56.90		10.80		0.70	3.10		1.00	
Total	36.80	405.80	383.60	491.40									

WATER YEAR : 2011

PASAK RIVER BASIN

Pasak River at Panchamathirat Uthit Hospital , Phra Nakhon Si Ayutthaya (S.5)

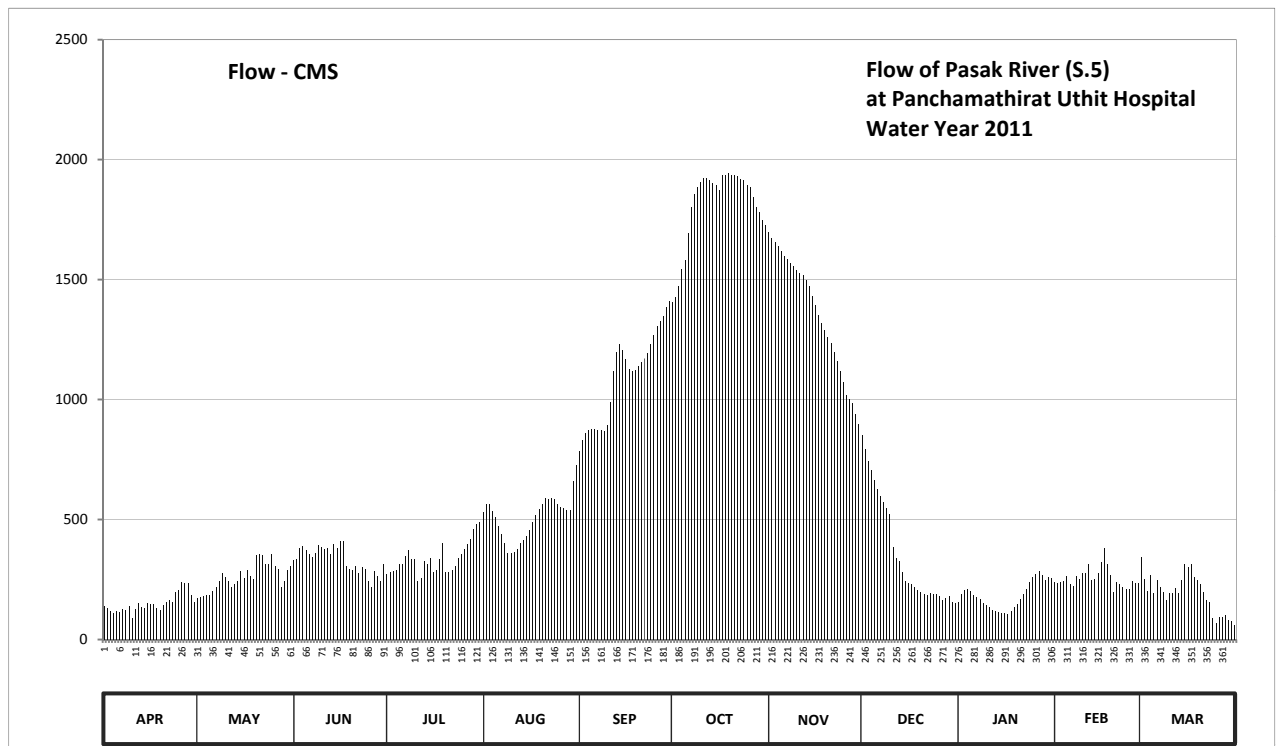
Lat 14 - 21 - 32 N Long 100 - 35 - 02 E

Location : on right bank at the bridge.

	Ban	Panchamathirat	Amphoe	Phra Nakhon Si Ayutthaya	Changwat	Phra Nakhon Si Ayutthaya
Drainage Area	15,830	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.			Elevation	+7.220 m. (MSL.)	
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +5.620 m.(MSL.), records are channal flow only.					
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.68	0.90	1.76	1.46	2.56	3.39	4.91	5.47	3.59	0.80	1.28	1.82	
2	0.62	0.92	1.78	1.50	2.69	3.53	4.95	5.42	3.41	1.00	1.26	1.36	
3	0.52	0.94	1.98	1.54	2.69	3.61	5.04	5.39	3.27	1.10	1.28	1.08	
4	0.46	0.96	2.02	1.56	2.58	3.64	5.18	5.36	3.14	1.12	1.32	1.44	
5	0.52	0.98	1.94	1.68	2.49	3.66	5.25	5.32	3.01	1.08	1.42	1.02	
6	0.48	1.08	1.88	1.68	2.35	3.66	5.46	5.28	2.89	0.97	1.24	1.34	
7	0.58	1.16	1.82	1.84	2.23	3.64	5.66	5.26	2.79	0.92	1.20	1.18	
8	0.56	1.32	1.90	1.94	2.08	3.64	5.75	5.23	2.72	0.86	1.42	1.04	
9	0.68	1.48	2.04	1.78	1.89	3.63	5.80	5.20	2.62	0.75	1.36	0.84	
10	0.28	1.40	2.00	1.78	1.90	3.71	5.84	5.17	2.54	0.70	1.48	1.02	
11	0.58	1.32	1.96	1.30	1.91	3.97	5.87	5.15	2.00	0.64	1.48	1.02	
12	0.74	1.18	1.98	1.39	1.96	4.30	5.87	5.13	1.80	0.54	1.68	1.14	
13	0.64	1.24	1.88	1.75	2.07	4.48	5.85	5.09	1.75	0.51	1.34	1.02	
14	0.60	1.32	2.06	1.68	2.13	4.55	5.83	5.04	1.50	0.48	1.36	1.34	
15	0.74	1.54	1.98	1.80	2.19	4.50	5.82	4.96	1.31	0.45	1.48	1.68	
16	0.72	1.38	2.10	1.52	2.29	4.41	5.78	4.89	1.25	0.44	1.72	1.62	
17	0.72	1.56	2.10	1.56	2.42	4.32	5.89	4.81	1.23	0.42	1.98	1.68	
18	0.60	1.42	1.64	1.78	2.52	4.30	5.89	4.74	1.18	0.52	1.68	1.40	
19	0.55	1.36	1.58	2.08	2.61	4.31	5.90	4.68	1.10	0.64	1.44	1.34	
20	0.70	1.86	1.56	1.50	2.69	4.35	5.89	4.62	1.04	0.72	1.04	1.24	
21	0.80	1.88	1.64	1.51	2.77	4.39	5.89	4.56	0.99	0.88	1.28	1.04	
22	0.84	1.86	1.48	1.56	2.76	4.42	5.88	4.48	0.96	1.00	1.24	0.84	
23	0.78	1.68	1.62	1.65	2.77	4.47	5.86	4.40	1.01	1.12	1.18	0.78	
24	1.04	1.68	1.58	1.80	2.75	4.55	5.85	4.30	0.99	1.28	1.12	0.28	
25	1.10	1.88	1.30	1.87	2.69	4.63	5.82	4.18	0.99	1.40	1.12	0.08	
26	1.28	1.64	1.18	1.96	2.64	4.71	5.80	4.05	0.95	1.46	1.32	0.32	
27	1.25	1.58	1.54	2.06	2.63	4.76	5.73	4.00	0.84	1.54	1.26	0.32	
28	1.26	1.16	1.42	2.14	2.59	4.80	5.66	3.96	0.90	1.44	1.27	0.38	
29	0.98	1.32	1.32	2.30	2.59	4.87	5.62	3.84	0.95	1.33	1.28	0.20	
30	0.80	1.56	1.68	2.38	3.00	4.92	5.56	3.72	0.80	1.41		0.18	
31		1.64		2.41	3.21		5.52		0.75	1.37		0.02	
Mean	0.74	1.39	1.76	1.77	2.47	4.20	5.67	4.79	1.75	0.93	1.36	0.97	
Max	1.28	1.88	2.10	2.41	3.21	4.92	5.90	5.47	3.59	1.54	1.98	1.82	5.90
Min	0.28	0.90	1.18	1.30	1.89	3.39	4.91	3.72	0.75	0.42	1.04	0.02	0.02
Annual Max Momentary Gage Height	5.91		m. (MSL.) , at 15.00 Hours , on Oct 17 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) , River Bed -8.93 m. (MSL)										
Left Bank Elevation	5.61		m. (MSL.) ,										
Right Bank Elevation	7.22		m. (MSL.) , Drainage Area 15830 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	141.20	174.00	330.60	271.40	529.80	784.70	1404.10	1698.50	852.60	158.00	238.40	343.60		
2	132.80	177.20	334.80	279.00	566.20	832.20	1424.50	1671.00	791.40	190.00	234.80	252.80		
3	119.60	180.40	380.40	286.60	566.20	859.50	1470.80	1654.70	745.10	207.00	238.40	203.60		
4	111.80	183.60	389.80	290.40	535.40	870.00	1543.60	1638.80	703.40	210.40	245.60	267.60		
5	119.60	186.80	371.20	314.00	510.20	877.00	1580.50	1617.60	663.10	203.60	263.80	193.40		
6	114.40	203.60	357.40	314.00	472.00	877.00	1693.00	1596.40	626.00	185.20	231.20	249.20		
7	127.40	217.20	343.60	348.20	440.80	870.00	1804.20	1585.80	596.00	177.20	224.00	220.60		
8	124.80	245.60	362.00	371.20	404.20	870.00	1855.50	1569.90	575.00	167.60	263.80	196.80		
9	141.20	275.20	394.60	334.80	359.70	866.50	1884.00	1554.00	546.60	151.00	252.80	164.40		
10	89.60	260.00	385.00	334.80	362.00	894.50	1907.20	1538.40	524.20	144.00	275.20	193.40		
11	127.40	245.60	375.80	242.00	364.30	988.90	1924.60	1528.00	385.00	135.60	275.20	193.40		
12	149.60	220.60	380.40	258.20	375.80	1120.00	1924.60	1517.60	339.00	122.20	314.00	213.80		
13	135.60	231.20	357.40	328.50	401.80	1198.00	1913.00	1496.80	328.50	118.30	249.20	193.40		
14	130.00	245.60	399.40	314.00	416.20	1229.50	1901.40	1470.80	279.00	114.40	252.80	249.20		
15	149.60	286.60	380.40	339.00	430.60	1207.00	1895.60	1429.60	243.80	110.50	275.20	314.00		
16	146.80	256.40	409.00	282.80	456.40	1166.50	1872.60	1393.90	233.00	109.20	322.20	302.00		
17	146.80	290.40	409.00	290.40	490.60	1128.40	1936.20	1353.10	229.40	106.60	380.40	314.00		
18	130.00	263.80	306.00	334.80	518.60	1120.00	1936.20	1319.20	220.60	119.60	314.00	260.00		
19	123.50	252.80	294.20	404.20	543.80	1124.20	1942.00	1290.40	207.00	135.60	267.60	249.20		
20	144.00	352.80	290.40	279.00	566.20	1141.00	1936.20	1261.60	196.80	146.80	196.80	231.20		
21	158.00	357.40	306.00	280.90	590.00	1157.80	1936.20	1234.00	188.40	170.80	238.40	196.80		
22	164.40	352.80	275.20	290.40	587.00	1171.00	1930.40	1198.00	183.60	190.00	231.20	164.40		
23	155.20	314.00	302.00	308.00	590.00	1193.50	1918.80	1162.00	191.70	210.40	220.60	155.20		
24	196.80	314.00	294.20	339.00	584.00	1229.50	1913.00	1120.00	188.40	238.40	210.40	89.60		
25	207.00	357.40	242.00	355.10	566.20	1266.40	1895.60	1070.20	188.40	260.00	210.40	68.00		
26	238.40	306.00	220.60	375.80	552.20	1304.80	1884.00	1019.50	182.00	271.40	245.60	94.40		
27	233.00	294.20	286.60	399.40	549.40	1328.80	1844.10	1000.00	164.40	286.60	234.80	94.40		
28	234.80	217.20	263.80	418.60	538.20	1348.00	1804.20	985.20	174.00	267.60	236.60	101.60		
29	186.80	245.60	245.60	459.00	538.20	1383.70	1781.40	940.80	182.00	247.40	238.40	80.00		
30	158.00	290.40	314.00	479.80	660.00	1409.20	1748.00	898.00	158.00	261.90		78.00		
31		306.00		487.80	725.30		1726.00		151.00	254.60		62.00		
Total	4538.10	8104.40	10001.40	10411.10	15791.30	32817.60	56131.50	40813.80	11237.40	5671.90	7381.80	5990.00	208890.30	CMSDAY
Mean	151.30	261.40	333.40	335.80	509.40	1093.90	1810.70	1360.50	362.50	183.00	254.50	193.20	570.70	CMS
Max	238.40	357.40	409.00	487.80	725.30	1409.20	1942.00	1698.50	852.60	286.60	380.40	343.60	1942.00	CMS
Min	89.60	174.00	220.60	242.00	359.70	784.70	1404.10	898.00	151.00	106.60	196.80	62.00	62.00	CMS
Runoff	392.09	700.22	864.12	899.52	1364.37	2835.44	4849.76	3526.31	970.91	490.05	637.79	517.54	18048.12	MCM
Momentary Peak	1947.80 CMS. at 5.91 m. (MSL.) at 15.00 Hours , on Oct 17, 2011													
Runoff Yield	36.05	Liters/Second/Square KM.				Momentary Peak Yield		123.042	Liters/Second/Square KM.					

WATER YEAR : 2011**PASAK RIVER BASIN****Lam Muak Lek at Ban Tharahad , Saraburi (S.7A)**

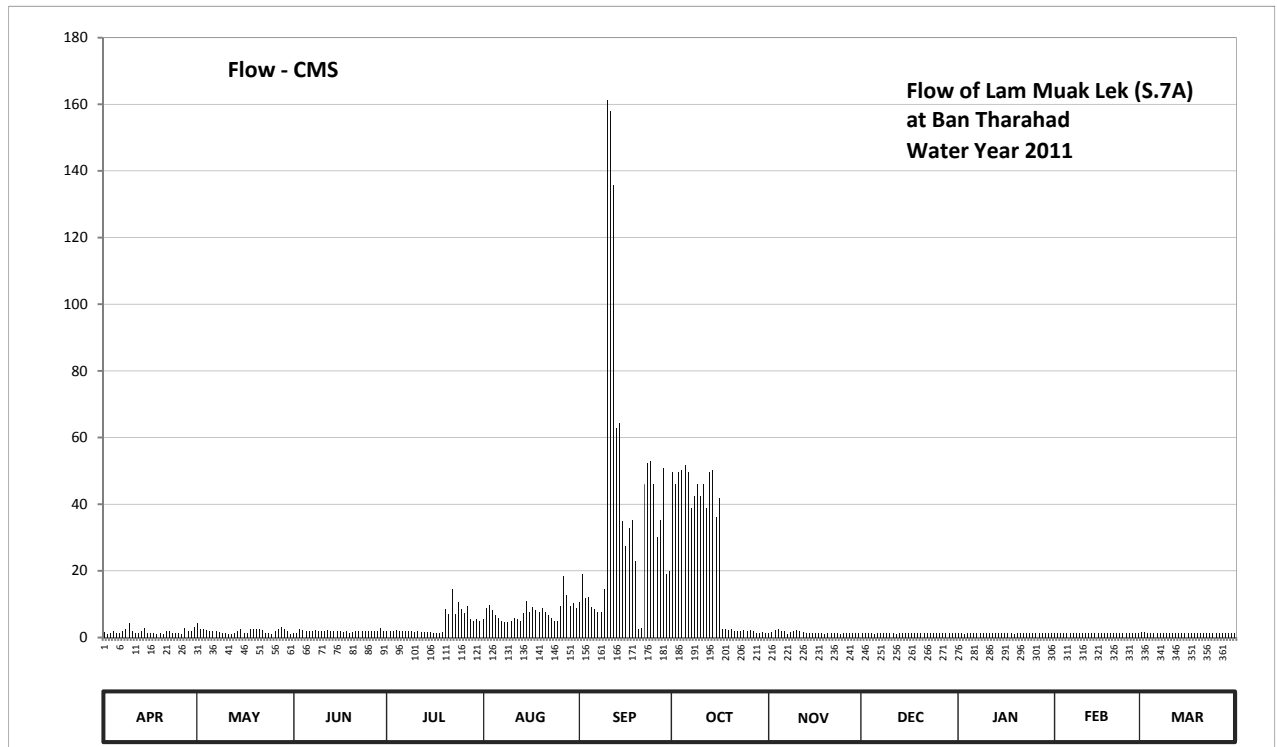
Lat 14 - 47 - 17 N Long 101 - 07 - 18 E

Location : on right bank at Ban Tharahad.

	Ban	Tharahad	Amphoe	Wang Muang	Changwat	Saraburi
Drainage Area	580	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the bridge.				Elevation	+52.984 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 37 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.13	42.24	42.11	42.15	42.28	42.43	43.15	42.12	42.12	42.11	42.12	42.13	
2	42.10	42.18	42.11	42.15	42.38	42.63	43.10	42.13	42.12	42.11	42.12	42.13	
3	42.11	42.17	42.17	42.15	42.41	42.46	43.15	42.16	42.11	42.10	42.12	42.12	
4	42.15	42.16	42.16	42.16	42.36	42.47	43.16	42.17	42.11	42.12	42.11	42.11	
5	42.11	42.15	42.15	42.15	42.32	42.39	43.18	42.15	42.10	42.12	42.12	42.12	
6	42.11	42.15	42.15	42.15	42.29	42.37	43.15	42.14	42.11	42.11	42.12	42.12	
7	42.15	42.14	42.15	42.14	42.27	42.35	43.00	42.10	42.12	42.12	42.12	42.11	
8	42.18	42.13	42.16	42.15	42.25	42.35	43.05	42.13	42.11	42.12	42.12	42.11	
9	42.24	42.12	42.15	42.14	42.25	42.53	43.10	42.14	42.11	42.11	42.12	42.11	
10	42.14	42.11	42.14	42.13	42.26	44.39	43.05	42.16	42.12	42.12	42.12	42.11	
11	42.12	42.10	42.15	42.14	42.29	44.36	43.10	42.14	42.11	42.12	42.11	42.11	
12	42.11	42.10	42.16	42.13	42.28	44.15	43.00	42.13	42.10	42.11	42.11	42.12	
13	42.15	42.11	42.14	42.13	42.26	43.33	43.15	42.12	42.11	42.11	42.12	42.11	
14	42.19	42.14	42.15	42.13	42.34	43.35	43.16	42.12	42.12	42.12	42.12	42.12	
15	42.11	42.17	42.14	42.13	42.44	42.93	42.95	42.12	42.11	42.11	42.12	42.12	
16	42.11	42.11	42.14	42.12	42.35	42.80	43.04	42.11	42.11	42.12	42.12	42.12	
17	42.11	42.11	42.13	42.11	42.39	42.90	42.18	42.11	42.11	42.12	42.12	42.12	
18	42.09	42.18	42.14	42.11	42.36	42.94	42.18	42.11	42.11	42.11	42.12	42.11	
19	42.11	42.18	42.12	42.13	42.35	42.72	42.16	42.10	42.12	42.10	42.11	42.11	
20	42.10	42.18	42.13	42.37	42.38	42.17	42.18	42.11	42.12	42.11	42.11	42.11	
21	42.14	42.18	42.14	42.33	42.35	42.19	42.15	42.12	42.11	42.11	42.11	42.12	
22	42.15	42.16	42.15	42.53	42.32	43.10	42.14	42.12	42.12	42.12	42.11	42.12	
23	42.12	42.11	42.15	42.33	42.29	43.19	42.14	42.11	42.12	42.12	42.12	42.12	
24	42.11	42.11	42.15	42.43	42.27	43.20	42.16	42.10	42.11	42.12	42.12	42.12	
25	42.11	42.10	42.15	42.37	42.26	43.10	42.14	42.11	42.11	42.11	42.12	42.11	
26	42.10	42.14	42.15	42.34	42.40	42.85	42.16	42.12	42.12	42.11	42.11	42.12	
27	42.19	42.18	42.15	42.40	42.62	42.94	42.15	42.11	42.12	42.12	42.12	42.12	
28	42.14	42.20	42.15	42.28	42.48	43.17	42.12	42.11	42.11	42.12	42.12	42.12	
29	42.15	42.17	42.19	42.26	42.40	42.63	42.12	42.11	42.12	42.11	42.12	42.12	
30	42.20	42.15	42.15	42.28	42.42	42.65	42.13	42.11	42.12	42.12		42.11	
31		42.10		42.26	42.38		42.11		42.11	42.11		42.11	
Mean	42.13	42.15	42.15	42.22	42.35	42.90	42.64	42.12	42.11	42.11	42.12	42.12	
Max	42.24	42.24	42.19	42.53	42.62	44.39	43.18	42.17	42.12	42.12	42.12	42.13	44.39
Min	42.09	42.10	42.11	42.11	42.25	42.17	42.11	42.10	42.10	42.10	42.11	42.11	42.09
Annual Max Momentary Gage Height	45.32		m. (MSL.) ,			at 21.00 Hours , on Sep 10 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	41.41	m. (MSL)					
Left Bank Elevation		52.79		m. (MSL.) ,									
Right Bank Elevation		52.94		m. (MSL.) ,		Drainage Area	580	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.60	4.20	1.20	2.00	5.40	10.70	49.50	1.40	1.40	1.20	1.40	1.60	
2	1.00	2.60	1.20	2.00	8.80	18.90	46.00	1.60	1.40	1.20	1.40	1.60	
3	1.20	2.40	2.40	2.00	9.90	11.90	49.50	2.20	1.20	1.00	1.40	1.40	
4	2.00	2.20	2.20	2.20	8.10	12.30	50.20	2.40	1.20	1.40	1.20	1.20	
5	1.20	2.00	2.00	2.00	6.70	9.10	51.60	2.00	1.00	1.40	1.40	1.40	
6	1.20	2.00	2.00	2.00	5.70	8.40	49.50	1.80	1.20	1.20	1.40	1.40	
7	2.00	1.80	2.00	1.80	5.10	7.70	39.00	1.00	1.40	1.40	1.40	1.20	
8	2.60	1.60	2.20	2.00	4.50	7.70	42.50	1.60	1.20	1.40	1.40	1.20	
9	4.20	1.40	2.00	1.80	4.50	14.70	46.00	1.80	1.20	1.20	1.40	1.20	
10	1.80	1.20	1.80	1.60	4.80	161.40	42.50	2.20	1.40	1.40	1.40	1.20	
11	1.40	1.00	2.00	1.80	5.70	158.10	46.00	1.80	1.20	1.40	1.20	1.20	
12	1.20	1.00	2.20	1.60	5.40	135.80	39.00	1.60	1.00	1.20	1.20	1.40	
13	2.00	1.20	1.80	1.60	4.80	62.80	49.50	1.40	1.20	1.20	1.40	1.20	
14	2.80	1.80	2.00	1.60	7.40	64.20	50.20	1.40	1.40	1.40	1.40	1.40	
15	1.20	2.40	1.80	1.60	11.10	34.80	36.00	1.40	1.20	1.20	1.40	1.40	
16	1.20	1.20	1.80	1.40	7.70	27.50	41.80	1.20	1.20	1.40	1.40	1.40	
17	1.20	1.20	1.60	1.20	9.10	33.00	2.60	1.20	1.20	1.40	1.40	1.40	
18	0.90	2.60	1.80	1.20	8.10	35.40	2.60	1.20	1.20	1.20	1.40	1.20	
19	1.20	2.60	1.40	1.60	7.70	23.10	2.20	1.00	1.40	1.00	1.20	1.20	
20	1.00	2.60	1.60	8.40	8.80	2.40	2.60	1.20	1.40	1.20	1.20	1.20	
21	1.80	2.60	1.80	7.10	7.70	2.80	2.00	1.40	1.20	1.20	1.20	1.40	
22	2.00	2.20	2.00	14.70	6.70	46.00	1.80	1.40	1.40	1.40	1.20	1.40	
23	1.40	1.20	2.00	7.10	5.70	52.30	1.80	1.20	1.40	1.40	1.40	1.40	
24	1.20	1.20	2.00	10.70	5.10	53.00	2.20	1.00	1.20	1.40	1.40	1.40	
25	1.20	1.00	2.00	8.40	4.80	46.00	1.80	1.20	1.20	1.20	1.40	1.20	
26	1.00	1.80	2.00	7.40	9.50	30.20	2.20	1.40	1.40	1.20	1.20	1.40	
27	2.80	2.60	2.00	9.50	18.40	35.40	2.00	1.20	1.40	1.40	1.40	1.40	
28	1.80	3.00	2.00	5.40	12.70	50.90	1.40	1.20	1.20	1.40	1.40	1.40	
29	2.00	2.40	2.80	4.80	9.50	18.90	1.40	1.20	1.40	1.20	1.40	1.40	
30	3.00	2.00	2.00	5.40	10.30	19.80	1.60	1.20	1.40	1.40		1.20	
31		1.00		4.80	8.80		1.20		1.20	1.20		1.20	
Total	51.10	60.00	57.60	126.70	238.50	1195.20	758.20	43.80	39.40	39.80	39.00	41.20	2690.50
Mean	1.70	1.90	1.90	4									

WATER YEAR : 2011

PASAK RIVER BASIN

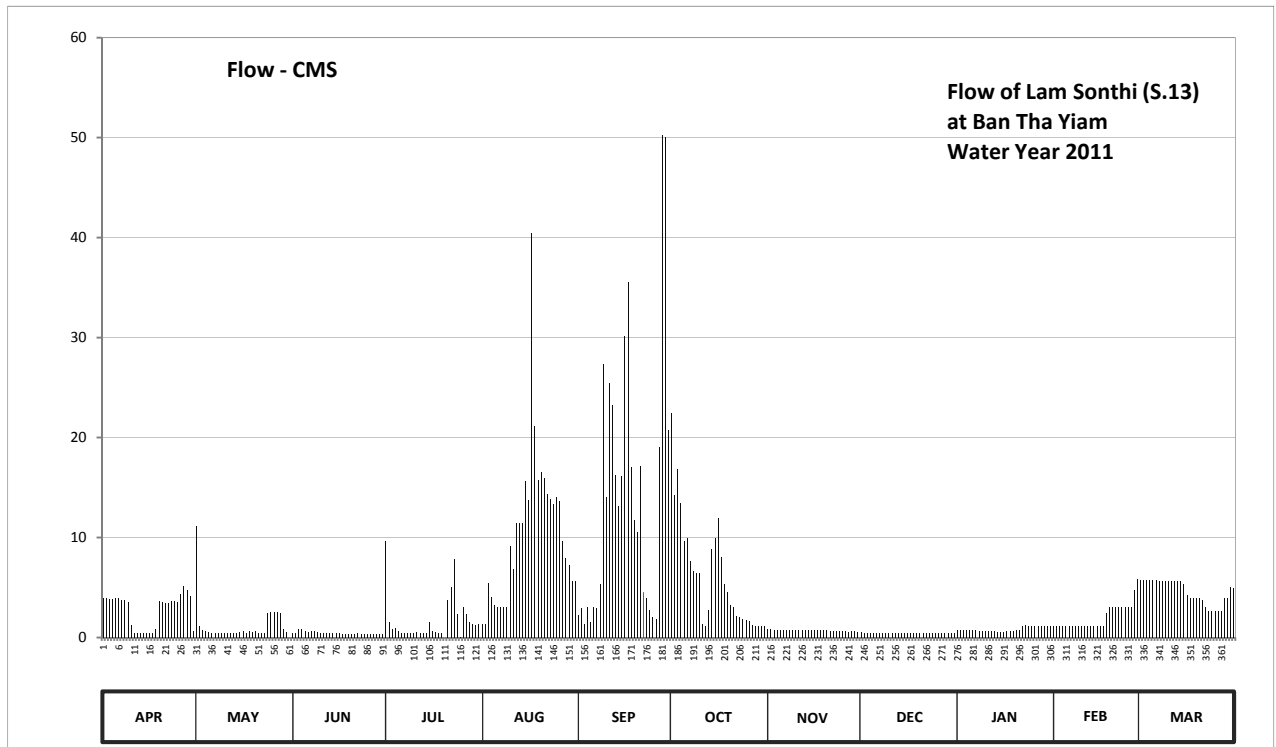
Lam Sonthi at Ban Tha Yiam , Lop Buri (S.13)

Lat 15 - 20 - 23 N Long 101 - 22 - 30 E

Location : on left bank near Wat Tha Yiam.

	Ban	Tha Yiam	Amphoe	Lam Sonthi	Changwat	Lop Buri
Drainage Area	357	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	About 15 meters from the top staff gage.				Elevation	+89.650 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1978 to date					
Rating Operation						
Period of Rating	1978 to date					
Rated by Flot	-					
Rated by Current Meter	1978 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by the local weir about 200 meters downstream from the gage site.					
	Stage-discharge relation defined by 33 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.90	11.13	0.46	9.69	1.38	2.20	22.44	0.82	0.52	0.74	1.18	5.76		
2	3.90	1.14	0.46	1.55	1.38	2.95	14.28	0.82	0.49	0.74	1.18	5.76		
3	3.84	0.78	0.82	0.86	5.46	1.38	16.80	0.78	0.49	0.78	1.18	5.76		
4	3.84	0.64	0.82	0.98	4.02	3.00	13.47	0.78	0.49	0.78	1.18	5.76		
5	3.90	0.52	0.67	0.61	3.24	1.55	9.69	0.74	0.49	0.74	1.18	5.76		
6	3.90	0.46	0.55	0.49	3.06	3.06	9.96	0.74	0.46	0.74	1.18	5.76		
7	3.72	0.43	0.64	0.43	3.06	2.95	7.68	0.74	0.46	0.74	1.18	5.68		
8	3.72	0.43	0.61	0.43	3.06	5.32	6.64	0.74	0.46	0.64	1.18	5.68		
9	3.54	0.43	0.55	0.40	3.06	27.36	6.48	0.78	0.46	0.64	1.18	5.68		
10	1.30	0.43	0.46	0.43	9.12	14.01	6.48	0.78	0.46	0.61	1.18	5.68		
11	0.49	0.43	0.43	0.58	6.88	25.41	1.34	0.74	0.46	0.61	1.18	5.68		
12	0.46	0.43	0.43	0.46	11.49	23.21	1.14	0.74	0.46	0.61	1.18	5.68		
13	0.43	0.43	0.40	0.43	11.49	16.20	2.75	0.74	0.46	0.61	1.18	5.60		
14	0.43	0.40	0.40	0.43	11.49	13.11	8.88	0.70	0.43	0.58	1.14	5.60		
15	0.43	0.52	0.40	1.50	15.63	16.10	9.96	0.70	0.43	0.58	1.14	5.39		
16	0.43	0.64	0.40	0.61	13.74	30.12	11.94	0.70	0.43	0.58	1.14	4.27		
17	0.40	0.43	0.37	0.52	40.48	35.52	8.08	0.70	0.43	0.64	1.14	3.96		
18	0.86	0.67	0.37	0.46	21.12	17.00	5.32	0.70	0.43	0.67	2.40	3.96		
19	3.60	0.58	0.34	0.46	15.72	11.76	4.55	0.70	0.43	0.67	3.06	3.96		
20	3.54	0.67	0.34	0.00	16.50	10.59	3.24	0.70	0.43	0.74	3.06	3.96		
21	3.48	0.49	0.34	3.72	15.90	17.10	3.06	0.64	0.43	0.74	3.06	3.78		
22	3.48	0.46	0.43	5.04	14.37	4.55	2.15	0.61	0.43	1.14	3.06	3.00		
23	3.66	0.49	0.37	7.84	13.83	3.90	2.00	0.61	0.43	1.22	3.06	2.60		
24	3.60	2.50	0.37	2.35	13.38	2.75	1.80	0.61	0.43	1.18	3.06	2.60		
25	3.54	2.55	0.37	0.06	14.01	2.10	1.75	0.61	0.40	1.18	3.06	2.60		
26	4.34	2.55	0.34	3.06	13.65	1.80	1.65	0.61	0.40	1.18	3.06	2.60		
27	5.11	2.55	0.34	2.30	9.69	19.00	1.26	0.58	0.40	1.18	4.76	2.60		
28	4.76	2.50	0.34	1.55	7.92	50.23	1.14	0.61	0.40	1.18	5.84	3.96		
29	4.14	0.90	0.37	1.38	7.28	50.10	1.14	0.61	0.40	1.18	5.84	3.96		
30	0.61	0.58	0.34	1.30	5.68	20.70	1.14	0.58	0.40	1.18		5.04		
31		0.00		1.34	5.68		1.10		0.40	1.18		4.97		
Total	83.35	37.16	13.53	51.26	322.77	435.03	189.31	20.91	13.69	25.98	63.22	143.05	1399.26	CMSDAY
Mean	2.78	1.20	0.45	1.65	10.41	14.50	6.11	0.70	0.44	0.84	2.18	4.61	3.82	CMS
Max	5.11	11.13	0.82	9.69	40.48	50.23	22.44	0.82	0.52	1.22	5.84	5.76	50.23	CMS
Min	0.40	0.00	0.34	0.00	1.38	1.38	1.10	0.58	0.40	0.58	1.14	2.60	0.00	CMS
Runoff	7.20	3.21	1.17	4.43	27.89	37.59	16.36	1.81	1.18	2.25	5.46	12.36	120.90	MCM
Momentary Peak	57.14	CMS. at 87.01 m. (MSL.) at 18.00 Hours , on Sep 28 , 2011												
Runoff Yield	10.70	Liters/Second/Square KM.			Momentary Peak Yield			159.953	Liters/Second/Square KM.					

WATER YEAR : 2011**PASAK RIVER BASIN****Lam Sonthi at Ban Tha Ruak , Lop Buri (S.14)**

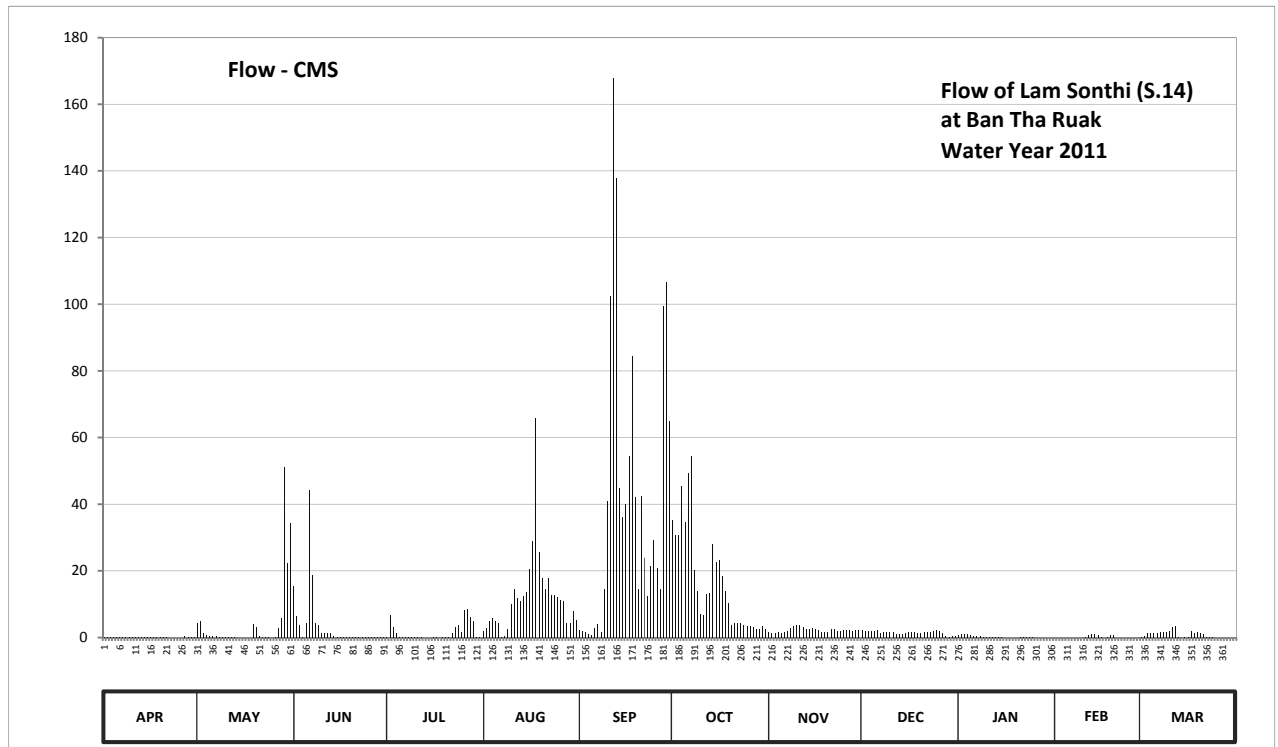
Lat 15 - 13 - 24 N Long 101 - 16 - 52 E

Location : on right bank at the bridge.

	Ban	Tha Ruak	Amphoe	Chai Badan	Changwat	Lop Buri
Drainage Area	1,263	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+63.824 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2005 to date					
Rating Operation						
Period of Rating	2005 to date					
Rated by Flot	-					
Rated by Current Meter	2005 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.08	55.28	56.78	54.08	54.65	54.70	58.03	54.62	54.71	54.39	53.97	54.10	
2	54.08	55.38	55.68	55.70	54.86	54.63	57.79	54.47	54.68	54.41	53.97	54.27	
3	54.08	54.55	55.08	54.98	55.42	54.59	57.79	54.50	54.67	54.41	53.97	54.49	
4	54.08	54.38	54.18	54.54	55.58	54.40	58.51	54.59	54.67	54.40	53.97	54.50	
5	54.08	54.28	55.28	54.04	55.38	54.37	57.99	54.50	54.65	54.35	53.97	54.47	
6	54.08	54.28	58.45	54.04	55.28	54.86	58.67	54.61	54.70	54.30	53.97	54.53	
7	54.08	54.28	57.05	54.04	54.07	55.17	58.88	54.68	54.54	54.27	53.96	54.60	
8	54.08	54.18	55.28	54.03	54.28	54.56	57.16	54.91	54.62	54.24	53.96	54.59	
9	54.08	54.18	55.08	54.03	54.77	56.70	56.63	55.01	54.62	54.23	53.98	54.60	
10	54.08	54.18	54.48	54.05	56.22	58.29	55.75	55.09	54.61	54.21	53.99	54.69	
11	54.08	54.08	54.48	54.09	56.72	60.37	55.73	55.10	54.57	54.18	54.02	54.94	
12	54.08	54.08	54.48	54.02	56.44	61.70	56.55	54.97	54.46	54.03	54.34	55.01	
13	54.08	54.08	54.48	54.01	56.32	61.16	56.57	54.83	54.40	54.02	54.42	54.06	
14	54.08	53.98	54.28	54.01	56.50	58.48	57.65	54.80	54.45	54.02	54.42	53.90	
15	54.08	53.98	54.08	54.01	56.61	58.07	57.33	54.86	54.53	54.02	54.35	54.03	
16	54.08	53.98	54.08	54.02	57.17	58.25	57.36	54.81	54.57	54.01	54.11	54.08	
17	54.08	53.98	54.08	54.02	57.71	58.88	57.04	54.76	54.58	54.01	53.97	54.69	
18	54.03	54.01	54.08	54.01	59.29	59.88	56.63	54.60	54.58	54.01	54.11	54.51	
19	54.03	55.18	54.08	54.02	57.51	58.35	56.28	54.57	54.53	54.00	54.33	54.58	
20	54.03	54.98	54.08	54.02	56.99	56.72	55.12	54.61	54.53	54.01	54.34	54.52	
21	54.03	54.28	54.08	54.12	56.72	58.37	55.27	54.80	54.57	54.02	53.96	54.44	
22	53.98	54.18	54.08	54.55	56.98	57.41	55.23	54.78	54.57	54.02	53.96	54.16	
23	53.98	54.08	54.08	54.95	56.53	56.50	55.23	54.65	54.58	54.03	53.96	54.09	
24	53.98	54.08	54.08	55.13	56.53	57.25	55.09	54.65	54.69	54.04	53.96	54.17	
25	53.98	53.98	54.08	54.59	56.45	57.72	55.02	54.70	54.72	54.02	53.97	53.99	
26	53.98	54.11	54.08	55.97	56.36	57.20	55.01	54.70	54.63	53.99	53.97	53.98	
27	54.25	54.91	54.08	56.00	56.34	56.71	54.95	54.75	54.52	53.99	53.97	53.97	
28	54.13	55.55	54.08	55.60	55.29	60.30	54.82	54.66	54.30	53.99	53.98	53.97	
29	54.08	58.75	54.08	55.40	55.26	60.48	54.82	54.71	54.21	53.99	53.98	53.97	
30	54.08	57.31	54.08	54.10	55.92	59.26	55.01	54.71	54.25	53.97		53.97	
31		57.98		54.11	55.47		54.79		54.24	53.96		53.90	
Mean	54.06	54.73	54.68	54.46	56.12	57.51	56.41	54.73	54.55	54.11	54.06	54.32	
Max	54.25	58.75	58.45	56.00	59.29	61.70	58.88	55.10	54.72	54.41	54.42	55.01	61.70
Min	53.98	53.98	54.08	54.01	54.07	54.37	54.79	54.47	54.21	53.96	53.96	53.90	53.90
Annual Max Momentary Gage Height	61.84		m. (MSL.) ,				at 19.00 Hours , on Sep 12 , 2011						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	53.80	m. (MSL)					
Left Bank Elevation	63.82		m. (MSL.) ,										
Right Bank Elevation	63.84		m. (MSL.) ,			Drainage Area	1263	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	4.42	15.30	0.08	1.90	2.10	35.40	1.78	2.14	0.86	0.00	0.10	
2	0.08	4.90	6.48	6.60	2.74	1.82	30.61	1.18	2.02	0.94	0.00	0.41	
3	0.08	1.50	3.62	3.22	5.10	1.66	30.61	1.30	1.98	0.94	0.00	1.26	
4	0.08	0.82	0.18	1.46	5.90	0.90	45.53	1.66	1.98	0.90	0.00	1.30	
5	0.08	0.44	4.42	0.04	4.90	0.78	34.60	1.30	1.90	0.70	0.00	1.18	
6	0.08	0.44	44.20	0.04	4.42	2.74	49.28	1.74	2.10	0.50	0.00	1.42	
7	0.08	0.44	18.70	0.04	0.07	3.98	54.50	2.02	1.46	0.41	0.00	1.70	
8	0.08	0.18	4.42	0.03	0.44	1.54	20.24	2.94	1.78	0.32	0.00	1.66	
9	0.08	0.18	3.62	0.03	2.38	14.50	13.80	3.34	1.78	0.29	0.00	1.70	
10	0.08	0.18	1.22	0.05	9.96	40.79	6.90	3.66	1.74	0.23	0.00	2.06	
11	0.08	0.08	1.22	0.09	14.70	102.30	6.78	3.70	1.58	0.18	0.02	3.06	
12	0.08	0.08	1.22	0.02	11.90	167.80	13.00	3.18	1.14	0.03	0.66	3.34	
13	0.08	0.08	1.22	0.01	10.78	138.00	13.20	2.62	0.90	0.02	0.98	0.06	
14	0.08	0.00	0.44	0.01	12.50	44.86	28.00	2.50	1.10	0.02	0.98	0.00	
15	0.08	0.00	0.08	0.01	13.60	36.20	22.75	2.74	1.42	0.02	0.70	0.03	
16	0.08	0.00	0.08	0.02	20.38	39.95	23.20	2.54	1.58	0.01	0.11	0.08	
17	0.08	0.00	0.08	0.02	29.09	54.50	18.56	2.34	1.62	0.01	0.00	2.06	
18	0.03	0.01	0.08	0.01	65.70	84.32	13.80	1.70	1.62	0.01	0.11	1.34	
19	0.03	4.02	0.08	0.02	25.57	42.05	10.44	1.58	1.42	0.00	0.62	1.62	
20	0.03	3.22	0.08	0.02	17.87	14.70	3.78	1.74	1.42	0.01	0.66	1.38	
21	0.03	0.44	0.08	0.12	14.70	42.47	4.38	2.50	1.58	0.02	0.00	1.06	
22	0.00	0.18	0.08	1.50	17.74	23.96	4.22	2.42	1.58	0.02	0.00	0.16	
23	0.00	0.08	0.08	3.10	12.80	12.50	4.22	1.90	1.62	0.03	0.00	0.09	
24	0.00	0.08	0.08	3.82	12.80	21.55	3.66	1.90	2.06	0.04	0.00	0.17	
25	0.00	0.00	0.08	1.66	12.00	29.28	3.38	2.10	2.18	0.02	0.00	0.00	
26	0.00	0.11	0.08	8.22	11.14	20.80	3.34	2.10	1.82	0.00	0.00	0.00	
27	0.35	2.94	0.08	8.40	10.96	14.60	3.10	2.30	1.38	0.00	0.00	0.00	
28	0.13	5.75	0.08	6.00	4.46	99.50	2.58	1.94	0.50	0.00	0.00	0.00	
29	0.08	51.25	0.08	5.00	4.34	106.70	2.58	2.14	0.23	0.00	0.00	0.00	
30	0.08	22.45	0.08	0.10	7.92	64.80	3.34	2.14	0.35	0.00	0.00	0.00	
31		34.40		0.11	5.35		2.46		0.32	0.00		0.00	
Total	2.12	138.67	107.54	49.85	374.11	1231.65	512.24	67.00	46.30	6.53	4.84	27.24	2568.09 CMSDAY
Mean	0.07	4.47	3.58	1.61	12.07	41.06	16.52	2.23	1.49	0.21	0.17	0.88	7.02 CMS
Max	0.35	51.25	44.20	8.40	65.70	167.80	54.50	3.70	2.18	0.94	0.98	3.34	167.80 CMS
Min	0.00	0.00	0.08	0.01	0.07	0.78	2.46	1.18	0.23	0.00	0.00	0.00	0.00 CMS
Runoff	0.18	11.98	9.29	4.31	32.32	106.42	44.26	5.79	4.00	0.56	0.42	2.35	221.88 MCM
Momentary Peak	175.96 CMS. at 61.84 m. (MSL.) at 19.00 Hours , on Sep 12 , 2011												
Runoff Yield	5.55 Liters/Second/Square KM.			Momentary Peak Yield			139.304 Liters/Second/Square KM.						

WATER YEAR : 2011

PASAK RIVER BASIN

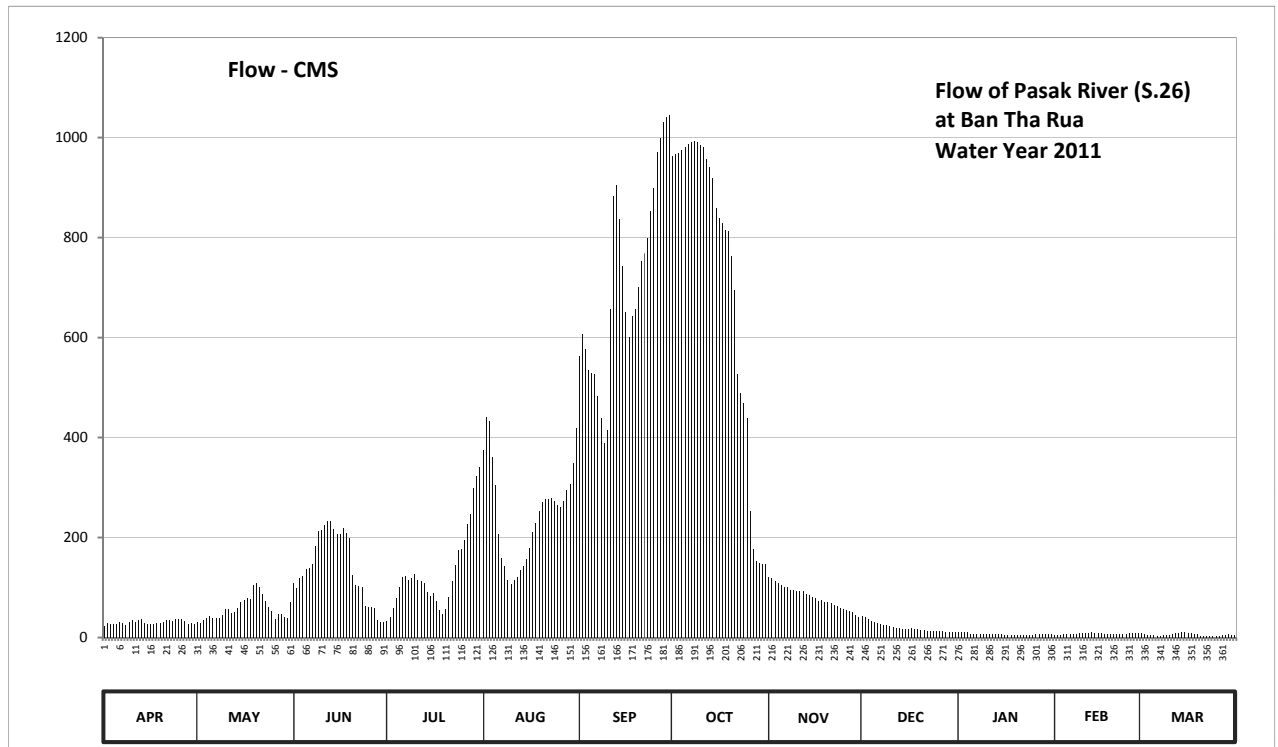
Pasak River at Ban Tha Rua , Phra Nakhon Si Ayutthaya (S.26)

Lat 14 - 33 - 22 N Long 100 - 43 - 38 E

Location : on right bank at Ban Tha Rua

	Ban	Tha Rua	Amphoe	Tha Rua	Changwat	Phra Nakhon Si Ayutthaya
Drainage Area	15,425	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the automatic gage buiding				Elevation	+7.860 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1998 , 2009 to date					
Rated by Flot	-					
Rated by Current Meter	1998, 2009 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by Pasak Cholasit Dam.					
	Stage-discharge relation defined by 20 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.50	30.00	108.40	32.70	374.00	562.50	962.40	121.00	42.50	10.90	5.20	8.70	
2	28.30	28.80	98.60	40.80	441.00	607.60	967.20	118.00	41.00	10.60	5.00	6.40	
3	26.70	34.90	118.20	59.40	433.00	576.80	968.40	114.00	37.40	10.80	4.90	5.50	
4	27.20	39.60	122.40	78.30	361.00	533.90	974.40	109.40	34.00	10.60	6.50	4.90	
5	27.80	43.80	137.10	100.00	303.90	529.50	981.60	105.80	30.80	6.80	6.30	4.20	
6	31.10	39.60	138.50	121.00	206.70	527.30	986.40	100.80	28.40	6.60	7.10	3.50	
7	29.40	39.60	146.20	122.40	159.20	482.20	990.00	100.00	27.00	6.30	7.40	3.40	
8	25.50	38.40	183.20	115.40	142.70	438.00	992.40	94.60	25.60	6.00	7.70	4.10	
9	30.00	45.60	212.10	119.60	115.40	388.00	990.00	93.90	24.00	5.90	8.10	5.50	
10	35.50	57.60	215.70	126.60	107.70	415.00	985.20	93.20	22.30	6.20	8.90	5.30	
11	31.60	55.80	224.70	115.40	114.70	657.00	980.40	92.50	20.10	6.30	8.80	6.00	
12	35.50	49.80	233.70	111.90	121.70	883.20	957.60	92.50	19.90	6.50	8.70	8.00	
13	36.00	50.40	232.80	108.40	134.30	906.00	940.80	87.70	19.40	6.40	10.20	8.90	
14	28.80	58.20	216.60	90.20	142.70	836.40	918.00	84.50	17.40	6.20	9.40	10.60	
15	26.10	71.40	207.60	83.90	156.80	743.20	859.40	80.30	17.20	5.90	9.30	10.30	
16	26.70	74.80	207.60	89.50	178.40	651.20	838.70	78.40	17.20	5.70	8.70	8.40	
17	27.80	79.00	219.30	72.00	210.30	601.00	829.50	72.80	18.30	5.50	6.80	8.10	
18	28.30	77.60	208.50	54.00	228.30	642.00	815.70	75.40	16.30	5.30	6.50	6.90	
19	28.80	104.20	199.20	46.20	253.50	655.80	813.40	71.30	16.10	5.30	5.90	7.10	
20	30.00	109.80	124.50	56.40	271.50	700.70	761.80	70.30	14.60	5.50	5.90	3.50	
21	34.40	100.00	105.60	81.10	276.90	752.50	694.50	68.80	14.40	5.40	6.30	3.40	
22	34.90	87.40	102.80	113.30	277.80	768.60	527.10	65.40	13.00	5.30	7.10	3.20	
23	33.30	72.70	100.00	145.50	279.60	799.60	489.00	63.00	12.60	5.40	7.40	3.40	
24	36.60	61.80	62.40	175.20	272.40	852.50	469.50	59.70	12.60	5.30	6.60	3.50	
25	37.20	53.40	60.00	177.60	265.20	900.00	438.00	57.60	12.40	5.20	7.80	3.80	
26	36.60	36.60	60.60	195.20	261.60	970.80	253.00	55.20	12.10	6.00	8.60	3.90	
27	33.80	47.40	58.80	227.40	273.30	999.90	178.00	53.00	12.00	6.80	8.70	5.30	
28	27.80	46.80	34.90	246.30	294.00	1031.10	153.50	51.30	11.70	6.90	8.90	4.80	
29	28.80	41.40	30.50	299.40	305.70	1041.50	149.90	44.80	11.50	6.70	8.10	5.90	
30	27.80	38.40	31.60	322.80	348.00	1045.40	147.20	42.00	11.10	6.50		5.70	
31		70.80		341.00	418.00		147.20		10.80	5.90		4.90	
Total	915.80	1785.60	4202.10	4068.90	7729.30	21499.20	22160.20	2417.20	623.70	204.70	216.80	177.10	66000.60 CMSDAY
Mean	30.50	57.60	140.10	131.30	249.30	716.60	714.80	80.60	20.10	6.60	7.50	5.70	180.30 CMS
Max	37.20	109.80	233.70	341.00	441.00	1045.40	992.40	121.00	42.50	10.90	10.20	10.60	1045.40 CMS
Min	23.50	28.80	30.50	32.70	107.70	388.00	147.20	42.00	10.80	5.20	4.90	3.20	3.20 CMS
Runoff	79.13	154.28	363.06	351.55	667.81	1857.53	1914.64	208.85	53.89	17.69	18.73	15.30	5702.45 MCM
Momentary Peak	1045.40	CMS. at 11.08 m. (MSL.) at 06.00 Hours , on Sep 30 , 2011											
Runoff Yield	11.69	Liters/Second/Square KM.			Momentary Peak Yield			67.772	Liters/Second/Square KM.				

WATER YEAR : 2011**PASAK RIVER BASIN****Pasak River at Ban Kaeng Sua Taen , Lop Buri (S.28)**

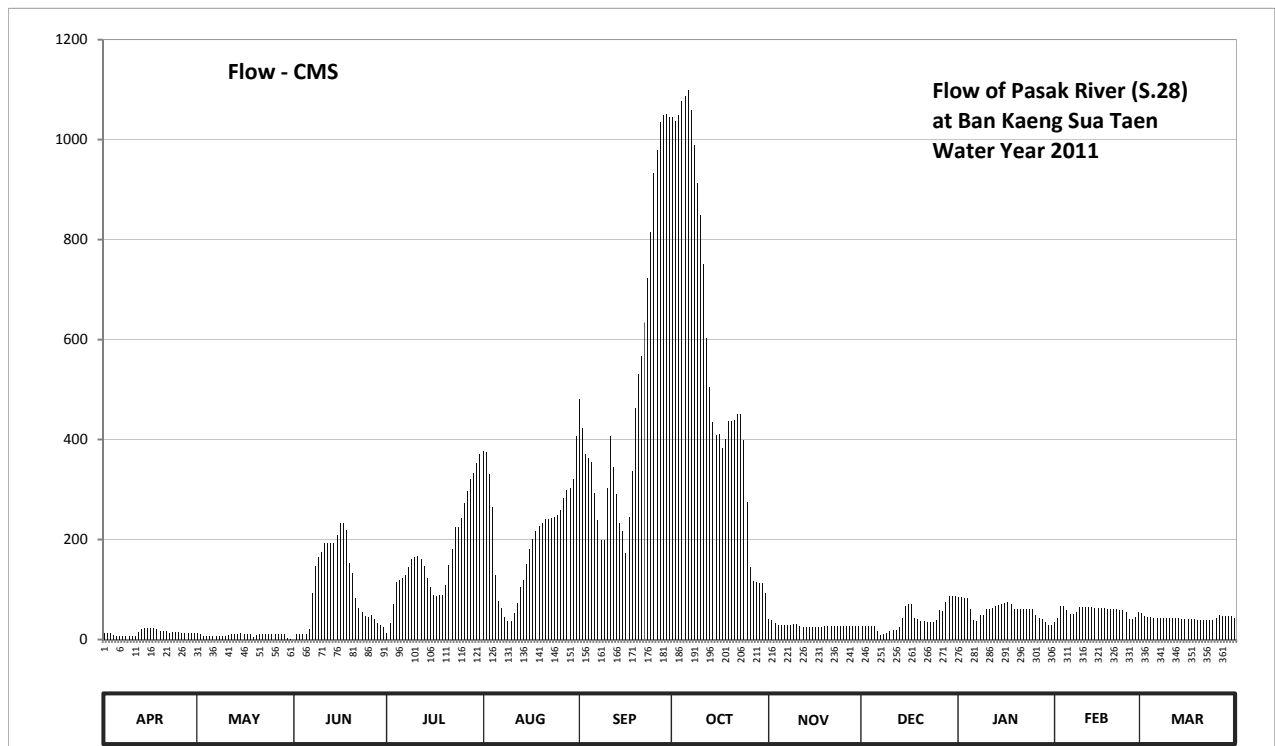
Lat 14 - 50 - 21 N Long 101 - 04 - 08 E

Location : on left bank at Ban Kaeng Sua Taen.

	Ban	Kaeng Sua Taen	Amphoe	Phatthana Nikhom	Changwat	Lop Buri
Drainage Area	8,778	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the automatic gage buiding				Elevation	+32.571 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1986 to date					
Rating Operation						
Period of Rating	1998 to date					
Rated by Flot	-					
Rated by Current Meter	1998 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +28.720 m.(MSL.), records are channel flow only.					
General Description	Records good. Flow effected by Pasak Cholasit Dam.					
	Stage-discharge relation defined by 66 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.47	17.49	16.60	17.48	24.78	26.07	30.78	18.51	18.04	19.36	18.32	18.73	
2	17.47	17.38	17.37	18.25	24.74	25.39	30.73	18.47	18.05	19.34	18.55	18.64	
3	17.47	17.13	17.38	19.08	24.12	24.68	30.82	18.28	18.05	19.32	18.98	18.59	
4	17.25	17.14	17.39	20.00	23.07	24.58	31.02	18.14	18.05	19.31	18.99	18.59	
5	17.15	17.14	17.39	20.05	20.29	24.46	31.08	18.12	18.04	18.89	18.86	18.57	
6	17.15	17.14	17.82	20.15	19.17	23.54	31.17	18.11	17.68	18.47	18.71	18.57	
7	17.15	17.13	19.52	20.26	18.91	22.63	30.89	18.10	17.29	18.41	18.70	18.56	
8	17.14	17.12	20.67	20.63	18.59	21.76	30.39	18.15	17.35	18.65	18.79	18.55	
9	17.14	17.12	21.05	20.94	18.40	21.78	29.82	18.18	17.47	18.68	18.96	18.55	
10	17.14	17.15	21.27	21.06	18.42	23.68	29.32	18.18	17.63	18.88	18.96	18.55	
11	17.15	17.19	21.63	21.10	18.75	25.18	28.55	18.08	17.78	18.89	18.96	18.55	
12	17.54	17.36	21.65	20.95	19.10	24.31	27.27	17.98	17.77	18.92	18.95	18.54	
13	17.82	17.37	21.65	20.68	19.75	23.50	26.31	17.97	18.01	18.99	18.94	18.54	
14	17.93	17.39	21.62	20.15	20.05	22.50	25.53	17.97	18.57	19.03	18.93	18.53	
15	17.95	17.40	21.96	19.77	20.76	22.16	25.20	17.96	18.99	19.08	18.92	18.53	
16	17.94	17.37	22.50	19.44	21.37	21.20	25.24	17.96	19.08	19.12	18.92	18.52	
17	17.94	17.39	22.48	19.40	21.82	22.74	24.88	17.96	19.07	19.13	18.91	18.51	
18	17.87	17.32	22.18	19.42	22.16	24.20	25.10	18.02	18.56	19.06	18.90	18.50	
19	17.69	17.05	20.77	19.45	22.37	25.86	25.55	18.07	18.52	18.89	18.89	18.49	
20	17.69	17.19	20.35	19.85	22.49	26.58	25.57	18.07	18.38	18.89	18.87	18.49	
21	17.60	17.34	19.30	20.69	22.66	26.93	25.58	18.07	18.37	18.89	18.87	18.49	
22	17.49	17.34	18.91	21.38	22.68	27.56	25.72	18.07	18.36	18.89	18.86	18.49	
23	17.52	17.36	18.76	22.32	22.70	28.32	25.73	18.07	18.35	18.89	18.85	18.49	
24	17.52	17.38	18.63	22.32	22.73	29.06	25.09	18.06	18.35	18.87	18.78	18.49	
25	17.50	17.37	18.60	22.70	22.79	29.97	23.22	18.06	18.43	18.88	18.51	18.55	
26	17.47	17.37	18.66	23.21	22.97	30.31	20.62	18.06	18.84	18.68	18.51	18.65	
27	17.47	17.38	18.53	23.60	23.35	30.72	20.04	18.05	18.83	18.55	18.59	18.64	
28	17.47	17.37	18.25	23.97	23.64	30.82	19.99	18.06	19.13	18.53	18.76	18.63	
29	17.48	17.38	18.13	24.15	23.68	30.83	19.96	18.05	19.39	18.33	18.75	18.62	
30	17.48	16.99	18.00	24.44	23.99	30.79	19.92	18.05	19.39	18.11		18.61	
31		16.62		24.68	25.19		19.52		19.39	18.11		18.55	
Mean	17.50	17.25	19.63	21.02	21.79	25.74	26.15	18.10	18.36	18.84	18.81	18.56	
Max	17.95	17.49	22.50	24.68	25.19	30.83	31.17	18.51	19.39	19.36	18.99	18.73	31.17
Min	17.14	16.62	16.60	17.48	18.40	21.20	19.52	17.96	17.29	18.11	18.32	18.49	16.60
Annual Max Momentary Gage Height	31.21		m. (MSL.) ,		at 12.00 Hours , on Oct 6 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	15.52		m. (MSL)					
Left Bank Elevation	28.71		m. (MSL.) ,										
Right Bank Elevation	31.78		m. (MSL.) ,		Drainage Area	8778		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.40	13.80	0.00	13.60	376.60	481.30	1044.20	40.50	26.20	85.50	34.60	52.50	
2	13.40	11.60	11.40	32.50	373.80	423.20	1037.20	39.10	26.50	84.60	42.70	47.60	
3	13.40	6.60	11.60	71.50	330.40	369.60	1049.80	33.40	26.50	83.70	66.10	44.90	
4	9.00	6.80	11.80	115.70	265.20	362.60	1077.80	29.20	26.50	83.20	66.60	44.90	
5	7.00	6.80	11.80	118.10	129.40	354.20	1086.20	28.60	26.20	61.20	59.50	43.80	
6	7.00	6.80	20.40	122.80	76.40	293.40	1098.80	28.30	17.60	39.10	51.40	43.80	
7	7.00	6.60	93.10	128.00	62.30	239.70	1059.60	28.00	9.80	37.30	50.90	43.30	
8	6.80	6.40	147.30	145.40	44.90	198.70	989.60	29.50	11.00	48.10	55.70	42.70	
9	6.80	6.40	165.20	160.00	37.00	199.60	913.60	30.40	13.40	49.80	65.00	42.70	
10	6.80	7.00	175.60	165.70	37.60	301.80	848.60	30.40	16.60	60.60	65.00	42.70	
11	7.00	7.80	192.60	167.60	53.60	406.40	750.00	27.40	19.60	61.20	65.00	42.70	
12	14.80	11.20	193.50	160.50	72.60	343.70	602.70	24.40	19.40	62.80	64.40	42.20	
13	20.40	11.40	193.50	147.80	103.90	291.00	504.00	24.10	25.30	66.60	63.90	42.20	
14	22.90	11.80	192.10	122.80	118.10	233.60	434.40	24.10	43.80	68.80	63.30	41.60	
15	23.50	12.00	208.10	104.90	151.50	217.50	408.00	23.80	66.60	71.50	62.80	41.60	
16	23.20	11.40	233.60	89.30	180.30	172.30	411.20	23.80	71.50	73.70	62.80	41.10	
17	23.20	11.80	232.60	87.40	201.50	245.40	383.60	23.80	70.90	74.20	62.30	40.50	
18	21.40	10.40	218.50	88.40	217.50	336.00	400.00	25.60	43.30	70.40	61.70	40.00	
19	17.80	5.00	152.00	89.80	227.40	462.40	436.00	27.10	41.10	61.20	61.20	39.70	
20	17.80	7.80	132.20	108.60	233.10	531.00	437.60	27.10	36.40	61.20	60.10	39.70	
21	16.00	10.80	82.70	148.20	241.10	566.00	438.40	27.10	36.10	61.20	60.10	39.70	
22	13.80	10.80	62.30	180.80	242.10	634.60	449.80	27.10	35.80	61.20	59.50	39.70	
23	14.40	11.20	54.10	225.10	243.00	722.40	450.70	27.10	35.50	61.20	59.00	39.70	
24	14.40	11.60	47.10	225.10	244.80	814.80	399.20	26.80	35.50	60.10	55.20	39.70	
25	14.00	11.40	45.40	243.00	248.40	933.10	274.20	26.80	37.90	60.60	40.50	42.70	
26	13.40	11.40	48.70	273.60	259.20	978.40	144.90	26.80	58.50	49.80	40.50	48.10	
27	13.40	11.60	41.60	297.00	282.00	1035.80	117.60	26.50	57.90	42.70	44.90	47.60	
28	13.40	11.40	32.50	319.90	299.40	1049.80	115.20	26.80	74.20	41.60	54.10	47.10	
29	13.60	11.60	28.90	332.50	301.80	1051.20	113.80	26.50	87.00	34.90	53.60	46.50	

WATER YEAR : 2011

PASAK RIVER BASIN

Pasak River at Ban Tha Hi Yong , Phetchabun (S.33)

Lat 17 - 00 - 10 N Long 101 - 21 - 23 E

Location : on left bank at Ban Tha Hai Yong

	Ban	Tha Hai Yong	Amphoe	Lom Kao	Changwat	Phetchabun
Drainage Area	521	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+190.090	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+198.009 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +197.890 m. (MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.64	190.63	190.77	191.43	194.85	192.03	193.16	191.20	190.95	190.85	190.80	190.74	
2	190.64	190.63	190.74	191.55	194.32	193.23	193.24	191.19	190.94	190.85	190.80	190.74	
3	190.64	190.63	190.73	191.01	194.90	192.90	194.22	191.18	190.94	190.85	190.79	190.74	
4	190.63	190.63	190.77	191.05	193.06	192.16	193.22	191.17	190.93	190.84	190.79	190.74	
5	190.67	190.62	190.68	191.29	192.30	192.71	192.80	191.16	190.93	190.84	190.79	190.73	
6	190.75	190.62	191.11	190.98	191.84	196.35	192.58	191.14	190.93	190.83	190.78	190.73	
7	190.68	190.62	190.81	190.90	191.60	194.15	192.39	191.13	190.92	190.83	190.78	190.73	
8	190.69	190.62	190.72	190.85	191.46	193.26	192.23	191.13	190.92	190.83	190.78	190.73	
9	190.67	190.62	190.78	190.82	191.39	194.12	192.13	191.12	190.92	190.83	190.78	190.73	
10	190.67	190.61	190.78	191.04	191.32	193.96	192.04	191.13	190.91	190.82	190.78	190.79	
11	190.67	190.61	190.75	190.88	191.77	193.18	191.92	191.12	190.91	190.82	190.77	191.20	
12	190.66	190.62	191.06	190.84	192.09	196.65	191.83	191.12	190.91	190.82	190.77	190.81	
13	190.66	190.70	190.83	190.91	191.58	196.20	191.79	191.11	190.91	190.82	190.77	190.76	
14	190.66	190.80	190.78	191.71	191.48	194.24	191.81	191.10	190.90	190.81	190.77	190.74	
15	190.65	190.69	190.76	192.43	191.31	193.94	191.85	191.09	190.90	190.81	190.77	190.74	
16	190.65	190.66	191.05	191.52	191.24	193.55	191.74	191.08	190.90	190.81	190.77	190.74	
17	190.64	190.65	190.90	191.10	191.85	193.22	191.70	191.08	190.90	190.81	190.77	190.73	
18	190.63	190.83	190.87	191.07	192.76	193.01	191.61	191.06	190.90	190.81	190.76	190.64	
19	190.62	191.11	190.83	191.86	192.61	193.72	191.52	191.06	190.89	190.81	190.76	190.75	
20	190.62	190.90	191.63	191.15	196.06	193.09	191.51	191.05	190.89	190.83	190.76	190.73	
21	190.62	190.76	191.02	191.23	193.83	194.06	191.50	191.04	190.89	190.87	190.75	190.72	
22	190.62	190.68	190.81	191.32	192.70	193.23	191.48	191.03	190.88	190.86	190.75	190.72	
23	190.61	190.66	190.74	191.07	192.30	193.21	191.42	191.02	190.88	190.86	190.75	190.72	
24	190.61	190.71	190.71	191.11	192.08	193.24	191.38	191.02	190.88	190.84	190.74	190.72	
25	190.61	190.77	190.76	191.43	191.88	192.80	191.35	191.00	190.88	190.83	190.74	190.72	
26	190.62	190.95	191.60	191.11	192.00	192.60	191.31	190.99	190.87	190.83	190.74	190.72	
27	190.62	190.76	191.20	191.13	191.70	193.92	191.28	190.98	190.87	190.82	190.74	190.71	
28	190.62	191.08	191.47	191.05	191.72	193.72	191.27	190.97	190.87	190.81	190.74	190.71	
29	190.64	191.27	191.45	191.04	191.55	193.87	191.29	190.95	190.86	190.81	190.74	190.71	
30	190.64	190.90	191.00	191.14	192.37	192.91	191.25	190.95	190.86	190.81		190.71	
31		190.90		195.55	192.24		191.21		190.86	190.81		190.71	
Mean	190.65	190.75	190.94	191.34	192.39	193.64	191.94	191.08	190.90	190.83	190.77	190.75	
Max	190.75	191.27	191.63	195.55	196.06	196.65	194.22	191.20	190.95	190.87	190.80	191.20	196.65
Min	190.61	190.61	190.68	190.82	191.24	192.03	191.21	190.95	190.86	190.81	190.74	190.64	190.61
Annual Max Momentary Gage Height	198.16		m. (MSL.) ,		at 03.00 Hours , on Aug 20 , 2011								
Zero Gage at Bottom Elevation	190.09		m. (MSL.) ,		River Bed	190.28	m. (MSL)						
Left Bank Elevation	197.88		m. (MSL.) ,										
Right Bank Elevation	197.93		m. (MSL.) ,		Drainage Area	521	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.80	1.70	3.00	9.60	102.30	17.50	40.50	7.30	4.80	3.80	3.30	2.70	
2	1.80	1.70	2.70	11.10	79.80	42.40	42.70	7.20	4.70	3.80	3.30	2.70	
3	1.80	1.70	2.50	5.30	104.50	34.00	75.80	7.00	4.70	3.80	3.10	2.70	
4	1.70	1.70	3.00	5.80	38.00	19.40	42.10	7.00	4.50	3.70	3.10	2.70	
5	2.00	1.60	2.10	8.10	21.80	29.30	31.50	6.90	4.50	3.70	3.10	2.50	
6	2.80	1.60	6.40	5.10	14.80	182.00	26.60	6.70	4.50	3.60	3.10	2.50	
7	2.10	1.60	3.40	4.20	11.80	73.00	23.30	6.60	4.50	3.60	3.10	2.50	
8	2.20	1.60	2.50	3.80	10.00	43.30	20.50	6.60	4.50	3.60	3.10	2.50	
9	2.00	1.60	3.10	3.50	9.20	71.80	19.00	6.50	4.50	3.60	3.10	2.50	
10	2.00	1.60	3.10	5.60	8.50	66.10	17.60	6.60	4.40	3.50	3.10	3.10	
11	2.00	1.60	2.80	4.10	13.90	41.00	15.80	6.50	4.40	3.50	3.00	7.30	
12	2.00	1.60	5.90	3.70	18.40	200.00	14.60	6.50	4.40	3.50	3.00	3.40	
13	2.00	2.20	3.60	4.40	11.50	173.00	14.10	6.40	4.40	3.50	3.00	2.80	
14	2.00	3.30	3.10	13.10	10.30	76.60	14.40	6.30	4.20	3.40	3.00	2.70	
15	1.90	2.20	2.80	24.00	8.40	65.40	14.90	6.20	4.20	3.40	3.00	2.70	
16	1.90	2.00	5.80	10.80	7.70	52.00	13.50	6.10	4.20	3.40	3.00	2.70	
17	1.80	1.90	4.20	6.30	14.90	42.10	13.00	6.10	4.20	3.40	3.00	2.50	
18	1.70	3.60	3.90	6.00	30.50	36.70	11.90	5.90	4.20	3.40	2.80	1.80	
19	1.60	6.40	3.60	15.00	27.20	57.70	10.80	5.90	4.20	3.40	2.80	2.80	
20	1.60	4.20	12.10	6.70	164.70	38.70	10.60	5.80	4.20	3.60	2.80	2.50	
21	1.60	2.80	5.50	7.60	61.50	69.60	10.50	5.60	4.20	3.90	2.80	2.50	
22	1.60	2.10	3.40	8.50	29.00	42.40	10.30	5.60	4.10	3.90	2.80	2.50	
23	1.60	2.00	2.70	6.00	21.80	41.80	9.50	5.50	4.10	3.90	2.80	2.50	
24	1.60	2.40	2.40	6.40	18.20	42.70	9.10	5.50	4.10	3.70	2.70	2.50	
25	1.60	3.00	2.80	9.60	15.30	31.50	8.80	5.30	4.10	3.60	2.70	2.50	
26	1.60	4.80	11.80	6.40	17.00	27.00	8.40	5.20	3.90	3.60	2.70	2.50	
27	1.60	2.80	7.30	6.60	13.00	64.70	8.10	5.10	3.90	3.50	2.70	2.40	
28	1.60	6.10	10.10	5.80	13.30	57.70	8.00	5.00	3.90	3.40	2.70	2.40	
29	1.80	8.00	9.90	5.60	11.10	62.90	8.10	4.80	3.90	3.40	2.70	2.40	
30	1.80	4.20	5.30	6.70	23.00	34.30	7.80	4.80	3.90	3.40		2.40	
31		4.20		136.50	20.70		7.40		3.90	3.40		2.40	
Total	55.10	87.80	140.80	361.90	952.10	1836.60	569.20	182.50	132.20	110.90	85.40	84.60	

WATER YEAR : 2011**PASAK RIVER BASIN****Pasak River at Ban Non Thong , Phetchabun (S.36)**

Lat 16 - 43 - 42 N Long 101 - 14 - 32 E

Location : on right bank at Ban Non Thong.

	Ban	Non Thong	Amphoe	Lom Sak	Changwat	Phetchabun
Drainage Area	1,775	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+130.950	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+143.140 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	134.60	134.70	135.55	135.41	137.59	137.61	139.37	135.20	134.80	134.70	134.65	134.27	
2	134.60	134.65	135.14	136.83	138.78	136.70	138.78	135.19	134.80	134.68	134.63	134.27	
3	134.58	134.65	135.12	135.81	139.87	137.54	139.03	135.19	134.79	134.61	134.62	134.27	
4	134.55	134.63	135.10	135.53	139.98	137.96	139.26	135.12	134.78	134.60	134.61	134.28	
5	134.55	134.60	135.07	135.33	139.87	136.74	139.35	135.06	134.77	134.60	134.60	134.29	
6	134.55	134.60	135.05	135.26	138.70	137.00	138.99	135.05	134.76	134.60	134.58	134.30	
7	134.52	134.65	135.11	135.18	136.83	139.09	138.36	135.05	134.75	134.60	134.56	134.31	
8	134.52	134.70	135.20	135.11	136.23	139.86	137.50	135.08	134.75	134.60	134.55	134.32	
9	134.50	134.68	135.15	135.03	135.95	139.76	136.81	135.11	134.74	134.60	134.53	134.36	
10	134.50	134.68	134.99	134.95	135.66	139.49	136.49	135.11	134.73	134.60	134.51	134.42	
11	134.45	134.70	134.86	134.93	135.61	139.54	136.40	135.07	134.73	134.60	134.49	134.69	
12	134.45	134.70	134.83	134.91	136.23	139.49	136.15	135.05	134.73	134.60	134.46	134.68	
13	134.50	134.75	134.79	134.95	136.52	140.48	137.03	134.99	134.73	134.60	134.44	134.67	
14	134.53	134.75	134.83	134.97	136.21	140.93	137.15	134.98	134.73	134.60	134.43	134.66	
15	134.58	134.89	134.79	135.40	136.11	140.55	137.25	134.98	134.73	134.60	134.42	134.65	
16	134.55	134.85	134.74	136.13	135.84	140.25	137.25	134.97	134.73	134.60	134.41	134.62	
17	134.60	134.85	134.92	135.85	136.07	140.07	136.99	134.96	134.73	134.60	134.40	134.63	
18	134.56	134.89	135.21	135.60	136.49	139.69	136.55	134.95	134.73	134.60	134.39	134.62	
19	134.50	135.10	135.26	135.31	137.24	138.93	136.23	134.93	134.73	134.60	134.38	134.61	
20	134.50	135.43	135.20	135.40	137.43	139.42	136.01	134.92	134.73	134.60	134.37	134.60	
21	134.48	135.37	135.10	135.63	139.70	139.02	135.73	134.92	134.73	134.60	134.35	134.59	
22	134.45	135.12	134.97	135.51	140.15	139.33	135.64	134.91	134.73	134.60	134.34	134.58	
23	134.45	135.06	134.81	135.62	139.97	139.54	135.50	134.90	134.73	134.60	134.32	134.58	
24	134.45	135.07	134.67	135.31	138.93	139.60	135.50	134.89	134.73	134.60	134.30	134.55	
25	134.42	135.11	134.62	135.33	137.19	140.06	135.38	134.88	134.73	134.60	134.30	134.52	
26	134.42	135.17	134.71	135.73	136.67	139.89	135.35	134.87	134.73	134.60	134.30	134.49	
27	134.41	135.35	135.52	135.39	136.48	139.45	135.30	134.85	134.73	134.60	134.30	134.46	
28	134.36	135.32	135.41	135.35	136.34	139.74	135.23	134.84	134.73	134.60	134.30	134.44	
29	134.34	135.23	135.32	135.28	136.52	140.16	135.22	134.83	134.73	134.60	134.30	134.42	
30	134.33	135.33	136.36	135.04	136.63	140.05	135.19	134.82	134.73	134.60		134.40	
31		135.36		135.09	137.18		135.21		134.73	134.60		134.40	
Mean	134.49	134.93	135.08	135.39	137.39	139.26	136.78	134.99	134.74	134.61	134.44	134.48	
Max	134.60	135.43	136.36	136.83	140.15	140.93	139.37	135.20	134.80	134.70	134.65	134.69	140.93
Min	134.33	134.60	134.62	134.91	135.61	136.70	135.19	134.82	134.73	134.60	134.30	134.27	134.27
Annual Max Momentary Gage Height	141.03		m. (MSL.) ,			at 06.00 Hours , on Sep 14 , 2011							
Zero Gage at Bottom Elevation	130.95		m. (MSL.) ,			River Bed	131.99	m. (MSL)					
Left Bank Elevation	141.96		m. (MSL.) ,										
Right Bank Elevation	141.91		m. (MSL.) ,			Drainage Area	1775	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.00	3.50	19.90	16.70	81.90	82.60	149.30	12.00	5.00	3.50	2.70	0.00	
2	2.00	2.70	10.80	56.00	125.70	51.70	125.70	11.80	5.00	3.20	2.50	0.00	
3	1.80	2.70	10.40	26.20	170.50	80.10	135.70	11.80	4.80	2.10	2.30	0.00	
4	1.50	2.50	10.00	19.40	175.10	94.90	144.90	10.40	4.70	2.00	2.10	0.00	
5	1.50	2.00	9.50	14.90	170.50	53.00	148.50	9.30	4.60	2.00	2.00	0.00	
6	1.50	2.00	9.10	13.30	122.50	61.50	134.10	9.10	4.40	2.00	1.80	0.00	
7	1.20	2.70	10.20	11.60	56.00	138.10	109.80	9.10	4.30	2.00	1.60	0.00	
8	1.20	3.50	12.00	10.20	37.40	170.10	78.70	9.60	4.30	2.00	1.50	0.00	
9	1.00	3.20	11.00	8.80	29.70	165.80	55.30	10.20	4.10	2.00	1.30	0.00	
10	1.00	3.20	8.10	7.40	22.50	154.30	45.20	10.20	3.90	2.00	1.10	0.20	
11	0.50	3.50	5.90	7.00	21.20	156.40	42.50	9.50	3.90	2.00	0.90	3.40	
12	0.50	3.50	5.50	6.70	37.40	154.30	35.10	9.10	3.90	2.00	0.60	3.20	
13	1.00	4.30	4.80	7.40	46.10	196.80	62.50	8.10	3.90	2.00	0.40	3.00	
14	1.30	4.30	5.50	7.70	36.80	217.10	66.50	7.90	3.90	2.00	0.30	2.90	
15	1.80	6.40	4.80	16.50	34.00	200.00	70.00	7.90	3.90	2.00	0.20	2.70	
16	1.50	5.80	4.10	34.60	27.00	186.60	70.00	7.70	3.90	2.00	0.10	2.30	
17	2.00	5.80	6.90	27.30	32.90	179.00	61.20	7.60	3.90	2.00	0.00	2.50	
18	1.60	6.40	12.20	21.00	45.20	162.80	47.00	7.40	3.90	2.00	0.00	2.30	
19	1.00	10.00	13.30	14.50	69.70	131.70	37.40	7.00	3.90	2.00	0.00	2.10	
20	1.00	17.20	12.00	16.50	76.30	151.40	31.30	6.90	3.90	2.00	0.00	2.00	
21	0.80	15.80	10.00	21.70	163.30	135.30	24.20	6.90	3.90	2.00	0.00	1.90	
22	0.50	10.40	7.70	19.00	182.40	147.70	22.00	6.70	3.90	2.00	0.00	1.80	
23	0.50	9.30	5.20	21.50	174.70	156.40	18.70	6.50	3.90	2.00	0.00	1.80	
24	0.50	9.50	3.00	14.50	131.70	159.00	18.70	6.40	3.90	2.00	0.00	1.50	
25	0.20	10.20	2.30	14.90	67.90	178.50	16.10	6.20	3.90	2.00	0.00	1.20	
26	0.20	11.40	3.70	24.20	50.80	171.30	15.40	6.10	3.90	2.00	0.00	0.90	
27	0.10	15.40	19.20	16.30	44.90	152.60	14.30	5.80	3.90	2.00	0.00	0.60	
28	0.00	14.70	16.70	15.40	40.70	165.00	12.70	5.60	3.90	2.00	0.00	0.40	
29	0.00	12.70	14.70	13.80	46.10	182.80	12.50	5.50	3.90	2.00	0.00	0.20	
30	0.00	14.90	41.30	8.90	49.50	178.10	11.80	5.30	3.90	2.00		0.00	
31		15.60		9.80	67.50		12.20		3.90	2.00		0.00	
Total	29.70	235.10	309.80	523.7									

WATER YEAR : 2011**PASAK RIVER BASIN****Pasak River at Ban Bo Rang , Phetchabun (S.42)**

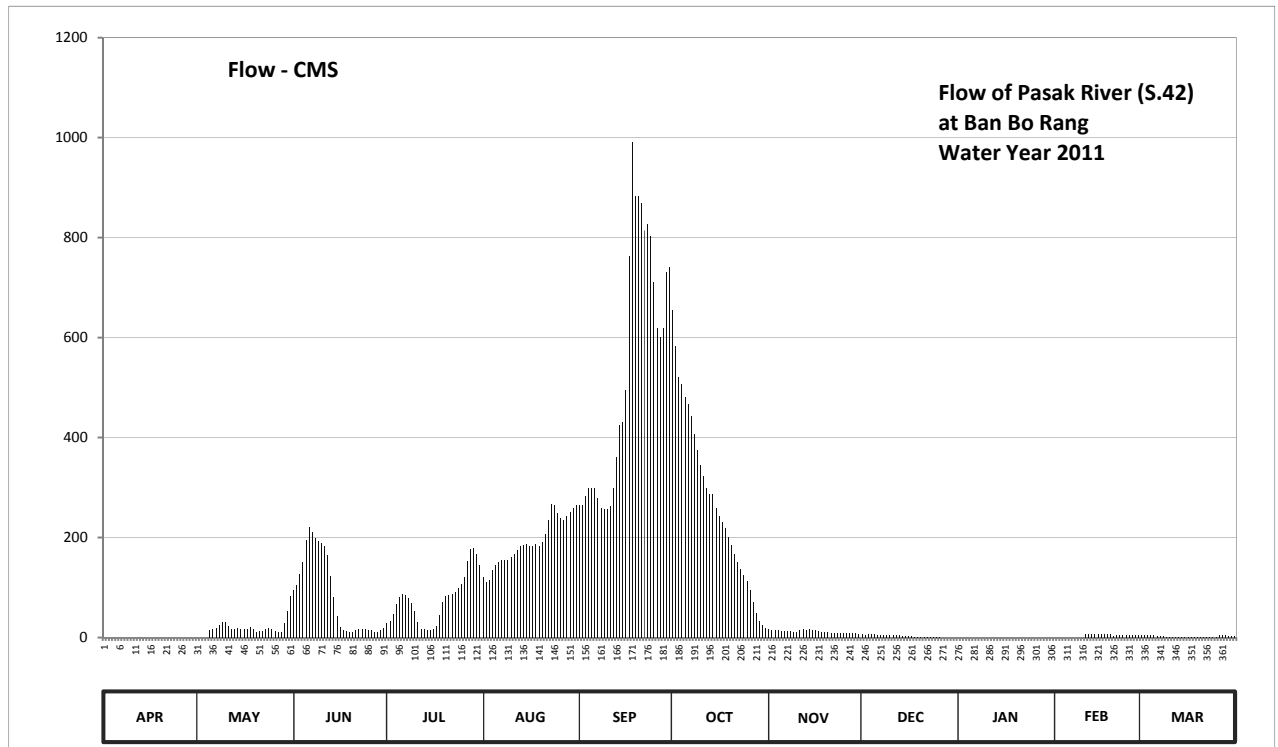
Lat 15 - 34 - 35 N Long 101 - 05 - 28 E

Location : on left bank at the bridge.

	Ban	Bo Rang	Amphoe	Wichian Buri	Changwat	Phetchabun
Drainage Area	7,233	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+51.796	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+63.900 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2005 to date					
Rating Operation						
Period of Rating	2005 to date					
Rated by Flot	-					
Rated by Current Meter	2005 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +62.910 m.(MSL.) and is including overbank flow.					
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.18	52.31	60.28	57.77	60.99	63.00	63.64	57.02	56.08	54.28	52.75	55.76	
2	50.95	52.33	60.56	58.04	60.72	63.00	63.56	56.91	55.84	54.26	52.79	55.73	
3	51.13	52.34	61.13	58.74	60.82	63.05	63.49	56.85	56.06	54.26	52.82	55.68	
4	50.96	52.35	61.63	59.44	61.32	63.09	63.47	56.78	56.01	54.25	52.77	55.61	
5	50.91	56.89	62.37	59.90	61.52	63.09	63.43	56.74	55.88	54.21	52.82	55.50	
6	51.00	57.00	62.72	60.04	61.64	63.09	63.41	56.68	55.85	54.14	52.85	55.39	
7	51.02	57.11	62.62	60.00	61.71	63.04	63.37	56.63	55.87	54.08	52.70	55.29	
8	51.06	57.55	62.44	59.83	61.73	62.98	63.31	56.60	55.86	54.03	52.68	55.17	
9	51.05	57.95	62.35	59.50	61.73	62.96	63.25	56.58	55.85	54.00	52.69	55.07	
10	51.04	57.86	62.27	58.95	61.83	62.97	63.19	56.58	55.83	53.98	53.69	55.01	
11	51.02	57.36	62.18	57.96	61.94	62.99	63.14	56.82	55.74	53.95	56.02	54.93	
12	51.13	56.99	61.90	57.06	62.08	63.09	63.09	56.98	55.64	53.90	56.00	54.86	
13	51.46	56.96	61.04	56.95	62.20	63.22	63.06	56.90	55.52	53.80	55.99	54.82	
14	51.76	57.08	59.84	56.78	62.23	63.34	63.06	57.01	55.41	53.72	55.98	54.80	
15	51.94	56.98	58.57	56.83	62.24	63.35	62.98	56.85	55.29	53.63	55.97	54.80	
16	52.06	56.98	57.25	57.04	62.20	63.45	62.90	56.77	55.26	53.63	55.97	54.80	
17	52.05	56.99	56.86	57.40	62.19	63.75	62.81	56.64	55.16	53.59	55.97	54.80	
18	52.05	57.20	56.62	58.66	62.24	63.92	62.70	56.54	55.00	53.53	55.96	54.80	
19	52.05	56.97	56.51	59.57	62.20	63.85	62.48	56.47	54.95	53.44	55.94	54.80	
20	52.09	56.57	56.53	59.93	62.30	63.85	62.23	56.44	54.91	53.40	55.33	54.76	
21	51.80	56.64	56.84	60.00	62.55	63.84	61.94	56.38	54.86	53.40	55.85	54.94	
22	51.81	56.74	57.05	60.07	62.84	63.80	61.64	56.34	54.81	53.39	55.76	54.90	
23	51.82	56.99	57.07	60.15	63.01	63.81	61.37	56.26	54.80	53.07	55.75	54.62	
24	51.87	57.09	56.94	60.39	63.00	63.79	61.08	56.27	54.77	53.00	55.83	54.75	
25	52.00	56.93	56.90	60.62	62.93	63.70	60.75	56.25	54.66	53.05	55.81	54.74	
26	52.13	56.61	56.83	61.00	62.86	63.60	60.27	56.26	54.58	53.06	55.80	55.72	
27	52.18	56.47	56.57	61.66	62.84	63.58	59.53	56.22	54.49	53.04	55.79	55.65	
28	52.12	56.58	56.59	62.09	62.89	63.60	58.81	56.19	54.44	53.02	55.78	55.56	
29	52.15	57.82	56.79	62.13	62.94	63.72	58.01	56.20	54.36	53.00	55.77	55.47	
30	52.15	58.91	57.12	61.95	62.98	63.73	57.48	56.16	54.32	52.93		55.36	
31		59.91		61.53	63.00		57.15		54.29	52.83		55.29	
Mean	51.60	56.60	59.15	59.42	62.18	63.41	61.95	56.58	55.24	53.61	54.82	55.14	
Max	52.18	59.91	62.72	62.13	63.01	63.92	63.64	57.02	56.08	54.28	56.02	55.76	63.92
Min	50.91	52.31	56.51	56.78	60.72	62.96	57.15	56.16	54.29	52.83	52.68	54.62	50.91
Annual Max Momentary Gage Height	63.94		m. (MSL.) ,				at 06.00 Hours , on Sep 18 , 2011						
Zero Gage at Bottom Elevation	51.80		m. (MSL.) ,			River Bed	52.50	m. (MSL)					
Left Bank Elevation	63.03		m. (MSL.) ,										
Right Bank Elevation	62.90		m. (MSL.) ,			Drainage Area	7233	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	94.80	28.60	121.40	264.00	654.80	17.30	6.90	0.00	0.00	5.30	
2	0.00	0.00	104.80	32.80	110.80	264.00	582.00	15.60	5.70	0.00	0.00	5.20	
3	0.00	0.00	127.10	47.50	114.60	283.50	521.20	14.90	6.80	0.00	0.00	4.90	
4	0.00	0.00	150.30	67.20	135.60	299.10	507.60	14.00	6.50	0.00	0.00	4.60	
5	0.00	15.40	194.50	81.80	145.00	299.10	480.40	13.50	5.90	0.00	0.00	4.00	
6	0.00	17.00	221.20	86.40	150.90	299.10	466.80	12.80	5.70	0.00	0.00	3.40	
7	0.00	18.60	211.80	85.00	154.50	279.60	442.00	12.30	5.80	0.00	0.00	3.00	
8	0.00	25.20	199.10	79.50	155.60	260.00	406.00	12.00	5.80	0.00	0.00	2.30	
9	0.00	31.30	193.20	69.00	155.60	256.00	375.00	11.80	5.70	0.00	0.00	1.80	
10	0.00	29.90	188.10	53.10	161.20	258.00	345.30	11.80	5.70	0.00	0.00	1.50	
11	0.00	22.40	182.20	31.40	167.20	262.00	321.80	14.50	5.20	0.00	6.60	1.10	
12	0.00	16.90	165.00	17.90	175.70	299.10	299.10	16.70	4.70	0.00	6.50	0.90	
13	0.00	16.40	123.40	16.20	183.50	360.00	287.40	15.50	4.10	0.00	6.50	0.80	
14	0.00	18.20	79.80	14.00	185.40	424.00	287.40	17.10	3.50	0.00	6.40	0.70	
15	0.00	16.70	43.40	14.60	186.10	430.00	260.00	14.90	3.00	0.00	6.40	0.70	
16	0.00	16.70	20.70	17.60	183.50	494.00	244.00	13.90	2.80	0.00	6.40	0.70	
17	0.00	16.90	15.00	23.00	182.80	762.00	231.40	12.40	2.30	0.00	6.40	0.70	
18	0.00	20.00	12.20	45.50	186.10	990.80	219.00	11.40	1.50	0.00	6.30	0.70	
19	0.00	16.50	11.10	71.10	183.50	883.00	201.70	10.70	1.20	0.00	6.20	0.70	
20	0.00	11.70	11.30	82.70	190.00	883.00	185.40	10.40	1.00	0.00	3.20	0.60	
21	0.00	12.40	14.70	85.00	206.50	869.20	167.20	9.80	0.90	0.00	5.70	1.20	
22	0.00	13.50	17.70	87.40	235.60	814.00	150.90	9.40	0.80	0.00	5.30	1.00	
23	0.00	16.90	18.00	90.30	267.90	827.80	137.90	8.60	0.70	0.00	5.30	0.30	
24	0.00	18.30	16.10	98.60	264.00	803.60	125.00	8.70	0.70	0.00	5.70	0.60	
25	0.00	15.90	15.50	107.00	250.00	710.00	111.90	8.50	0.40	0.00	5.60	0.60	
26	0.00	12.10	14.60	121.80	238.40	618.00	94.50	8.60	0.20	0.00	5.50	5.10	
27	0.00	10.70	11.70	151.90	235.60	600.00	69.90	8.20	0.00	0.00	5.50	4.80	
28	0.00	11.80	11.90	176.40	242.60	618.00	49.30	7.90	0.00	0.00	5.40	4.30	
29	0.00	29.30	14.10	179.00	252.00	730.80	32.20	8.00	0.00	0.00	5.40	3.90	
30	0.00	52.00	18.80	167.80	260.00	741.20	24.20	7.60	0.00	0.00		3.30	
31		82.10		145.40	264.00		19.30		0.00	0.00		3.00	
Total	0.00	584.80	2502.10	2375.50	5945.60	15882.90	8300.60	358.80	93.50	0.00	110.30	71.70	36225.80 CMSDAY
Mean	0.00	18.90	83.40	76.60	191.80	529.40	267.80	12.00	3.00	0.00	3.80	2.30	99.00 CMS
Max	0.00	82.10	221.20	179.00	267.90	990.80	654.80	17.30	6.90	0.00	6.60	5.30	990.80 CMS
Min	0.00	0.00	11.10	14.00	110.80	256.00	19.30	7.60	0.00	0.00	0.00	0.30	0.00 CMS
Runoff	0.00	50.53	216.18	205.24	513.70	1372.28	717.17	31.00	8.08	0.00	9.53	6.19	3129.91 MCM
Momentary Peak 1029.60 CMS. at 63.94 m. (MSL.) at 06.00 Hours , on Sep 18 , 2011													
Runoff Yield		13.68	Liters/Second/Square KM.		Momentary Peak Yield		142.348	Liters/Second/Square KM.					

WATER YEAR : 2011

PASAK RIVER BASIN

Pasak River at Ban Phun Sap , Lop Buri (S.43)

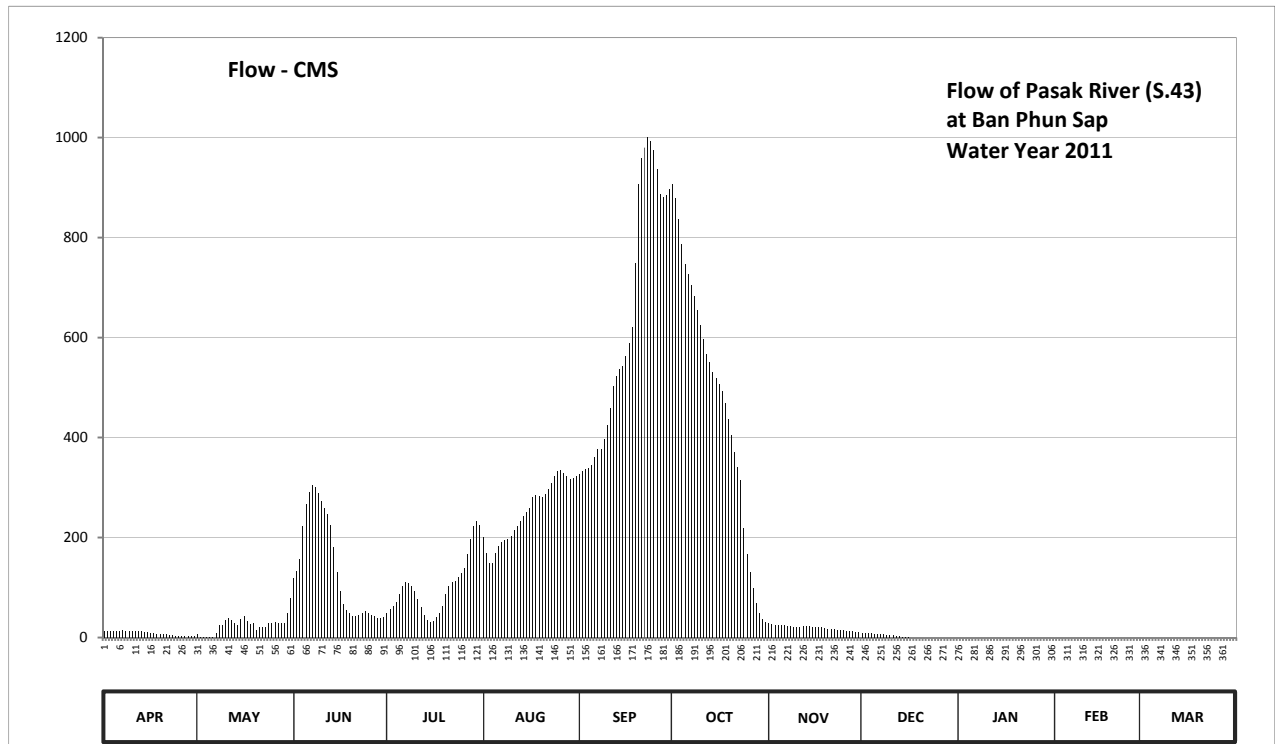
Lat 15 - 19 - 39 N Long 101 - 12 - 45 E

Location : on right bank at the bridge.

	Ban	Phun Sap	Amphoe	Chai Badan	Changwat	Lop Buri
Drainage Area	-	sq.km.				
Type of Gage	Water	- stage recorder				
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+51.908 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2011 to date					
Rating Operation						
Period of Rating	2011 to date					
Rated by Flot	-					
Rated by Current Meter	2011 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.30	39.00	42.74	40.78	44.42	46.55	51.61	44.12	43.70	42.71	41.38	40.19	
2	39.33	38.78	43.05	41.10	43.80	46.63	51.52	44.10	43.68	42.66	41.36	40.15	
3	39.35	38.79	43.54	41.25	43.38	46.68	51.37	44.08	43.65	42.62	41.32	40.14	
4	39.36	38.78	44.80	41.50	43.41	46.74	51.18	44.06	43.63	42.56	41.28	40.13	
5	39.37	38.76	45.55	41.94	43.82	46.82	51.00	44.05	43.61	42.51	41.24	40.10	
6	39.39	38.70	45.94	42.34	44.08	47.06	50.90	44.04	43.59	42.49	41.21	39.98	
7	39.40	39.14	46.19	42.50	44.22	47.30	50.79	44.03	43.58	42.45	41.17	39.95	
8	39.37	39.90	46.10	42.48	44.31	47.32	50.67	44.01	43.57	42.41	41.13	39.90	
9	39.34	39.95	45.92	42.33	44.36	47.61	50.50	43.99	43.55	42.37	41.09	39.81	
10	39.33	40.35	45.66	42.06	44.47	48.02	50.31	43.96	43.52	42.32	41.06	39.78	
11	39.33	40.47	45.42	41.69	44.66	48.50	50.08	43.96	43.50	42.27	41.03	39.74	
12	39.33	40.36	45.20	41.22	44.83	49.10	49.83	44.00	43.48	42.23	40.97	39.71	
13	39.30	40.12	44.86	40.66	44.98	49.37	49.66	44.01	43.46	42.19	40.93	39.70	
14	39.25	39.89	44.04	40.36	45.15	49.51	49.46	44.01	43.43	42.14	40.89	39.68	
15	39.21	40.40	42.98	40.19	45.28	49.59	49.31	43.99	43.39	42.09	40.85	39.60	
16	39.16	40.57	42.05	40.24	45.41	49.79	49.17	43.97	43.35	42.04	40.81	39.58	
17	39.11	40.23	41.41	40.50	45.78	50.02	48.98	43.96	43.30	41.99	40.75	39.55	
18	39.08	40.06	40.98	40.78	45.84	50.28	48.65	43.95	43.27	41.95	40.70	39.49	
19	39.05	40.16	40.76	41.29	45.82	51.01	48.21	43.92	43.24	41.90	40.65	39.37	
20	39.01	39.42	40.61	41.92	45.78	51.61	47.73	43.90	43.21	41.86	40.60	39.45	
21	39.00	39.78	40.58	42.30	45.87	51.75	47.22	43.88	43.18	41.82	40.56	39.43	
22	38.99	39.77	40.68	42.51	46.05	51.80	46.76	43.86	43.15	41.78	40.52	39.39	
23	38.95	39.70	40.81	42.60	46.25	51.85	46.33	43.84	43.12	41.73	40.48	39.31	
24	38.82	40.11	40.91	42.75	46.49	51.83	45.92	43.82	43.08	41.68	40.43	39.28	
25	38.83	40.11	40.80	42.93	46.64	51.79	45.57	43.80	43.04	41.63	40.40	39.24	
26	38.81	40.19	40.68	43.18	46.66	51.69	45.29	43.79	43.01	41.59	40.37	38.96	
27	38.80	40.11	40.62	43.74	46.58	51.55	45.01	43.77	42.97	41.55	40.33	38.90	
28	38.82	40.10	40.47	44.34	46.46	51.53	44.70	43.76	42.93	41.51	40.29	38.86	
29	38.81	40.10	40.43	44.82	46.37	51.54	44.44	43.74	42.88	41.48	40.24	38.84	
30	38.81	40.80	40.52	44.98	46.40	51.58	44.28	43.72	42.82	41.45		38.80	
31		41.73		44.85	46.48		44.18		42.77	41.41		38.78	
Mean	39.13	39.88	42.81	42.13	45.29	49.55	48.41	43.94	43.31	42.04	40.83	39.54	
Max	39.40	41.73	46.19	44.98	46.66	51.85	51.61	44.12	43.70	42.71	41.38	40.19	51.85
Min	38.80	38.70	40.43	40.19	43.38	46.55	44.18	43.72	42.77	41.41	40.24	38.78	38.70
Annual Max Momentary Gage Height		51.86	m. (MSL.) , at 12.00 Hours , on Sep 23 , 2011										
Zero Gage at Bottom Elevation		0.00	m. (MSL.) , River Bed 36.57 m. (MSL)										
Left Bank Elevation		51.91	m. (MSL.) ,										
Right Bank Elevation		51.95	m. (MSL.) , Drainage Area Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011

THA CHIN BASIN

Lower Huai Kra Sieo at Ban Thap Man, Suphan Buri (T.12A)

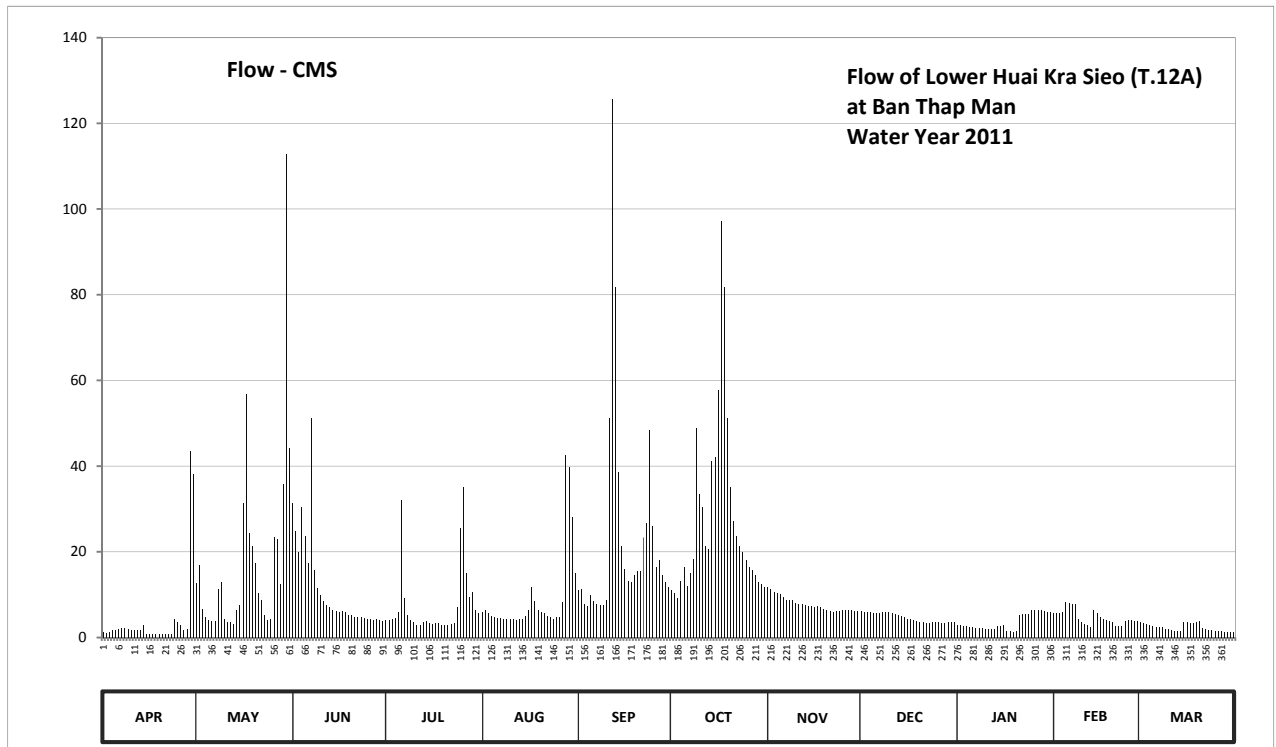
Lat 15 - 00 - 45 N Long 99 - 37 - 12 E

Location : on left bank at Ban Thap Man.

	Ban	Thap Man	Amphoe	Dan Chang	Changwat	Suphan Buri
Drainage Area	686	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the bridge				Elevation	+103.545 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2006 to date					
Rating Operation						
Period of Rating	2006 to date					
Rated by Flot	-					
Rated by Current Meter	2006 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	98.28	98.83	99.34	98.47	98.57	98.77	98.77	98.80	98.58	98.39	98.56	98.44	
2	98.26	98.97	99.18	98.47	98.60	98.78	98.75	98.78	98.57	98.39	98.56	98.42	
3	98.27	98.61	99.05	98.48	98.56	98.65	98.71	98.76	98.57	98.38	98.56	98.41	
4	98.31	98.52	99.32	98.50	98.53	98.63	98.85	98.75	98.57	98.37	98.57	98.39	
5	98.31	98.47	99.15	98.57	98.51	98.73	98.95	98.74	98.56	98.36	98.67	98.38	
6	98.34	98.45	98.98	99.36	98.50	98.68	98.81	98.72	98.56	98.36	98.66	98.36	
7	98.35	98.45	99.79	98.71	98.50	98.65	98.91	98.69	98.56	98.35	98.65	98.36	
8	98.35	98.78	98.93	98.54	98.49	98.64	99.01	98.69	98.57	98.35	98.65	98.36	
9	98.34	98.84	98.79	98.47	98.49	98.64	99.74	98.69	98.57	98.35	98.48	98.34	
10	98.31	98.49	98.73	98.44	98.49	98.69	99.39	98.66	98.57	98.34	98.44	98.33	
11	98.31	98.44	98.68	98.40	98.48	99.79	99.32	98.65	98.56	98.34	98.41	98.32	
12	98.31	98.44	98.64	98.39	98.47	101.17	99.09	98.65	98.55	98.33	98.39	98.30	
13	98.32	98.41	98.62	98.44	98.48	100.39	99.07	98.64	98.54	98.33	98.36	98.30	
14	98.39	98.59	98.60	98.46	98.48	99.51	99.57	98.63	98.53	98.38	98.59	98.29	
15	98.24	98.64	98.58	98.42	98.53	99.09	99.59	98.63	98.51	98.38	98.56	98.44	
16	98.24	99.34	98.57	98.41	98.60	98.94	99.92	98.62	98.49	98.40	98.51	98.44	
17	98.24	99.90	98.58	98.42	98.80	98.85	100.67	98.63	98.48	98.30	98.49	98.43	
18	98.23	99.17	98.57	98.42	98.68	98.84	100.39	98.62	98.47	98.30	98.47	98.42	
19	98.22	99.09	98.54	98.40	98.60	98.89	99.79	98.61	98.45	98.28	98.45	98.44	
20	98.24	98.98	98.54	98.40	98.57	98.92	99.43	98.59	98.44	98.29	98.44	98.45	
21	98.24	98.75	98.52	98.40	98.56	98.92	99.24	98.58	98.44	98.54	98.38	98.35	
22	98.23	98.69	98.52	98.41	98.53	99.14	99.15	98.57	98.43	98.55	98.38	98.34	
23	98.23	98.54	98.51	98.43	98.51	99.23	99.09	98.58	98.43	98.55	98.38	98.32	
24	98.49	98.47	98.50	98.62	98.49	99.73	99.05	98.58	98.44	98.55	98.46	98.31	
25	98.44	98.48	98.49	99.20	98.51	99.21	99.00	98.59	98.44	98.59	98.47	98.30	
26	98.39	99.14	98.48	99.43	98.51	98.95	98.95	98.59	98.44	98.59	98.47	98.29	
27	98.31	99.13	98.47	98.91	98.67	99.00	98.93	98.59	98.43	98.60	98.46	98.29	
28	98.34	98.82	98.48	98.72	99.60	98.89	98.89	98.59	98.42	98.59	98.45	98.28	
29	99.62	99.45	98.47	98.76	99.54	98.84	98.84	98.58	98.44	98.58	98.45	98.28	
30	99.50	100.95	98.46	98.60	99.26	98.80	98.82	98.58	98.44	98.57		98.27	
31		99.64		98.56	98.91		98.80		98.44	98.57		98.27	
Mean	98.39	98.89	98.74	98.59	98.65	99.07	99.21	98.65	98.50	98.43	98.50	98.35	
Max	99.62	100.95	99.79	99.43	99.60	101.17	100.67	98.80	98.58	98.60	98.67	98.45	101.17
Min	98.22	98.41	98.46	98.39	98.47	98.63	98.71	98.57	98.42	98.28	98.36	98.27	98.22
Annual Max Momentary Gage Height	101.17		m. (MSL.) , at 06.00 Hours , on Sep 12 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) , River Bed 97.84 m. (MSL)										
Left Bank Elevation	103.28		m. (MSL.) ,										
Right Bank Elevation	103.26		m. (MSL.) , Drainage Area 686 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.30	12.70	31.28	4.05	5.90	10.96	10.96	11.80	6.10	2.85	5.70	3.60		
2	1.10	17.04	24.84	4.05	6.50	11.24	10.40	11.24	5.90	2.85	5.70	3.30		
3	1.20	6.75	19.90	4.20	5.70	7.75	9.28	10.68	5.90	2.70	5.70	3.15		
4	1.65	4.90	30.44	4.50	5.10	7.25	13.30	10.40	5.90	2.55	5.90	2.85		
5	1.65	4.05	23.70	5.90	4.70	9.84	16.40	10.12	5.70	2.40	8.25	2.70		
6	2.10	3.75	17.36	32.12	4.50	8.50	12.10	9.56	5.70	2.40	8.00	2.40		
7	2.25	3.75	51.23	9.28	4.50	7.75	15.12	8.75	5.70	2.25	7.75	2.40		
8	2.25	11.24	15.76	5.30	4.35	7.50	18.38	8.75	5.90	2.25	7.75	2.40		
9	2.10	13.00	11.52	4.05	4.35	7.50	48.88	8.75	5.90	2.25	4.20	2.10		
10	1.65	4.35	9.84	3.60	4.35	8.75	33.38	8.00	5.90	2.10	3.60	1.95		
11	1.65	3.60	8.50	3.00	4.20	51.23	30.44	7.75	5.70	2.10	3.15	1.80		
12	1.65	3.60	7.50	2.85	4.05	125.56	21.42	7.75	5.50	1.95	2.85	1.50		
13	1.80	3.15	7.00	3.60	4.20	81.86	20.66	7.50	5.30	1.95	2.40	1.50		
14	2.85	6.30	6.50	3.90	4.20	38.45	41.15	7.25	5.10	2.70	6.30	1.40		
15	0.90	7.50	6.10	3.30	5.10	21.42	42.05	7.25	4.70	2.70	5.70	3.60		
16	0.90	31.28	5.90	3.15	6.50	16.08	57.70	7.00	4.35	3.00	4.70	3.60		
17	0.90	56.70	6.10	3.30	11.80	13.30	97.12	7.25	4.20	1.50	4.35	3.45		
18	0.80	24.46	5.90	3.30	8.50	13.00	81.86	7.00	4.05	1.50	4.05	3.30		
19	0.70	21.42	5.30	3.00	6.50	14.50	51.23	6.75	3.75	1.30	3.75	3.60		
20	0.90	17.36	5.30	3.00	5.90	15.44	35.06	6.30	3.60	1.40	3.60	3.75		
21	0.90	10.40	4.90	3.00	5.70	15.44	27.20	6.10	3.60	5.30	2.70	2.25		
22	0.80	8.75	4.90	3.15	5.10	23.32	23.70	5.90	3.45	5.50	2.70	2.10		
23	0.80	5.30	4.70	3.45	4.70	26.80	21.42	6.10	3.45	5.50	2.70	1.80		
24	4.35	4.05	4.50	7.00	4.35	48.41	19.90	6.10	3.60	5.50	3.90	1.65		
25	3.60	4.20	4.35	25.60	4.70	26.00	18.00	6.30	3.60	6.30	4.05	1.50		
26	2.85	23.32	4.20	35.06	4.70	16.40	16.40	6.30	3.60	6.30	4.05	1.40		
27	1.65	22.94	4.05	15.12	8.25	18.00	15.76	6.30	3.45	6.50	3.90	1.40		
28	2.10	12.40	4.20	9.56	42.50	14.50	14.50	6.30	3.30	6.30	3.75	1.30		
29	43.40	35.90	4.05	10.68	39.80	13.00	13.00	6.10	3.60	6.10	3.75	1.30		
30	38.00	112.85	3.90	6.50	28.00	11.80	12.40	6.10	3.60	5.90		1.20		
31		44.30		5.70	15.12		11.80		3.60	5.90		1.20		
Total	128.75	541.31	343.72	234.27	273.82	691.55	860.97	231.45	143.70	109.80	134.90	71.45	3765.69	CMSDAY
Mean	4.29	17.46	11.46	7.56	8.83	23.05	27.77	7.72	4.64	3.54	4.65	2.30	10.29	CMS
Max	43.40	112.85	51.23	35.06	42.50	125.56	97.12	11.80	6.10	6.50	8.25	3.75	125.56	CMS
Min	0.70	3.15	3.90	2.85	4.05	7.25	9.28	5.90	3.30	1.30	2.40	1.20	0.70	CMS
Runoff	11.12	46.77	29.70	20.24	23.66	59.75	74.39	20.00	12.42	9.49	11.66	6.17	325.36	MCM
Momentary Peak	125.56	CMS. at 101.17 m. (MSL.) at 06.00 Hours , on Sep 12 , 2011												
Runoff Yield	14.99	Liters/Second/Square KM.			Momentary Peak Yield		182.901	Liters/Second/Square KM.						

WATER YEAR : 2011

MAE KLONG RIVER BASIN

Khwaee Noi River at Ban Lum Sum , Kanchanaburi (K.10)

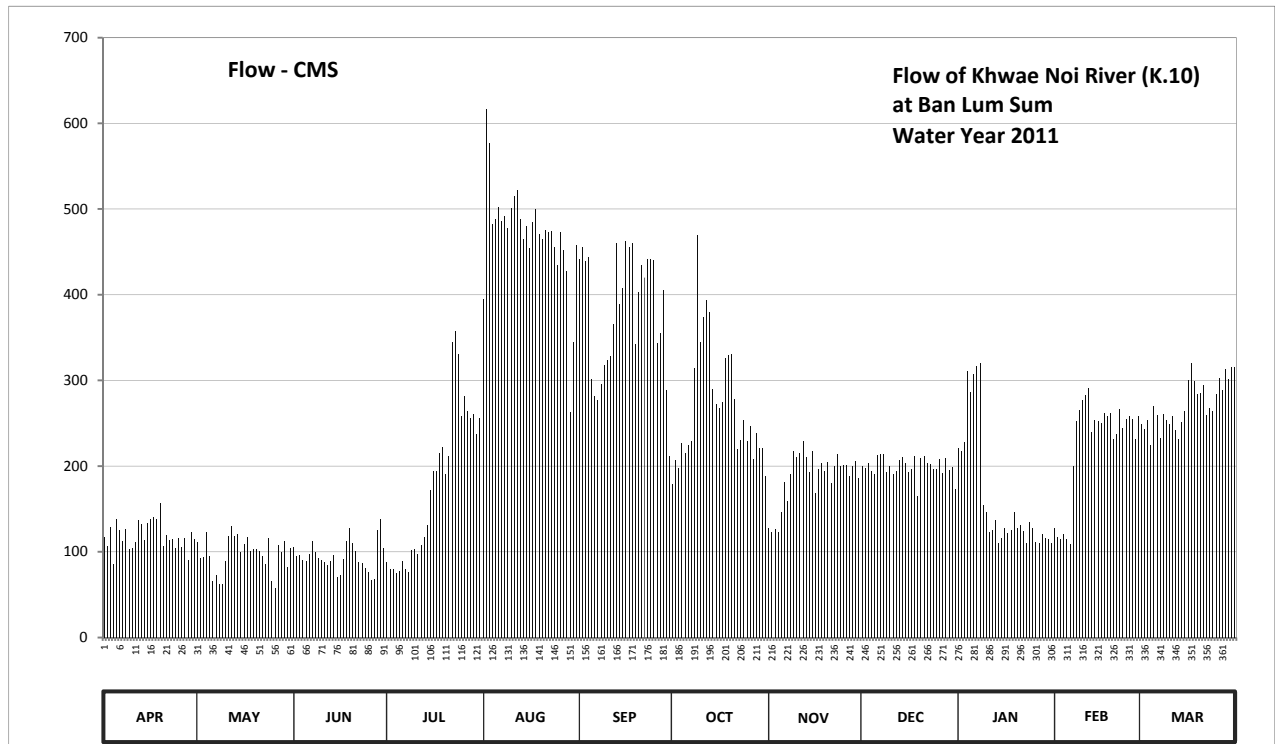
Lat 14 - 05 - 38 N Long 99 - 10 - 40 E

Location : on left bank about 100 meters upstream from Ban Lum Sum railway station

	Ban	Lum Sum	Amphoe	Sai Yok	Changwat	Kanchanaburi
Drainage Area	7,008	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+30.400	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+52.057 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1965 to date					
Rating Operation						
Period of Rating	1965 to date					
Rated by Flot	-					
Rated by Current Meter	1965 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow regulated by Khao Laem Dam.					
	Stage-discharge relation defined by 20 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.26	32.18	32.11	31.88	35.30	35.76	32.99	32.39	33.23	33.48	32.38	33.77	
2	32.12	31.95	31.97	31.78	37.37	35.90	33.32	32.32	33.21	33.44	32.26	33.71	
3	32.40	31.96	31.99	31.77	37.02	35.74	33.21	32.37	33.27	33.55	32.22	33.82	
4	31.86	32.33	31.92	31.71	36.15	35.79	33.54	32.33	33.17	34.44	32.29	33.51	
5	32.51	31.98	31.89	31.74	36.20	34.34	33.41	32.62	33.13	34.17	32.22	34.00	
6	32.35	31.60	32.00	31.90	36.33	34.12	33.51	33.02	33.38	34.40	32.15	33.89	
7	32.20	31.69	32.20	31.78	36.18	34.07	33.57	32.76	33.39	34.50	33.24	33.60	
8	32.37	31.55	32.03	31.73	36.24	34.28	34.47	33.13	33.39	34.53	33.81	33.90	
9	32.07	31.55	31.95	32.06	36.11	34.51	36.03	33.44	33.16	32.71	33.95	33.83	
10	32.09	31.89	31.91	32.08	36.32	34.57	34.79	33.36	33.24	32.61	34.07	33.78	
11	32.18	32.27	31.88	32.01	36.45	34.62	35.09	33.41	33.13	32.33	34.14	33.87	
12	32.50	32.41	31.84	32.14	36.52	35.01	35.29	33.56	33.17	32.35	34.23	33.70	
13	32.45	32.27	31.90	32.26	36.21	35.94	35.15	33.35	33.31	32.50	33.67	33.59	
14	32.21	32.30	31.99	32.42	35.99	35.24	34.21	33.15	33.36	32.16	33.83	33.80	
15	32.46	32.04	31.66	32.91	36.13	35.42	34.02	33.44	33.27	32.24	33.81	33.94	
16	32.51	32.15	31.69	33.17	35.89	35.96	33.97	32.87	33.16	32.38	33.79	34.32	
17	32.55	32.25	31.93	33.17	36.17	35.90	34.05	33.20	33.20	32.31	33.91	34.53	
18	32.52	32.05	32.19	33.41	36.31	35.94	34.60	33.27	33.37	32.35	33.87	34.31	
19	32.74	32.07	32.38	33.49	36.04	34.77	34.64	33.17	32.84	32.61	33.91	34.15	
20	32.12	32.07	32.17	33.13	35.99	35.38	34.65	33.29	33.34	32.39	33.59	34.16	
21	32.28	32.05	32.05	33.37	36.08	35.69	34.09	33.01	33.37	32.43	33.65	34.26	
22	32.21	31.98	31.88	34.79	36.06	35.55	33.46	33.23	33.27	32.34	33.96	33.89	
23	32.23	31.85	31.87	34.93	36.07	35.77	33.58	33.39	33.26	32.17	33.73	33.98	
24	32.09	32.24	31.79	34.65	35.90	35.76	33.83	33.23	33.20	32.47	33.84	33.94	
25	32.24	31.60	31.73	33.88	35.69	35.75	33.56	33.25	33.19	32.38	33.88	34.15	
26	32.11	31.49	31.61	34.13	36.06	34.78	33.75	33.25	33.33	32.18	33.84	34.35	
27	32.24	32.14	31.63	33.94	35.87	34.90	33.33	33.10	33.14	32.17	33.59	34.20	
28	31.92	32.03	32.35	33.85	35.62	35.40	33.66	33.23	33.34	32.30	33.87	34.46	
29	32.32	32.19	32.52	33.90	33.93	34.20	33.48	33.30	33.18	32.24	33.67	34.34	
30	32.22	31.80	32.09	33.65	34.79	33.37	33.47	33.08	33.22	32.22		34.48	
31		32.10		33.85	35.92		33.10		32.93	32.16		34.49	
Mean	32.28	32.00	31.97	32.95	36.03	35.15	33.99	33.08	33.23	32.79	33.50	34.02	
Max	32.74	32.41	32.52	34.93	37.37	35.96	36.03	33.56	33.39	34.53	34.23	34.53	37.37
Min	31.86	31.49	31.61	31.71	33.93	33.37	32.99	32.32	32.84	32.16	32.15	33.51	31.49
Annual Max Momentary Gage Height		37.61	m. (MSL.) ,		at 20.00 Hours , on Aug 2 , 2011								
Zero Gage at Bottom Elevation		30.40	m. (MSL.) ,		River Bed	30.14	m. (MSL)						
Left Bank Elevation			50.12	m. (MSL.) ,									
Right Bank Elevation		46.35	m. (MSL.) ,		Drainage Area	7008	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	117.80	111.40	105.80	87.80	395.00	441.00	178.56	128.20	199.47	221.26	127.40	248.34		
2	106.60	93.17	94.70	80.13	617.18	455.71	207.31	122.60	197.73	217.77	117.80	242.71		
3	129.00	93.93	96.23	79.37	577.28	439.00	197.73	126.60	202.96	227.69	114.60	253.03		
4	86.27	123.40	90.87	74.77	482.50	444.00	226.75	123.40	194.24	311.22	120.20	223.94		
5	137.83	95.47	88.57	77.07	487.86	301.83	215.16	147.00	190.76	285.88	114.60	269.92		
6	125.00	66.33	97.00	89.33	501.79	281.18	223.94	181.17	212.54	307.46	109.00	259.60		
7	113.00	73.23	113.00	80.13	485.71	276.49	229.57	158.67	213.41	316.85	200.34	232.38		
8	126.60	62.50	99.40	76.30	492.14	296.20	314.03	190.76	213.41	319.66	252.09	260.54		
9	102.60	62.50	93.17	101.80	478.21	317.78	469.64	217.77	193.37	154.50	265.23	253.97		
10	104.20	88.57	90.10	103.40	500.71	323.42	344.06	210.80	200.34	146.17	276.49	249.28		
11	111.40	118.60	87.80	97.80	514.64	328.11	374.00	215.16	190.76	123.40	283.06	257.72		
12	137.00	129.80	84.73	108.20	522.20	366.00	394.00	228.63	194.24	125.00	291.51	241.77		
13	133.00	118.60	89.33	117.80	488.93	460.00	380.00	209.93	206.44	137.00	238.95	231.45		
14	113.80	121.00	96.23	130.60	465.36	389.00	289.63	192.50	210.80	109.80	253.97	251.15		
15	133.80	100.20	70.93	171.59	480.36	407.00	271.80	217.77	202.96	116.20	252.09	264.29		
16	137.83	109.00	73.23	194.24	454.64	462.14	267.11	168.10	193.37	127.40	250.22	299.95		
17	141.17	117.00	91.63	194.24	484.64	455.71	274.62	196.86	196.86	121.80	261.48	319.66		
18	138.67	101.00	112.20	215.16	499.64	460.00	326.23	202.96	211.67	125.00	257.72	299.02		
19	157.00	102.60	127.40	222.13	470.71	342.18	329.98	194.24	165.49	146.17	261.48	284.00		
20	106.60	102.60	110.60	190.76	465.36	403.00	330.92	204.70	209.06	128.20	231.45	284.94		
21	119.40	101.00	101.00	211.67	475.00	434.00	278.37	180.30	211.67	131.40	237.08	294.32		
22	113.80	95.47	87.80	344.06	472.86	420.00	219.51	199.47	202.96	124.20	266.17	259.60		
23	115.40	85.50	87.03	358.00	473.93	442.00	230.51	213.41	202.09	110.60	244.58	268.05		
24	104.20	116.20	80.90	330.92	455.71	441.00	253.97	199.47	196.86	134.60	254.91	264.29		
25	116.20	66.33	76.30	258.66	434.00	440.00	228.63	201.21	195.99	127.40	258.66	284.00		
26	105.80	57.90	67.10	282.12	472.86	343.12	246.46	201.21	208.19	111.40	254.91	302.77		
27	116.20	108.20	68.63	264.29	452.50	355.00	208.19	188.14	191.63	110.60	231.45	288.69		
28	90.87	99.40	125.00	255.85	427.00	405.00	238.02	199.47	209.06	121.00	257.72	313.09		
29	122.60	112.20	138.67	260.54	263.35	288.69	221.26	205.57	195.11	116.20	238.95	301.83		
30	114.60	81.67	104.20	237.08	344.06	211.67	220.39	186.40	198.60	114.60		314.97		
31		105.00		255.85	457.86		188.14		173.33	109.80		315.91		
Total	3578.24	3019.77	2849.55	5551.66	14593.99	11430.23	8378.49	5612.47	6185.31	5080.23	6524.11	8435.18	81239.29	CMSDAY
Mean	119.27	97.41	94.98	179.09	470.77	381.01	270.27	187.08	199.53	163.88	224.97	272.10	221.97	CMS
Max	157.00	129.80	138.67	358.00	617.18	462.14	469.64	228.63	213.41	319.66	291.51	319.66	617.18	CMS
Min	86.27	57.90	67.10	74.77	263.35	211.67	178.56	122.60	165.49	109.80	109.00	223.94	57.90	CMS
Runoff	309.16	260.91	246.20	479.66	1260.92	987.57	723.90	484.92	534.42	438.93	563.68	728.80	7019.08	MCM
Momentary Peak	644.98	CMS. at 37.61 m. (MSL.) at 20.00 Hours , on Aug 2 , 2011												
Runoff Yield	31.67	Liters/Second/Square KM.				Momentary Peak Yield		92.035	Liters/Second/Square KM.					

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Mae Klong River at Ban Wang Khanai , Kanchanaburi (K.11A)**

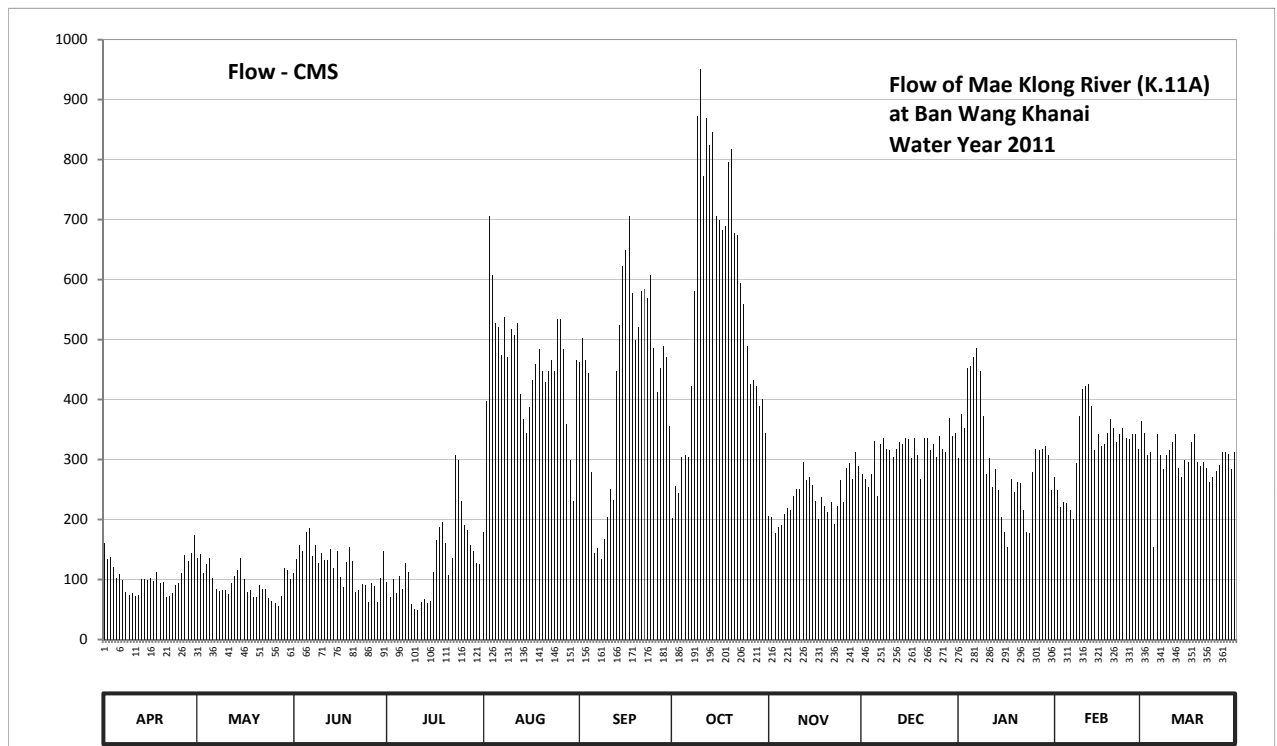
Lat 13 - 56 - 55 N Long 99 - 38 - 42 E

Location : on left bank at Ban Wang Khanai.

	Ban	Wang Khanai	Amphoe	Tha Muang	Changwat	Kanchanaburi
Drainage Area	26,449	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+9.810	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+24.805 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1993 to date					
Rating Operation						
Period of Rating	1993 - 1999 , 2005 to date					
Rated by Flot	-					
Rated by Current Meter	1993 - 1999 , 2005 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.54	11.41	11.27	11.17	11.63	12.73	11.72	11.74	12.06	12.16	12.04	12.39	
2	11.40	11.45	11.40	11.02	12.51	12.86	11.98	11.73	12.03	12.43	11.95	12.32	
3	11.42	11.27	11.53	11.21	13.49	12.74	11.93	11.62	11.97	12.35	11.82	12.18	
4	11.33	11.35	11.47	11.06	13.19	12.67	12.17	11.66	12.06	12.70	11.86	12.20	
5	11.22	11.41	11.63	11.24	12.94	12.07	12.18	11.67	12.27	12.71	11.85	11.51	
6	11.26	11.22	11.65	11.10	12.92	11.46	12.17	11.76	11.91	12.76	11.79	12.31	
7	11.19	11.10	11.43	11.36	12.77	11.50	12.60	11.81	12.25	12.81	11.71	12.18	
8	11.07	11.08	11.53	11.28	12.97	11.40	13.11	11.79	12.29	12.68	12.13	12.09	
9	11.04	11.09	11.36	10.94	12.76	11.58	13.97	11.91	12.22	12.42	12.42	12.18	
10	11.06	11.09	11.46	10.89	12.91	11.73	14.19	11.96	12.21	12.06	12.58	12.21	
11	11.03	11.05	11.39	10.88	12.88	11.96	13.68	11.96	12.17	12.16	12.60	12.26	
12	11.04	11.16	11.39	10.97	12.94	11.88	13.96	12.14	12.22	11.97	12.61	12.31	
13	11.20	11.24	11.49	11.00	12.55	12.68	13.83	12.02	12.26	12.09	12.48	12.10	
14	11.20	11.30	11.32	10.95	12.40	12.93	13.89	12.04	12.25	11.95	12.21	12.04	
15	11.19	11.41	11.47	10.98	12.32	13.24	13.49	11.99	12.29	11.73	12.31	12.15	
16	11.22	11.20	11.23	11.28	12.47	13.32	13.47	11.87	12.28	11.63	12.24	12.14	
17	11.18	11.07	11.12	11.57	12.63	13.49	13.42	11.71	12.16	11.51	12.25	12.26	
18	11.28	11.09	11.37	11.66	12.72	13.10	13.44	11.90	12.29	12.03	12.32	12.31	
19	11.16	11.02	11.51	11.69	12.80	12.85	13.75	11.83	12.18	11.94	12.40	12.14	
20	11.17	11.02	11.38	11.54	12.68	12.92	13.81	11.77	12.03	12.01	12.35	12.11	
21	11.02	11.14	11.07	11.25	12.62	13.11	13.41	11.86	12.29	12.00	12.26	12.14	
22	11.03	11.10	11.09	11.41	12.68	13.12	13.40	11.68	12.29	11.79	12.31	12.10	
23	11.06	11.10	11.15	12.18	12.74	13.07	13.15	11.83	12.21	11.63	12.35	12.01	
24	11.14	11.01	11.14	12.15	12.68	13.19	13.04	12.02	12.25	11.62	12.29	12.04	
25	11.16	10.98	10.97	11.87	12.96	12.81	12.82	11.86	12.17	12.07	12.28	12.08	
26	11.27	10.95	11.16	11.67	12.96	12.56	12.61	12.10	12.30	12.22	12.31	12.12	
27	11.44	10.92	11.13	11.64	12.80	12.70	12.63	12.13	12.22	12.21	12.31	12.20	
28	11.38	11.03	10.97	11.53	12.37	12.82	12.60	12.03	12.20	12.22	12.22	12.20	
29	11.46	11.32	11.22	11.47	12.15	12.76	12.48	12.20	12.41	12.24	12.39	12.19	
30	11.61	11.30	11.48	11.36	11.87	12.36	12.52	12.11	12.30	12.18		12.09	
31		11.21		11.35	12.74		12.32		12.32	11.95		12.20	
Mean	11.23	11.16	11.33	11.34	12.68	12.59	13.02	11.89	12.21	12.14	12.23	12.15	
Max	11.61	11.45	11.65	12.18	13.49	13.49	14.19	12.20	12.41	12.81	12.61	12.39	14.19
Min	11.02	10.92	10.97	10.88	11.63	11.40	11.72	11.62	11.91	11.51	11.71	11.51	10.88
Annual Max Momentary Gage Height	14.29		m. (MSL.) ,			at 08.00 Hours , on Oct 10 , 2011							
Zero Gage at Bottom Elevation	9.81		m. (MSL.) ,		River Bed	10.58	m. (MSL)						
Left Bank Elevation	19.32		m. (MSL.) ,										
Right Bank Elevation	16.73		m. (MSL.) ,		Drainage Area	26449	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012														
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	160.00	135.80	111.20	95.20	179.80	462.00	201.90	205.80	275.60	301.60	270.40	364.20		
2	134.00	143.00	134.00	71.20	397.80	501.60	255.40	203.85	267.80	375.40	248.50	344.60		
3	137.60	111.20	158.00	101.60	705.60	465.00	243.90	177.20	253.10	353.00	221.40	306.80		
4	121.40	125.00	146.60	77.60	606.80	444.00	304.20	187.60	275.60	453.00	229.20	312.00		
5	103.20	135.80	179.80	106.40	526.80	278.20	306.80	190.20	330.90	456.00	227.25	154.00		
6	109.60	103.20	185.00	84.00	520.40	144.80	304.20	209.70	239.30	471.00	215.55	341.80		
7	98.40	84.00	139.40	126.80	474.00	152.00	423.00	219.45	325.50	486.10	199.95	306.80		
8	79.20	80.80	158.00	112.80	536.40	134.00	581.20	215.55	336.30	447.00	293.80	283.40		
9	74.40	82.40	126.80	58.40	471.00	168.00	873.50	239.30	317.40	372.60	372.60	306.80		
10	77.60	82.40	144.80	50.60	517.20	203.85	950.50	250.80	314.70	275.60	417.40	314.70		
11	72.80	76.00	132.20	49.20	507.80	250.80	772.00	250.80	304.20	301.60	423.00	328.20		
12	74.40	93.60	132.20	63.20	526.80	233.10	870.00	296.40	317.40	253.10	426.00	341.80		
13	100.00	106.40	150.20	68.00	409.00	447.00	824.50	265.20	328.20	283.40	389.40	286.00		
14	100.00	116.00	119.60	60.00	367.00	523.60	845.50	270.40	325.50	248.50	314.70	270.40		
15	98.40	135.80	146.60	64.80	344.60	622.80	705.60	257.70	336.30	203.85	341.80	299.00		
16	103.20	100.00	104.80	112.80	386.60	648.60	698.80	231.15	333.60	179.80	322.80	296.40		
17	96.80	79.20	87.20	166.00	432.00	705.60	681.80	199.95	301.60	154.00	325.50	328.20		
18	112.80	82.40	128.60	187.60	459.00	578.00	688.60	237.00	336.30	267.80	344.60	341.80		
19	93.60	71.20	154.00	195.40	483.00	498.50	796.50	223.35	306.80	246.20	367.00	296.40		
20	95.20	71.20	130.40	160.00	447.00	520.40	817.50	211.65	267.80	262.60	353.00	288.60		
21	71.20	90.40	79.20	108.00	429.00	581.20	678.40	229.20	336.30	260.00	328.20	296.40		
22	72.80	84.00	82.40	135.80	447.00	584.40	675.00	192.80	336.30	215.55	341.80	286.00		
23	77.60	84.00	92.00	306.80	465.00	568.40	594.00	223.35	314.70	179.80	353.00	262.60		
24	90.40	69.60	90.40	299.00	447.00	606.80	558.80	265.20	325.50	177.20	336.30	270.40		
25	93.60	64.80	63.20	231.15	533.20	486.10	489.20	229.20	304.20	278.20	333.60	280.80		
26	111.20	60.00	93.60	190.20	533.20	411.80	426.00	286.00	339.00	317.40	341.80	291.20		
27	141.20	55.20	88.80	182.40	483.00	453.00	432.00	293.80	317.40	314.70	341.80	312.00		
28	130.40	72.80	63.20	158.00	358.60	489.20	423.00	267.80	312.00	317.40	317.40	312.00		
29	144.80	119.60	103.20	146.60	299.00	471.00	389.40	312.00	369.80	322.80	364.20	309.40		
30	174.60	116.00	148.40	126.80	231.15	355.80	400.60	288.60	339.00	306.80		283.40		
31		101.60		125.00	465.00		344.60		344.60	248.50		312.00		
Total	3150.40	2933.40	3673.80	4021.35	13989.75	12989.55	17556.40	7131.00	9732.70	9330.50	9361.95	9328.10	103198.91	CMSDAY
Mean	105.01	94.63	122.46	129.72	451.28	432.98	566.34	237.70	313.96	300.98	322.83	300.91	281.96	CMS
Max	174.60	143.00	185.00	306.80	705.60	705.60	950.50	312.00	369.80	486.10	426.00	364.20	950.50	CMS
Min	71.20	55.20	63.20	49.20	179.80	134.00	201.90	177.20	239.30	154.00	199.95	154.00	49.20	CMS
Runoff	272.20	253.45	317.42	347.45	1208.71	1122.30	1516.87	616.12	840.91	806.16	808.87	805.95	8916.39	MCM
Momentary Peak	986.40 CMS. at 14.29 m. (MSL.) at 08.00 Hours , on Oct 10 , 2011													
Runoff Yield	10.66	Liters/Second/Square KM.				Momentary Peak Yield		37.294	Liters/Second/Square KM.					

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Lam Ta Phoen at Ban Thung Na Nang Rok , Kanchanaburi (K.12)**

Lat 14 - 09 - 17 N Long 99 - 25 - 07 E

Location : on left bank about 50 meters downstream from Wat Thung Na Nang Rok.

	Ban	Thung Na Nang Rok	Amphoe	Mueang	Changwat	Kanchanaburi
Drainage Area	2,375	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+40.437	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 6 meters from the top staff gage.				Elevation	+49.887 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1965 to date					
Rating Operation						
Period of Rating	1965 - 1968 , 1995 to date					
Rated by Flot	-					
Rated by Current Meter	1965 - 1968 , 1995 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.31	41.16	41.81	41.27	41.19	41.56	41.42	41.88	41.07	40.97	40.89	40.87	
2	41.32	41.21	42.18	41.25	41.36	41.45	41.38	41.82	41.11	40.98	40.85	40.87	
3	41.30	41.24	42.38	41.23	41.51	41.33	41.36	41.77	41.19	40.98	40.81	40.86	
4	41.25	41.30	42.37	41.23	41.60	41.25	41.39	41.72	41.19	40.98	40.85	40.82	
5	41.23	41.40	42.20	41.28	41.51	41.23	41.52	41.69	41.18	40.97	40.84	40.80	
6	41.19	41.38	42.14	41.41	41.43	41.20	41.81	41.68	41.15	40.95	40.86	40.84	
7	41.15	41.31	42.38	41.47	41.40	41.11	42.12	41.65	41.14	40.94	40.84	40.82	
8	41.13	41.34	42.65	41.38	41.36	41.10	42.68	41.63	41.13	40.90	40.84	40.80	
9	41.05	41.46	42.66	41.32	41.34	41.08	42.81	41.58	41.19	40.90	40.80	40.80	
10	40.99	41.49	42.43	41.23	41.28	41.09	42.71	41.49	41.17	40.91	40.75	40.80	
11	41.01	41.52	42.15	41.21	41.23	41.17	43.13	41.42	41.16	40.91	40.78	40.79	
12	41.02	41.49	41.93	41.19	41.22	41.34	43.75	41.43	41.15	40.87	40.77	40.72	
13	41.00	41.43	41.77	41.19	41.20	41.30	44.33	41.43	41.15	40.86	40.77	40.70	
14	40.98	41.38	41.66	41.20	41.19	41.51	44.09	41.44	41.16	40.84	40.78	40.71	
15	40.99	41.54	41.56	41.19	41.17	41.62	43.63	41.44	41.14	40.83	40.75	40.70	
16	41.01	41.94	41.51	41.18	41.18	41.53	43.45	41.42	41.16	40.84	40.75	40.71	
17	41.02	42.28	41.48	41.17	41.23	41.44	43.45	41.41	41.16	40.83	40.81	40.70	
18	40.99	42.25	41.47	41.17	41.25	41.38	43.78	41.39	41.14	40.83	40.90	40.70	
19	40.98	42.05	41.47	41.16	41.03	41.35	44.80	41.33	41.12	40.80	40.86	40.87	
20	41.00	41.80	41.47	41.01	41.14	41.31	45.28	41.29	41.12	40.79	40.83	41.04	
21	40.99	41.64	41.46	41.10	41.29	41.29	44.70	41.27	41.10	40.81	40.85	41.07	
22	41.03	41.55	41.43	41.16	41.29	41.23	43.96	41.24	41.12	40.82	40.86	41.03	
23	41.03	41.49	41.41	41.17	41.28	41.24	43.42	41.21	41.13	40.83	40.87	40.95	
24	41.08	41.42	41.38	41.17	41.36	41.18	43.05	41.20	41.11	40.83	40.91	40.85	
25	41.15	41.37	41.36	41.17	41.27	41.19	42.75	41.18	41.09	40.83	40.89	40.79	
26	41.24	41.34	41.36	41.15	41.20	41.41	42.49	41.18	41.09	40.84	40.88	40.77	
27	41.13	41.29	41.36	41.12	41.20	41.53	42.34	41.17	41.07	40.79	40.85	40.75	
28	41.08	41.29	41.34	41.22	41.35	41.54	42.15	41.11	41.00	40.80	40.91	40.69	
29	41.07	41.32	41.28	41.19	41.61	41.49	42.04	41.05	41.01	40.78	40.89	40.67	
30	41.16	41.38	41.27	41.17	41.60	41.50	41.96	41.07	41.01	40.82		40.63	
31		41.52		41.13	41.67		41.93		40.99	40.91		40.62	
Mean	41.10	41.50	41.78	41.21	41.32	41.33	42.89	41.42	41.12	40.87	40.84	40.80	
Max	41.32	42.28	42.66	41.47	41.67	41.62	45.28	41.88	41.19	40.98	40.91	41.07	45.28
Min	40.98	41.16	41.27	41.01	41.03	41.08	41.36	41.05	40.99	40.78	40.75	40.62	40.62
Annual Max Momentary Gage Height	45.37		m. (MSL.) ,				at 05.00 Hours , on Oct 20 , 2011						
Zero Gage at Bottom Elevation	40.44		m. (MSL.) ,			River Bed	40.63	m. (MSL)					
Left Bank Elevation	49.55		m. (MSL.) ,										
Right Bank Elevation	46.50		m. (MSL.) ,			Drainage Area	2375	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.10	2.88	10.65	3.76	3.12	6.98	5.24	11.70	2.19	1.49	0.95	0.85		
2	4.20	3.28	17.10	3.60	4.60	5.60	4.80	10.80	2.48	1.56	0.75	0.85		
3	4.00	3.52	21.36	3.44	6.33	4.30	4.60	10.05	3.12	1.56	0.55	0.80		
4	3.60	4.00	21.14	3.44	7.50	3.60	4.90	9.30	3.12	1.56	0.75	0.60		
5	3.44	5.00	17.50	3.84	6.33	3.44	6.46	8.85	3.04	1.49	0.70	0.50		
6	3.12	4.80	16.30	5.12	5.36	3.20	10.65	8.70	2.80	1.35	0.80	0.70		
7	2.80	4.10	21.36	5.84	5.00	2.48	15.90	8.25	2.72	1.28	0.70	0.60		
8	2.64	4.40	27.45	4.80	4.60	2.40	28.14	7.95	2.64	1.00	0.70	0.50		
9	2.05	5.72	27.68	4.20	4.40	2.26	31.46	7.24	3.12	1.00	0.50	0.50		
10	1.63	6.08	22.46	3.44	3.84	2.33	28.86	6.08	2.96	1.07	0.35	0.50		
11	1.77	6.46	16.50	3.28	3.44	2.96	40.24	5.24	2.88	1.07	0.44	0.47		
12	1.84	6.08	12.48	3.12	3.36	4.40	59.90	5.36	2.80	0.85	0.41	0.26		
13	1.70	5.36	10.05	3.12	3.20	4.00	81.86	5.36	2.80	0.80	0.41	0.20		
14	1.56	4.80	8.40	3.20	3.12	6.33	72.42	5.48	2.88	0.70	0.44	0.23		
15	1.63	6.72	6.98	3.12	2.96	7.80	55.82	5.48	2.72	0.65	0.35	0.20		
16	1.77	12.64	6.33	3.04	3.04	6.59	49.80	5.24	2.88	0.70	0.35	0.23		
17	1.84	19.18	5.96	2.96	3.44	5.48	49.80	5.12	2.88	0.65	0.55	0.20		
18	1.63	18.55	5.84	2.96	3.60	4.80	60.92	4.90	2.72	0.65	1.00	0.20		
19	1.56	14.55	5.84	2.88	1.91	4.50	103.00	4.30	2.56	0.50	0.80	0.85		
20	1.70	10.50	5.84	1.77	2.72	4.10	127.00	3.92	2.56	0.47	0.65	1.98		
21	1.63	8.10	5.72	2.40	3.92	3.92	98.00	3.76	2.40	0.55	0.75	2.19		
22	1.91	6.85	5.36	2.88	3.92	3.44	67.48	3.52	2.56	0.60	0.80	1.91		
23	1.91	6.08	5.12	2.96	3.84	3.52	48.84	3.28	2.64	0.65	0.85	1.35		
24	2.26	5.24	4.80	2.96	4.60	3.04	38.00	3.20	2.48	0.65	1.07	0.75		
25	2.80	4.70	4.60	2.96	3.76	3.12	29.90	3.04	2.33	0.65	0.95	0.47		
26	3.52	4.40	4.60	2.80	3.20	5.12	23.78	3.04	2.33	0.70	0.90	0.41		
27	2.64	3.92	4.60	2.56	3.20	6.59	20.48	2.96	2.19	0.47	0.75	0.35		
28	2.26	3.92	4.40	3.36	4.50	6.72	16.50	2.48	1.70	0.50	1.07	0.18		
29	2.19	4.20	3.84	3.12	7.65	6.08	14.36	2.05	1.77	0.44	0.95	0.14		
30	2.88	4.80	3.76	2.96	7.50	6.20	12.96	2.19	1.77	0.60		0.06		
31		6.46		2.64	8.55		12.48		1.63	1.07		0.04		
Total	72.58	207.29	334.02	102.53	136.51	135.30	1224.55	168.84	79.67	27.28	20.24	19.07	2527.88	CMSDAY
Mean	2.42	6.69												

WATER YEAR : 2011

MAE KLONG RIVER BASIN

Lam Phachi at Ban Bo , Ratchaburi (K.17)

Lat 13 - 32 - 31 N Long 99 - 21 - 24 E

Location : on left bank opposite to the 'Sai Ngam' frontier police station.

	Ban Bo	Amphoe Suan Phung	Changwat Ratchaburi
Drainage Area	1,344 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+97.460 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Along the measuring line.	Elevation	+109.256 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1966 to date		
Rating Operation			
Period of Rating	1966 - 1988 , 1993 to date		
Rated by Flot	-		
Rated by Current Meter	1966 - 1988 , 1993 to date		
Stability of Channel Regimes	Stable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 2011		

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	97.83	98.07	97.99	97.90	98.47	97.88	97.93	98.56	98.04	97.85	97.85	97.71		
2	97.83	98.00	98.00	97.90	99.04	97.88	97.94	98.47	98.03	97.85	97.83	97.72		
3	97.81	98.13	98.05	97.90	98.62	97.88	97.95	98.42	98.02	97.85	97.84	97.77		
4	97.83	98.14	98.58	97.90	98.35	97.88	97.94	98.36	98.01	97.85	97.83	97.73		
5	97.87	98.06	98.17	97.94	98.16	97.87	97.92	98.32	98.00	97.84	97.82	97.70		
6	97.90	98.03	98.10	97.94	98.07	97.86	97.90	98.31	97.99	97.84	97.81	97.71		
7	97.97	98.11	98.04	97.92	98.01	97.85	98.42	98.30	97.98	97.84	97.81	97.70		
8	97.93	98.06	98.00	97.90	97.99	97.85	100.02	98.30	97.96	97.83	97.80	97.70		
9	97.91	98.02	97.98	97.89	97.97	97.88	99.20	98.29	97.94	97.83	97.78	97.71		
10	97.94	98.01	97.96	97.87	97.96	97.98	98.87	98.28	97.92	97.82	97.77	97.73		
11	97.92	98.03	97.93	97.87	97.95	98.13	98.70	98.27	97.90	97.81	97.79	97.73		
12	97.88	98.01	97.92	97.86	97.94	98.29	99.12	98.25	97.88	97.81	97.77	97.75		
13	97.86	98.04	97.92	97.85	97.93	98.27	99.33	98.23	97.87	97.81	97.76	97.75		
14	97.85	98.36	97.92	97.84	97.97	98.11	98.97	98.21	97.86	97.81	97.79	97.73		
15	97.84	98.42	97.92	97.83	97.98	98.04	98.75	98.18	97.84	97.81	97.77	97.73		
16	97.83	98.66	97.93	97.83	97.96	98.01	98.86	98.17	97.86	97.80	97.74	97.70		
17	97.83	98.42	97.92	97.83	97.96	97.99	99.10	98.15	97.86	97.80	97.77	97.71		
18	97.84	98.40	97.96	97.82	97.95	97.98	99.39	98.14	97.86	97.80	97.75	97.75		
19	97.88	98.31	98.01	97.82	97.94	97.97	99.04	98.13	97.86	97.79	97.74	97.75		
20	97.93	98.22	97.99	97.81	97.94	97.95	98.88	98.12	97.86	97.79	97.78	97.73		
21	97.89	98.14	98.03	97.81	97.93	97.95	98.86	98.12	97.86	97.80	97.78	97.72		
22	97.87	98.10	98.12	97.90	97.92	97.94	98.80	98.11	97.86	97.86	97.75	97.71		
23	97.84	98.07	98.05	97.92	97.91	97.94	98.68	98.10	97.86	97.87	97.72	97.70		
24	97.93	98.01	97.99	97.92	97.89	97.95	98.60	98.10	97.86	97.85	97.72	97.70		
25	98.09	98.01	97.96	97.91	97.88	97.95	98.56	98.09	97.86	97.84	97.75	97.69		
26	98.10	98.09	97.93	97.95	97.88	97.98	98.66	98.08	97.86	97.83	97.74	97.69		
27	98.03	98.09	97.95	97.94	97.87	97.98	98.52	98.07	97.86	97.82	97.73	97.69		
28	97.97	98.04	97.98	97.92	97.90	97.96	98.60	98.07	97.86	97.82	97.72	97.70		
29	97.99	98.00	97.94	97.89	97.93	97.95	98.83	98.06	97.86	97.81	97.71	97.69		
30	98.02	97.98	97.92	97.92	97.92	97.93	98.84	98.05	97.86	97.83		97.70		
31		97.99		98.16	97.90		98.68		97.85	97.84		97.75		
Mean	97.91	98.13	98.01	97.89	98.04	97.97	98.71	98.21	97.90	97.83	97.77	97.72		
Max	98.10	98.66	98.58	98.16	99.04	98.29	100.02	98.56	98.04	97.87	97.85	97.77	100.02	
Min	97.81	97.98	97.92	97.81	97.87	97.85	97.90	98.05	97.84	97.79	97.71	97.69	97.69	
Annual Max Momentary Gage Height		100.35	m. (MSL.) , at 08.00 Hours , on Oct 8 , 2011											
Zero Gage at Bottom Elevation		97.46	m. (MSL.) , River Bed 97.09 m. (MSL)											
Left Bank Elevation			107.87	m. (MSL.) ,										
Right Bank Elevation			103.32	m. (MSL.) , Drainage Area 1344 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.38	7.52	5.48	3.50	19.95	3.18	4.16	23.10	6.74	2.70	2.70	0.91		
2	2.38	5.70	5.70	3.50	43.60	3.18	4.38	19.95	6.48	2.70	2.38	1.02		
3	2.06	9.17	7.00	3.50	25.30	3.18	4.60	18.20	6.22	2.70	2.54	1.57		
4	2.38	9.46	23.80	3.50	15.85	3.18	4.38	16.18	5.96	2.70	2.38	1.13		
5	3.02	7.26	10.33	4.38	10.04	3.02	3.94	14.86	5.70	2.54	2.22	0.80		
6	3.50	6.48	8.30	4.38	7.52	2.86	3.50	14.53	5.48	2.54	2.06	0.91		
7	5.04	8.59	6.74	3.94	5.96	2.70	18.20	14.20	5.26	2.54	2.06	0.80		
8	4.16	7.26	5.70	3.50	5.48	2.70	101.40	14.20	4.82	2.38	1.90	0.80		
9	3.72	6.22	5.26	3.34	5.04	3.18	52.00	13.90	4.38	2.38	1.68	0.91		
10	4.38	5.96	4.82	3.02	4.82	5.26	35.65	13.60	3.94	2.22	1.57	1.13		
11	3.94	6.48	4.16	3.02	4.60	9.17	28.50	13.30	3.50	2.06	1.79	1.13		
12	3.18	5.96	3.94	2.86	4.38	13.90	47.80	12.70	3.18	2.06	1.57	1.35		
13	2.86	6.74	3.94	2.70	4.16	13.30	58.95	12.10	3.02	2.06	1.46	1.35		
14	2.70	16.18	3.94	2.54	5.04	8.59	40.15	11.50	2.86	2.06	1.79	1.13		
15	2.54	18.20	3.94	2.38	5.26	6.74	30.50	10.62	2.54	2.06	1.57	1.13		
16	2.38	26.90	4.16	2.38	4.82	5.96	35.20	10.33	2.86	1.90	1.24	0.80		
17	2.38	18.20	3.94	2.38	4.82	5.48	46.75	9.75	2.86	1.90	1.57	0.91		
18	2.54	17.50	4.82	2.22	4.60	5.26	62.25	9.46	2.86	1.90	1.35	1.35		
19	3.18	14.53	5.96	2.22	4.38	5.04	43.60	9.17	2.86	1.79	1.24	1.35		
20	4.16	11.80	5.48	2.06	4.38	4.60	36.10	8.88	2.86	1.79	1.68	1.13		
21	3.34	9.46	6.48	2.06	4.16	4.60	35.20	8.88	2.86	1.90	1.68	1.02		
22	3.02	8.30	8.88	3.50	3.94	4.38	32.50	8.59	2.86	2.86	1.35	0.91		
23	2.54	7.52	7.00	3.94	3.72	4.38	27.70	8.30	2.86	3.02	1.02	0.80		
24	4.16	5.96	5.48	3.94	3.34	4.60	24.50	8.30	2.86	2.70	1.02	0.80		
25	8.04	5.96	4.82	3.72	3.18	4.60	23.10	8.04	2.86	2.54	1.35	0.72		
26	8.30	8.04	4.16	4.60	3.18	5.26	26.90	7.78	2.86	2.38	1.24	0.72		
27	6.48	8.04	4.60	4.38	3.02	5.26	21.70	7.52	2.86	2.22	1.13	0.72		
28	5.04	6.74	5.26	3.94	3.50	4.82	24.50	7.52	2.86	2.22	1.02	0.80		
29	5.48	5.70	4.38	3.34	4.16	4.60	33.85	7.26	2.86	2.06	0.91	0.72		
30	6.22	5.26	3.94	3.94	3.94	4.16	34.30	7.00	2.86	2.38		0.80		
31		5.48		10.04	3.50		27.70		2.70	2.54		1.35		
Total	115.50	292.57	182.41	108.72	229.64	157.14	973.96	349.72	115.68	71.80	47.47	30.97	2675.58	CMSDAY
Mean	3.85													

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Huai Mae Nam Noi at Ban Sai Yok , Kanchanaburi (K.22B)**

Lat 14 - 26 - 59 N Long 98 - 48 - 08 E

Location : on right bank about 640 meters upstream from station K.22A

	Ban	Sai Yok	Amphoe	Sai Yok	Changwat	Kanchanaburi
Drainage Area	311	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+67.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 10 meters from the top staff gage.				Elevation	+72.434 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1989 to date					
Rating Operation						
Period of Rating	1989 to date					
Rated by Flot	-					
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 50 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	68.14	68.13	68.16	68.57	70.79	68.72	68.70	68.39	68.23	68.11	68.08	68.07	
2	68.13	68.10	68.14	68.61	70.12	68.77	68.78	68.37	68.23	68.11	68.08	68.06	
3	68.13	68.08	68.13	68.57	69.71	68.76	68.70	68.36	68.22	68.11	68.12	68.06	
4	68.13	68.06	68.12	68.55	69.42	68.75	68.72	68.35	68.22	68.11	68.11	68.05	
5	68.10	68.05	68.41	68.53	69.21	68.72	68.66	68.34	68.21	68.11	68.17	68.05	
6	68.09	68.05	68.35	68.48	69.07	68.70	68.71	68.33	68.21	68.11	68.12	68.04	
7	68.08	68.07	68.28	68.45	69.00	68.71	68.69	68.32	68.20	68.11	68.09	68.04	
8	68.07	68.07	68.22	68.43	69.02	68.74	69.23	68.31	68.20	68.11	68.09	68.04	
9	68.08	68.20	68.19	68.40	68.99	68.87	68.94	68.31	68.19	68.11	68.09	68.04	
10	68.08	68.60	68.20	68.40	69.03	68.83	68.83	68.30	68.19	68.11	68.08	68.04	
11	68.06	68.39	68.25	68.39	69.00	68.91	68.77	68.29	68.18	68.11	68.08	68.04	
12	68.05	68.29	68.39	68.38	68.96	68.96	68.72	68.29	68.18	68.11	68.08	68.04	
13	68.05	68.21	68.43	68.39	68.92	68.96	68.69	68.28	68.17	68.11	68.07	68.06	
14	68.04	68.25	68.39	68.40	68.89	68.93	68.68	68.28	68.17	68.10	68.07	68.05	
15	68.05	68.34	68.46	68.41	68.83	68.95	68.65	68.27	68.16	68.10	68.07	68.05	
16	68.08	68.30	68.79	68.40	68.81	68.89	68.63	68.26	68.16	68.10	68.07	68.04	
17	68.05	68.21	69.14	68.48	68.98	68.84	68.64	68.25	68.16	68.10	68.10	68.04	
18	68.04	68.18	69.04	68.49	68.91	68.84	68.62	68.24	68.15	68.09	68.10	68.03	
19	68.03	68.17	68.85	68.55	68.92	68.82	68.60	68.24	68.15	68.09	68.26	68.03	
20	68.03	68.22	68.75	68.84	68.90	68.80	68.58	68.23	68.15	68.09	68.16	68.03	
21	68.02	68.18	68.76	69.49	68.91	68.92	68.57	68.28	68.14	68.10	68.11	68.02	
22	68.03	68.17	68.76	69.65	68.83	68.86	68.56	68.28	68.14	68.09	68.10	68.02	
23	68.03	68.16	68.68	69.17	68.80	68.97	68.53	68.27	68.14	68.09	68.09	68.02	
24	68.14	68.17	68.63	68.96	68.77	68.91	68.49	68.27	68.13	68.09	68.08	68.01	
25	68.12	68.19	68.57	68.83	68.73	68.84	68.46	68.26	68.13	68.08	68.08	68.01	
26	68.09	68.18	68.55	68.76	68.70	68.81	68.45	68.26	68.12	68.08	68.08	68.04	
27	68.07	68.16	68.89	68.72	68.78	68.77	68.43	68.25	68.12	68.08	68.08	68.13	
28	68.10	68.20	68.86	68.68	68.79	68.74	68.42	68.25	68.11	68.08	68.08	68.12	
29	68.08	68.17	68.70	68.65	68.77	68.71	68.41	68.24	68.11	68.08	68.07	68.08	
30	68.13	68.16	68.62	68.63	68.77	68.72	68.40	68.24	68.11	68.08		68.05	
31		68.16		69.32	68.75		68.40		68.11	68.09		68.04	
Mean	68.08	68.19	68.52	68.66	69.03	68.82	68.63	68.29	68.16	68.10	68.10	68.05	
Max	68.14	68.60	69.14	69.65	70.79	68.97	69.23	68.39	68.23	68.11	68.26	68.13	70.79
Min	68.02	68.05	68.12	68.38	68.70	68.70	68.40	68.23	68.11	68.08	68.07	68.01	68.01
Annual Max Momentary Gage Height	71.08		m. (MSL.) ,		at 06.00 Hours , on Aug 1 , 2011								
Zero Gage at Bottom Elevation	67.00		m. (MSL.) ,		River Bed	66.94		m. (MSL)					
Left Bank Elevation	72.16		m. (MSL.) ,										
Right Bank Elevation	73.63		m. (MSL.) ,		Drainage Area	311		Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.84	1.73	2.06	10.56	156.55	15.42	14.70	6.00	3.01	1.51	1.22	1.13	
2	1.73	1.40	1.84	11.73	95.94	17.22	17.58	5.60	3.01	1.51	1.22	1.04	
3	1.73	1.22	1.73	10.56	65.65	16.86	14.70	5.40	2.84	1.51	1.62	1.04	
4	1.73	1.04	1.62	10.00	47.70	16.50	15.42	5.20	2.84	1.51	1.51	0.95	
5	1.40	0.95	6.44	9.44	36.50	15.42	13.38	5.00	2.67	1.51	2.17	0.95	
6	1.31	0.95	5.20	8.12	29.65	14.70	15.06	4.80	2.67	1.51	1.62	0.86	
7	1.22	1.13	3.86	7.40	26.50	15.06	14.37	4.60	2.50	1.51	1.31	0.86	
8	1.13	1.13	2.84	6.92	27.40	16.14	37.50	4.40	2.50	1.51	1.31	0.86	
9	1.22	2.50	2.39	6.20	26.08	21.10	23.98	4.40	2.39	1.51	1.31	0.86	
10	1.22	11.40	2.50	6.20	27.85	19.50	19.50	4.20	2.39	1.51	1.22	0.86	
11	1.04	6.00	3.35	6.00	26.50	22.72	17.22	4.03	2.28	1.51	1.22	0.86	
12	0.95	4.03	6.00	5.80	24.82	24.82	15.42	4.03	2.28	1.51	1.22	0.86	
13	0.95	2.67	6.92	6.00	23.14	24.82	14.37	3.86	2.17	1.51	1.13	1.04	
14	0.86	3.35	6.00	6.20	21.90	23.56	14.04	3.86	2.17	1.40	1.13	0.95	
15	0.95	5.00	7.64	6.44	19.50	24.40	13.05	3.69	2.06	1.40	1.13	0.95	
16	1.22	4.20	17.94	6.20	18.70	21.90	12.39	3.52	2.06	1.40	1.13	0.86	
17	0.95	2.67	33.00	8.12	25.66	19.90	12.72	3.35	2.06	1.40	1.40	0.86	
18	0.86	2.28	28.30	8.36	22.72	19.90	12.06	3.18	1.95	1.31	1.40	0.77	
19	0.77	2.17	20.30	10.00	23.14	19.10	11.40	3.18	1.95	1.31	3.52	0.77	
20	0.77	2.84	16.50	19.90	22.30	18.30	10.84	3.01	1.95	1.31	2.06	0.77	
21	0.68	2.28	16.86	51.90	22.72	23.14	10.56	3.86	1.84	1.40	1.51	0.68	
22	0.77	2.17	16.86	61.75	19.50	20.70	10.28	3.86	1.84	1.31	1.40	0.68	
23	0.77	2.06	14.04	34.50	18.30	25.24	9.44	3.69	1.84	1.31	1.31	0.68	
24	1.84	2.17	12.39	24.82	17.22	22.72	8.36	3.69	1.73	1.31	1.22	0.59	
25	1.62	2.39	10.56	19.50	15.78	19.90	7.64	3.52	1.73	1.22	1.22	0.59	
26	1.31	2.28	10.00	16.86	14.70	18.70	7.40	3.52	1.62	1.22	1.22	0.86	
27	1.13	2.06	21.90	15.42	17.58	17.22	6.92	3.35	1.62	1.22	1.22	1.73	
28	1.40	2.50	20.70	14.04	17.94	16.14	6.68	3.35	1.51	1.22	1.22	1.62	
29	1.22	2.17	14.70	13.05	17.22	15.06	6.44	3.18	1.51	1.22	1.13	1.22	
30	1.73	2.06	12.06	12.39	17.22	15.42	6.20	3.18	1.51	1.22		0.95	
31		2.06		42.10	16.50		6.20		1.51	1.31		0.86	
Total	36.32	82.86	326.50	476.48	962.88	581.58	405.82	120.51	66.01	43.12	4		

WATER YEAR : 2011

MAE KLONG RIVER BASIN

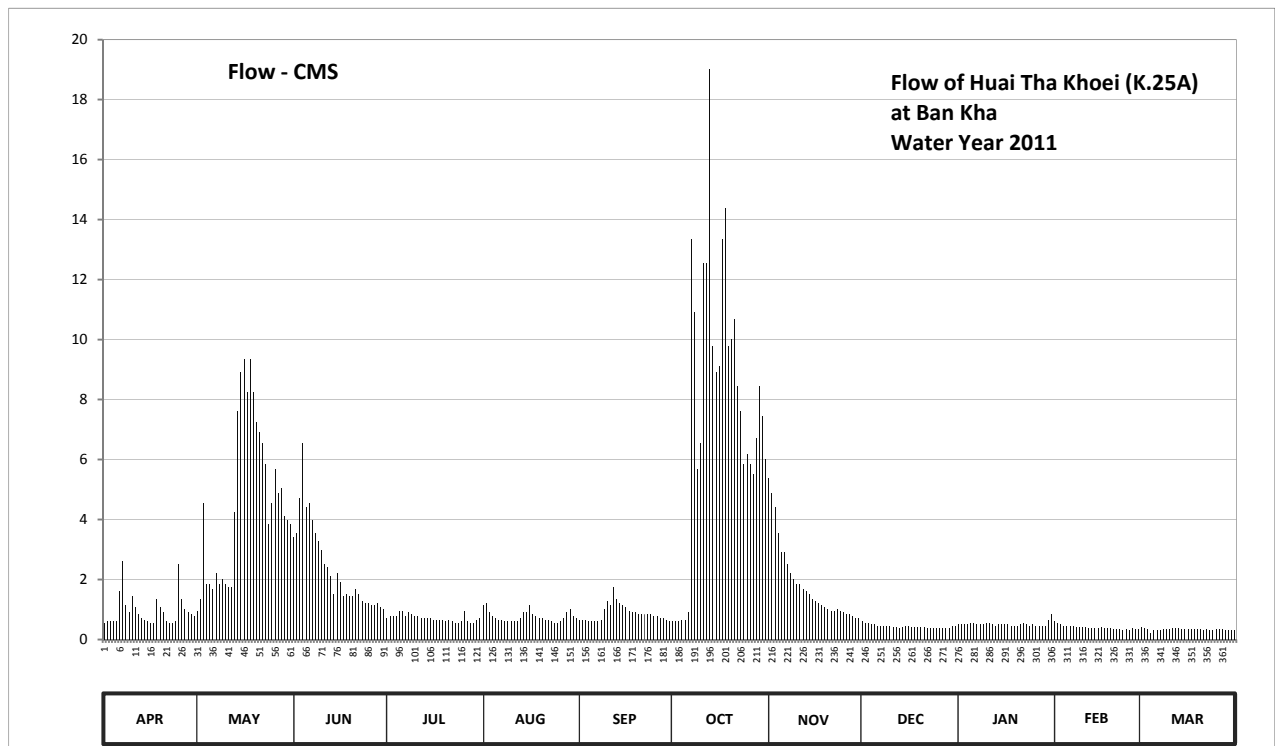
Huai Tha Khoei at Ban Kha , Ratchaburi (K.25A)

Lat 13 - 24 - 07 N Long 99 - 25 - 14 E

Location : on right bank about 8 kilometers upstream from station K.25

	Ban Kha	Amphoe Ban Kha	Changwat Ratchaburi
Drainage Area	367	sq.km.	
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+152.071	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 1 meter from the top staff gage.		Elevation +160.094 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1994 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Flot	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 41 discharge measurements made in 2011.		

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.56	0.96	3.42	0.72	1.14	0.66	0.60	5.36	0.60	0.50	0.60	0.43	
2	0.60	1.36	3.56	0.78	1.20	0.66	0.60	4.88	0.53	0.50	0.53	0.39	
3	0.60	4.56	4.72	0.78	0.90	0.66	0.60	4.40	0.53	0.50	0.50	0.35	
4	0.60	1.84	6.54	0.78	0.78	0.60	0.66	3.56	0.50	0.50	0.46	0.21	
5	0.60	1.84	4.40	0.96	0.72	0.60	0.66	2.90	0.50	0.53	0.46	0.32	
6	1.60	1.68	4.56	0.96	0.66	0.60	0.90	2.90	0.46	0.53	0.46	0.32	
7	2.60	2.20	3.98	0.78	0.66	0.60	13.34	2.50	0.46	0.50	0.46	0.32	
8	1.14	1.84	3.56	0.90	0.60	0.66	10.92	2.20	0.46	0.50	0.43	0.35	
9	0.90	2.00	3.28	0.84	0.60	1.02	5.68	2.00	0.46	0.50	0.43	0.35	
10	1.44	1.84	3.00	0.78	0.60	1.28	6.54	1.84	0.46	0.56	0.43	0.35	
11	1.08	1.76	2.50	0.78	0.60	1.14	12.56	1.84	0.43	0.53	0.43	0.39	
12	0.84	1.76	2.40	0.72	0.60	1.76	12.56	1.68	0.43	0.50	0.39	0.39	
13	0.72	4.26	2.10	0.72	0.72	1.36	19.02	1.60	0.39	0.46	0.39	0.39	
14	0.66	7.62	1.52	0.72	0.90	1.20	9.78	1.52	0.43	0.50	0.39	0.35	
15	0.60	8.90	2.20	0.72	0.90	1.14	8.90	1.36	0.46	0.50	0.39	0.35	
16	0.56	9.34	1.92	0.66	1.14	1.08	9.12	1.28	0.46	0.50	0.43	0.35	
17	0.53	8.24	1.44	0.66	0.84	0.96	13.34	1.20	0.43	0.50	0.39	0.35	
18	1.36	9.34	1.52	0.66	0.78	0.90	14.38	1.14	0.43	0.46	0.39	0.35	
19	1.08	8.24	1.44	0.66	0.72	0.90	9.78	1.08	0.43	0.46	0.39	0.35	
20	0.90	7.26	1.44	0.60	0.72	0.84	10.00	1.02	0.43	0.46	0.35	0.35	
21	0.60	6.90	1.68	0.66	0.66	0.84	10.69	0.96	0.43	0.50	0.35	0.32	
22	0.56	6.54	1.52	0.60	0.66	0.84	8.46	0.96	0.39	0.53	0.35	0.35	
23	0.53	5.84	1.28	0.56	0.60	0.84	7.62	1.02	0.39	0.50	0.32	0.32	
24	0.60	3.84	1.20	0.53	0.56	0.84	5.84	0.96	0.39	0.46	0.35	0.32	
25	2.50	4.56	1.20	0.60	0.56	0.78	6.18	0.90	0.39	0.50	0.32	0.35	
26	1.36	5.68	1.14	0.96	0.60	0.78	5.84	0.84	0.39	0.46	0.39	0.35	
27	1.02	4.88	1.14	0.60	0.72	0.72	5.52	0.84	0.39	0.46	0.35	0.35	
28	0.90	5.04	1.20	0.56	0.90	0.72	6.72	0.78	0.39	0.46	0.35	0.32	
29	0.84	4.12	1.08	0.53	1.02	0.66	8.46	0.72	0.39	0.46	0.24	0.32	
30	0.78	3.98	1.02	0.66	0.78	0.60	7.44	0.72	0.46	0.66		0.32	
31		3.84		0.72	0.72		6.00		0.46	0.84		0.32	
Total	28.66	142.06	71.96	22.16	23.56	26.24	238.71	54.96	13.75	15.82	11.72	10.65	660.25 CMSDAY
Mean	0.96	4.58	2.40	0.71	0.76	0.87	7.70	1.83	0.44	0.51	0.40	0.34	1.80 CMS
Max	2.60	9.34	6.54	0.96	1.20	1.76	19.02	5.36	0.60	0.84	0.60	0.43	19.02 CMS
Min	0.53	0.96	1.02	0.53	0.56	0.60	0.60	0.72	0.39	0.46	0.24	0.21	0.21 CMS
Runoff	2.48	12.27	6.22	1.92	2.04	2.27	20.63	4.75	1.19	1.37	1.01	0.92	57.05 MCM
Momentary Peak	4.91	CMS. at 153.99 m. (MSL.) at 17.00 Hours , on Oct 11 , 2011											
Runoff Yield	4.91	Liters/Second/Square KM.			Momentary Peak Yield		122.479	Liters/Second/Square KM.					

WATER YEAR : 2011

MAE KLONG RIVER BASIN

Huai Mae Nam Lo at Ban Sai Yok , Kanchanaburi (K.30)

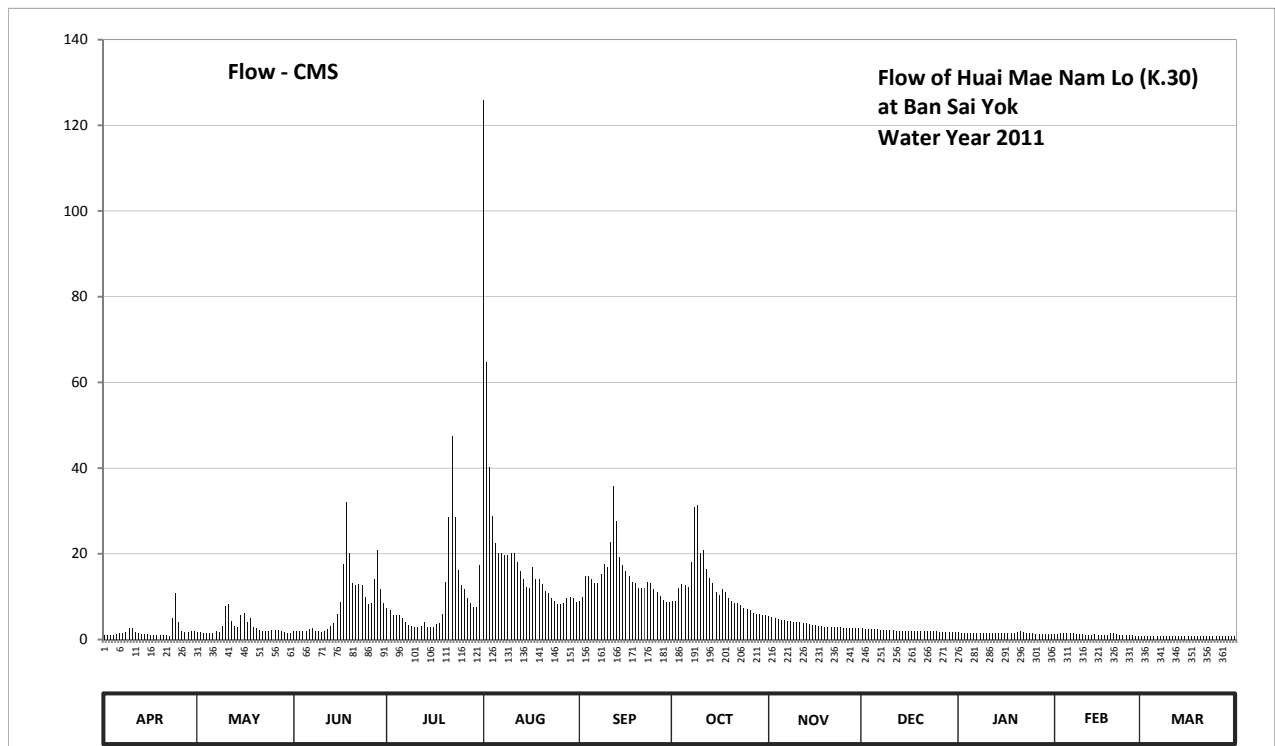
Lat 14 - 26 - 27 N Long 98 - 47 - 48 E

Location : on left bank about 1 kilometer downstream from station K.22A

	Ban	Sai Yok	Amphoe	Sai Yok	Changwat	Kanchanaburi
Drainage Area	466	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+68.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 30 meters from the top staff gage.				Elevation	+77.305 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1994 to date					
Rated by Flot	-					
Rated by Current Meter	1994 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 50 discharge measurements made in 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	67.99	68.08	68.09	68.42	70.80	68.50	68.50	68.32	68.16	68.07	68.02	67.98	
2	67.99	68.07	68.09	68.39	69.86	68.53	68.50	68.31	68.15	68.06	68.02	67.98	
3	67.99	68.06	68.10	68.34	69.37	68.69	68.60	68.30	68.15	68.06	68.04	67.98	
4	68.01	68.05	68.10	68.33	69.11	68.69	68.63	68.29	68.15	68.06	68.04	67.97	
5	68.03	68.05	68.11	68.33	68.94	68.67	68.62	68.28	68.14	68.06	68.05	67.97	
6	68.04	68.06	68.14	68.30	68.87	68.64	68.61	68.28	68.14	68.06	68.05	67.97	
7	68.05	68.10	68.16	68.25	68.87	68.64	68.80	68.27	68.13	68.06	68.04	67.97	
8	68.07	68.07	68.10	68.22	68.86	68.71	69.16	68.26	68.12	68.05	68.03	67.96	
9	68.17	68.21	68.09	68.21	68.86	68.79	69.17	68.25	68.13	68.05	68.02	67.96	
10	68.16	68.44	68.07	68.20	68.87	68.76	68.87	68.25	68.12	68.05	68.02	67.96	
11	68.08	68.46	68.10	68.18	68.87	68.95	68.90	68.25	68.12	68.05	68.01	67.96	
12	68.04	68.26	68.15	68.21	68.80	69.27	68.75	68.24	68.11	68.05	68.01	67.96	
13	68.03	68.21	68.21	68.25	68.73	69.08	68.68	68.24	68.11	68.04	68.01	67.96	
14	68.02	68.20	68.24	68.20	68.67	68.84	68.64	68.23	68.11	68.04	68.02	67.96	
15	68.02	68.33	68.35	68.20	68.61	68.78	68.57	68.22	68.11	68.04	68.01	67.97	
16	68.01	68.36	68.49	68.20	68.60	68.73	68.55	68.22	68.11	68.04	68.01	67.97	
17	68.01	68.25	68.79	68.23	68.76	68.69	68.59	68.21	68.11	68.04	68.01	67.96	
18	68.01	68.30	69.19	68.24	68.67	68.65	68.57	68.21	68.11	68.04	68.01	67.96	
19	68.01	68.19	68.87	68.35	68.67	68.64	68.52	68.20	68.11	68.04	68.05	67.96	
20	68.01	68.16	68.64	68.65	68.63	68.60	68.50	68.20	68.10	68.08	68.04	67.96	
21	67.99	68.12	68.62	69.10	68.58	68.60	68.48	68.19	68.10	68.09	68.03	67.95	
22	67.98	68.10	68.63	69.53	68.56	68.60	68.47	68.19	68.10	68.08	68.01	67.95	
23	68.30	68.10	68.62	69.10	68.52	68.65	68.45	68.18	68.10	68.05	68.01	67.95	
24	68.56	68.11	68.53	68.74	68.50	68.64	68.42	68.18	68.09	68.05	68.00	67.95	
25	68.25	68.13	68.46	68.62	68.46	68.59	68.41	68.17	68.09	68.04	68.00	67.95	
26	68.11	68.12	68.48	68.59	68.46	68.57	68.39	68.17	68.08	68.03	67.99	67.95	
27	68.08	68.12	68.67	68.52	68.47	68.54	68.36	68.17	68.08	68.03	67.98	67.97	
28	68.08	68.11	68.90	68.47	68.52	68.51	68.35	68.17	68.08	68.02	67.98	67.98	
29	68.10	68.08	68.59	68.43	68.53	68.49	68.35	68.17	68.07	68.02	67.98	67.97	
30	68.09	68.06	68.47	68.43	68.52	68.49	68.34	68.17	68.07	68.02		67.97	
31		68.05		68.78	68.49		68.33		68.07	68.02		67.97	
Mean	68.08	68.16	68.40	68.45	68.81	68.68	68.58	68.23	68.11	68.05	68.02	67.96	
Max	68.56	68.46	69.19	69.53	70.80	69.27	69.17	68.32	68.16	68.09	68.05	67.98	70.80
Min	67.98	68.05	68.07	68.18	68.46	68.49	68.33	68.17	68.07	68.02	67.98	67.95	67.95
Annual Max Momentary Gage Height		71.39	m. (MSL.) ,		at 06.00 Hours , on Aug 1 , 2011								
Zero Gage at Bottom Elevation		68.00	m. (MSL.) ,		River Bed	67.10	m. (MSL)						
Left Bank Elevation		76.26	m. (MSL.) ,										
Right Bank Elevation		77.40	m. (MSL.) ,		Drainage Area	466	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.95	1.80	1.90	7.40	126.00	9.00	9.00	5.40	2.60	1.70	1.20	0.90		
2	0.95	1.70	1.90	6.80	64.60	9.90	9.00	5.20	2.50	1.60	1.20	0.90		
3	0.95	1.60	2.00	5.80	40.15	14.70	12.00	5.00	2.50	1.60	1.40	0.90		
4	1.10	1.50	2.00	5.60	28.90	14.70	12.90	4.80	2.50	1.60	1.40	0.85		
5	1.30	1.50	2.10	5.60	22.40	14.10	12.60	4.60	2.40	1.60	1.50	0.85		
6	1.40	1.60	2.40	5.00	20.10	13.20	12.30	4.60	2.40	1.60	1.50	0.85		
7	1.50	2.00	2.60	4.00	20.10	13.20	18.00	4.40	2.30	1.60	1.40	0.85		
8	1.70	1.70	2.00	3.40	19.80	15.30	30.90	4.20	2.20	1.50	1.30	0.80		
9	2.70	3.20	1.90	3.20	19.80	17.70	31.30	4.00	2.30	1.50	1.20	0.80		
10	2.60	7.80	1.70	3.00	20.10	16.80	20.10	4.00	2.20	1.50	1.20	0.80		
11	1.80	8.20	2.00	2.80	20.10	22.75	21.00	4.00	2.20	1.50	1.10	0.80		
12	1.40	4.20	2.50	3.20	18.00	35.65	16.50	3.80	2.10	1.50	1.10	0.80		
13	1.30	3.20	3.20	4.00	15.90	27.70	14.40	3.80	2.10	1.40	1.10	0.80		
14	1.20	3.00	3.80	3.00	14.10	19.20	13.20	3.60	2.10	1.40	1.20	0.80		
15	1.20	5.60	6.00	3.00	12.30	17.40	11.10	3.40	2.10	1.40	1.10	0.85		
16	1.10	6.20	8.80	3.00	12.00	15.90	10.50	3.40	2.10	1.40	1.10	0.85		
17	1.10	4.00	17.70	3.60	16.80	14.70	11.70	3.20	2.10	1.40	1.10	0.80		
18	1.10	5.00	32.10	3.80	14.10	13.50	11.10	3.20	2.10	1.40	1.10	0.80		
19	1.10	2.90	20.10	6.00	14.10	13.20	9.60	3.00	2.10	1.40	1.50	0.80		
20	1.10	2.60	13.20	13.50	12.90	12.00	9.00	3.00	2.00	1.80	1.40	0.80		
21	0.95	2.20	12.60	28.50	11.40	12.00	8.60	2.90	2.00	1.90	1.30	0.75		
22	0.90	2.00	12.90	47.50	10.80	12.00	8.40	2.90	2.00	1.80	1.10	0.75		
23	5.00	2.00	12.60	28.50	9.60	13.50	8.00	2.80	2.00	1.50	1.10	0.75		
24	10.80	2.10	9.90	16.20	9.00	13.20	7.40	2.80	1.90	1.50	1.00	0.75		
25	4.00	2.30	8.20	12.60	8.20	11.70	7.20	2.70	1.90	1.40	1.00	0.75		
26	2.10	2.20	8.60	11.70	8.20	11.10	6.80	2.70	1.80	1.30	0.95	0.75		
27	1.80	2.20	14.10	9.60	8.40	10.20	6.20	2.70	1.80	1.30	0.90	0.85		
28	1.80	2.10	21.00	8.40	9.60	9.30	6.00	2.70	1.80	1.20	0.90	0.90		
29	2.00	1.80	11.70	7.60	9.90	8.80	6.00	2.70	1.70	1.20	0.90	0.85		
30	1.90	1.60	8.40	7.60	9.60	8.80	5.80	2.70	1.70	1.20		0.85		
31		1.50		17.40	8.80		5.60		1.70	1.20		0.85		
Total	58.80	91.30	249.90	291.30	635.75	441.20	372.20	108.20	65.20	45.90	34.25	25.40	2419.40	CMSDAY
Mean	1.96	2.95	8.33	9.40	20.51	14.71	12.01	3.61	2.10	1.48	1.18	0.82	6.61	CMS
Max	10.80	8.20	32.10	47.50	126.00	35.65	31.30	5.40	2.60	1.90	1.50	0.90	126.00	CMS
Min	0.90	1.50	1.70	2.80	8.20	8.80	5.60	2.70	1.70	1.20	0.90	0.75	0.75	CMS
Runoff	5.08	7.89	21.59	25.17	54.93	38.12	32.16	9.35	5.63	3.97	2.96	2.20	209.04	MCM
Momentary Peak	170.20	CMS. at 71.39 m. (MSL.) at 06.00 Hours , on Aug 1 , 2011												
Runoff Yield	14.18	Liters/Second/Square KM.				Momentary Peak Yield		365,213	Liters/Second/Square KM.					

WATER YEAR : 2011

MAE KLONG RIVER BASIN

Huai Mae Nam Noi at Ban Nam Chon , Kanchanaburi (K.31)

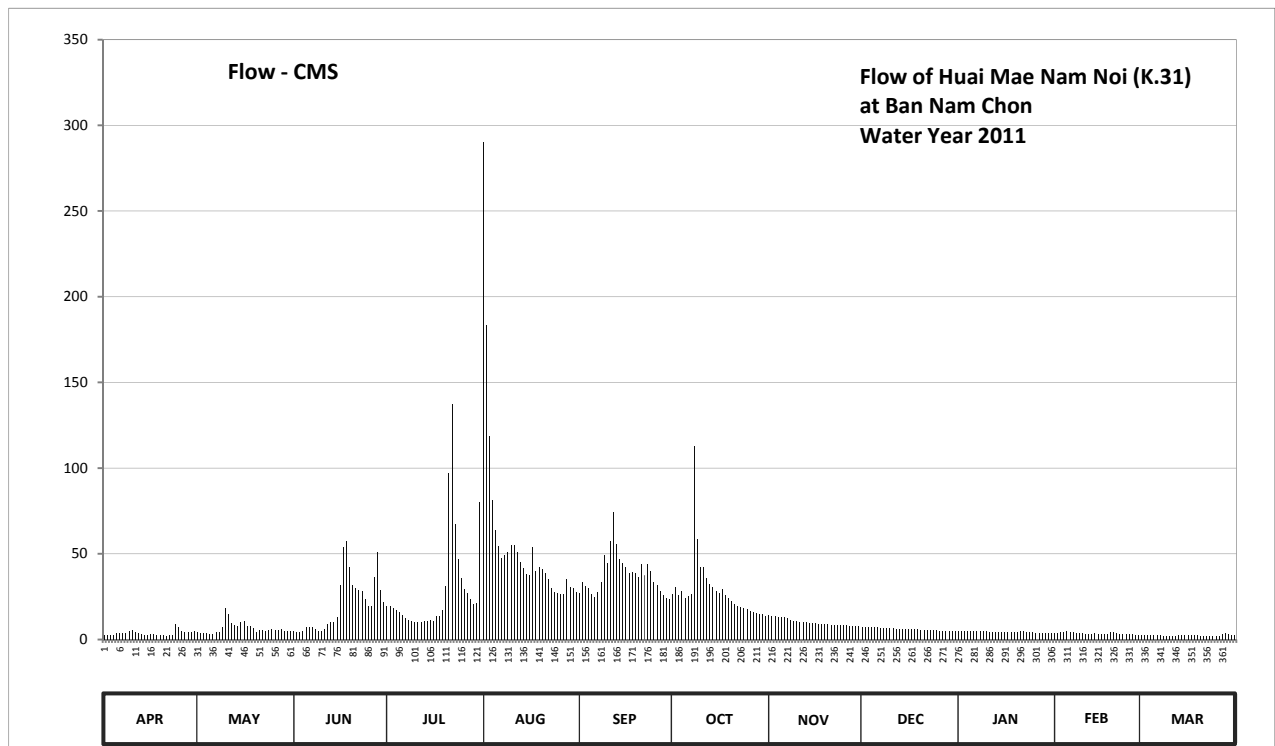
Lat 14 - 26 - 04 N Long 98 - 49 - 20 E

Location : on right bank about 2 kilometers downstream from station K.22A

	Ban	Nam Chon	Amphoe	Sai Yok	Changwat	Kanchanaburi
Drainage Area	799	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+54.200	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 5 meters from the top staff gage.				Elevation	+70.630 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1989 to date					
Rated by Flot	-					
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 55 discharge measurements made in 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	57.17	57.28	57.30	57.80	60.74	57.97	57.96	57.65	57.42	57.31	57.24	57.18	
2	57.17	57.25	57.28	57.80	59.92	58.11	58.04	57.64	57.42	57.30	57.24	57.18	
3	57.16	57.24	57.28	57.77	59.32	58.06	57.95	57.63	57.42	57.30	57.27	57.18	
4	57.18	57.23	57.31	57.73	58.89	58.03	57.99	57.62	57.41	57.30	57.27	57.17	
5	57.23	57.21	57.41	57.70	58.64	57.96	57.91	57.61	57.40	57.31	57.30	57.17	
6	57.23	57.22	57.42	57.65	58.49	57.92	57.93	57.61	57.40	57.30	57.27	57.16	
7	57.24	57.27	57.42	57.60	58.38	57.98	57.96	57.60	57.39	57.30	57.27	57.16	
8	57.23	57.27	57.35	57.56	58.40	58.11	59.26	57.57	57.39	57.30	57.24	57.15	
9	57.30	57.42	57.32	57.54	58.43	58.41	58.56	57.55	57.39	57.29	57.23	57.15	
10	57.33	57.77	57.31	57.53	58.50	58.33	58.29	57.54	57.39	57.29	57.23	57.15	
11	57.26	57.66	57.35	57.53	58.50	58.54	58.28	57.53	57.38	57.28	57.22	57.15	
12	57.23	57.51	57.47	57.53	58.43	58.79	58.16	57.52	57.37	57.28	57.22	57.15	
13	57.22	57.46	57.53	57.55	58.34	58.51	58.08	57.52	57.36	57.27	57.22	57.18	
14	57.19	57.44	57.52	57.55	58.27	58.37	58.04	57.51	57.36	57.27	57.23	57.17	
15	57.19	57.52	57.61	57.56	58.20	58.33	57.99	57.51	57.36	57.27	57.22	57.18	
16	57.20	57.54	58.07	57.55	58.19	58.28	57.97	57.50	57.36	57.27	57.21	57.19	
17	57.22	57.44	58.48	57.63	58.48	58.21	58.02	57.49	57.35	57.27	57.21	57.19	
18	57.19	57.44	58.54	57.64	58.24	58.23	57.94	57.48	57.35	57.27	57.20	57.17	
19	57.17	57.38	58.29	57.73	58.28	58.21	57.90	57.48	57.35	57.26	57.27	57.16	
20	57.16	57.26	58.07	58.06	58.26	58.17	57.87	57.47	57.34	57.27	57.27	57.15	
21	57.15	57.34	58.03	59.08	58.22	58.32	57.83	57.46	57.34	57.29	57.24	57.15	
22	57.16	57.33	58.01	59.51	58.15	58.19	57.80	57.46	57.34	57.29	57.21	57.15	
23	57.18	57.32	58.00	58.69	58.03	58.32	57.78	57.45	57.34	57.27	57.21	57.14	
24	57.47	57.33	57.89	58.37	57.98	58.24	57.77	57.45	57.33	57.27	57.20	57.14	
25	57.42	57.36	57.80	58.16	57.97	58.11	57.75	57.45	57.33	57.26	57.20	57.14	
26	57.30	57.34	57.80	58.02	57.96	58.07	57.72	57.45	57.32	57.25	57.20	57.14	
27	57.28	57.34	58.17	57.97	57.96	57.99	57.70	57.44	57.32	57.25	57.19	57.21	
28	57.27	57.35	58.43	57.89	58.15	57.94	57.69	57.44	57.31	57.24	57.19	57.24	
29	57.28	57.32	58.01	57.83	58.05	57.90	57.67	57.43	57.31	57.24	57.18	57.21	
30	57.30	57.30	57.85	57.84	58.03	57.89	57.66	57.43	57.31	57.24		57.18	
31		57.32		58.87	57.98		57.64		57.31	57.25		57.16	
Mean	57.24	57.37	57.74	57.91	58.43	58.18	57.97	57.52	57.36	57.28	57.23	57.17	
Max	57.47	57.77	58.54	59.51	60.74	58.79	59.26	57.65	57.42	57.31	57.30	57.24	60.74
Min	57.15	57.21	57.28	57.53	57.96	57.89	57.64	57.43	57.31	57.24	57.18	57.14	57.14
Annual Max Momentary Gage Height	61.40		m. (MSL.) ,		at 06.00 Hours , on Aug 1 , 2011								
Zero Gage at Bottom Elevation	54.20		m. (MSL.) ,		River Bed	56.42	m. (MSL)						
Left Bank Elevation	69.10		m. (MSL.) ,										
Right Bank Elevation	66.56		m. (MSL.) ,		Drainage Area	799	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.55	4.44	4.80	19.50	290.10	27.15	26.70	14.25	7.50	5.02	3.72	2.70		
2	2.55	3.90	4.44	19.50	183.40	33.50	30.30	13.90	7.50	4.80	3.72	2.70		
3	2.40	3.72	4.44	18.45	118.50	31.20	26.25	13.55	7.50	4.80	4.26	2.70		
4	2.70	3.54	5.02	17.05	81.30	29.85	28.05	13.20	7.25	4.80	4.26	2.55		
5	3.54	3.18	7.25	16.00	64.10	26.70	24.45	12.85	7.00	5.02	4.80	2.55		
6	3.54	3.36	7.50	14.25	54.40	24.90	25.35	12.85	7.00	4.80	4.26	2.40		
7	3.72	4.26	7.50	12.50	47.80	27.60	26.70	12.50	6.78	4.80	4.26	2.40		
8	3.54	4.26	5.90	11.30	49.00	33.50	112.70	11.60	6.78	4.80	3.72	2.25		
9	4.80	7.50	5.24	10.70	50.80	49.60	58.90	11.00	6.78	4.62	3.54	2.25		
10	5.46	18.45	5.02	10.40	55.00	44.80	42.50	10.70	6.78	4.62	3.54	2.25		
11	4.08	14.60	5.90	10.40	55.00	57.60	42.00	10.40	6.56	4.44	3.36	2.25		
12	3.54	9.80	8.75	10.40	50.80	74.30	36.00	10.10	6.34	4.44	3.36	2.25		
13	3.36	8.50	10.40	11.00	45.40	55.65	32.10	10.10	6.12	4.26	3.36	2.70		
14	2.85	8.00	10.10	11.00	41.50	47.20	30.30	9.80	6.12	4.26	3.54	2.55		
15	2.85	10.10	12.85	11.30	38.00	44.80	28.05	9.80	6.12	4.26	3.36	2.70		
16	3.00	10.70	31.65	11.00	37.50	42.00	27.15	9.50	6.12	4.26	3.18	2.85		
17	3.36	8.00	53.80	13.55	53.80	38.50	29.40	9.25	5.90	4.26	3.18	2.85		
18	2.85	8.00	57.60	13.90	40.00	39.50	25.80	9.00	5.90	4.26	3.00	2.55		
19	2.55	6.56	42.50	17.05	42.00	38.50	24.00	9.00	5.90	4.08	4.26	2.40		
20	2.40	4.08	31.65	31.20	41.00	36.50	22.65	8.75	5.68	4.26	4.26	2.25		
21	2.25	5.68	29.85	96.80	39.00	44.20	20.85	8.50	5.68	4.62	3.72	2.25		
22	2.40	5.46	28.95	137.55	35.50	37.50	19.50	8.50	5.68	4.62	3.18	2.25		
23	2.70	5.24	28.50	67.35	29.85	44.20	18.80	8.25	5.68	4.26	3.18	2.10		
24	8.75	5.46	23.55	47.20	27.60	40.00	18.45	8.25	5.46	4.26	3.00	2.10		
25	7.50	6.12	19.50	36.00	27.15	33.50	17.75	8.25	5.46	4.08	3.00	2.10		
26	4.80	5.68	19.50	29.40	26.70	31.65	16.70	8.25	5.24	3.90	3.00	2.10		
27	4.44	5.68	36.50	27.15	26.70	28.05	16.00	8.00	5.24	3.90	2.85	3.18		
28	4.26	5.90	50.80	23.55	35.50	25.80	15.65	8.00	5.02	3.72	2.85	3.72		
29	4.44	5.24	28.95	20.85	30.75	24.00	14.95	7.75	5.02	3.72	2.70	3.18		
30	4.80	4.80	21.75	21.30	29.85	23.55	14.60	7.75	5.02	3.72		2.70		
31		5.24		79.90	27.60		13.90		5.02	3.90		2.40		
Total	111.98	205.45	610.16	877.50	1775.60	1135.80	886.50	303.60	190.15	135.56	102.42	78.18	6412.90	CMSDAY
Mean	3.73	6.63	20.34	28.31	57.28	37.86	28.60	10.12	6.13	4.37	3.53	2.52	17.52	CMS
Max	8.75	18.45	57.60	137.55	290.10	74.30	112.70	14.25	7.50	5.02	4.80	3.72	290.10	CMS
Min	2.25	3.18	4.44	10.40	26.70	23.55	13.90	7.75	5.02	3.72	2.70	2.10	2.10	CMS
Runoff	9.68	17.75	52.72	75.82	153.41	98.13	76.59	26.23	16.43	11.71	8.85	6.76	554.08	MCM
Momentary Peak	385.50 CMS. at 61.40 m. (MSL.) at 06.00 Hours , on Aug 1 , 2011													
Runoff Yield	21.93	Liters/Second/Square KM.			Momentary Peak Yield			482.478	Liters/Second/Square KM.					

WATER YEAR : 2011

MAE KLONG RIVER BASIN

Huai Bong Ti at Ban Bong Ti , Kanchanaburi (K.32A)

Lat 14 - 16 - 27 N Long 98 - 56 - 04 E

Location : on right bank at Ban Bong Ti.

	Ban	Bong Ti	Amphoe	Sai Yok	Changwat	Kanchanaburi
Drainage Area	518	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+84.191	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 6.50 meters from the top staff gage.				Elevation	+90.239 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
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 86 discharge measurements made in 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	84.48	84.66	84.76	84.84	85.80	84.79	84.72	84.82	84.61	84.55	84.53	84.46	
2	84.47	84.63	84.71	84.85	85.94	84.81	84.71	84.80	84.61	84.55	84.53	84.46	
3	84.47	84.61	84.87	84.82	85.87	84.84	84.69	84.79	84.60	84.55	84.53	84.46	
4	84.49	84.60	85.06	84.81	85.59	84.80	84.69	84.78	84.60	84.54	84.53	84.46	
5	84.50	84.58	84.90	84.96	85.38	84.77	84.68	84.77	84.60	84.54	84.52	84.45	
6	84.51	84.56	84.81	85.24	85.24	84.75	84.76	84.76	84.60	84.54	84.52	84.45	
7	84.49	84.56	84.77	84.97	85.09	84.76	84.99	84.74	84.60	84.54	84.52	84.45	
8	84.54	84.58	84.73	84.87	85.02	84.78	85.97	84.72	84.59	84.53	84.52	84.45	
9	84.56	84.61	84.70	84.81	84.98	84.99	86.04	84.72	84.59	84.53	84.51	84.44	
10	84.76	84.65	84.69	84.78	84.98	85.01	86.13	84.71	84.59	84.53	84.51	84.44	
11	84.68	84.67	84.67	84.75	84.95	85.13	86.16	84.69	84.59	84.52	84.51	84.44	
12	84.60	84.65	84.66	84.74	84.94	85.83	85.98	84.69	84.59	84.52	84.50	84.44	
13	84.55	84.65	84.66	84.73	84.92	85.64	85.72	84.69	84.59	84.52	84.50	84.43	
14	84.53	84.69	84.67	84.70	84.90	85.44	85.79	84.68	84.58	84.52	84.50	84.43	
15	84.72	84.85	84.68	84.69	84.89	85.30	85.87	84.67	84.58	84.52	84.50	84.69	
16	84.64	84.93	84.88	84.68	85.01	85.15	85.86	84.67	84.58	84.52	84.49	84.60	
17	84.72	84.90	84.89	84.68	85.32	85.07	86.08	84.67	84.58	84.52	84.49	84.55	
18	84.63	84.89	85.01	84.66	85.17	85.01	85.83	84.66	84.57	84.51	84.48	84.55	
19	84.56	84.77	85.06	84.66	85.08	84.96	85.61	84.66	84.57	84.51	84.48	84.55	
20	84.53	84.71	84.93	84.67	85.03	84.91	85.45	84.65	84.57	84.51	84.49	84.54	
21	84.52	84.68	84.87	84.76	84.99	84.87	85.31	84.65	84.57	84.55	84.49	84.52	
22	84.68	84.65	84.85	85.11	84.94	84.84	85.21	84.64	84.57	84.57	84.49	84.50	
23	84.62	84.64	84.82	85.10	84.90	84.83	85.08	84.63	84.57	84.57	84.49	84.49	
24	85.05	84.63	84.79	84.99	84.87	84.82	85.03	84.63	84.57	84.56	84.49	84.48	
25	84.88	84.74	84.76	84.94	84.84	84.80	84.98	84.63	84.57	84.56	84.48	84.47	
26	84.77	84.68	84.74	84.91	84.82	84.78	84.94	84.63	84.56	84.55	84.48	84.48	
27	84.85	84.75	84.93	84.89	84.81	84.76	84.91	84.62	84.58	84.54	84.48	84.49	
28	84.73	84.72	85.19	84.83	84.79	84.75	84.88	84.62	84.56	84.54	84.47	84.48	
29	84.74	84.68	85.00	84.80	84.88	84.74	84.88	84.62	84.55	84.54	84.47	84.51	
30	84.69	84.65	84.89	84.77	84.83	84.73	84.86	84.61	84.55	84.53		84.49	
31		84.81		84.76	84.81		84.84		84.55	84.53		84.48	
Mean	84.63	84.69	84.83	84.83	85.08	84.96	85.31	84.69	84.58	84.54	84.50	84.49	
Max	85.05	84.93	85.19	85.24	85.94	85.83	86.16	84.82	84.61	84.57	84.53	84.69	86.16
Min	84.47	84.56	84.66	84.66	84.79	84.73	84.68	84.61	84.55	84.51	84.47	84.43	84.43
Annual Max Momentary Gage Height	86.55		m. (MSL.) ,		at 16.00 Hours , on Oct 8 , 2011								
Zero Gage at Bottom Elevation	84.19		m. (MSL.) ,		River Bed	84.56	m. (MSL)						
Left Bank Elevation	90.38		m. (MSL.) ,										
Right Bank Elevation	90.71		m. (MSL.) ,		Drainage Area	518	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.16	1.12	1.88	2.60	18.20	2.12	1.56	2.40	0.77	0.45	0.35	0.12		
2	0.14	0.91	1.48	2.70	21.50	2.30	1.48	2.20	0.77	0.45	0.35	0.12		
3	0.14	0.77	2.90	2.40	19.81	2.60	1.33	2.12	0.70	0.45	0.35	0.12		
4	0.18	0.70	4.98	2.30	13.80	2.20	1.33	2.04	0.70	0.40	0.35	0.12		
5	0.20	0.60	3.20	3.80	9.86	1.96	1.26	1.96	0.70	0.40	0.30	0.10		
6	0.25	0.50	2.30	7.60	7.60	1.80	1.88	1.88	0.70	0.40	0.30	0.10		
7	0.18	0.50	1.96	3.90	5.37	1.88	4.10	1.72	0.70	0.40	0.30	0.10		
8	0.40	0.60	1.64	2.90	4.46	2.04	22.25	1.56	0.65	0.35	0.30	0.10		
9	0.50	0.77	1.40	2.30	4.00	4.10	24.00	1.56	0.65	0.35	0.25	0.08		
10	1.88	1.05	1.33	2.04	4.00	4.33	26.31	1.48	0.65	0.35	0.25	0.08		
11	1.26	1.19	1.19	1.80	3.70	5.95	27.12	1.33	0.65	0.30	0.25	0.08		
12	0.70	1.05	1.12	1.72	3.60	18.89	22.50	1.33	0.65	0.30	0.20	0.08		
13	0.45	1.05	1.12	1.64	3.40	14.80	16.44	1.33	0.65	0.30	0.20	0.06		
14	0.35	1.33	1.19	1.40	3.20	10.92	17.98	1.26	0.60	0.30	0.20	0.06		
15	1.56	2.70	1.26	1.33	3.10	8.50	19.81	1.19	0.60	0.30	0.20	1.33		
16	0.98	3.50	3.00	1.26	4.33	6.25	19.58	1.19	0.60	0.30	0.18	0.70		
17	1.56	3.20	3.10	1.26	8.84	5.11	25.00	1.19	0.60	0.30	0.18	0.45		
18	0.91	3.10	4.33	1.12	6.55	4.33	18.89	1.12	0.55	0.25	0.16	0.45		
19	0.50	1.96	4.98	1.12	5.24	3.80	14.20	1.12	0.55	0.25	0.16	0.45		
20	0.35	1.48	3.50	1.19	4.59	3.30	11.10	1.05	0.55	0.25	0.18	0.40		
21	0.30	1.26	2.90	1.88	4.10	2.90	8.67	1.05	0.55	0.45	0.18	0.30		
22	1.26	1.05	2.70	5.65	3.60	2.60	7.15	0.98	0.55	0.55	0.18	0.20		
23	0.84	0.98	2.40	5.50	3.20	2.50	5.24	0.91	0.55	0.55	0.18	0.18		
24	4.85	0.91	2.12	4.10	2.90	2.40	4.59	0.91	0.55	0.50	0.18	0.16		
25	3.00	1.72	1.88	3.60	2.60	2.20	4.00	0.91	0.55	0.50	0.16	0.14		
26	1.96	1.26	1.72	3.30	2.40	2.04	3.60	0.91	0.50	0.45	0.16	0.16		
27	2.70	1.80	3.50	3.10	2.30	1.88	3.30	0.84	0.60	0.40	0.16	0.18		
28	1.64	1.56	6.85	2.50	2.12	1.80	3.00	0.84	0.50	0.40	0.14	0.16		
29	1.72	1.26	4.20	2.20	3.00	1.72	3.00	0.84	0.45	0.40	0.14	0.25		
30	1.33	1.05	3.10	1.96	2.50	1.64	2.80	0.77	0.45	0.35		0.18		
31		2.30		1.88	2.30		2.60		0.45	0.35		0.16		
Total	32.25	43.23	79.23	82.05	186.17	128.86	326.07	39.99	18.69	11.75	6.49	7.17	961.95	CMSDAY
Mean	1.08	1.39	2.64	2.65	6.01	4.30	1							

WATER YEAR : 2011

MAE KLONG RIVER BASIN

Khwae Yai River at Ban Nong Bua , Kanchanaburi (K.35A)

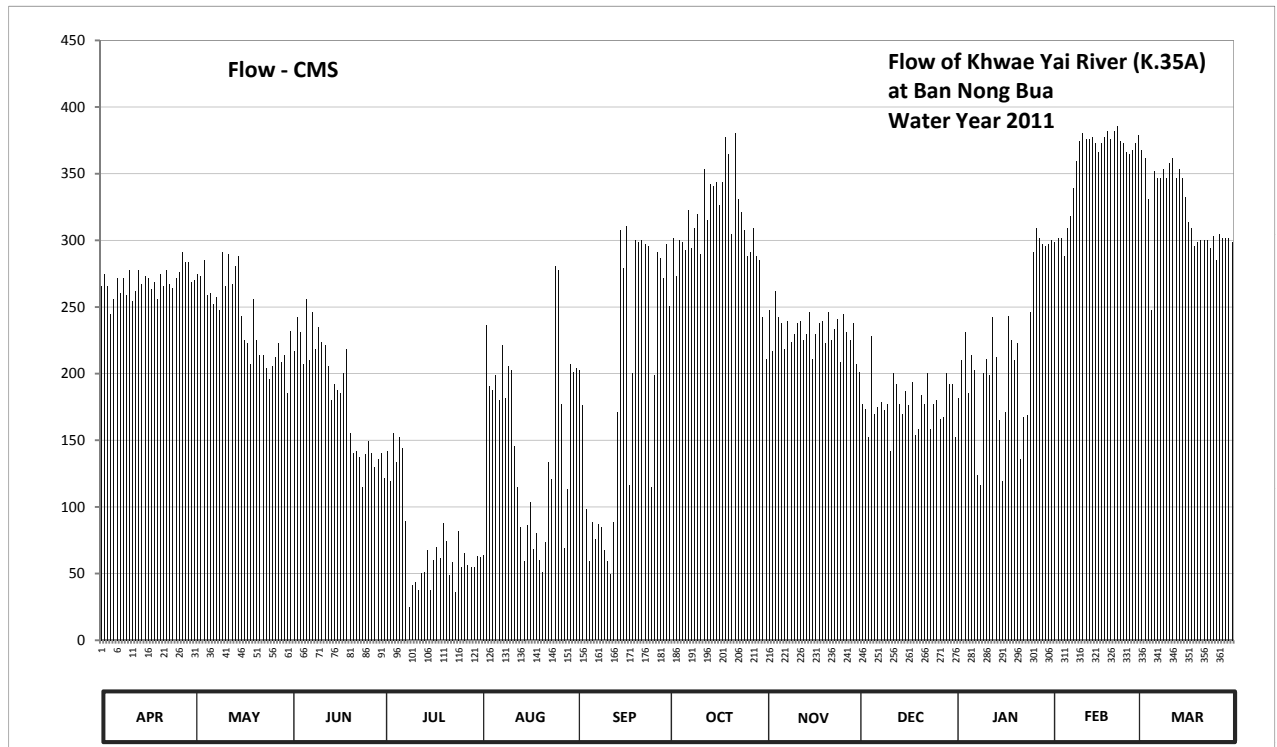
Lat 14 - 03 - 22 N Long 99 - 27 - 32 E

Location : on left bank at Ban Nong Bua.

	Ban	Nong Bua	Amphoe	Mueang	Changwat	Kanchanaburi
Drainage Area	14,444	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+21.498	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 3 meters from the third staff gage.				Elevation	+26.975 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1984 - 1985 , 1987 to date					
Rated by Flot	-					
Rated by Current Meter	1984 - 1985 , 1987 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow regulated by Sri Nakarindra Dam.					
	Stage-discharge relation defined by 35 discharge measurements made in 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.77	25.80	25.53	24.67	24.06	25.33	25.66	25.38	25.31	24.93	26.00	26.50	
2	25.83	25.83	25.42	24.84	24.08	25.32	26.01	25.64	25.13	25.16	25.99	26.43	
3	25.77	25.82	25.60	24.65	25.56	25.12	25.82	25.42	25.10	25.37	26.01	26.39	
4	25.62	25.90	25.52	24.95	25.23	24.45	26.00	25.74	24.93	25.52	26.01	26.20	
5	25.70	25.72	25.35	24.77	25.21	24.03	25.99	25.60	25.50	25.19	25.92	25.64	
6	25.81	25.73	25.70	24.93	25.29	24.35	25.95	25.57	25.07	25.40	26.06	26.33	
7	25.73	25.67	25.37	24.86	25.15	24.21	26.15	25.43	25.11	25.32	26.12	26.30	
8	25.81	25.71	25.63	24.36	25.45	24.33	25.96	25.58	25.14	24.69	26.25	26.30	
9	25.72	25.64	25.43	23.57	25.16	24.31	26.06	25.47	25.09	24.62	26.38	26.34	
10	25.85	25.94	25.55	23.80	25.34	24.12	26.13	25.51	25.13	25.30	26.47	26.30	
11	25.69	25.77	25.47	23.83	25.32	24.03	25.93	25.57	24.84	25.38	26.51	26.37	
12	25.74	25.93	25.45	23.75	24.87	23.91	26.34	25.58	25.30	25.29	26.48	26.39	
13	25.85	25.78	25.34	23.92	24.61	24.35	26.10	25.48	25.24	25.60	26.48	26.30	
14	25.78	25.87	25.15	23.93	24.31	25.08	26.27	25.51	25.13	25.39	26.49	26.34	
15	25.82	25.92	25.24	24.12	24.03	26.05	26.26	25.63	25.07	25.03	26.46	26.30	
16	25.81	25.61	25.21	23.75	24.32	25.86	26.28	25.38	25.20	24.65	26.42	26.21	
17	25.75	25.48	25.19	24.04	24.50	26.07	26.17	25.51	25.12	25.08	26.46	26.09	
18	25.79	25.46	25.30	24.15	24.13	24.62	26.28	25.57	25.25	25.61	26.49	26.06	
19	25.70	25.35	25.43	24.05	24.26	25.30	26.49	25.58	24.94	25.48	26.52	25.97	
20	25.83	25.70	24.95	24.34	24.04	26.00	26.41	25.46	24.98	25.37	26.48	25.99	
21	25.77	25.48	24.83	24.20	23.93	25.99	26.03	25.63	25.18	25.46	26.52	26.00	
22	25.85	25.40	24.84	23.90	24.19	26.00	26.51	25.48	25.13	24.79	26.54	26.00	
23	25.78	25.40	24.80	24.02	24.77	25.98	26.20	25.54	25.30	25.05	26.47	26.00	
24	25.76	25.33	24.61	23.73	24.66	25.97	26.14	25.59	24.98	25.06	26.46	25.96	
25	25.81	25.27	24.82	24.28	25.87	24.61	26.05	25.36	25.13	25.63	26.42	26.02	
26	25.84	25.34	24.90	23.97	25.85	25.29	25.92	25.62	25.15	25.94	26.41	25.90	
27	25.94	25.39	24.83	24.10	25.13	25.94	25.94	25.52	25.04	26.06	26.43	26.03	
28	25.89	25.46	24.74	23.99	24.14	25.91	26.06	25.48	25.05	26.01	26.46	26.01	
29	25.89	25.36	24.79	23.97	24.59	25.81	25.92	25.57	25.30	25.98	26.45	26.01	
30	25.79	25.40	24.83	23.97	25.35	25.98	25.90	25.35	25.24	25.97		26.01	
31		25.19		24.07	25.31		25.60		25.24	25.98		25.99	
Mean	25.79	25.60	25.19	24.18	24.80	25.14	26.08	25.52	25.14	25.36	26.35	26.15	
Max	25.94	25.94	25.70	24.95	25.87	26.07	26.51	25.74	25.50	26.06	26.54	26.50	26.54
Min	25.62	25.19	24.61	23.57	23.93	23.91	25.60	25.35	24.84	24.62	25.92	25.64	23.57
Annual Max Momentary Gage Height	26.83		m. (MSL.) ,		at 02.00 Hours , on Oct 21 , 2011								
Zero Gage at Bottom Elevation	21.50		m. (MSL.) ,		River Bed	22.61	m. (MSL)						
Left Bank Elevation	26.95		m. (MSL.) ,										
Right Bank Elevation	27.10		m. (MSL.) ,		Drainage Area	14444	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	265.80	270.00	232.20	121.70	62.10	204.20	250.40	211.20	201.40	152.60	300.00	379.00		
2	274.50	274.50	216.80	141.80	63.80	202.80	301.50	247.60	177.40	181.30	298.50	367.80		
3	265.80	273.00	242.00	119.50	236.40	176.10	273.00	216.80	173.50	209.80	301.50	361.40		
4	244.80	285.00	230.80	155.00	190.55	98.50	300.00	261.60	152.60	230.80	301.50	331.00		
5	256.00	258.80	207.00	133.40	187.85	59.55	298.50	242.00	228.00	185.20	288.00	247.60		
6	271.50	260.20	256.00	152.60	198.65	88.75	292.50	237.80	169.75	214.00	309.00	351.80		
7	260.20	251.80	209.80	144.20	180.00	75.45	323.00	218.20	174.80	202.80	318.20	347.00		
8	271.50	257.40	246.20	89.70	221.00	86.85	294.00	239.20	178.70	123.90	339.00	347.00		
9	258.80	247.60	218.20	24.70	181.30	84.95	309.00	223.80	172.25	116.20	359.80	353.40		
10	277.50	291.00	235.00	41.00	205.60	67.30	319.80	229.40	177.40	200.00	374.20	347.00		
11	254.60	265.80	223.80	43.40	202.80	59.55	289.50	237.80	141.80	211.20	380.60	358.20		
12	261.60	289.50	221.00	37.25	145.40	49.80	353.40	239.20	200.00	198.65	375.80	361.40		
13	277.50	267.20	205.60	50.60	115.10	88.75	315.00	225.20	191.90	242.00	375.80	347.00		
14	267.20	280.50	180.00	51.40	84.95	171.00	342.20	229.40	177.40	212.60	377.40	353.40		
15	273.00	288.00	191.90	67.30	59.55	307.50	340.60	246.20	169.75	164.75	372.60	347.00		
16	271.50	243.40	187.85	37.25	85.90	279.00	343.80	211.20	186.50	119.50	366.20	332.60		
17	263.00	225.20	185.20	60.40	103.50	310.50	326.20	229.40	176.10	171.00	372.60	313.50		
18	268.60	222.40	200.00	70.00	68.20	116.20	343.80	237.80	193.25	243.40	377.40	309.00		
19	256.00	207.00	218.20	61.25	80.20	200.00	377.40	239.20	153.80	225.20	382.20	295.50		
20	274.50	256.00	155.00	87.80	60.40	300.00	364.60	222.40	158.60	209.80	375.80	298.50		
21	265.80	225.20	140.60	74.50	51.40	298.50	304.50	246.20	183.90	222.40	382.20	300.00		
22	277.50	214.00	141.80	49.00	73.60	300.00	380.60	225.20	177.40	135.80	385.40	300.00		
23	267.20	214.00	137.00	58.70	133.40	297.00	331.00	233.60	200.00	167.25	374.20	300.00		
24	264.40	204.20	115.10	35.75	120.60	295.50	321.40	240.60	158.60	168.50	372.60	294.00		
25	271.50	195.95	139.40	82.10	280.50	115.10	307.50	208.40	177.40	246.20	366.20	303.00		
26	276.00	205.60	149.00	54.60	277.50	198.65	288.00	244.80	180.00	291.00	364.60	285.00		
27	291.00	212.60	140.60	65.50	177.40	291.00	291.00	230.80	166.00	309.00	367.80	304.50		
28	283.50	222.40	129.80	56.20	69.10	286.50	309.00	225.20	167.25	301.50	372.60	301.50		
29	283.50	208.40	135.80	54.60	112.95	271.50	288.00	237.80	200.00	297.00	371.00	301.50		
30	268.60	214.00	140.60	54.60	207.00	297.00	285.00	207.00	191.90	295.50		301.50		
31		185.2		62.95	201.40		242.00		191.90	297.00		298.50		
Total	8062.90	7515.85	5632.25	2338.75	4438.10	5677.50	9706.20	6945.00	5549.25	6545.85	10302.70	10038.60	82752.95	CMSDAY
Mean	268.76	242.45	187.74	75.44	143.16	189.25	313.10	231.50	179.01	211.16	355.27	323.83	226.10	CMS
Max	291.00	291.00	256.00	155.00	280.50	310.50	380.60	261.60	228.00	309.00	385.40	379.00	385.40	CMS
Min	244.80	185.20	115.10	24.70	51.40	49.80	242.00	207.00	141.80	116.20	288.00	247.60	24.70	CMS
Runoff	696.64	649.37	486.63	202.07	383.45	490.54	838.62	600.05	479.46	565.56	890.15	867.34	7149.86	MCM
Momentary Peak	431.80	CMS. at 26.83 m. (MSL.) at 02.00 Hours , on Oct 21 , 2011												
Runoff Yield	15.65	Liters/Second/Square KM.		Momentary Peak Yield			29.894	Liters/Second/Square KM.						

WATER YEAR : 2011

MAE KLONG RIVER BASIN

Khwae Noi River at Ban Wang Yen , Kanchanaburi (K.37)

Lat 13 - 55 - 54 N Long 99 - 25 - 38 E

Location : on left bank at Ban Wang Yen.

	Ban	Wang Yen	Amphoe	Mueang	Changwat	Kanchanaburi
Drainage Area	10,557	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+19.840	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 5 meters from the automatic gage building.				Elevation	+33.266 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
Rated by Current Meter	1984 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow regulated by Khao Laem Dam.					
	Stage-discharge relation defined by 40 discharge measurements made in 1911					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.39	23.44	23.37	23.25	24.48	25.20	23.80	23.80	23.84	23.87	23.36	24.14	
2	23.36	23.43	23.41	23.20	25.60	25.24	23.76	23.63	23.92	24.06	23.38	24.17	
3	23.35	23.30	23.33	23.16	26.01	25.20	23.94	23.58	23.93	23.77	23.35	24.19	
4	23.38	23.38	23.42	23.14	25.66	25.21	23.98	23.56	23.90	24.30	23.37	24.16	
5	23.24	23.45	23.56	23.12	25.41	25.01	24.04	23.53	23.70	24.39	23.39	24.14	
6	23.43	23.23	23.38	23.19	25.50	24.21	24.04	23.76	23.88	24.43	23.37	24.33	
7	23.39	23.09	23.34	23.26	25.41	24.36	24.24	23.82	23.93	24.45	23.39	24.12	
8	23.36	23.13	23.38	23.15	25.42	24.38	24.88	23.78	23.94	24.54	23.94	24.17	
9	23.39	23.05	23.31	23.16	25.34	24.48	25.77	24.00	23.93	24.24	24.17	24.20	
10	23.34	23.05	23.26	23.22	25.38	24.57	25.70	23.98	23.88	23.53	24.24	24.18	
11	23.37	23.34	23.24	23.21	25.50	24.61	25.10	24.02	23.91	23.51	24.28	24.22	
12	23.36	23.47	23.24	23.18	25.56	24.85	25.35	24.12	23.85	23.44	24.32	24.21	
13	23.55	23.48	23.25	23.22	25.45	25.26	25.33	24.02	23.74	23.43	24.27	24.09	
14	23.48	23.49	23.25	23.34	25.31	25.18	25.11	23.99	23.94	23.44	24.08	24.09	
15	23.43	23.54	23.17	23.50	25.36	24.98	24.70	24.00	23.93	23.36	24.12	24.19	
16	23.48	23.50	23.11	23.76	25.31	25.25	24.66	23.91	23.90	23.40	24.15	24.36	
17	23.49	23.56	23.17	23.80	25.33	25.32	24.73	23.69	23.86	23.40	24.18	24.56	
18	23.50	23.52	23.32	23.86	25.46	25.28	24.88	23.82	23.93	23.41	24.18	24.51	
19	23.48	23.41	23.40	23.91	25.38	25.03	25.15	23.91	23.85	23.45	24.17	24.44	
20	23.45	23.38	23.45	23.90	25.30	24.75	24.99	23.92	23.83	23.50	24.12	24.40	
21	23.34	23.35	23.32	23.73	25.31	25.18	24.89	23.89	23.92	23.48	24.06	24.46	
22	23.38	23.29	23.29	24.19	25.33	25.17	24.81	23.84	23.90	23.46	24.14	24.35	
23	23.35	23.25	23.26	24.65	25.30	25.16	24.58	23.91	23.88	23.43	24.15	24.32	
24	23.52	23.20	23.20	24.58	25.31	25.28	24.47	23.90	23.86	23.35	24.16	24.33	
25	23.45	23.15	23.19	24.48	25.19	25.21	24.34	23.89	23.85	23.45	24.19	24.35	
26	23.45	23.17	23.14	24.27	25.27	25.02	24.34	23.89	23.87	23.41	24.18	24.46	
27	23.42	23.27	23.07	24.28	25.29	24.67	24.27	23.85	23.86	23.36	24.13	24.45	
28	23.45	23.38	23.17	24.21	25.16	24.94	24.22	23.85	23.87	23.35	24.08	24.51	
29	23.49	23.35	23.56	24.24	24.93	24.86	24.26	23.92	23.89	23.40	24.11	24.49	
30	23.51	23.38	23.42	24.14	24.19	24.12	24.28	23.84	23.86				

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	112.45	120.40	109.35	86.25	301.20	440.00	178.00	178.00	184.80	189.90	107.80	237.20	
2	107.80	118.80	115.60	74.00	522.00	448.00	171.60	150.80	198.40	222.80	110.90	242.60	
3	106.25	98.50	103.15	72.40	608.65	440.00	201.80	142.80	200.10	173.20	106.25	246.20	
4	110.90	110.90	117.20	71.60	534.60	442.00	208.60	139.60	195.00	267.00	109.35	240.80	
5	83.80	122.00	139.60	70.80	482.55	402.00	219.20	134.80	162.00	284.10	112.45	237.20	
6	118.80	81.35	110.90	73.60	501.00	249.90	219.20	171.60	191.60	291.70	109.35	272.70	
7	112.45	68.70	104.70	88.70	482.55	278.40	255.60	181.40	200.10	295.50	112.45	233.60	
8	107.80	71.20	110.90	72.00	484.60	282.20	377.20	174.80	201.80	312.60	201.80	242.60	
9	112.45	63.50	100.05	72.40	468.20	301.20	557.70	212.00	200.10	255.60	242.60	248.00	
10	104.70	63.50	88.70	78.90	476.40	318.30	543.00	208.60	191.60	134.80	255.60	244.40	
11	109.35	104.70	83.80	76.45	501.00	325.90	420.00	215.60	196.70	131.60	263.20	251.80	
12	107.80	125.20	83.80	73.20	513.60	371.50	470.25	233.60	186.50	120.40	270.80	249.90	
13	138.00	126.80	86.25	78.90	490.75	452.00	466.15	215.60	168.40	118.80	261.30	228.20	
14	126.80	128.40	86.25	104.70	462.05	436.00	422.00	210.30	201.80	120.40	226.40	228.20	
15	118.80	136.40	72.80	130.00	472.30	396.20	343.00	212.00	200.10	107.80	233.60	246.20	
16	126.80	130.00	70.40	171.60	462.05	450.00	335.40	196.70	195.00	114.00	239.00	278.40	
17	128.40	139.60	72.80	178.00	466.15	464.10	348.70	160.40	188.20	114.00	244.40	316.40	
18	130.00	133.20	101.60	188.20	492.80	456.00	377.20	181.40	200.10	115.60	244.40	306.90	
19	126.80	115.60	114.00	196.70	476.40	406.00	430.00	196.70	186.50	122.00	242.60	293.60	
20	122.00	110.90	122.00	195.00	460.00	352.50	398.10	198.40	183.10	130.00	233.60	286.00	
21	104.70	106.25	101.60	166.80	462.05	436.00	379.10	193.30	198.40	126.80	222.80	297.40	
22	110.90	96.05	96.05	246.20	466.15	434.00	363.90	184.80	195.00	123.60	237.20	276.50	
23	106.25	86.25	88.70	333.50	460.00	432.00	320.20	196.70	191.60	118.80	239.00	270.80	
24	133.20	74.00	74.00	320.20	462.05	456.00	299.30	195.00	188.20	106.25	240.80	272.70	
25	122.00	72.00	73.60	301.20	438.00	442.00	274.60	193.30	186.50	122.00	246.20	276.50	
26	122.00	72.80	71.60	261.30	454.00	404.00	274.60	193.30	189.90	115.60	244.40	297.40	
27	117.20	91.15	66.10	263.20	458.00	337.30	261.30	186.50	188.20	107.80	235.40	295.50	
28	122.00	110.90	72.80	249.90	432.00	388.60	251.80						

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Huai Lin Thin at Ban Nong Bang , Kanchanaburi (K.38A)**

Lat 14 - 34 - 28 N Long 98 - 49 - 07 E

Location : on left bank at KM. 95+700 on Kanchanaburi - Thong Pha Phum Highway.

	Ban	Nong Bang	Amphoe	Thong Pha Phum	Changwat	Kanchanaburi
Drainage Area	122	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+90.019	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+95.463 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2001 to date					
Rating Operation						
Period of Rating	2001 to date					
Rated by Flot	-					
Rated by Current Meter	2001 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	90.50	90.54	90.63	90.70	91.69	90.78	90.88	90.85	90.70	90.63	90.60	90.56	
2	90.50	90.54	90.62	90.70	91.47	90.85	90.88	90.85	90.70	90.63	90.60	90.56	
3	90.50	90.54	90.62	90.69	91.24	90.79	90.87	90.84	90.69	90.63	90.66	90.56	
4	90.51	90.54	90.62	90.68	91.06	90.79	90.91	90.82	90.68	90.64	90.64	90.55	
5	90.50	90.69	90.63	90.69	91.00	90.77	90.90	90.82	90.68	90.64	90.62	90.55	
6	90.52	90.64	90.69	90.66	90.96	90.79	90.88	90.82	90.67	90.64	90.61	90.55	
7	90.52	90.64	90.62	90.66	90.91	90.77	91.38	90.85	90.67	90.63	90.61	90.55	
8	90.52	90.64	90.61	90.66	90.85	90.81	91.32	90.84	90.67	90.63	90.60	90.55	
9	90.52	90.68	90.60	90.66	90.80	90.78	91.38	90.85	90.66	90.62	90.60	90.55	
10	90.52	90.71	90.60	90.67	90.80	90.82	91.31	90.84	90.66	90.62	90.60	90.54	
11	90.53	90.65	90.65	90.65	90.80	91.05	91.19	90.83	90.66	90.62	90.60	90.54	
12	90.53	90.65	90.62	90.68	90.80	91.38	91.13	90.82	90.65	90.62	90.60	90.54	
13	90.53	90.63	90.62	90.64	90.80	91.13	91.10	90.80	90.65	90.62	90.59	90.54	
14	90.53	90.62	90.64	90.64	90.82	91.05	91.09	90.80	90.65	90.61	90.59	90.54	
15	90.53	90.60	90.63	90.64	90.90	91.02	91.13	90.80	90.65	90.61	90.59	90.65	
16	90.52	90.60	90.66	90.66	90.85	91.02	91.24	90.80	90.64	90.61	90.59	90.57	
17	90.52	90.60	90.72	90.66	90.97	91.00	91.10	90.79	90.64	90.60	90.58	90.56	
18	90.52	90.66	90.71	90.65	90.87	91.04	91.06	90.78	90.64	90.60	90.58	90.55	
19	90.51	90.64	90.75	90.65	90.85	91.07	91.02	90.78	90.64	90.60	90.59	90.55	
20	90.51	90.64	90.72	90.71	90.82	91.00	91.02	90.77	90.64	90.59	90.59	90.54	
21	90.51	90.62	90.69	90.96	90.80	90.96	91.01	90.77	90.64	90.59	90.59	90.54	
22	90.51	90.60	90.69	90.84	90.78	91.01	90.98	90.75	90.64	90.59	90.58	90.54	
23	90.51	90.60	90.70	90.80	90.77	91.00	90.95	90.74	90.64	90.59	90.57	90.54	
24	90.55	90.60	90.67	90.75	90.77	91.00	90.93	90.72	90.63	90.59	90.57	90.53	
25	90.55	90.58	90.66	90.71	90.75	91.00	90.92	90.72	90.63	90.59	90.57	90.53	
26	90.55	90.71	90.66	90.70	90.75	90.98	90.91	90.71	90.63	90.59	90.56	90.53	
27	90.59	90.68	90.67	90.70	90.75	90.94	90.89	90.71	90.63	90.59	90.56	90.54	
28	90.57	90.66	90.68	90.70	90.77	90.92	90.88	90.71	90.63	90.59	90.56	90.54	
29	90.54	90.64	90.67	90.70	90.79	90.87	90.86	90.70	90.63	90.59	90.56	90.53	
30	90.54	90.62	90.68	90.75	90.77	90.89	90.86	90.70	90.63	90.59		90.53	
31		90.62		90.94	90.75		90.85		90.63	90.59		90.53	
Mean	90.53	90.63	90.66	90.71	90.89	90.94	91.03	90.79	90.65	90.61	90.59	90.55	
Max	90.59	90.71	90.75	90.96	91.69	91.38	91.38	90.85	90.70	90.64	90.66	90.65	91.69
Min	90.50	90.54	90.60	90.64	90.75	90.77	90.85	90.70	90.63	90.59	90.56	90.53	90.50
Annual Max Momentary Gage Height	92.02		m. (MSL.) ,		at 06.00 Hours , on Aug 1 , 2011								
Zero Gage at Bottom Elevation	90.02		m. (MSL.) ,		River Bed	90.41	m. (MSL)						
Left Bank Elevation	95.42		m. (MSL.) ,										
Right Bank Elevation	94.87		m. (MSL.) ,		Drainage Area	122	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.18	0.64	1.10	12.25	1.66	2.44	2.20	1.10	0.64	0.45	0.27	
2	0.00	0.18	0.58	1.10	8.98	2.20	2.44	2.20	1.10	0.64	0.45	0.27	
3	0.00	0.18	0.58	1.04	5.98	1.73	2.36	2.12	1.04	0.64	0.84	0.27	
4	0.05	0.18	0.58	0.97	4.04	1.73	2.69	1.96	0.97	0.71	0.71	0.23	
5	0.00	1.04	0.64	1.04	3.50	1.59	2.60	1.96	0.97	0.71	0.58	0.23	
6	0.09	0.71	1.04	0.84	3.14	1.73	2.44	1.96	0.91	0.71	0.52	0.23	
7	0.09	0.71	0.58	0.84	2.69	1.59	7.74	2.20	0.91	0.64	0.52	0.23	
8	0.09	0.71	0.52	0.84	2.20	1.88	6.96	2.12	0.91	0.64	0.45	0.23	
9	0.09	0.97	0.45	0.84	1.80	1.66	7.74	2.20	0.84	0.58	0.45	0.23	
10	0.09	1.17	0.45	0.91	1.80	1.96	6.83	2.12	0.84	0.58	0.45	0.18	
11	0.13	0.78	0.78	0.78	1.80	3.95	5.39	2.04	0.84	0.58	0.45	0.18	
12	0.13	0.78	0.58	0.97	1.80	7.74	4.73	1.96	0.78	0.58	0.45	0.18	
13	0.13	0.64	0.58	0.71	1.80	4.73	4.40	1.80	0.78	0.58	0.40	0.18	
14	0.13	0.58	0.71	0.71	1.96	3.95	4.31	1.80	0.78	0.52	0.40	0.18	
15	0.13	0.45	0.64	0.71	2.60	3.68	4.73	1.80	0.78	0.52	0.40	0.78	
16	0.09	0.45	0.84	0.84	2.20	3.68	5.98	1.80	0.71	0.52	0.40	0.32	
17	0.09	0.45	1.24	0.84	3.23	3.50	4.40	1.73	0.71	0.45	0.36	0.27	
18	0.09	0.84	1.17	0.78	2.36	3.86	4.04	1.66	0.71	0.45	0.36	0.23	
19	0.05	0.71	1.45	0.78	2.20	4.13	3.68	1.66	0.71	0.45	0.40	0.23	
20	0.05	0.71	1.24	1.17	1.96	3.50	3.68	1.59	0.71	0.40	0.40	0.18	
21	0.05	0.58	1.04	3.14	1.80	3.14	3.59	1.59	0.71	0.40	0.40	0.18	
22	0.05	0.45	1.04	2.12	1.66	3.59	3.32	1.45	0.71	0.40	0.36	0.18	
23	0.05	0.45	1.10	1.80	1.59	3.50	3.05	1.38	0.71	0.40	0.32	0.18	
24	0.23	0.45	0.91	1.45	1.59	3.50	2.87	1.24	0.64	0.40	0.32	0.13	
25	0.23	0.36	0.84	1.17	1.45	3.50	2.78	1.24	0.64	0.40	0.32	0.13	
26	0.23	1.17	0.84	1.10	1.45	3.32	2.69	1.17	0.64	0.40	0.27	0.13	
27	0.40	0.97	0.91	1.10	1.45	2.96	2.52	1.17	0.64	0.40	0.27	0.18	
28	0.32	0.84	0.97	1.10	1.59	2.78	2.44	1.17	0.64	0.40	0.27	0.18	
29	0.18	0.71	0.91	1.10	1.73	2.36	2.28	1.10	0.64	0.40	0.27	0.13	
30	0.18	0.58	0.97	1.45	1.59	2.52	2.28	1.10	0.64	0.40		0.13	
31		0.58		2.96	1.45		2.20		0.64	0.40		0.13	
Total	3.44	19.56	24.82	36.30	85.64	91.62	119.60	51.49	24.35	15.94	12.24	6.78	491.78 CMSDAY
Mean	0.11	0.63	0.83	1.17	2.76	3.05	3.86	1.72	0.79				

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Huai Ong Thi at Ban Ong Thi , Kanchanaburi (K.39)**

Lat 14 - 42 - 21 N Long 98 - 40 - 19 E

Location : on right bank at KM. 121+600 on Kanchanaburi - Thong Pha Phum Highway.

	Ban	Ong Thi	Amphoe	Thong Pha Phum	Changwat	Kanchanaburi
Drainage Area	51	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+81.783	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 16 meters from the third staff gage.				Elevation	+91.299 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1985 - 1990 , 1996 to date					
Rated by Flot	-					
Rated by Current Meter	1985 - 1990 , 1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 44 discharge measurements made in 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	81.96	81.98	82.05	82.11	82.67	82.33	82.21	82.14	82.07	82.03	82.03	82.01	
2	81.96	81.97	82.04	82.09	82.52	82.32	82.20	82.13	82.07	82.03	82.03	82.01	
3	81.95	81.97	82.03	82.08	82.41	82.29	82.19	82.13	82.06	82.03	82.04	82.00	
4	82.00	81.96	82.02	82.15	82.33	82.29	82.20	82.13	82.06	82.03	82.06	82.00	
5	81.98	82.01	82.02	82.16	82.29	82.24	82.20	82.12	82.06	82.03	82.07	82.00	
6	81.97	81.98	82.01	82.11	82.27	82.26	82.18	82.12	82.06	82.17	82.05	82.00	
7	81.97	81.97	82.01	82.09	82.26	82.25	82.27	82.11	82.05	82.08	82.04	82.00	
8	81.98	81.98	82.01	82.08	82.52	82.31	82.29	82.11	82.05	82.06	82.03	81.99	
9	81.98	82.03	82.01	82.09	82.52	82.44	82.22	82.10	82.05	82.05	82.03	81.99	
10	81.98	82.12	82.01	82.10	82.42	82.35	82.22	82.10	82.05	82.04	82.03	81.99	
11	81.98	82.03	82.02	82.08	82.29	82.53	82.21	82.10	82.05	82.06	82.03	81.98	
12	81.96	82.03	82.01	82.18	82.30	82.55	82.18	82.10	82.05	82.04	82.02	81.99	
13	81.95	82.01	82.01	82.11	82.28	82.41	82.20	82.09	82.05	82.04	82.03	81.99	
14	81.96	82.01	82.03	82.08	82.27	82.32	82.21	82.09	82.05	82.03	82.03	81.98	
15	81.96	82.00	82.02	82.09	82.27	82.34	82.20	82.09	82.04	82.03	82.02	81.99	
16	81.96	81.99	82.09	82.12	82.26	82.34	82.31	82.09	82.04	82.03	82.02	81.99	
17	81.96	81.99	82.07	82.10	82.25	82.29	82.25	82.09	82.04	82.03	82.02	81.99	
18	81.96	81.99	82.18	82.13	82.25	82.29	82.22	82.09	82.04	82.03	82.02	81.99	
19	81.95	82.06	82.11	82.09	82.22	82.27	82.21	82.09	82.04	82.03	82.09	81.98	
20	81.95	82.03	82.10	82.34	82.24	82.27	82.19	82.08	82.04	82.03	82.08	81.98	
21	81.95	82.01	82.11	82.45	82.21	82.30	82.18	82.07	82.04	82.03	82.07	81.98	
22	81.95	82.01	82.11	82.29	82.19	82.26	82.17	82.07	82.04	82.03	82.04	81.98	
23	81.95	82.00	82.10	82.24	82.18	82.24	82.17	82.07	82.04	82.03	82.03	81.98	
24	82.03	81.99	82.07	82.22	82.19	82.24	82.16	82.06	82.04	82.02	82.02	81.97	
25	82.00	81.99	82.07	82.15	82.17	82.23	82.15	82.06	82.04	82.02	82.01	81.97	
26	81.98	82.01	82.05	82.20	82.16	82.23	82.14	82.06	82.04	82.02	82.01	81.99	
27	81.98	82.07	82.36	82.18	82.20	82.22	82.14	82.06	82.03	82.02	82.01	81.99	
28	81.98	82.18	82.24	82.16	82.38	82.25	82.15	82.06	82.03	82.02	82.01	81.99	
29	81.97	82.08	82.22	82.14	82.31	82.22	82.15	82.06	82.03	82.02	82.01	81.99	
30	81.99	82.07	82.14	82.20	82.30	82.21	82.14	82.07	82.03	82.03		81.99	
31		82.07		82.35	82.30		82.14		82.03	82.03		81.98	
Mean	81.97	82.02	82.08	82.16	82.30	82.30	82.20	82.09	82.05	82.04	82.03	81.99	
Max	82.03	82.18	82.36	82.45	82.67	82.55	82.31	82.14	82.07	82.17	82.09	82.01	82.67
Min	81.95	81.96	82.01	82.08	82.16	82.21	82.14	82.06	82.03	82.02	82.01	81.97	81.95
Annual Max Momentary Gage Height	82.98		m. (MSL.) ,		at 18.00 Hours , on Sep 11 , 2011								
Zero Gage at Bottom Elevation	81.78		m. (MSL.) ,		River Bed	81.47	m. (MSL)						
Left Bank Elevation	88.99		m. (MSL.) ,										
Right Bank Elevation	90.28		m. (MSL.) ,		Drainage Area	51	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.06	0.08	0.25	0.46	7.46	2.36	1.10	0.64	0.31	0.19	0.19	0.13	
2	0.06	0.07	0.22	0.37	4.92	2.24	1.00	0.58	0.31	0.19	0.19	0.13	
3	0.05	0.07	0.19	0.34	3.34	1.90	0.94	0.58	0.28	0.19	0.22	0.10	
4	0.10	0.06	0.16	0.70	2.36	1.90	1.00	0.58	0.28	0.19	0.28	0.10	
5	0.08	0.13	0.16	0.76	1.90	1.40	1.00	0.52	0.28	0.19	0.31	0.10	
6	0.07	0.08	0.13	0.46	1.70	1.60	0.88	0.52	0.28	0.82	0.25	0.10	
7	0.07	0.07	0.13	0.37	1.60	1.50	1.70	0.46	0.25	0.34	0.22	0.10	
8	0.08	0.08	0.13	0.34	4.92	2.12	1.90	0.46	0.25	0.28	0.19	0.09	
9	0.08	0.19	0.13	0.37	4.92	3.76	1.20	0.40	0.25	0.25	0.19	0.09	
10	0.08	0.52	0.13	0.40	3.48	2.60	1.20	0.40	0.25	0.22	0.19	0.09	
11	0.08	0.19	0.16	0.34	1.90	5.08	1.10	0.40	0.25	0.28	0.19	0.08	
12	0.06	0.19	0.13	0.88	2.00	5.40	0.88	0.40	0.25	0.22	0.16	0.09	
13	0.05	0.13	0.13	0.46	1.80	3.34	1.00	0.37	0.25	0.22	0.19	0.09	
14	0.06	0.13	0.19	0.34	1.70	2.24	1.10	0.37	0.25	0.19	0.19	0.08	
15	0.06	0.10	0.16	0.37	1.70	2.48	1.00	0.37	0.22	0.19	0.16	0.09	
16	0.06	0.09	0.37	0.52	1.60	2.48	2.12	0.37	0.22	0.19	0.16	0.09	
17	0.06	0.09	0.31	0.40	1.50	1.90	1.50	0.37	0.22	0.19	0.16	0.09	
18	0.06	0.09	0.88	0.58	1.50	1.90	1.20	0.37	0.22	0.19	0.16	0.09	
19	0.05	0.28	0.46	0.37	1.20	1.70	1.10	0.37	0.22	0.19	0.37	0.08	
20	0.05	0.19	0.40	2.48	1.40	1.70	0.94	0.34	0.22	0.19	0.34	0.08	
21	0.05	0.13	0.46	3.90	1.10	2.00	0.88	0.31	0.22	0.19	0.31	0.08	
22	0.05	0.13	0.46	1.90	0.94	1.60	0.82	0.31	0.22	0.19	0.22	0.08	
23	0.05	0.10	0.40	1.40	0.88	1.40	0.82	0.31	0.22	0.19	0.19	0.08	
24	0.19	0.09	0.31	1.20	0.94	1.40	0.76	0.28	0.22	0.16	0.16	0.07	
25	0.10	0.09	0.31	0.70	0.82	1.30	0.70	0.28	0.22	0.16	0.13	0.07	
26	0.08	0.13	0.25	1.00	0.76	1.30	0.64	0.28	0.22	0.16	0.13	0.09	
27	0.08	0.31	2.72	0.88	1.00	1.20	0.64	0.28	0.19	0.16	0.13	0.09	
28	0.08	0.88	1.40	0.76	2.96	1.50	0.70	0.28	0.19	0.16	0.13	0.09	
29	0.07	0.34	1.20	0.64	2.12	1.20	0.70	0.28	0.19	0.16	0.13	0.09	
30	0.09	0.31	0.64	1.00	2.00	1.10	0.64	0.31	0.19	0.19		0.09	
31		0.31		2.60	2.00		0.64		0.19	0.19		0.08	
Total	2.16	5.65	12.97	27.29	68.42	63.60	31.80	11.79	7.33	6.82	5.84	2.80	246.47 CMSDAY
Mean	0.07	0.18	0.43	0.88	2.21	2.12	1.03	0.39	0.24	0.22			

WATER YEAR : 2011

MAE KLONG RIVER BASIN

Huai Diso at Ban Hin Laem , Kanchanaburi (K.50)

Lat 14 - 38 - 39 N Long 98 - 42 - 04 E

Location : on right bank at the bridge on Kanchanaburi - Thong Pha Phum Highway from Tambon Tha Khanun.

	Ban	Hin Laem	Amphoe	Thong Pha Phum	Changwat	Kanchanaburi
Drainage Area	123	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+79.811	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+85.827 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1986 to date					
Rating Operation						
Period of Rating	1987 , 1996 to date					
Rated by Flot	-					
Rated by Current Meter	1987, 1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 43 discharge measurements made in 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	80.46	80.52	80.54	80.68	81.99	81.12	80.82	80.68	80.56	80.50	80.49	80.46	
2	80.46	80.51	80.50	80.66	81.95	81.19	80.79	80.67	80.56	80.50	80.49	80.46	
3	80.46	80.51	80.51	80.62	81.78	81.19	80.77	80.67	80.55	80.50	80.55	80.46	
4	80.48	80.49	80.51	80.61	81.32	81.09	80.83	80.67	80.55	80.52	80.56	80.46	
5	80.48	80.78	80.50	81.19	81.16	81.09	80.87	80.66	80.55	80.52	80.57	80.46	
6	80.49	80.71	80.50	80.73	81.04	80.95	80.78	80.66	80.55	80.81	80.53	80.46	
7	80.49	80.64	80.49	80.65	80.94	80.91	81.41	80.66	80.54	80.64	80.52	80.46	
8	80.49	80.78	80.47	80.63	81.25	81.11	81.16	80.66	80.54	80.55	80.51	80.45	
9	80.48	80.65	80.47	80.63	81.34	81.03	81.34	80.65	80.53	80.51	80.50	80.45	
10	80.50	80.80	80.49	80.62	81.29	82.03	81.12	80.65	80.53	80.51	80.50	80.44	
11	80.50	80.71	80.48	80.69	81.20	82.26	80.87	80.64	80.53	80.52	80.50	80.44	
12	80.49	80.67	80.48	80.73	81.14	82.00	80.82	80.64	80.52	80.52	80.50	80.44	
13	80.49	80.63	80.49	80.65	81.07	81.83	80.88	80.64	80.52	80.51	80.51	80.44	
14	80.48	80.55	80.50	80.62	80.88	81.47	80.82	80.63	80.52	80.51	80.50	80.44	
15	80.46	80.55	80.50	80.72	80.81	81.25	80.91	80.62	80.53	80.51	80.49	80.44	
16	80.45	80.54	80.55	80.68	81.05	81.23	82.09	80.62	80.52	80.50	80.48	80.52	
17	80.44	80.53	80.73	80.66	80.92	81.25	81.24	80.62	80.52	80.50	80.48	80.50	
18	80.43	80.52	80.79	80.64	80.92	81.13	80.97	80.61	80.52	80.50	80.48	80.49	
19	80.42	80.67	80.75	80.63	80.79	81.03	80.90	80.61	80.52	80.50	80.60	80.48	
20	80.42	80.64	80.73	80.71	80.79	80.98	80.83	80.61	80.52	80.50	80.54	80.46	
21	80.42	80.61	80.69	81.73	80.81	80.98	80.81	80.60	80.51	80.50	80.52	80.46	
22	80.41	80.58	80.68	81.56	80.76	81.07	80.79	80.59	80.51	80.49	80.51	80.46	
23	80.50	80.55	80.64	81.22	80.71	80.92	80.78	80.59	80.51	80.49	80.49	80.45	
24	80.49	80.55	80.60	80.93	80.73	80.89	80.76	80.59	80.51	80.49	80.49	80.44	
25	80.47	80.54	80.59	80.78	80.66	80.88	80.74	80.59	80.51	80.49	80.49	80.43	
26	80.46	80.62	80.58	80.80	80.63	80.87	80.73	80.59	80.50	80.49	80.49	80.42	
27	80.45	80.78	81.09	80.83	80.61	80.83	80.73	80.59	80.50	80.49	80.49	80.46	
28	80.44	80.70	81.12	80.75	81.22	80.88	80.71	80.59	80.50	80.49	80.48	80.45	
29	80.44	80.68	80.85	80.69	81.99	80.82	80.70	80.57	80.50	80.49	80.46	80.45	
30	80.48	80.62	80.74	80.99	81.29	80.79	80.70	80.56	80.50				

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	0.49	0.58	1.33	14.80	4.57	2.24	1.33	0.68	0.40	0.37	0.28	
2	0.28	0.45	0.40	1.21	14.22	5.17	2.03	1.27	0.68	0.40	0.37	0.28	
3	0.28	0.45	0.45	0.98	11.86	5.17	1.90	1.27	0.63	0.40	0.63	0.28	
4	0.34	0.37	0.45	0.92	6.41	4.32	2.32	1.27	0.63	0.49	0.68	0.28	
5	0.34	1.97	0.40	5.17	4.92	4.32	2.60	1.21	0.63	0.49	0.72	0.28	
6	0.37	1.52	0.40	1.65	3.92	3.21	1.97	1.21	0.63	2.17	0.54	0.28	
7	0.37	1.10	0.37	1.16	3.13	2.90	7.34	1.21	0.58	1.10	0.49	0.28	
8	0.37	1.97	0.31	1.04	5.73	4.49	4.92	1.21	0.58	0.63	0.45	0.25	
9	0.34	1.16	0.31	1.04	6.61	3.84	6.61	1.16	0.54	0.45	0.40	0.25	
10	0.40	2.10	0.37	0.98	6.11	15.38	4.57	1.16	0.54	0.45	0.40	0.22	
11	0.40	1.52	0.34	1.39	5.26	18.83	2.60	1.10	0.54	0.49	0.40	0.22	
12	0.37	1.27	0.34	1.65	4.74	14.95	2.24	1.10	0.49	0.49	0.40	0.22	
13	0.37	1.04	0.37	1.16	4.16	12.54	2.68	1.10	0.49	0.45	0.45	0.22	
14	0.34	0.63	0.40	0.98	2.68	8.01	2.24	1.04	0.49	0.45	0.40	0.22	
15	0.28	0.63	0.40	1.58	2.17	5.73	2.90	0.98	0.54	0.45	0.37	0.22	
16	0.25	0.58	0.63	1.33	4.00	5.54	16.25	0.98	0.49	0.40	0.34	0.49	
17	0.22	0.54	1.65	1.21	2.98	5.73	5.64	0.98	0.49	0.40	0.34	0.40	
18	0.19	0.49	2.03	1.10	2.98	4.66	3.37	0.92	0.49	0.40	0.34	0.37	
19	0.16	1.27	1.78	1.04	2.03	3.84	2.82	0.92	0.49	0.40	0.86	0.34	
20	0.16	1.10	1.65	1.52	2.03	3.44	2.32	0.92	0.49	0.40	0.58	0.28	
21	0.16	0.92	1.39	11.19	2.17	3.44	2.17	0.86	0.45	0.40	0.49	0.28	
22	0.13	0.77	1.33	9.04	1.84	4.16	2.03	0.81	0.45	0.37	0.45	0.28	
23	0.40	0.63	1.10	5.45	1.52	2.98	1.97	0.81	0.45	0.37	0.37	0.25	
24	0.37	0.63	0.86	3.05	1.65	2.75	1.84	0.81	0.45	0.37	0.37	0.22	
25	0.31	0.58	0.81	1.97	1.21	2.68	1.71	0.81	0.45	0.37	0.37	0.19	
26	0.28	0.98	0.77	2.10	1.04	2.60	1.65	0.81	0.40	0.37	0.37	0.16	
27	0.25	1.97	4.32	2.32	0.92	2.32	1.65	0.81	0.40	0.37	0.37	0.28	
28	0.22	1.45	4.57	1.78	5.45	2.68	1.52	0.81	0.40	0.37	0.34	0.25	
29	0.22	1.33	2.46	1.39	14.80	2.24	1.45	0.72	0.40	0.37	0.28	0.25	
30	0.34	0.98	1.71	3.52	6.11	2.03	1.45	0.68	0.40	0.37		0.22	
31		0.81		8.47	6.11		1.39		0.40	0.34		0.19	
Total	8.79	31.70	32.95	78.72	153.56	164.52	98.39	30.27	15.77	15.38	12.94	8.23	651.22 CMSDAY
Mean	0.29	1.02	1.10	2.54	4.95	5.48	3.17	1.01					

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Huai Mae Kraban at Ban Si Mong Khon , Kanchanaburi (K.53)**

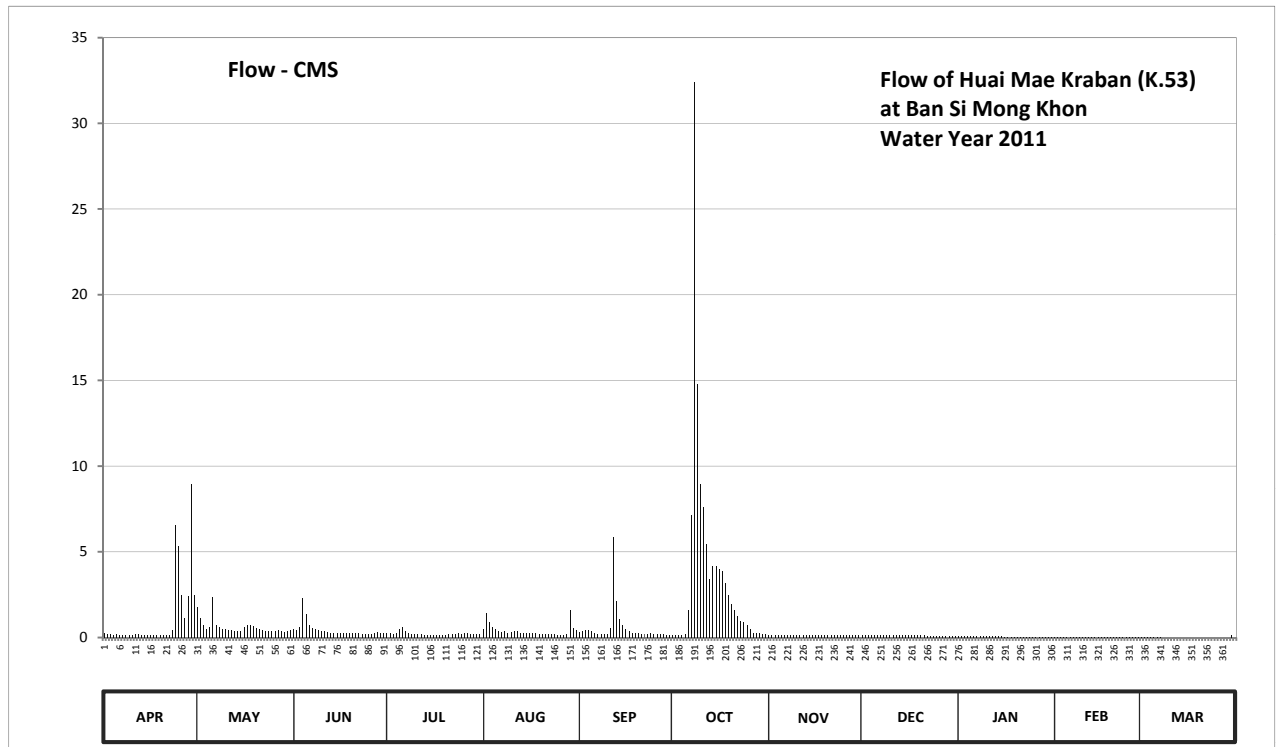
Lat 14 - 01 - 38 N Long 99 - 13 - 23 E

Location : on right bank at the bridge on road.

	Ban	Si Mong Khon	Amphoe	Sai Yok	Changwat	Kanchanaburi
Drainage Area	308	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+34.625	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 20 meters from the top staff gage.				Elevation	+40.952 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1992 to date					
Rating Operation						
Period of Rating	1992 to date					
Rated by Flot	-					
Rated by Current Meter	1992 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.12	36.40	36.19	36.11	36.20	36.14	36.06	36.06	36.02	36.00	35.94	35.91	
2	36.10	36.32	36.17	36.11	36.36	36.16	36.06	36.04	36.02	36.00	35.94	35.91	
3	36.09	36.24	36.22	36.10	36.28	36.18	36.05	36.03	36.02	36.00	35.94	35.91	
4	36.07	36.20	36.47	36.12	36.22	36.18	36.05	36.03	36.02	36.00	35.94	35.91	
5	36.08	36.22	36.35	36.20	36.19	36.16	36.09	36.02	36.02	36.00	35.94	35.91	
6	36.07	36.48	36.24	36.22	36.16	36.11	36.38	36.02	36.02	36.00	35.94	35.91	
7	36.06	36.25	36.21	36.16	36.14	36.10	36.87	36.02	36.02	35.99	35.94	35.91	
8	36.06	36.22	36.19	36.12	36.15	36.10	37.99	36.02	36.02	35.99	35.94	35.90	
9	36.05	36.20	36.18	36.10	36.13	36.10	37.28	36.02	36.02	35.99	35.94	35.88	
10	36.07	36.19	36.16	36.09	36.14	36.10	36.98	36.02	36.02	35.98	35.94	35.86	
11	36.10	36.18	36.15	36.08	36.15	36.21	36.90	36.02	36.02	35.98	35.94	35.86	
12	36.08	36.17	36.14	36.08	36.15	36.78	36.75	36.02	36.02	35.97	35.94	35.85	
13	36.06	36.16	36.13	36.07	36.13	36.45	36.59	36.02	36.02	35.97	35.94	35.85	
14	36.05	36.16	36.13	36.07	36.13	36.31	36.65	36.02	36.02	35.96	35.94	35.85	
15	36.04	36.16	36.12	36.07	36.11	36.24	36.65	36.02	36.02	35.96	35.94	35.86	
16	36.04	36.22	36.13	36.06	36.11	36.19	36.64	36.02	36.02	35.95	35.94	35.86	
17	36.04	36.25	36.12	36.06	36.11	36.16	36.63	36.02	36.02	35.95	35.94	35.86	
18	36.03	36.24	36.13	36.06	36.11	36.13	36.57	36.02	36.02	35.95	35.94	35.86	
19	36.03	36.23	36.12	36.06	36.10	36.11	36.50	36.02	36.02	35.95	35.92	35.86	
20	36.03	36.21	36.11	36.07	36.10	36.11	36.43	36.02	36.02	35.95	35.91	35.86	
21	36.03	36.19	36.11	36.09	36.09	36.10	36.38	36.02	36.02	35.95	35.91	35.86	
22	36.03	36.18	36.11	36.10	36.09	36.10	36.33	36.02	36.01	35.95	35.91	35.86	
23	36.17	36.16	36.10	36.10	36.08	36.10	36.29	36.02	36.00	35.95	35.91	35.86	
24	36.83	36.16	36.10	36.11	36.08	36.11	36.28	36.02	36.00	35.95	35.91	35.86	
25	36.74	36.15	36.09	36.10	36.07	36.10	36.24	36.02	36.00	35.95	35.91	35.86	
26	36.50	36.16	36.08	36.11	36.07	36.10	36.19	36.02	36.00	35.95	35.91	35.86	
27	36.32	36.17	36.12	36.11	36.07	36.09	36.13	36.02	36.00	35.95	35.91	35.86	
28	36.49	36.16	36.14	36.10	36.08	36.08	36.12	36.02	36.00	35.95	35.91	35.86	
29	36.98	36.14	36.12	36.09	36.38	36.07	36.11	36.02	36.00	35.94	35.91	35.86	
30	36.50	36.15	36.11	36.08	36.21	36.07	36.10	36.02	36.00	35.94		36.04	
31		36.17		36.09	36.17		36.08		36.00	35.94		35.89	
Mean	36.20	36.21	36.16	36.10	36.15	36.16	36.46	36.02	36.01	35.97	35.93	35.88	
Max	36.98	36.48	36.47	36.22	36.38	36.78	37.99	36.06	36.02	36.00	35.94	36.04	37.99
Min	36.03	36.14	36.08	36.06	36.07	36.07	36.05	36.02	36.00	35.94	35.91	35.85	35.85
Annual Max Momentary Gage Height	39.10		m. (MSL.) ,		at 11.00 Hours , on Oct 8 , 2011								
Zero Gage at Bottom Elevation	34.63		m. (MSL.) ,		River Bed	35.86	m. (MSL)						
Left Bank Elevation	39.99		m. (MSL.) ,										
Right Bank Elevation	40.04		m. (MSL.) ,		Drainage Area	308	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.26	1.75	0.47	0.23	0.50	0.32	0.16	0.16	0.12	0.10	0.04	0.01		
2	0.20	1.15	0.41	0.23	1.45	0.38	0.16	0.14	0.12	0.10	0.04	0.01		
3	0.19	0.70	0.60	0.20	0.90	0.44	0.15	0.13	0.12	0.10	0.04	0.01		
4	0.17	0.50	2.28	0.26	0.60	0.44	0.15	0.13	0.12	0.10	0.04	0.01		
5	0.18	0.60	1.37	0.50	0.47	0.38	0.19	0.12	0.12	0.10	0.04	0.01		
6	0.17	2.35	0.70	0.60	0.38	0.23	1.60	0.12	0.12	0.10	0.04	0.01		
7	0.16	0.75	0.55	0.38	0.32	0.20	7.15	0.12	0.12	0.09	0.04	0.01		
8	0.16	0.60	0.47	0.26	0.35	0.20	32.41	0.12	0.12	0.09	0.04	0.00		
9	0.15	0.50	0.44	0.20	0.29	0.20	14.78	0.12	0.12	0.09	0.04	0.00		
10	0.17	0.47	0.38	0.19	0.32	0.20	8.96	0.12	0.12	0.08	0.04	0.00		
11	0.20	0.44	0.35	0.18	0.35	0.55	7.60	0.12	0.12	0.08	0.04	0.00		
12	0.18	0.41	0.32	0.18	0.35	5.84	5.45	0.12	0.12	0.07	0.04	0.00		
13	0.16	0.38	0.29	0.17	0.29	2.13	3.40	0.12	0.12	0.07	0.04	0.00		
14	0.15	0.38	0.29	0.17	0.29	1.08	4.15	0.12	0.12	0.06	0.04	0.00		
15	0.14	0.38	0.26	0.17	0.23	0.70	4.15	0.12	0.12	0.06	0.04	0.00		
16	0.14	0.60	0.29	0.16	0.23	0.47	4.02	0.12	0.12	0.05	0.04	0.00		
17	0.14	0.75	0.26	0.16	0.23	0.38	3.89	0.12	0.12	0.05	0.04	0.00		
18	0.13	0.70	0.29	0.16	0.23	0.29	3.20	0.12	0.12	0.05	0.04	0.00		
19	0.13	0.65	0.26	0.16	0.20	0.23	2.50	0.12	0.12	0.05	0.02	0.00		
20	0.13	0.55	0.23	0.17	0.20	0.23	1.98	0.12	0.12	0.05	0.01	0.00		
21	0.13	0.47	0.23	0.19	0.19	0.20	1.60	0.12	0.12	0.05	0.01	0.00		
22	0.13	0.44	0.23	0.20	0.19	0.20	1.23	0.12	0.11	0.05	0.01	0.00		
23	0.41	0.38	0.20	0.20	0.18	0.20	0.95	0.12	0.10	0.05	0.01	0.00		
24	6.55	0.38	0.20	0.23	0.18	0.23	0.90	0.12	0.10	0.05	0.01	0.00		
25	5.32	0.35	0.19	0.20	0.17	0.20	0.70	0.12	0.10	0.05	0.01	0.00		
26	2.50	0.38	0.18	0.23	0.17	0.20	0.47	0.12	0.10	0.05	0.01	0.00		
27	1.15	0.41	0.26	0.23	0.17	0.19	0.29	0.12	0.10	0.05	0.01	0.00		
28	2.43	0.38	0.32	0.20	0.18	0.18	0.26	0.12	0.10	0.05	0.01	0.00		
29	8.96	0.32	0.26	0.19	1.60	0.17	0.23	0.12	0.10	0.04	0.01	0.00		
30	2.50	0.35	0.23	0.18	0.55	0.17	0.20	0.12	0.10	0.04		0.14		
31		0.41		0.19	0.41		0.18		0.10	0.04		0.00		
Total	33.39	18.88	12.81	6.97	12.17	16.83	113.06	3.68	3.53	2.06	0.84	0.21	224.43	CMSDAY
Mean	1.11	0.61	0.43	0.22	0.39	0.56	3.65	0.12	0.11	0.07	0.03	0.01	0.61	CMS
Max	8.96	2.35	2.28	0.60	1.60	5.84	32.41	0.16	0.12	0.10	0.04	0.14	32.41	CMS
Min	0.13	0.32	0.18	0.16	0.17	0.17	0.15	0.12	0.10	0.04	0.01	0.00	0.00	CMS
Runoff	2.89	1.63	1.11	0.60	1.05	1.45	9.77	0.32	0.31	0.18	0.07	0.02	19.39	MCM
Momentary Peak	72.00 CMS. at 39.10 m. (MSL.) at 11.00 Hours , on Oct 8, 2011													
Runoff Yield	1.99	Liters/Second/Square KM.			Momentary Peak Yield		233.690	Liters/Second/Square KM.						

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Khwae Noi River at Ban Lin Thin , Kanchanaburi (K.54)**

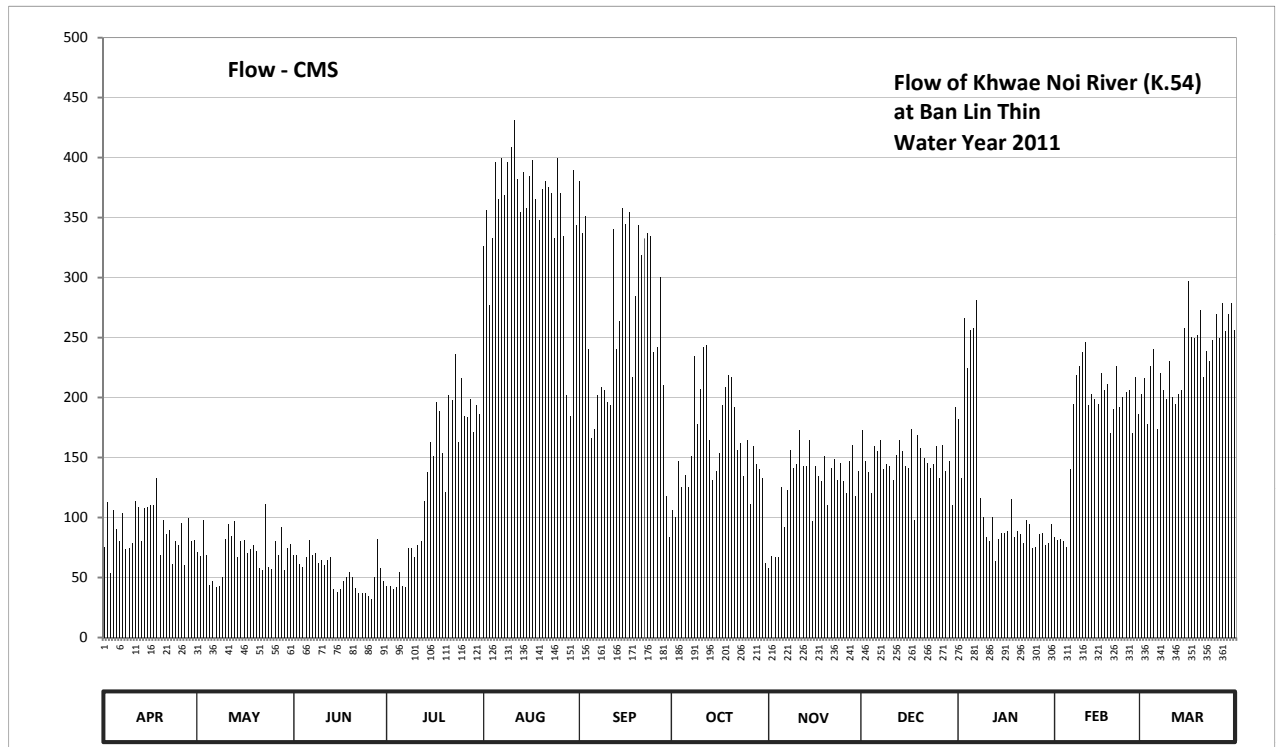
Lat 14 - 32 - 04 N Long 98 - 47 - 30 E

Location : on right bank at the bridge on road.

	Ban	Lin Thin	Amphoe	Thong Pha Phum	Changwat	Kanchanaburi
Drainage Area	4,774	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+60.540	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 40 meters from the gage observer's house.				Elevation	+75.155 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow regulated by Khao Laem Dam.					
	Stage-discharge relation defined by 38 discharge measurements made in 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	62.56	62.52	62.50	62.26	64.38	64.72	62.82	62.40	63.33	63.40	62.63	63.55	
2	62.87	62.49	62.50	62.26	64.57	64.45	62.77	62.49	63.14	63.03	62.61	63.64	
3	62.36	62.75	62.43	62.23	64.06	64.54	63.14	62.48	63.07	63.99	62.62	63.37	
4	62.82	62.50	62.41	62.25	64.42	63.81	62.97	62.48	62.93	63.70	62.60	63.71	
5	62.69	62.27	62.48	62.37	64.82	63.28	63.05	62.97	63.23	63.92	62.56	63.81	
6	62.60	62.30	62.61	62.26	64.63	63.34	62.97	62.70	63.20	63.93	63.09	63.34	
7	62.80	62.25	62.50	62.25	64.84	63.54	63.17	62.95	63.27	64.09	63.49	63.67	
8	62.54	62.26	62.51	62.55	64.65	63.59	63.77	63.21	63.09	62.90	63.66	63.57	
9	62.55	62.33	62.44	62.55	64.82	63.57	63.37	63.10	63.12	62.77	63.71	63.52	
10	62.59	62.62	62.46	62.48	64.90	63.50	63.58	63.12	63.11	62.63	63.79	63.74	
11	62.88	62.72	62.42	62.57	65.04	63.48	63.82	63.33	63.02	62.60	63.85	63.53	
12	62.84	62.64	62.46	62.60	64.73	64.47	63.83	63.11	63.18	62.77	63.48	63.49	
13	62.60	62.74	62.48	62.88	64.56	63.81	63.27	63.11	63.27	62.45	63.55	63.55	
14	62.83	62.48	62.23	63.07	64.77	63.97	63.02	63.27	63.20	62.62	63.52	63.57	
15	62.84	62.60	62.21	63.26	64.58	64.58	63.08	62.74	63.11	62.66	63.49	63.93	
16	62.85	62.61	62.23	63.17	64.75	64.50	63.19	63.11	63.10	62.66	63.67	64.19	
17	62.85	62.51	62.30	63.50	64.83	64.56	63.48	63.04	63.34	62.67	63.57	63.88	
18	63.03	62.54	62.33	63.45	64.63	63.65	63.59	63.01	62.75	62.89	63.61	63.87	
19	62.50	62.57	62.37	63.19	64.52	64.11	63.66	63.17	63.30	62.63	63.31	63.89	
20	62.75	62.53	62.33	62.94	64.68	64.49	63.65	62.85	63.22	62.67	63.46	64.03	
21	62.65	62.40	62.24	63.54	64.72	64.33	63.47	63.10	63.16	62.65	63.71	63.65	
22	62.68	62.38	62.20	63.51	64.69	64.42	63.21	63.15	63.13	62.59	63.47	63.80	
23	62.43	62.86	62.20	63.78	64.66	64.45	63.25	63.02	63.10	62.75	63.53	63.74	
24	62.60	62.41	62.20	63.26	64.42	64.43	63.04	63.13	63.12	62.72	63.56	63.86	
25	62.57	62.39	62.17	63.64	64.84	63.79	63.27	63.01	63.23	62.55	63.57	64.01	
26	62.73	62.60	62.14	63.42	64.66	63.82	62.86	62.93	63.03	62.56	63.31	63.87	
27	62.42	62.50	62.33	63.41	64.43	64.21	63.23	63.14	63.24	62.65	63.65	64.07	
28	62.76	62.70	62.62	63.52	63.54	63.60	63.12	63.24	63.08	62.66	63.43	63.91	
29	62.60	62.38	62.40	63.32	63.42	62.91	63.09	62.91	63.14	62.57	63.54	64.01	
30	62.61	62.55	62.30	63.48	64.78	62.63	63.03	63.08	62.85	62.59		64.07	
31		62.58		63.43	64.49		62.44		63.47	62.72		63.92	
Mean	62.68	62.52	62.37	62.98	64.58	63.95	63.23	62.98	63.15	62.90	63.38	63.77	
Max	63.03	62.86	62.62	63.78	65.04	64.72	63.83	63.33	63.47	64.09	63.85	64.19	65.04
Min	62.36	62.25	62.14	62.23	63.42	62.63	62.44	62.40	62.75	62.45	62.56	63.34	62.14
Annual Max Momentary Gage Height	65.88		m. (MSL.) ,			at 03.00 Hours , on Aug 11 , 2011							
Zero Gage at Bottom Elevation	60.54		m. (MSL.) ,		River Bed	60.32	m. (MSL)						
Left Bank Elevation	68.50		m. (MSL.) ,										
Right Bank Elevation	71.05		m. (MSL.) ,		Drainage Area	4774	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	75.60	71.20	69.00	43.00	326.40	380.20	106.50	58.00	172.55	182.00	83.60	203.00		
2	112.75	67.90	69.00	43.00	356.20	337.25	100.40	67.90	146.90	132.75	81.20	215.80		
3	53.60	98.00	61.30	40.00	277.00	351.40	146.90	66.80	137.75	266.55	82.40	177.95		
4	106.50	69.00	59.10	42.00	332.60	240.45	125.25	66.80	120.25	224.50	80.00	225.95		
5	90.80	44.00	66.80	54.70	396.20	165.80	135.25	125.25	159.05	256.40	75.60	240.45		
6	80.00	47.00	81.20	43.00	365.80	173.90	125.25	92.00	155.00	257.85	140.25	173.90		
7	104.00	42.00	69.00	42.00	399.40	201.60	150.95	122.75	164.45	281.50	194.60	220.15		
8	73.40	43.00	70.10	74.50	369.00	208.60	234.65	156.35	140.25	116.50	218.70	205.80		
9	74.50	50.30	62.40	74.50	396.20	205.80	177.95	141.50	144.20	100.40	225.95	198.80		
10	78.90	82.40	64.60	66.80	409.00	196.00	207.20	144.20	142.85	83.60	237.55	230.30		
11	114.00	94.40	60.20	76.70	431.40	193.20	241.90	172.55	131.50	80.00	246.25	200.20		
12	109.00	84.80	64.60	80.00	381.80	340.35	243.35	142.85	152.30	100.40	193.20	194.60		
13	80.00	96.80	66.80	114.00	354.60	240.45	164.45	142.85	164.45	63.50	203.00	203.00		
14	107.75	66.80	40.00	137.75	388.20	263.65	131.50	164.45	155.00	82.40	198.80	205.80		
15	109.00	80.00	38.00	163.10	357.80	357.80	139.00	96.80	142.85	87.20	194.60	257.85		
16	110.25	81.20	40.00	150.95	385.00	345.00	153.65	142.85	141.50	87.20	220.15	296.95		
17	110.25	70.10	47.00	196.00	397.80	354.60	193.20	134.00	173.90	88.40	205.80	250.60		
18	132.75	73.40	50.30	189.00	365.80	217.25	208.60	130.25	98.00	115.25	211.45	249.15		
19	69.00	76.70	54.70	153.65	348.20	284.55	218.70	150.95	168.50	83.60	169.85	252.05		
20	98.00	72.30	50.30	121.50	373.80	343.45	217.25	110.25	157.70	88.40	190.40	272.50		
21	86.00	58.00	41.00	201.60	380.20	318.65	191.80	141.50	149.60	86.00	225.95	217.25		
22	89.60	55.80	37.00	197.40	375.40	332.60	156.35	148.25	145.55	78.90	191.80	239.00		
23	61.30	111.50	37.00	236.10	370.60	337.25	161.75	131.50	141.50	98.00	200.20	230.30		
24	80.00	59.10	37.00	163.10	332.60	334.15	134.00	145.55	144.20	94.40	204.40	247.70		
25	76.70	56.90	34.45	215.80	399.40	237.55	164.45	130.25	159.05	74.50	205.80	269.50		
26	95.60	80.00	31.90	184.80	370.60	241.90	111.50	120.25	132.75	75.60	169.85	249.15		
27	60.20	69.00	50.30	183.40	334.15	300.05	159.05	146.90	160.40	86.00	217.25	278.50		
28	99.20	92.00	82.40	198.80	201.60	210.00	144.20	160.40	139.00	87.20	186.20	254.95		
29	80.00	55.80	58.00	171.20	184.80	117.75	140.25	117.75	146.90	76.70	201.60	269.50		
30	81.20	74.50	47.00	193.20	389.80	83.60	132.75	139.00	110.25	78.90		278.50		
31		77.80		186.20	343.45		62.40		191.80	94.40		256.40		
Total	2699.85	2201.70	1640.45	4037.75	11094.80	7914.80	4980.40	3810.70	4589.95	3709.00	5256.40	7265.55	59201.35	CMSDAY
Mean	90.00	71.02	54.68	130.25	357.90	263.83	160.66	127.02	148.06	119.65	181.26	234.37	161.75	CMS
Max	132.75	111.50	82.40	236.10	431.40	380.20	243.35	172.55	191.80	281.50	246.25	296.95	431.40	CMS
Min	53.60	42.00	31.90	40.00	184.80	83.60	62.40	58.00	98.00	63.50	75.60	173.90	31.90	CMS
Runoff	233.27	190.23	141.74	348.86	958.59	683.84	430.31	329.24	396.57	320.46	454.15	627.74	5115.00	MCM
Momentary Peak	570.60 CMS. at 65.88 m. (MSL.) at 03.00 Hours , on Aug 11 , 2011													
Runoff Yield	33.88	Liters/Second/Square KM.		Momentary Peak Yield		119.522	Liters/Second/Square KM.							

WATER YEAR : 2011

MAE KLONG RIVER BASIN

Khwae Noi River at Ban Pak Saeng , Kanchanaburi (K.58)

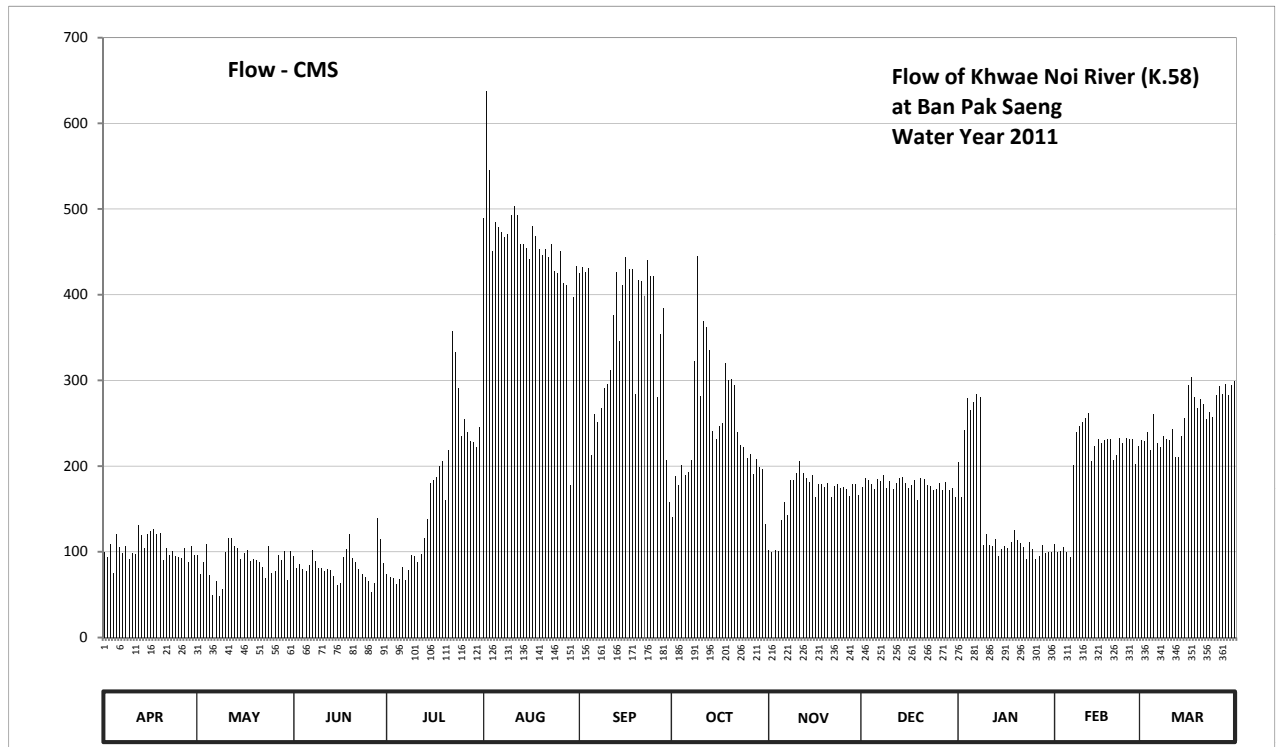
Lat 14 - 12 - 46 N Long 99 - 03 - 39 E

Location : on left bank at Ban Pak Saeng.

	Ban	Pak Saeng	Amphoe	Sai Yok	Changwat	Kanchanaburi
Drainage Area	6,725	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+39.567	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 40 meters from the gage observer's house.				Elevation	+49.053 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1998 to date					
Rating Operation						
Period of Rating	2006 to date					
Rated by Flot	-					
Rated by Current Meter	2006 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 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.52	41.48	41.47	41.26	44.54	44.08	41.88	41.54	42.17	42.41	41.60	42.62	
2	41.46	41.26	41.33	41.23	45.56	44.13	42.28	41.52	42.26	42.07	41.52	42.61	
3	41.60	41.40	41.38	41.21	44.93	44.09	42.19	41.54	42.24	42.71	41.53	42.69	
4	41.27	41.60	41.32	41.14	44.26	44.12	42.38	41.53	42.20	43.00	41.57	42.52	
5	41.71	41.25	41.30	41.20	44.51	42.48	42.29	41.85	42.15	42.89	41.52	42.86	
6	41.57	41.00	41.36	41.34	44.46	42.86	42.32	42.03	42.25	42.97	41.46	42.59	
7	41.51	41.18	41.54	41.19	44.42	42.79	42.43	41.90	42.23	43.04	42.38	42.55	
8	41.58	40.98	41.41	41.31	44.38	42.91	43.33	42.24	42.29	43.01	42.69	42.66	
9	41.43	41.07	41.33	41.48	44.41	43.09	44.22	42.24	42.16	41.59	42.75	42.63	
10	41.51	41.52	41.33	41.47	44.56	43.13	43.02	42.31	42.23	41.71	42.79	42.62	
11	41.49	41.66	41.30	41.40	44.64	43.25	43.68	42.42	42.15	41.59	42.82	42.72	
12	41.80	41.66	41.32	41.49	44.56	43.73	43.63	42.31	42.21	41.58	42.87	42.46	
13	41.70	41.58	41.31	41.66	44.32	44.09	43.43	42.26	42.26	41.65	42.42	42.46	
14	41.56	41.56	41.24	41.86	44.32	43.51	42.70	42.22	42.27	41.47	42.56	42.66	
15	41.71	41.44	41.13	42.21	44.29	43.98	42.63	42.29	42.21	41.55	42.63	42.82	
16	41.74	41.51	41.15	42.24	44.20	44.21	42.75	42.07	42.16	41.58	42.59	43.12	
17	41.76	41.54	41.46	42.27	44.47	44.11	42.78	42.20	42.19	41.56	42.62	43.19	
18	41.71	41.41	41.55	42.37	44.39	44.11	43.32	42.20	42.24	41.62	42.63	43.01	
19	41.72	41.44	41.71	42.42	44.28	43.04	43.16	42.17	42.05	41.75	42.63	42.91	
20	41.42	41.42	41.45	42.05	44.23	44.02	43.17	42.21	42.26	41.64	42.43	42.99	
21	41.56	41.40	41.40	42.52	44.28	44.01	43.12	42.07	42.25	41.61	42.48	42.95	
22	41.48	41.34	41.32	43.60	44.21	43.89	42.69	42.18	42.19	41.57	42.64	42.81	
23	41.53	41.21	41.26	43.41	44.32	44.19	42.57	42.20	42.18	41.44	42.59	42.88	
24	41.47	41.58	41.23	43.09	44.10	44.05	42.55	42.16	42.14	41.62	42.64	42.83	
25	41.46	41.27	41.18	42.66	44.08	44.05	42.45	42.17	42.15	41.55	42.63	43.03	
26	41.45	41.29	41.04	42.81	44.26	43.01	42.49	42.15	42.21	41.44	42.63	43.11	
27	41.56	41.48	41.15	42.69	44.00	43.57	42.30	42.08	42.14	41.47	42.39	43.04	
28	41.40	41.42	41.87	42.61	43.98	43.79	42.44	42.20	42.22	41.59	42.56	43.13	
29	41.58	41.53	41.65	42.60	42.19	42.43	42.36	42.20	42.14	41.51	42.54	43.03	
30	41.48	41.19	41.39	42.55	43.88	42.03	42.34	42.09	42.16	41.52		43.12	
31		41.53		42.74	44.14		41.81		42.07	41.52		43.15	
Mean	41.56	41.39	41.36	42.07	44.30	43.56	42.73	42.08	42.19	41.88	42.38	42.83	
Max	41.80	41.66	41.87	43.60	45.56	44.21	44.22	42.42	42.29	43.04	42.87	43.19	45.56
Min	41.27	40.98	41.04	41.14	42.19	42.03	41.81	41.52	42.05	41.44	41.46	42.46	40.98
Annual Max Momentary Gage Height	45.86		m. (MSL.) ,		at 15.00 Hours , on Aug 2 , 2011								
Zero Gage at Bottom Elevation	39.57		m. (MSL.) ,		River Bed	40.29	m. (MSL)						
Left Bank Elevation	48.95		m. (MSL.) ,										
Right Bank Elevation	50.28		m. (MSL.) ,		Drainage Area	6725	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	100.20	96.00	95.00	74.00	489.60	425.20	140.60	102.40	175.40	204.25	109.00	230.50		
2	94.00	74.00	81.00	71.00	637.20	432.20	188.60	100.20	186.20	163.40	100.20	229.25		
3	109.00	88.00	86.00	69.00	545.85	426.60	177.80	102.40	183.80	241.75	101.30	239.25		
4	75.00	109.00	80.00	62.60	450.40	430.80	200.60	101.30	179.00	279.00	105.70	218.00		
5	121.10	73.00	78.00	68.00	485.40	213.00	189.80	137.00	173.00	264.70	100.20	260.80		
6	105.70	50.00	84.00	82.00	478.40	260.80	193.40	158.60	185.00	275.10	94.00	226.75		
7	99.10	66.20	102.40	67.10	472.80	251.75	206.75	143.00	182.60	284.20	200.60	221.75		
8	106.80	48.20	89.00	79.00	467.20	267.30	321.90	183.80	189.80	280.30	239.25	235.50		
9	91.00	56.30	81.00	96.00	471.40	290.70	444.80	183.80	174.20	107.90	246.75	231.75		
10	99.10	100.20	81.00	95.00	492.40	295.90	281.60	192.20	182.60	121.10	251.75	230.50		
11	97.00	115.60	78.00	88.00	503.80	311.50	369.20	205.50	173.00	107.90	255.60	243.00		
12	131.00	115.60	80.00	97.00	492.40	376.20	362.20	192.20	180.20	106.80	262.10	210.50		
13	120.00	106.80	79.00	115.60	458.80	426.60	335.05	186.20	186.20	114.50	205.50	210.50		
14	104.60	104.60	72.00	138.20	458.80	345.85	240.50	181.40	187.40	95.00	223.00	235.50		
15	121.10	92.00	61.70	180.20	454.60	411.20	231.75	189.80	180.20	103.50	231.75	255.60		
16	124.40	99.10	63.50	183.80	442.00	443.40	246.75	163.40	174.20	106.80	226.75	294.60		
17	126.60	102.40	94.00	187.40	479.80	429.40	250.50	179.00	177.80	104.60	230.50	303.70		
18	121.10	89.00	103.50	199.40	468.60	429.40	320.60	179.00	183.80	111.20	231.75	280.30		
19	122.20	92.00	121.10	205.50	453.20	284.20	299.80	175.40	161.00	125.50	231.75	267.30		
20	90.00	90.00	93.00	161.00	446.20	416.80	301.10	180.20	186.20	113.40	206.75	277.70		
21	104.60	88.00	88.00	218.00	453.20	415.40	294.60	163.40	185.00	110.10	213.00	272.50		
22	96.00	82.00	80.00	358.00	443.40	398.60	239.25	176.60	177.80	105.70	233.00	254.30		
23	101.30	69.00	74.00	332.35	458.80	440.60	224.25	179.00	176.60	92.00	226.75	263.40		
24	95.00	106.80	71.00	290.70	428.00	421.00	221.75	174.20	171.80	111.20	233.00	256.90		
25	94.00	75.00	66.20	235.50	425.20	421.00	209.25	175.40	173.00	103.50	231.75	282.90		
26	93.00	77.00	53.60	254.30	450.40	280.30	214.25	173.00	180.20	92.00	231.75	293.30		
27	104.60	96.00	63.50	239.25	414.00	353.95	191.00	164.60	171.80	95.00	201.80	284.20		
28	88.00	90.00	139.40	229.25	411.20	384.60	208.00	179.00	181.40	107.90	223.00	295.90		
29	106.80	101.30	114.50	228.00	177.80	206.75	198.20	179.00	171.80	99.10	220.50	282.90		
30	96.00	67.10	87.00	221.75	397.20	158.60	195.80	165.80	174.20	100.20		294.60		
31		101.30		245.50	433.60		132.20		163.40	100.20		298.50		
Total	3138.30	2721.50	2540.40	5172.40	14141.65	10649.60	7631.85	4966.80	5528.60	4427.80	5868.75	7982.15	74769.80	CMSDAY
Mean	104.61	87.79	84.68	166.85	456.18	354.99	246.19	165.56	178.34	142.83	202.37	257.49	204.29	CMS
Max	131.00	115.60	139.40	358.00	637.20	443.40	444.80	205.50	189.80	284.20	262.10	303.70	637.20	CMS
Min	75.00	48.20	53.60	62.60	177.80	158.60	132.20	100.20	161.00	92.00	94.00	210.50	48.20	CMS
Runoff	271.15	235.14	219.49	446.90	1221.84	920.13	659.39	429.13	477.67	382.56	507.06	689.66	6460.11	MCM
Momentary Peak	680.70 CMS. at 45.86 m. (MSL.) at 15.00 Hours , on Aug 2 , 2011													
Runoff Yield	30.38	Liters/Second/Square KM.				Momentary Peak Yield		101.219	Liters/Second/Square KM.					

WATER YEAR : 2011

MAE KLONG RIVER BASIN

Huai Kui Mang at Ban Kui Mang , Kanchanaburi (K.60)

Lat 14 - 37 - 32 N Long 98 - 43 - 50 E

Location : on right bank at the bridge on road.

	Ban	Kui Mang	Amphoe	Thong Pha Phum	Changwat	Kanchanaburi
Drainage Area	128	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+73.675	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 15 meters from the top staff gage.				Elevation	+82.022 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2000 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	74.30	74.34	74.53	74.65	76.55	74.84	75.04	74.68	74.58	74.53	74.49	74.42	
2	74.30	74.34	74.52	74.68	76.40	75.05	74.87	74.68	74.58	74.53	74.60	74.41	
3	74.30	74.34	74.50	74.65	76.08	74.96	74.85	74.68	74.57	74.53	74.56	74.41	
4	74.30	74.33	74.49	74.67	75.55	75.03	74.96	74.68	74.57	74.53	74.52	74.40	
5	74.32	74.57	74.49	74.73	75.24	74.94	74.92	74.67	74.57	74.52	74.51	74.40	
6	74.31	74.47	74.49	74.66	75.07	74.85	74.85	74.67	74.57	74.52	74.49	74.39	
7	74.30	74.46	74.52	74.63	75.01	74.82	75.46	74.66	74.57	74.52	74.48	74.39	
8	74.29	74.46	74.50	74.61	75.11	74.94	75.78	74.66	74.57	74.51	74.47	74.38	
9	74.29	74.47	74.48	74.61	75.21	74.86	75.25	74.66	74.57	74.51	74.47	74.38	
10	74.29	74.54	74.49	74.60	75.25	75.31	75.50	74.65	74.56	74.51	74.46	74.38	
11	74.28	74.55	74.49	74.60	75.12	75.81	75.14	74.64	74.56	74.51	74.45	74.38	
12	74.28	74.49	74.50	74.63	75.05	76.52	75.00	74.64	74.56	74.51	74.50	74.37	
13	74.28	74.48	74.50	74.63	74.98	75.96	74.94	74.63	74.56	74.50	74.47	74.37	
14	74.27	74.47	74.52	74.61	74.97	75.58	74.90	74.63	74.56	74.50	74.47	74.36	
15	74.27	74.49	74.56	74.60	75.32	75.39	74.89	74.63	74.56	74.50	74.46	74.59	
16	74.27	74.48	74.54	74.63	75.34	75.27	75.55	74.62	74.55	74.50	74.46	74.49	
17	74.27	74.48	74.63	74.68	75.44	75.20	75.14	74.62	74.55	74.50	74.45	74.44	
18	74.27	74.53	74.77	74.65	75.33	75.25	75.04	74.61	74.55	74.49	74.45	74.42	
19	74.26	74.62	74.65	74.67	75.12	75.16	74.95	74.61	74.55	74.49	74.48	74.41	
20	74.26	74.57	74.69	74.82	75.08	75.11	74.91	74.60	74.55	74.49	74.48	74.40	
21	74.34	74.57	74.70	76.18	74.96	75.07	74.88	74.60	74.55	74.49	74.47	74.40	
22	74.34	74.57	74.65	75.48	74.90	75.18	74.85	74.60	74.54	74.49	74.47	74.40	
23	74.37	74.55	74.63	75.01	74.84	75.16	74.82	74.60	74.54	74.49	74.46	74.40	
24	74.43	74.51	74.62	74.78	74.85	75.18	74.80	74.59	74.54	74.48	74.45	74.39	
25	74.37	74.54	74.61	74.71	74.78	75.04	74.78	74.59	74.54	74.48	74.45	74.39	
26	74.36	74.62	74.60	74.89	74.74	74.99	74.76	74.59	74.54	74.48	74.44	74.39	
27	74.35	74.63	74.88	74.74	74.88	74.95	74.73	74.59	74.53	74.47	74.43	74.39	
28	74.35	74.60	74.83	74.71	75.05	74.92	74.71	74.59	74.53	74.47	74.43	74.39	
29	74.34	74.58	74.68	74.67	75.30	74.88	74.70	74.58	74.53	74.47	74.42	74.39	
30	74.34	74.57	74.65	74.70	74.95	74.88	74.69	74.58	74.53	74.46		74.38	
31		74.54		75.21	74.89		74.69		74.53	74.46		74.38	
Mean	74.31	74.51	74.59	74.78	75.21	75.17	74.98	74.63	74.55	74.50	74.47	74.40	
Max	74.43	74.63	74.88	76.18	76.55	76.52	75.78	74.68	74.58	74.53	74.60	74.59	76.55
Min	74.26	74.33	74.48	74.60	74.74	74.82	74.69	74.58	74.53	74.46	74.42	74.36	74.26
Annual Max Momentary Gage Height		76.78	m. (MSL.) ,		at 18.00 Hours , on Aug 1 , 2011								
Zero Gage at Bottom Elevation		73.68	m. (MSL.) ,		River Bed	73.26	m. (MSL)						
Left Bank Elevation		82.01	m. (MSL.) ,										
Right Bank Elevation		82.11	m. (MSL.) ,		Drainage Area	128	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.18	0.73	1.28	28.30	2.36	3.89	1.41	0.96	0.73	0.57	0.36		
2	0.10	0.18	0.69	1.41	24.80	3.98	2.56	1.41	0.96	0.73	1.05	0.33		
3	0.10	0.18	0.60	1.28	18.04	3.23	2.42	1.41	0.92	0.73	0.87	0.33		
4	0.10	0.16	0.57	1.37	9.55	3.80	3.23	1.41	0.92	0.73	0.69	0.30		
5	0.14	0.92	0.57	1.68	5.80	3.07	2.91	1.37	0.92	0.69	0.65	0.30		
6	0.12	0.51	0.57	1.32	4.15	2.42	2.42	1.37	0.92	0.69	0.57	0.28		
7	0.10	0.48	0.69	1.18	3.64	2.23	8.38	1.32	0.92	0.69	0.54	0.28		
8	0.09	0.48	0.60	1.10	4.50	3.07	12.88	1.32	0.92	0.65	0.51	0.26		
9	0.09	0.51	0.54	1.10	5.50	2.49	5.90	1.32	0.92	0.65	0.51	0.26		
10	0.09	0.78	0.57	1.05	5.90	6.52	8.90	1.28	0.87	0.65	0.48	0.26		
11	0.08	0.83	0.57	1.05	4.60	13.36	4.80	1.23	0.87	0.65	0.45	0.26		
12	0.08	0.57	0.60	1.18	3.98	27.58	3.55	1.23	0.87	0.65	0.60	0.24		
13	0.08	0.54	0.60	1.18	3.39	15.88	3.07	1.18	0.87	0.60	0.51	0.24		
14	0.07	0.51	0.69	1.10	3.31	9.94	2.75	1.18	0.87	0.60	0.51	0.22		
15	0.07	0.57	0.87	1.05	6.64	7.48	2.68	1.18	0.87	0.60	0.48	1.00		
16	0.07	0.54	0.78	1.18	6.88	6.10	9.55	1.14	0.83	0.60	0.48	0.57		
17	0.07	0.54	1.18	1.41	8.12	5.40	4.80	1.14	0.83	0.60	0.45	0.42		
18	0.07	0.73	1.92	1.28	6.76	5.90	3.89	1.10	0.83	0.57	0.45	0.36		
19	0.06	1.14	1.28	1.37	4.60	5.00	3.15	1.10	0.83	0.57	0.54	0.33		
20	0.06	0.92	1.46	2.23	4.23	4.50	2.83	1.05	0.83	0.57	0.54	0.30		
21	0.18	0.92	1.50	20.00	3.23	4.15	2.62	1.05	0.83	0.57	0.51	0.30		
22	0.18	0.92	1.28	8.64	2.75	5.20	2.42	1.05	0.78	0.57	0.51	0.30		
23	0.24	0.83	1.18	3.64	2.36	5.00	2.23	1.05	0.78	0.57	0.48	0.30		
24	0.39	0.65	1.14	1.98	2.42	5.20	2.10	1.00	0.78	0.54	0.45	0.28		
25	0.24	0.78	1.10	1.56	1.98	3.89	1.98	1.00	0.78	0.54	0.45	0.28		
26	0.22	1.14	1.05	2.68	1.74	3.47	1.86	1.00	0.78	0.54	0.42	0.28		
27	0.20	1.18	2.62	1.74	2.62	3.15	1.68	1.00	0.73	0.51	0.39	0.28		
28	0.20	1.05	2.29	1.56	3.98	2.91	1.56	1.00	0.73	0.51	0.39	0.28		
29	0.18	0.96	1.41	1.37	6.40	2.62	1.50	0.96	0.73	0.51	0.36	0.28		
30	0.18	0.92	1.28	1.50	3.15	2.62	1.46	0.96	0.73	0.48		0.26		
31		0.78		5.50	2.68		1.46		0.73	0.48		0.26		
Total	3.95	21.40	30.93	75.97	196.00	172.52	115.43	35.22	26.11	18.77	15.41	10.00	721.71	CMSDAY
Mean	0.13	0.69	1.03	2.45	6.32	5.75	3.72	1.1						

WATER YEAR : 2011

MAE KLONG RIVER BASIN

Lam Phachi at Ban Dan Thaptako , Ratchaburi (K.61)

Lat 13 - 41 - 28 N Long 99 - 27 - 08 E

Location : on right bank at the bridge on highway.

	Ban	Dan Thaptako	Amphoe	Chom Bung	Changwat	Ratchaburi
Drainage Area	1,844	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+64.630	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+71.913 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 43 discharge measurements made in 1911					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.16	65.33	65.48	65.43	65.60	65.44	65.45	65.74	65.42	65.38	65.36	65.21	
2	65.04	65.45	65.50	65.42	65.97	65.44	65.45	65.69	65.42	65.38	65.36	65.21	
3	65.04	65.39	65.49	65.42	65.84	65.44	65.45	65.71	65.42	65.39	65.35	65.21	
4	65.04	65.48	65.81	65.42	65.66	65.43	65.48	65.68	65.42	65.39	65.36	65.22	
5	65.11	65.40	65.71	65.45	65.57	65.43	65.47	65.65	65.42	65.38	65.35	65.23	
6	65.14	65.41	65.56	65.46	65.52	65.43	65.49	65.59	65.42	65.38	65.35	65.21	
7	65.27	65.42	65.53	65.44	65.49	65.42	65.85	65.60	65.43	65.38	65.34	65.20	
8	65.37	65.44	65.50	65.44	65.47	65.42	66.78	65.59	65.43	65.37	65.34	65.20	
9	65.23	65.39	65.48	65.42	65.47	65.45	66.51	65.57	65.43	65.37	65.34	65.20	
10	65.25	65.34	65.46	65.42	65.47	65.47	66.09	65.56	65.43	65.36	65.33	65.20	
11	65.26	65.37	65.45	65.41	65.46	65.50	65.99	65.56	65.43	65.34	65.31	65.20	
12	65.19	65.36	65.45	65.40	65.46	65.60	66.18	65.51	65.43	65.34	65.31	65.20	
13	65.13	65.41	65.44	65.40	65.46	65.64	66.26	65.53	65.43	65.34	65.30	65.21	
14	65.11	65.63	65.44	65.39	65.46	65.57	66.16	65.53	65.44	65.35	65.30	65.23	
15	65.09	65.70	65.44	65.40	65.48	65.53	65.96	65.51	65.44	65.35	65.30	65.22	
16	65.07	65.92	65.44	65.40	65.48	65.51	66.02	65.50	65.43	65.36	65.30	65.25	
17	65.06	65.69	65.45	65.40	65.47	65.50	66.03	65.49	65.42	65.35	65.29	65.26	
18	65.02	65.64	65.44	65.39	65.47	65.49	66.33	65.49	65.41	65.35	65.27	65.27	
19	65.10	65.61	65.49	65.38	65.46	65.48	66.16	65.48	65.41	65.36	65.25	65.25	
20	65.50	65.56	65.47	65.38	65.46	65.48	65.99	65.47	65.41	65.35	65.24	65.25	
21	65.22	65.52	65.48	65.40	65.45	65.48	65.94	65.46	65.41	65.34	65.27	65.27	
22	65.13	65.50	65.52	65.42	65.45	65.47	65.94	65.45	65.41	65.36	65.28	65.25	
23	65.09	65.48	65.52	65.44	65.45	65.47	65.88	65.45	65.40	65.37	65.27	65.22	
24	65.13	65.46	65.48	65.45	65.44	65.47	65.80	65.46	65.40	65.36	65.25	65.20	
25	65.49	65.46	65.46	65.46	65.43	65.47	65.79	65.47	65.40	65.35	65.26	65.18	
26	65.63	65.50	65.45	65.45	65.44	65.48	65.85	65.44	65.40	65.35	65.29	65.16	
27	65.47	65.59	65.45	65.45	65.44	65.49	65.78	65.43	65.40	65.34	65.27	65.16	
28	65.34	65.56	65.46	65.45	65.44	65.48	65.77	65.43	65.40	65.34	65.24	65.15	
29	65.36	65.50	65.45	65.43	65.46	65.47	65.92	65.43	65.39	65.33	65.22	65.14	
30	65.37	65.47	65.44	65.43	65.46	65.46	65.96	65.42	65.38				

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.50	7.60	12.50	10.75	17.50	11.10	11.45	24.90	10.40	9.10	8.50	4.54	
2	1.40	11.45	13.20	10.40	39.05	11.10	11.45	22.00	10.40	9.10	8.50	4.54	
3	1.40	9.40	12.85	10.40	30.90	11.10	11.45	23.10	10.40	9.40	8.20	4.54	
4	1.40	12.50	29.10	10.40	20.50	10.75	12.50	21.50	10.40	9.40	8.50	4.78	
5	2.50	9.70	23.10	11.45	16.21	10.75	12.15	20.00	10.40	9.10	8.20	5.02	
6	3.10	10.05	15.78	11.80	14.06	10.75	12.85	17.07	10.40	9.10	8.20	4.54	
7	5.98	10.40	14.49	11.10	12.85	10.40	31.50	17.50	10.75	9.10	7.90	4.30	
8	8.80	11.10	13.20	11.10	12.15	10.40	106.00	17.07	10.75	8.80	7.90	4.30	
9	5.02	9.40	12.50	10.40	12.15	11.45	80.40	16.21	10.75	8.80	7.90	4.30	
10	5.50	7.90	11.80	10.40	12.15	12.15	47.12	15.78	10.75	8.50	7.60	4.30	
11	5.74	8.80	11.45	10.05	11.80	13.20	40.35	15.78	10.75	7.90	7.00	4.30	
12	4.10	8.50	11.45	9.70	11.80	17.50	53.56	13.63	10.75	7.90	7.00	4.30	
13	2.90	10.05	11.10	9.70	11.80	19.50	59.50	14.49	10.75	7.90	6.70	4.54	
14	2.50	19.00	11.10	9.40	11.80	16.21	52.12	14.49	11.10	8.20	6.70	5.02	
15	2.15	22.50	11.10	9.70	12.50	14.49	38.40	13.63	11.10	8.20	6.70	4.78	
16	1.85	35.80	11.10	9.70	12.50	13.63	42.36	13.20	10.75	8.50	6.70	5.50	
17	1.70	22.00	11.45	9.70	12.15	13.20	43.04	12.85	10.40	8.20	6.46	5.74	
18	1.10	19.50	11.10	9.40	12.15	12.85	65.05	12.85	10.05	8.20	5.98	5.98	
19	2.30	18.00	12.85	9.10	11.80	12.50	52.12	12.50	10.05	8.50	5.50	5.50	
20	13.20	15.78	12.15	9.10	11.80	12.50	40.35	12.15	10.05	8.20	5.26	5.50	
21	4.78	14.06	12.50	9.70	11.45	12.50	37.10	11.80	10.05	7.90	5.98	5.98	
22	2.90	13.20	14.06	10.40	11.45	12.15	37.10	11.45	10.05	8.50	6.22	5.50	
23	2.15	12.50	14.06	11.10	11.45	12.15	33.30	11.45	9.70	8.80	5.98	4.78	
24	2.90	11.80	12.50	11.45	11.10	12.15	28.50	11.80	9.70	8.50	5.50	4.30	
25	12.85	11.80	11.80	11.80	10.75	12.15	27.90	12.15	9.70	8.20	5.74	3.90	
26	19.00	13.20	11.45	11.45	11.10	12.50	31.50	11.10	9.70	8.20	6.46	3.50	
27	12.15	17.07	11.45	11.45	11.10	12.85	27.30	10.75	9.70	7.90	5.98	3.50	
28	7.90	15.78	11.80	11.45	11.10	12.50	26.70	10.75	9.70	7.90	5.26	3.30	
29	8.50	13.20	11.45	10.75	11.80	12.15	35.80	10.75	9.40	7.60	4.78	3.10	
30	8.80	12.15	11.10	10.75	11.80	11.80	38.40	10.40	9.10	7.60		3.10	
31		12.50		12.15	11.45		32.10		9.10	8.20		2.90	
Total													

WATER YEAR : 2011

MAE KLONG RIVER BASIN

Lam Phachi at Ban Nong Phai , Kanchanaburi (K.62)

Lat 13 - 46 - 52 N Long 99 - 25 - 15 E

Location : on left bank at Ban Nong Phai.

	Ban	Nong Phai	Amphoe	Dan Makhham Tia	Changwat	Kanchanaburi
Drainage Area	1,725	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+49.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+56.000 m. (MSL.)
Gage Reading Frequency	5-time daily reading at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2006 to date					
Rating Operation						
Period of Rating	2006 to date					
Rated by Flot	-					
Rated by Current Meter	2006 to date					
Stability of Channel Regimes	Fairly stable with variable water surface slope.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 43 discharge measurements made in 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	49.50	49.96	50.15	49.76	50.34	49.79	49.83	50.83	49.82	49.51	49.41	49.26	
2	49.48	50.08	50.56	49.74	51.14	49.79	49.81	50.71	49.82	49.51	49.41	49.26	
3	49.47	49.98	50.18	49.71	51.25	49.78	49.80	50.61	49.81	49.50	49.41	49.26	
4	49.47	50.13	50.99	49.70	50.73	49.78	49.82	50.52	49.81	49.50	49.41	49.26	
5	49.58	50.04	50.86	49.79	50.44	49.77	49.89	50.44	49.80	49.49	49.41	49.26	
6	49.62	50.01	50.44	49.95	50.27	49.77	49.99	50.38	49.80	49.48	49.41	49.26	
7	49.69	49.97	50.30	49.81	50.17	49.76	50.85	50.31	49.79	49.48	49.41	49.25	
8	49.81	50.03	50.19	49.76	50.10	49.72	52.66	50.27	49.75	49.47	49.41	49.25	
9	49.74	49.97	50.11	49.70	50.06	49.69	52.88	50.23	49.67	49.46	49.41	49.25	
10	49.71	49.93	50.06	49.65	50.03	49.74	51.76	50.19	49.66	49.43	49.40	49.25	
11	49.75	49.93	50.02	49.63	50.00	49.95	51.46	50.17	49.66	49.41	49.38	49.26	
12	49.70	49.92	49.97	49.60	49.99	50.50	51.74	50.14	49.65	49.39	49.36	49.25	
13	49.64	50.03	49.94	49.58	49.97	50.67	51.91	50.10	49.63	49.39	49.35	49.25	
14	49.59	50.48	49.95	49.57	49.95	50.43	51.84	50.06	49.62	49.39	49.34	49.25	
15	49.57	50.77	49.94	49.56	50.04	50.23	51.34	50.02	49.61	49.39	49.33	49.25	
16	49.55	50.91	49.95	49.56	50.02	50.12	51.52	50.00	49.60	49.39	49.33	49.25	
17	49.52	50.71	49.93	49.56	49.98	50.06	51.48	49.98	49.60	49.39	49.33	49.25	
18	49.47	50.57	49.91	49.56	49.95	50.01	52.18	49.97	49.59	49.40	49.33	49.25	
19	49.49	50.52	50.04	49.55	49.92	49.98	51.82	49.95	49.59	49.42	49.33	49.25	
20	49.88	50.40	50.03	49.54	49.90	49.94	51.39	49.94	49.58	49.41	49.33	49.25	
21	49.73	50.30	50.02	49.56	49.88	49.92	51.23	49.92	49.57	49.41	49.33	49.25	
22	49.60	50.23	50.15	49.63	49.86	49.90	51.26	49.90	49.56	49.41	49.33	49.25	
23	49.55	50.18	50.19	49.74	49.85	49.89	51.11	49.88	49.56	49.41	49.28	49.25	
24	49.52	50.12	50.04	49.83	49.81	49.88	51.01	49.89	49.55	49.41	49.26	49.25	
25	49.82	50.08	49.95	49.85	49.79	49.88	50.80	49.91	49.55	49.41	49.26	49.25	
26	50.17	50.18	49.87	49.77	49.79	49.92	50.96	49.86	49.54	49.41	49.26	49.25	
27	50.13	50.33	49.85	49.81	49.79	49.99	50.85	49.83	49.53	49.41	49.26	49.25	
28	49.92	50.21	49.91	49.79	49.81	49.95	50.76	49.83	49.53	49.41	49.26	49.25	
29	50.03	50.14	49.89	49.78	49.85	49.90	51.08	49.82	49.52	49.41	49.26	49.25	
30	50.19	50.07	49.81	49.68	49.85	49.86	51.20	49.82	49.51				

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.50	9.00	13.05	5.63	17.88	6.09	6.72	33.05	6.56	2.60	1.87	0.86	
2	2.36	11.40	24.10	5.32	44.80	6.09	6.41	28.85	6.56	2.60	1.87	0.86	
3	2.29	9.40	13.80	4.85	49.25	5.94	6.25	25.62	6.41	2.50	1.87	0.86	
4	2.29	12.55	38.83	4.70	29.55	5.94	6.56	22.90	6.41	2.50	1.87	0.86	
5	3.30	10.60	34.10	6.09	20.62	5.78	7.64	20.62	6.25	2.43	1.87	0.86	
6	3.74	10.00	20.62	8.80	16.05	5.78	9.60	18.96	6.25	2.36	1.87	0.86	
7	4.58	9.20	16.80	6.41	13.55	5.63	33.75	17.07	6.09	2.36	1.87	0.80	
8	6.41	10.40	14.05	5.63	11.80	5.01	117.10	16.05	5.47	2.29	1.87	0.80	
9	5.32	9.20	12.05	4.70	11.00	4.58	129.20	15.05	4.34	2.22	1.87	0.80	
10	4.85	8.40	11.00	4.10	10.40	5.32	71.62	14.05	4.22	2.01	1.80	0.80	
11	5.47	8.40	10.20	3.86	9.80	8.80	58.08	13.55	4.22	1.87	1.66	0.86	
12	4.70	8.20	9.20	3.50	9.60	22.30	70.68	12.80	4.10	1.73	1.52	0.80	
13	3.98	10.40	8.60	3.30	9.20	27.54	78.78	11.80	3.86	1.73	1.45	0.80	
14	3.40	21.74	8.80	3.20	8.80	20.34	75.42	11.00	3.74	1.73	1.38	0.80	
15	3.20	30.95	8.60	3.10	10.60	15.05	52.98	10.20	3.62	1.73	1.31	0.80	
16	3.00	35.87	8.80	3.10	10.20	12.30	60.70	9.80	3.50	1.73	1.31	0.80	
17	2.70	28.85	8.40	3.10	9.40	11.00	58.94	9.40	3.50	1.73	1.31	0.80	
18	2.29	24.40	8.00	3.10	8.80	10.00	92.00	9.20	3.40	1.80	1.31	0.80	
19	2.43	22.90	10.60	3.00	8.20	9.40	74.46	8.80	3.40	1.94	1.31	0.80	
20	7.49	19.50	10.40	2.90	7.80	8.60	55.08	8.60	3.30	1.87	1.31	0.80	
21	5.16	16.80	10.20	3.10	7.49	8.20	48.43	8.20	3.20	1.87	1.31	0.80	
22	3.50	15.05	13.05	3.86	7.18	7.80	49.66	7.80	3.10	1.87	1.31	0.80	
23	3.00	13.80	14.05	5.32	7.02	7.64	43.60	7.49	3.10	1.87	0.98	0.80	
24	2.70	12.30	10.60	6.72	6.41	7.49	39.60	7.64	3.00	1.87	0.86	0.80	
25	6.56	11.40	8.80	7.02	6.09	7.49	32.00	8.00	3.00	1.87	0.86	0.80	
26	13.55	13.80	7.33	5.78	6.09	8.20	37.72	7.18	2.90	1.87	0.86	0.80	
27	12.55	17.61	7.02	6.41	6.09	9.60	33.75	6.72	2.80	1.87	0.86	0.80	
28	8.20	14.55	8.00	6.09	6.41	8.80	30.60	6.72	2.80	1.87	0.86	0.80	
29	10.40	12.80	7.64	5.94	7.02	7.80	42.40	6.56	2.70	1.87	0.86	0.80	
30	14.05	11.20	6.41	4.46	7.02	7.18	47.20	6.56	2.60	1.87		0.80	
31		11.60		6.87	6.41		39.60		2.60	1.87		0.80	
Total	155.97	462.27	383.10	149.96	390.53	281.69	1516.53	390.24	127.00	62.30	41.26		

WATER YEAR : 2011

PRACHIN BURI RIVER BASIN

Prachin Buri River at Ban Kabin Buri , Prachin Buri (Kgt.3)

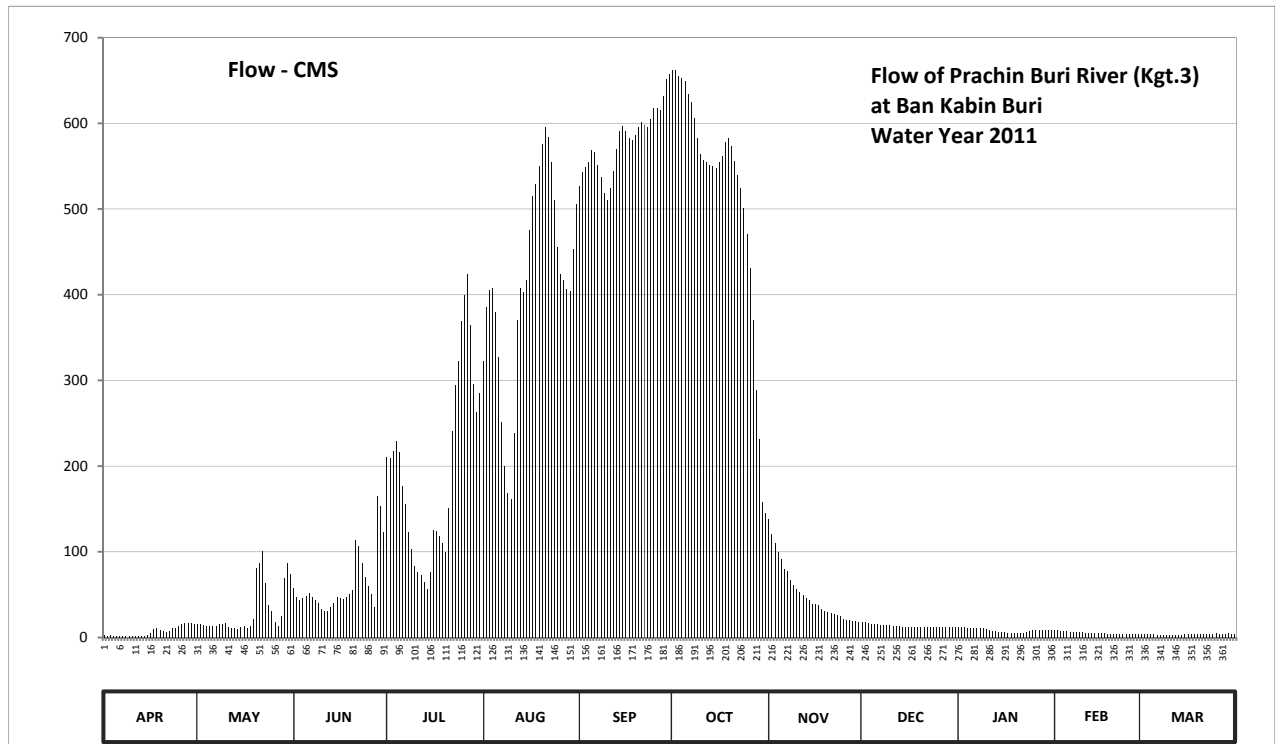
Lat 13 - 59 - 00 N Long 101 - 42 - 26 E

Location : on left bank in front of Amphoe Kabin Buri Office and about 500 meters downstream from the confluence of Lam Phra Prong.

	Ban	Kabin Buri	Amphoe	Kabin Buri	Changwat	Prachin Buri
Drainage Area	7,425	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 5 meters from the top staff gage.				Elevation	+11.410 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1941 to date					
Rating Operation						
Period of Rating	1941 - 1943 , 1945, 1964 to date					
Rated by Flot	-					
Rated by Current Meter	1941 - 1943 , 1945, 1964 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.18	0.81	2.33	5.53	7.18	9.47	10.71	4.24	0.94	0.65	0.47	0.24	
2	0.16	0.82	1.97	5.51	7.96	9.63	10.71	3.89	0.93	0.65	0.46	0.23	
3	0.17	0.77	1.87	5.64	8.20	9.68	10.65	3.62	0.90	0.64	0.44	0.23	
4	0.15	0.73	1.95	5.84	8.23	9.74	10.63	3.36	0.86	0.63	0.43	0.23	
5	0.14	0.74	2.03	5.63	7.90	9.86	10.59	3.15	0.86	0.63	0.40	0.23	
6	0.15	0.69	2.13	4.96	7.24	9.84	10.46	2.88	0.83	0.62	0.38	0.22	
7	0.13	0.73	1.96	4.60	6.18	9.70	10.37	2.82	0.80	0.62	0.37	0.22	
8	0.12	0.84	1.87	3.94	5.34	9.57	10.20	2.54	0.77	0.62	0.36	0.22	
9	0.12	0.85	1.73	3.46	4.82	9.39	9.99	2.42	0.76	0.61	0.36	0.21	
10	0.12	0.87	1.49	2.95	4.71	9.30	9.82	2.29	0.75	0.55	0.36	0.21	
11	0.11	0.66	1.43	2.79	5.98	9.44	9.76	2.17	0.74	0.49	0.34	0.21	
12	0.12	0.62	1.44	2.69	7.78	9.64	9.73	2.05	0.71	0.43	0.32	0.20	
13	0.12	0.58	1.60	2.50	8.23	9.87	9.70	1.95	0.70	0.41	0.31	0.22	
14	0.12	0.56	1.75	2.30	8.18	10.06	9.69	1.86	0.68	0.39	0.30	0.22	
15	0.22	0.65	1.97	2.78	8.33	10.12	9.67	1.71	0.68	0.37	0.29	0.23	
16	0.31	0.69	1.94	3.98	8.96	10.06	9.74	1.70	0.68	0.35	0.29	0.26	
17	0.52	0.62	1.88	3.96	9.35	9.99	9.80	1.65	0.68	0.34	0.28	0.26	
18	0.62	0.74	1.96	3.83	9.49	9.97	9.95	1.50	0.67	0.34	0.27	0.26	
19	0.49	1.11	2.07	3.64	9.69	10.02	9.99	1.43	0.67	0.33	0.27	0.26	
20	0.42	2.91	2.25	3.38	9.93	10.11	9.90	1.38	0.67	0.33	0.27	0.25	
21	0.38	3.04	3.73	4.51	10.11	10.16	9.75	1.33	0.66	0.33	0.26	0.25	
22	0.42	3.41	3.53	6.03	10.00	10.13	9.60	1.30	0.66	0.33	0.26	0.27	
23	0.58	2.45	3.06	6.79	9.73	10.11	9.44	1.27	0.66	0.35	0.25	0.27	
24	0.61	1.67	2.65	7.18	9.31	10.19	9.21	1.23	0.67	0.42	0.25	0.27	
25	0.70	1.43	2.37	7.77	8.75	10.31	8.91	1.12	0.66	0.47	0.25	0.28	
26	0.83	0.93	2.09	8.14	8.41	10.31	8.49	1.09	0.66	0.48	0.24	0.27	
27	0.89	0.71	1.60	8.41	8.33	10.29	7.78	1.06	0.66	0.47	0.24	0.27	
28	0.90	1.25	4.76	7.71	8.22	10.43	6.71	1.02	0.66	0.47	0.25	0.27	
29	0.91	2.62	4.55	6.80	8.19	10.62	5.88	0.99	0.66	0.47	0.24	0.28	
30	0.86	3.06	3.95	6.35	8.73	10.67	4.63	0.96	0.65	0.48		0.27	
31		2.72		6.66	9.26		4.39		0.65	0.50		0.26	
Mean	0.39	1.30	2.33	5.04	8.15	9.96	9.25	2.00	0.73	0.48	0.32	0.24	
Max	0.91	3.41	4.76	8.41	10.11	10.67	10.71	4.24	0				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.60	15.20	58.20	210.80	322.40	527.00	662.10	138.00	17.80	12.00	8.40	3.80		
2	2.20	15.40	47.10	209.60	384.80	543.30	662.10	120.60	17.60	12.00	8.20	3.60		
3	2.40	14.40	44.10	217.40	405.00	548.80	655.50	109.80	17.00	11.80	7.80	3.60		
4	2.00	13.60	46.50	229.40	407.70	555.40	653.30	99.40	16.20	11.60	7.60	3.60		
5	1.80	13.80	48.90	216.80	380.00	568.60	648.90	91.00	16.20	11.60	7.00	3.60		
6	2.00	12.80	51.90	176.60	327.20	566.40	634.60	80.20	15.60	11.40	6.60	3.40		
7	1.60	13.60	46.80	156.00	251.60	551.00	624.70	77.80	15.00	11.40	6.40	3.40		
8	1.40	15.80	44.10	123.00	199.40	537.00	606.00	66.60	14.40	11.40	6.20	3.40		
9	1.40	16.00	39.90	103.40	168.20	519.00	582.90	61.80	14.20	11.20	6.20	3.20		
10	1.40	16.40	32.70	83.00	161.60	510.00	564.20	56.70	14.00	10.00	6.20	3.20		
11	1.20	12.20	30.90	76.60	237.80	524.00	557.60	53.10	13.80	8.80	5.80	3.20		
12	1.40	11.40	31.20	72.60	370.40	544.40	554.30	49.50	13.20	7.60	5.40	3.00		
13	1.40	10.60	36.00	65.00	407.70	569.70	551.00	46.50	13.00	7.20	5.20	3.40		
14	1.40	10.20	40.50	57.00	403.20	590.60	549.90	43.80	12.60	6.80	5.00	3.40		
15	3.40	12.00	47.10	76.20	416.70	597.20	547.70	39.30	12.60	6.40	4.80	3.60		
16	5.20	12.80	46.20	125.00	476.00	590.60	555.40	39.00	12.60	6.00	4.80	4.20		
17	9.40	11.40	44.40	124.00	515.00	582.90	562.00	37.50	12.60	5.80	4.60	4.20		
18	11.40	13.80	46.80	118.20	529.00	580.70	578.50	33.00	12.40	5.80	4.40	4.20		
19	8.80	21.30	50.10	110.60	549.90	586.20	582.90	30.90	12.40	5.60	4.40	4.20		
20	7.40	81.40	55.50	100.20	576.30	596.10	573.00	29.40	12.40	5.60	4.40	4.00		
21	6.60	86.60	114.20	151.50	596.10	601.60	556.50	27.90	12.20	5.60	4.20	4.00		
22	7.40	101.40	106.20	241.10	584.00	598.30	540.00	27.00	12.20	5.60	4.20	4.40		
23	10.60	63.00	87.40	294.30	554.30	596.10	524.00	26.10	12.20	6.00	4.00	4.40		
24	11.20	38.10	71.00	322.40	511.00	604.90	501.00	24.90	12.40	7.40	4.00	4.40		
25	13.00	30.90	59.80	369.60	455.00	618.10	471.00	21.60	12.20	8.40	4.00	4.60		
26	15.60	17.60	50.70	399.60	423.90	618.10	431.10	20.80	12.20	8.60	3.80	4.40		
27	16.80	13.20	36.00	423.90	416.70	615.90	370.40	20.20	12.20	8.40	3.80	4.40		
28	17.00	25.50	164.60	364.80	406.80	631.30	288.70	19.40	12.20	8.40	4.00	4.40		
29	17.20	69.80	153.50	295.00	404.10	652.20	231.80	18.80	12.20	8.40	3.80	4.60		
30	16.20	87.40	123.50	263.50	453.00	657.70	157.50	18.20	12.00	8.60		4.40		
31		73.80		285.20	506.00		145.50		12.00	9.00		4.20		
Total	201.40	951.40	1855.80	6062.30	12800.80	17383.10	16124.10	1528.80	419.60	264.40	155.20	120.40	57867.30	CMSDAY
Mean	6.71	30.69	61.86	195.56	412.93	579.44	520.13	50.96	13.54	8.53	5.35	3.88	158.11	CMS
Max	17.20	101.40	164.60	423.90	596.10	657.70	662.10	138.00	17.80	12.00	8.40	4.60	662.10	CMS
Min	1.20	10.20	30.90	57.00	161.60	510.00	145.50	18.20	12.00	5.60	3.80	3.00	1.20	CMS
Runoff	17.40	82.20	160.34	523.78	1105.99	1501.90	1393.12	132.09	36.25	22.84	13.41	10.40	4999.74	MCM
Momentary Peak	663.20 CMS, at 10.72 m. (MSL), at 18.00 Hours, on Oct 1, 2011													
Runoff Yield	21.29	Liters/Second/Square KM.			Momentary Peak Yield		89.320	Liters/Second/Square KM.						

WATER YEAR : 2011

PRACHIN BURI RIVER BASIN

Khlong Phra Sathung at Ban Khao Chakan , Sa Kaeo (Kgt.9)

Lat 13 - 40 - 11 N Long 102 - 04 - 38 E

Location : on right bank near Wat Khao Chakan.

	Ban	Khao Chakan	Amphoe	Khao Chakan	Changwat	Sa Kaeo
Drainage Area	2,264	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+39.570	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 10 meters from the automatic gage building.				Elevation	+50.745 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1972 to date					
Rating Operation						
Period of Rating	1972 - 1987 , 1989 to date					
Rated by Flot	-					
Rated by Current Meter	1972 - 1987 , 1989 to date					
Stability of Channel Regimes	Fairly stable with variable water surface slope.					
Overbank Flow Conditions	Overbank flow starts at elevation +49.200 m.(MSL.) and is including overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.18	43.34	43.48	43.36	43.36	44.17	44.25	43.49	43.25	43.18	43.22	43.17	
2	43.19	43.30	43.51	43.35	43.53	45.56	44.19	43.45	43.22	43.20	43.22	43.17	
3	43.19	43.26	43.39	43.35	43.81	46.00	44.02	43.44	43.18	43.20	43.22	43.17	
4	43.18	43.25	43.45	43.32	43.60	44.86	44.43	43.43	43.18	43.21	43.21	43.17	
5	43.18	43.36	43.40	43.32	43.42	44.84	44.60	43.43	43.23	43.20	43.21	43.17	
6	43.15	43.42	43.37	43.36	43.39	44.19	44.67	43.38	43.24	43.18	43.21	43.17	
7	43.17	43.44	43.32	43.32	43.37	44.18	44.92	43.41	43.24	43.17	43.21	43.17	
8	43.20	43.37	43.28	43.32	43.52	44.00	45.01	43.41	43.24	43.18	43.20	43.17	
9	43.19	43.36	43.31	43.27	43.60	44.41	44.64	43.41	43.24	43.17	43.20	43.17	
10	43.19	43.41	43.27	43.27	43.99	45.71	47.72	43.43	43.24	43.17	43.20	43.17	
11	43.19	43.34	43.27	43.27	44.40	47.31	49.65	43.40	43.23	43.18	43.20	43.17	
12	43.16	43.31	43.29	43.25	44.87	49.31	49.00	43.34	43.23	43.18	43.17	43.17	
13	43.14	43.29	43.31	43.25	45.96	50.54	47.94	43.28	43.23	43.17	43.17	43.17	
14	43.50	43.36	43.28	43.24	44.32	50.65	45.28	43.26	43.23	43.17	43.17	43.17	
15	43.18	43.42	43.32	43.40	44.60	48.94	44.61	43.26	43.23	43.17	43.17	43.17	
16	43.17	43.45	43.36	43.42	45.67	46.08	45.95	43.26	43.24	43.16	43.17	43.17	
17	43.18	43.47	43.32	43.42	47.00	45.61	45.95	43.27	43.23	43.19	43.17	43.17	
18	43.17	44.19	43.27	43.40	45.50	45.14	46.07	43.30	43.22	43.21	43.17	43.17	
19	43.19	45.42	43.29	43.39	44.36	44.78	44.40	43.28	43.23	43.21	43.17	43.32	
20	43.21	43.93	43.37	43.42	44.08	44.69	44.28	43.29	43.22	43.19	43.17	43.32	
21	43.43	43.66	43.39	43.60	43.79	45.12	45.85	43.31	43.22	43.19	43.17	43.27	
22	43.42	43.50	43.37	44.22	43.70	45.03	45.17	43.26	43.22	43.22	43.17	43.27	
23	43.52	43.39	43.36	44.37	43.59	45.11	44.08	43.28	43.21	43.21	43.17	43.27	
24	43.51	43.31	43.35	43.83	43.49	46.26	43.87	43.27	43.21	43.20	43.17	43.22	
25	43.45	43.38	43.32	43.91	44.14	48.11	43.76	43.28	43.21	43.21	43.17	43.22	
26	43.43	43.45	43.30	43.72	45.16	48.62	43.70	43.27	43.20	43.20	43.17	43.22	
27	43.36	43.54	43.28	43.51	46.69	47.10	43.62	43.26	43.20	43.21	43.17	43.22	
28	43.30	43.52	43.28	43.47	45.24	46.20	43.58	43.26	43.21	43.20	43.17	43.22	
29	43.29	43.51	43.29	43.49	45.51	46.85	43.54	43.25	43.20	43.20	43.17	43.22	
30	43.37	43.44	43.33	43.55	45.54	46.31	43.54	43.25	43.20				

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.00	17.40	26.60	18.60	18.60	80.30	88.00	27.30	12.50	9.00	11.00	8.50	
2	9.50	15.00	28.70	18.00	30.10	160.20	82.10	24.50	11.00	10.00	11.00	8.50	
3	9.50	13.00	20.40	18.00	49.80	174.00	66.80	23.80	9.00	10.00	11.00	8.50	
4	9.00	12.50	24.50	16.20	35.00	150.60	106.00	23.10	9.00	10.50	10.50	8.50	
5	9.00	18.60	21.00	16.20	22.40	150.40	124.00	23.10	11.50	10.00	10.50	8.50	
6	7.50	22.40	19.20	18.60	20.40	82.10	132.40	19.80	12.00	9.00	10.50	8.50	
7	8.50	23.80	16.20	16.20	19.20	81.20	151.20	21.70	12.00	8.50	10.50	8.50	
8	10.00	19.20	14.00	16.20	29.40	65.00	152.10	21.70	12.00	9.00	10.00	8.50	
9	9.50	18.60	15.60	13.50	35.00	104.00	128.80	21.70	12.00	8.50	10.00	8.50	
10	9.50	21.70	13.50	13.50	64.20	164.30	298.20	23.10	12.00	8.50	10.00	8.50	
11	9.50	17.40	13.50	13.50	103.00	256.90	533.00	21.00	11.50	9.00	10.00	8.50	
12	8.00	15.60	14.50	12.50	150.70	487.30	447.00	17.40	11.50	9.00	8.50	8.50	
13	7.00	14.50	15.60	12.50	172.40	666.00	322.40	14.00	11.50	8.50	8.50	8.50	
14	28.00	18.60	14.00	12.00	95.00	682.50	154.80	13.00	11.50	8.50	8.50	8.50	
15	9.00	22.40	16.20	21.00	124.00	439.80	125.20	13.00	11.50	8.50	8.50	8.50	
16	8.50	24.50	18.60	22.40	163.10	177.20	172.00	13.00	12.00	8.00	8.50	8.50	
17	9.00	25.90	16.20	22.40	231.00	161.30	172.00	13.50	11.50	9.50	8.50	8.50	
18	8.50	82.10	13.50	21.00	159.00	153.40	176.80	15.00	11.00	10.50	8.50	8.50	
19	9.50	157.40	14.50	20.40	99.00	147.20	103.00	14.00	11.50	10.50	8.50	16.20	
20	10.50	59.40	19.20	22.40	72.20	134.80	91.00	14.50	11.00	9.50	8.50	16.20	
21	23.10	39.20	20.40	35.00	48.30	153.20	168.50	15.60	11.00	9.50	8.50	13.50	
22	22.40	28.00	19.20	85.00	42.00	152.30	153.70	13.00	11.00	11.00	8.50	13.50	
23	29.40	20.40	18.60	100.00	34.30	153.10	72.20	14.00	10.50	10.50	8.50	13.50	
24	28.70	15.60	18.00	51.40	27.30	184.40	54.60	13.50	10.50	10.00	8.50	11.00	
25	24.50	19.80	16.20	57.80	77.60	341.10	46.20	14.00	10.50	10.50	8.50	11.00	
26	23.10	24.50	15.00	43.40	153.60	401.40	42.00	13.50	10.00	10.00	8.50	11.00	
27	18.60	30.80	14.00	28.70	209.30	239.00	36.40	13.00	10.00	10.50	8.50	11.00	
28	15.00	29.40	14.00	25.90	154.40	182.00	33.60	13.00	10.50	10.00	8.50	11.00	
29	14.50	28.70	14.50	27.30	159.20	220.50	30.80	12.50	10.00	10.00	8.50	11.00	
30	19.20	23.80	16.80	31.50	159.80	186.50	30.80	12.50	10.00	11.00			

WATER YEAR : 2011

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Kaeng , Sa Kaeo (Kgt.12)

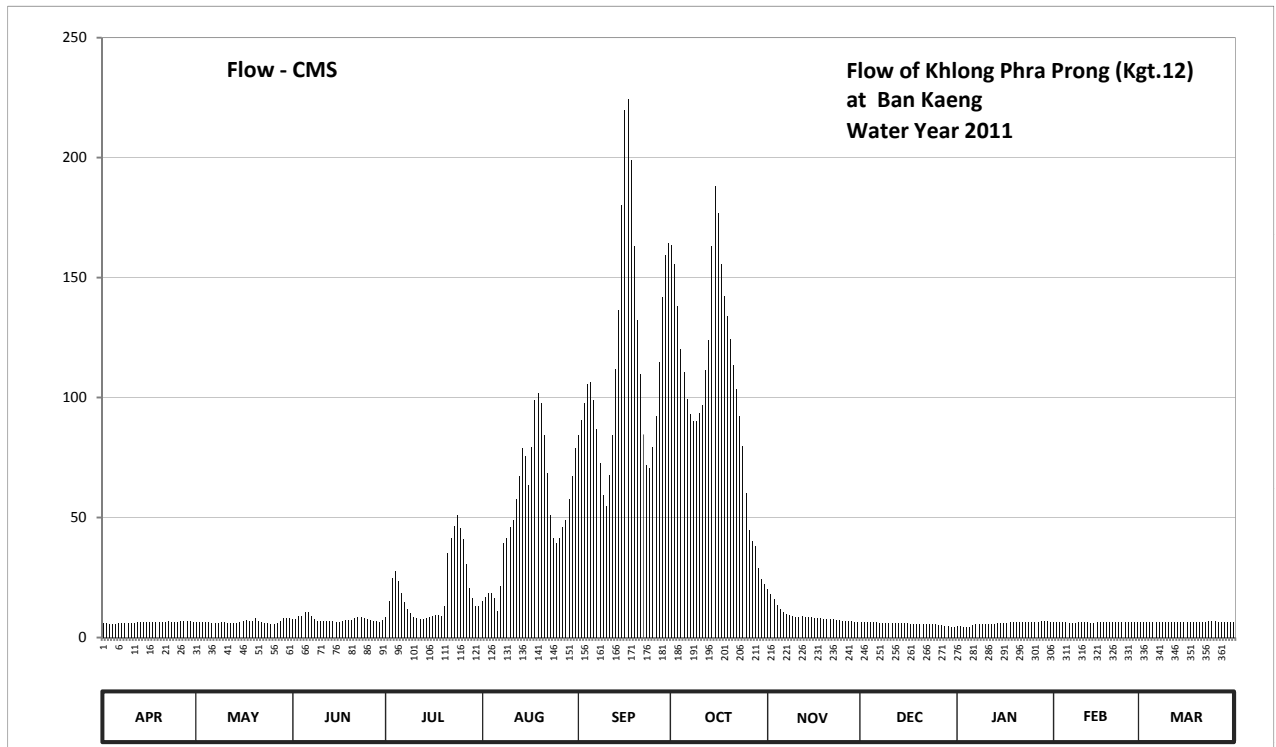
Lat 13 - 56 - 10 N Long 101 - 58 - 27 E

Location : on left bank near the railway station at Ban Kaeng at about 200 meters upstream from Thot Saphon Sawmill.

	Ban	Kaeng	Amphoe	Mueang	Changwat	Sa Kaeo
Drainage Area	1,478	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+13.835	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank in front of the gage observer's house.				Elevation	+23.522 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1966 to date					
Rating Operation						
Period of Rating	1966 to date					
Rated by Flot	-					
Rated by Current Meter	1966 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	Overbank flow starts at elevation +22.240 m.(MSL.), records are channel flow only.					
General Description	Records fair. The concrete weir situated about 7 kilometers downstream from the gage site. Stage-discharge relation defined by 27 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.17	16.22	16.33	16.40	16.70	20.41	22.08	16.91	16.23	16.06	16.20	16.22	
2	16.17	16.21	16.31	16.71	16.77	20.61	21.96	16.82	16.22	16.05	16.20	16.22	
3	16.16	16.21	16.43	17.06	16.85	20.81	21.67	16.74	16.22	16.04	16.20	16.22	
4	16.16	16.21	16.43	17.13	16.84	20.94	21.34	16.65	16.21	16.03	16.20	16.22	
5	16.16	16.20	16.50	17.03	16.75	20.96	21.05	16.57	16.20	16.04	16.20	16.23	
6	16.17	16.18	16.50	16.84	16.52	20.83	20.84	16.50	16.20	16.09	16.19	16.23	
7	16.19	16.17	16.42	16.69	16.95	20.49	20.69	16.46	16.19	16.14	16.19	16.23	
8	16.19	16.17	16.33	16.57	17.39	19.96	20.60	16.44	16.18	16.15	16.19	16.23	
9	16.18	16.21	16.27	16.48	17.86	19.35	20.60	16.42	16.18	16.14	16.20	16.23	
10	16.19	16.20	16.27	16.41	18.49	19.13	20.70	16.41	16.19	16.14	16.20	16.23	
11	16.19	16.19	16.25	16.37	18.77	19.73	20.79	16.40	16.19	16.16	16.20	16.23	
12	16.20	16.17	16.24	16.34	19.27	20.41	21.08	16.43	16.19	16.16	16.20	16.23	
13	16.20	16.17	16.27	16.32	19.71	21.09	21.42	16.41	16.18	16.15	16.19	16.23	
14	16.20	16.19	16.25	16.36	20.22	21.64	22.07	16.40	16.18	16.18	16.19	16.23	
15	16.20	16.23	16.23	16.39	20.09	22.29	22.38	16.39	16.17	16.19	16.20	16.23	
16	16.21	16.24	16.22	16.42	19.54	22.68	22.25	16.38	16.17	16.19	16.20	16.22	
17	16.21	16.29	16.24	16.45	20.23	22.72	21.96	16.37	16.16	16.19	16.20	16.22	
18	16.21	16.27	16.30	16.44	20.83	22.49	21.74	16.36	16.16	16.20	16.20	16.22	
19	16.20	16.27	16.29	16.42	20.88	22.07	21.60	16.34	16.16	16.21	16.21	16.22	
20	16.20	16.36	16.29	16.63	20.81	21.57	21.43	16.33	16.15	16.21	16.21	16.21	
21	16.23	16.25	16.36	17.30	20.41	21.02	21.15	16.32	16.15	16.21	16.21	16.22	
22	16.24	16.20	16.40	17.87	19.76	20.42	20.91	16.31	16.14	16.22	16.21	16.23	
23	16.22	16.18	16.39	18.53	18.88	19.92	20.67	16.29	16.14	16.22	16.21	16.24	
24	16.22	16.17	16.37	18.90	17.87	19.87	20.25	16.28	16.13	16.22	16.21	16.24	
25	16.23	16.16	16.33	18.48	17.39	20.23	19.40	16.27	16.13	16.22	16.21	16.24	
26	16.25	16.16	16.29	17.78	17.86	20.66	18.36	16.26	16.12	16.21	16.21	16.23	
27	16.25	16.17	16.26	17.20	18.49	21.19	17.49	16.25	16.10	16.21	16.22	16.23	
28	16.25	16.25	16.24	16.93	18.77	21.73	17.36	16.24	16.07	16.24	16.22	16.22	
29	16.24	16.36	16.23	16.75	19.27	22.02	17.16	16.23	16.05	16.25	16.22	16.22	
30	16.23	16.37	16.28	16.62	19.71	22.09	17.05	16.23	16.04				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.91	6.47	7.71	8.50	15.00	84.30	163.60	20.25	6.59	4.67	6.25	6.47		
2	5.91	6.36	7.49	15.25	16.75	90.35	155.60	18.00	6.47	4.56	6.25	6.47		
3	5.80	6.36	9.10	24.90	18.75	97.60	138.20	16.00	6.47	4.45	6.25	6.47		
4	5.80	6.36	9.10	27.70	18.50	105.40	120.00	13.75	6.36	4.34	6.25	6.47		
5	5.80	6.25	10.50	23.70	16.25	106.60	110.50	11.90	6.25	4.45	6.25	6.59		
6	5.91	6.03	10.50	18.50	10.90	98.80	99.40	10.50	6.25	5.01	6.14	6.59		
7	6.14	5.91	8.90	14.75	21.25	86.70	93.15	9.70	6.14	5.57	6.14	6.59		
8	6.14	5.91	7.71	11.90	39.52	72.62	90.00	9.30	6.03	5.69	6.14	6.59		
9	6.03	6.36	7.04	10.10	41.30	59.28	90.00	8.90	6.03	5.57	6.25	6.59		
10	6.14	6.25	7.04	8.70	45.90	54.88	93.50	8.70	6.14	5.57	6.25	6.59		
11	6.14	6.14	6.81	8.16	49.12	67.59	96.65	8.50	6.14	5.80	6.25	6.59		
12	6.25	5.91	6.70	7.83	57.53	84.30	111.40	9.10	6.14	5.80	6.25	6.59		
13	6.25	5.91	7.04	7.60	67.16	111.70	124.00	8.70	6.03	5.69	6.14	6.59		
14	6.25	6.14	6.81	8.05	79.00	136.40	162.90	8.50	6.03	6.03	6.14	6.59		
15	6.25	6.59	6.59	8.39	75.75	180.20	188.20	8.39	5.91	6.14	6.25	6.59		
16	6.36	6.70	6.47	8.90	63.44	219.60	177.00	8.27	5.91	6.14	6.25	6.47		
17	6.36	7.26	6.70	9.50	79.25	224.40	155.60	8.16	5.80	6.14	6.25	6.47		
18	6.36	7.04	7.37	9.30	98.80	199.00	142.40	8.05	5.80	6.25	6.25	6.47		
19	6.25	7.04	7.26	8.90	101.80	162.90	134.00	7.83	5.80	6.36	6.36	6.47		
20	6.25	8.05	7.26	13.25	97.60	132.20	124.50	7.71	5.69	6.36	6.36	6.36		
21	6.59	6.81	8.05	35.25	84.30	109.60	113.50	7.60	5.69	6.36	6.36	6.47		
22	6.70	6.25	8.50	41.35	68.25	84.60	103.60	7.49	5.57	6.47	6.36	6.59		
23	6.47	6.03	8.39	46.30	50.88	71.75	92.45	7.26	5.57	6.47	6.36	6.70		
24	6.47	5.91	8.16	51.20	41.35	70.66	79.75	7.15	5.46	6.47	6.36	6.70		
25	6.59	5.80	7.71	45.80	39.52	79.25	60.37	7.04	5.46	6.47	6.36	6.70		
26	6.81	5.80	7.26	40.95	41.30	92.10	44.60	6.93	5.35	6.36	6.36	6.59		
27	6.81	5.91	6.93	30.50	45.90	114.70	40.23	6.81	5.13	6.36	6.47	6.59		
28	6.81	6.81	6.70	20.75	49.12	141.80	38.10	6.70	4.79	6.70	6.47	6.47		
29	6.70	8.05	6.59	16.25	57.53	159.40	28.90	6.59	4.56	6.81	6.47	6.47		
30	6.59	8.16	7.15	13.00	67.16	164.30	24.50	6.59	4.45	6.70		6.36		
31		8.05		13.25	79.00		22.25		4.45	6.47		6.25		
Total	188.84	202.62	229.54	608.48	1637.88	3462.98	3218.85	280.37	178.46	182.23	182.24	202.50	10574.99	CMSDAY
Mean	6.29	6.54	7.65	19.63	52.83	115.43	103.83	9.35	5.76	5.88	6.28	6.53	28.89	CMS
Max	6.81	8.16	10.50	51.20	101.80	224.40	188.20	20.25	6.59	6.81	6.47	6.70	224.40	CMS
Min	5.80	5.80	6.47	7.60	10.90	54.88	22.25	6.59	4.45	4.34	6.14	6.25	4.34	CMS
Runoff	16.32	17.51	19.83	52.57	141.51	299.20	278.11	24.22	15.42	15.75	15.75	17.50	913.68	MCM
Momentary Peak	CMS, at 22:76 m. (MSL), at 02.00 Hours, on Sep 17, 2011													
Runoff Yield	19.55	Liters/Second/Square KM.			Momentary Peak Yield		155.074	Liters/Second/Square KM.						

WATER YEAR : 2011

PRACHIN BURI RIVER BASIN

Khlong Phra Prong at Ban Non Suk Phum , Prachin Buri (Kgt.13A)

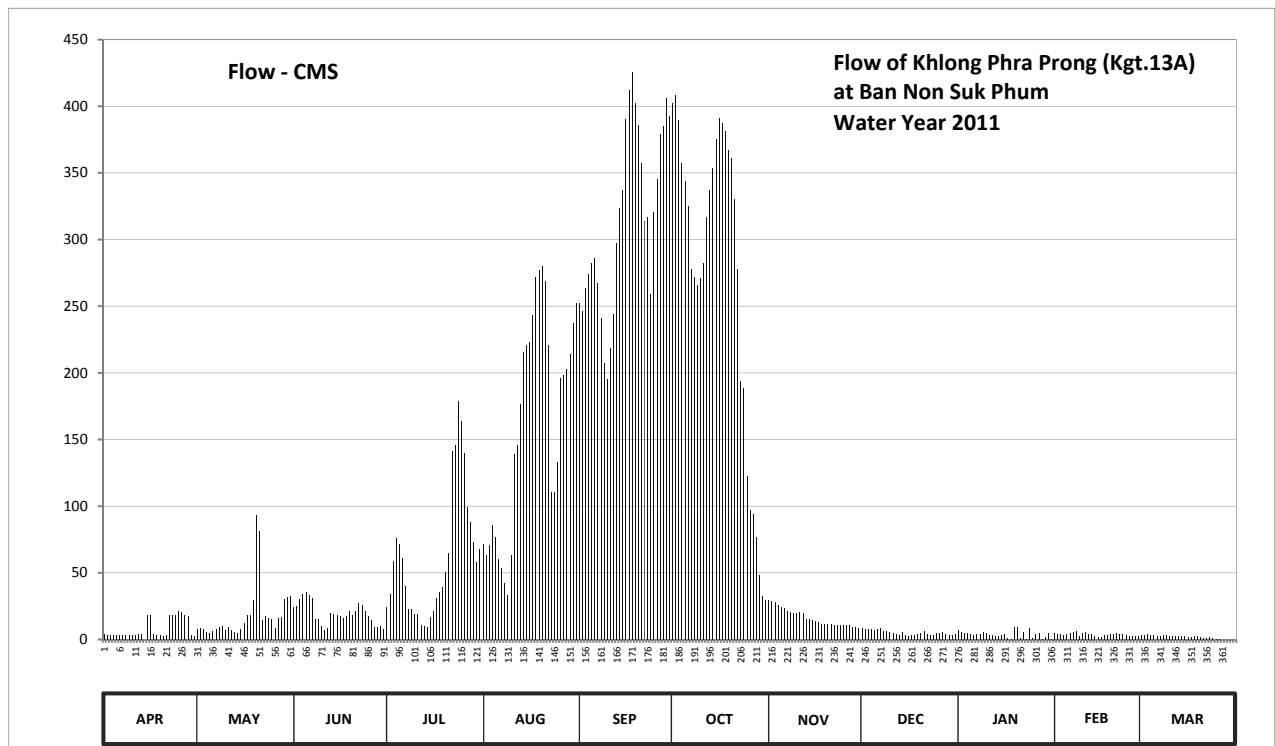
Lat 13 - 54 - 29 N Long 101 - 50 - 32 E

Location : on left bank about 21 kilometers upstream from station Kgt.13

	Ban	Non Suk Phum	Amphoe	Kabin Buri	Changwat	Prachin Buri
Drainage Area	4,906	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the top staff gage.				Elevation	+17.571 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1997 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Fairly stable with variable water surface slope.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.48	5.79	6.92	6.93	9.93	14.65	16.12	7.26	5.82	5.72	5.56	5.41	
2	5.47	5.83	6.95	7.58	9.53	14.58	16.18	7.20	5.80	5.64	5.52	5.47	
3	5.46	5.78	7.33	9.27	9.88	14.77	15.98	7.15	5.78	5.60	5.50	5.49	
4	5.47	5.66	7.57	10.17	10.63	14.88	15.67	7.02	5.77	5.56	5.47	5.40	
5	5.47	5.58	7.67	9.92	10.19	14.96	15.56	6.91	5.75	5.51	5.53	5.40	
6	5.47	5.70	7.53	9.40	9.37	15.00	15.39	6.87	5.80	5.42	5.55	5.37	
7	5.47	5.81	7.37	7.96	8.89	14.81	14.92	6.73	5.82	5.48	5.66	5.33	
8	5.46	5.90	6.29	6.82	8.14	14.51	14.86	6.65	5.70	5.50	5.70	5.40	
9	5.46	5.96	6.29	6.82	7.55	14.03	14.80	6.62	5.68	5.63	5.38	5.42	
10	5.46	5.73	5.94	6.58	9.52	13.86	14.85	6.60	5.65	5.58	5.57	5.39	
11	5.47	5.89	5.74	6.55	12.63	14.19	14.96	6.66	5.60	5.42	5.62	5.38	
12	5.48	5.74	5.85	5.98	12.82	14.55	15.31	6.62	5.52	5.40	5.54	5.36	
13	5.49	5.65	6.63	5.93	13.53	15.11	15.50	6.32	5.44	5.38	5.48	5.36	
14	4.88	5.60	6.57	5.90	14.15	15.38	15.64	6.30	5.65	5.32	5.32	5.35	
15	6.51	5.80	6.49	6.40	14.22	15.50	15.83	6.26	5.40	5.47	5.30	5.34	
16	6.50	6.10	6.45	6.71	14.26	15.99	16.00	6.22	5.38	5.50	5.26	5.30	
17	5.48	6.52	6.37	7.36	14.54	16.22	15.96	6.14	5.40	5.16	5.42	5.29	
18	5.45	6.53	6.47	7.65	14.86	16.37	15.89	6.06	5.46	5.10	5.46	5.36	
19	5.44	7.27	6.70	7.92	14.91	16.12	15.75	6.05	5.53	5.88	5.50	5.38	
20	5.37	11.01	6.49	8.71	14.94	15.94	15.70	6.04	5.60	5.92	5.52	5.29	
21	5.44	10.43	6.70	9.60	14.83	15.67	15.44	6.03	5.68	5.20	5.55	5.22	
22	6.50	6.23	7.10	12.69	14.23	15.28	14.92	6.02	5.52	5.63	5.50	5.20	
23	6.52	6.44	7.00	12.81	11.70	15.31	13.83	6.00	5.44	5.10	5.48	5.25	
24	6.52	6.35	6.73	13.58	11.70	14.72	13.74	6.00	5.40	5.82	5.40	5.18	
25	6.72	6.29	6.43	13.27	12.45	15.35	12.15	6.00	5.58	5.20	5.36	5.12	
26	6.67	5.84	6.25	12.65	13.87	15.57	11.17	6.00	5.58	5.54	5.36	5.05	
27	6.50	6.33	5.90	11.26	13.90	15.87	11.04	6.00	5.62	5.55	5.34	4.92	
28	6.43	6.42	5.88	10.74	13.97	15.93	10.20	5.92	5.52	5.02	5.36	4.78	
29	5.42	7.30	5.96	9.99	14.13	16.16	8.57	5.88	5.46	5.31	5.30	4.61	
30	5.39	7.40	5.81	9.22	14.46	16.01	7.49	5.85	5.43	5.58		4.57	
31		7.45		9.73	14.65		7.28		5.50	5.12		4.55	
Mean	5.76	6.46	6.58	8.91	12.40	15.24	14.09	6.38	5.59	5.46	5.47	5.22	
Max	6.72												



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.80	7.80	24.45	24.60	71.60	252.50	402.60	29.46	8.24	6.77	4.60	3.10		
2	3.70	8.39	24.89	34.18	63.60	246.40	408.15	28.58	7.95	5.59	4.20	3.70		
3	3.60	7.65	30.49	59.08	70.60	263.30	389.65	27.84	7.65	5.00	4.00	3.90		
4	3.70	5.88	34.03	76.40	85.60	274.00	357.40	25.93	7.51	4.60	3.70	3.00		
5	3.70	4.80	35.51	71.40	76.80	282.00	344.20	24.31	7.21	4.10	4.30	3.00		
6	3.70	6.47	33.44	61.00	60.56	286.00	325.00	23.72	7.95	3.20	4.50	2.70		
7	3.70	8.09	31.08	39.78	53.48	267.00	278.00	21.65	8.24	3.80	5.88	2.30		
8	3.60	9.42	15.17	22.98	42.43	240.80	272.00	20.47	6.47	4.00	6.47	3.00		
9	3.60	10.31	15.17	22.98	33.74	207.10	266.00	20.03	6.18	5.44	2.80	3.20		
10	3.60	6.92	10.01	19.44	63.40	195.60	271.00	19.74	5.74	4.80	4.70	2.90		
11	3.70	9.27	7.06	19.00	139.29	218.30	282.00	20.62		3.20	5.29	2.80		
12	3.80	7.06	8.68	10.60	146.04	244.00	317.00	20.03	4.20	3.00	4.40	2.60		
13	3.90	5.74	20.18	9.86	176.50	297.00	337.00	15.61	3.40	2.80	3.80	2.60		
14	0.00	5.00	19.29	9.42	215.50	324.00	353.80	15.32	5.74	2.20	2.20	2.50		
15	18.41	7.95	18.12	16.79	220.40	337.00	375.77	14.73	3.00	3.70	2.00	2.40		
16	18.26	12.37	17.53	21.36	223.20	390.57	391.50	14.14	2.80	4.00	1.60	2.00		
17	3.80	18.56	16.35	30.94	243.20	411.85	387.80	12.96	3.00	0.80	3.20	1.90		
18	3.50	18.71	17.82	35.21	272.00	425.73	381.33	11.78	3.60	0.50	3.60	2.60		
19	3.40	29.61	21.21	39.19	277.00	402.60	367.00	11.63	4.30	9.13	4.00	2.80		
20	2.70	93.25	18.12	50.83	280.00	385.95	361.00	11.48	5.00	9.72	4.20	1.90		
21	3.40	81.60	21.21	65.00	269.00	357.40	330.40	11.34	6.18	1.00	4.50	1.20		
22	18.26	14.28	27.11	141.42	221.10	314.00	278.00	11.19	4.20	5.44	4.00	1.00		
23	18.56	17.38	25.63	145.69	110.50	317.00	193.80	10.89	3.40	0.50	3.80	1.50		
24	18.56	16.05	21.65	179.00	110.50	258.80	188.40	10.89	3.00	8.24	3.00	0.90		
25	21.51	15.17	17.23	163.50	132.89	321.00	122.62	10.89	4.80	1.00	2.60	0.60		
26	20.77	8.54	14.58	140.00	196.20	345.40	97.25	10.89	4.80	4.40	2.60	0.25		
27	18.26	15.76	9.42	99.50	198.00	379.47	94.00	10.89	5.29	4.50	2.40	0.00		
28	17.23	17.08	9.13	87.80	202.90	385.02	77.00	9.72	4.20	0.10	2.60	0.00		
29	3.20	30.05	10.31	72.80	214.10	406.30	48.77	9.13	3.60	2.10	2.00	0.00		
30	2.90	31.53	8.09	58.35	237.20	392.42	32.85	8.68	3.30	4.80		0.00		
31		32.26		67.60	252.50		29.76		4.00	0.60		0.00		
Total	240.82	562.95	582.96	1895.70	4959.83	9428.51	8361.05	494.54	159.95	119.03	106.94	60.35	26972.63	CMSDAY
Mean	8.03	18.16	19.43	61.15	159.99	314.28	269.71	16.48	5.16	3.84	3.69	1.95	73.70	CMS
Max	21.51	93.25	35.51	179.00	280.00	425.73	408.15	29.46	8.24	9.72	6.47	3.90	425.73	CMS
Min	0.00	4.80	7.06	9.42	33.74	195.60	29.76	8.68	2.80	0.10	1.60	0.00	0.00	CMS
Runoff	20.81	48.64	50.37	163.79	428.53	814.62	722.40	42.73	13.82	10.28	9.24	5.21	2330.44	MCM
Momentary Peak	442.37	CMS, at 16.55 m. (MSL), at 06.00 Hours, on Oct 2, 2011												
Runoff Yield	15.02	Liters/Second/Square KM.			Momentary Peak Yield		90.169	Liters/Second/Square KM.						

WATER YEAR : 2011

PRACHIN BURI RIVER BASIN

Huai Yang at Ban Thung Faek , Prachin Buri (Kgt.14)

Lat 14 - 09 - 29 N Long 101 - 52 - 50 E

Location : on left bank about 2 kilometers from Kabin Buri - Nakhon Ratchasima Highway.

	Ban	Thung Faek	Amphoe	Na Di	Changwat	Prachin Buri
Drainage Area	354	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+34.600	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+42.429 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1966 to date					
Rating Operation						
Period of Rating	1966 - 1981 , 1986 to date					
Rated by Flot	-					
Rated by Current Meter	1966 - 1981 , 1986 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.91	35.20	35.16	35.96	38.13	36.45	36.86	35.72	35.42	35.24	35.25	35.00	
2	34.90	35.17	35.23	35.89	38.05	36.21	36.70	35.72	35.41	35.24	35.24	34.99	
3	34.89	35.11	35.27	36.23	37.65	36.11	36.84	35.69	35.40	35.24	35.22	34.97	
4	34.88	35.06	35.31	36.05	37.05	37.25	37.21	35.66	35.40	35.24	35.22	34.96	
5	34.88	35.03	35.26	35.83	36.45	36.78	36.75	35.64	35.39	35.24	35.22	34.95	
6	34.87	35.02	35.48	35.67	36.16	36.32	37.79	35.62	35.39	35.24	35.21	34.95	
7	34.87	35.01	35.38	35.58	36.02	36.45	37.13	35.60	35.39	35.23	35.20	34.94	
8	34.87	35.02	35.28	35.52	35.93	36.16	36.50	35.59	35.39	35.22	35.18	34.94	
9	34.88	35.19	35.38	35.49	36.09	36.21	36.34	35.58	35.39	35.20	35.17	34.94	
10	34.88	35.18	35.43	35.56	36.09	37.91	36.86	35.64	35.39	35.19	35.16	34.94	
11	34.87	35.17	35.52	35.59	36.16	38.17	37.18	35.65	35.39	35.19	35.15	35.35	
12	34.87	35.38	35.62	35.53	36.03	38.58	36.51	35.59	35.38	35.19	35.14	35.22	
13	34.86	35.48	35.57	35.77	35.90	37.69	36.55	35.56	35.37	35.19	35.12	35.20	
14	34.85	35.33	35.44	36.04	36.23	37.37	36.66	35.55	35.36	35.18	35.11	35.16	
15	34.85	35.13	35.35	36.42	36.77	36.80	36.35	35.54	35.34	35.18	35.11	35.13	
16	34.84	35.11	35.45	36.10	37.70	36.55	36.41	35.52	35.34	35.21	35.10	35.10	
17	34.85	35.11	35.60	35.88	36.49	36.50	37.84	35.52	35.33	35.22	35.09	35.08	
18	34.87	35.10	35.77	35.76	37.68	36.29	37.65	35.51	35.32	35.24	35.07	35.07	
19	34.89	35.10	35.91	35.71	39.06	36.15	36.66	35.49	35.31	35.24	35.07	35.10	
20	34.89	35.10	36.59	35.71	38.44	36.06	36.37	35.49	35.30	35.36	35.06	35.08	
21	34.89	35.09	36.22	35.89	36.92	36.94	36.24	35.46	35.30	35.42	35.05	35.05	
22	34.87	35.08	36.14	36.31	36.45	36.70	36.13	35.45	35.29	35.33	35.05	35.03	
23	34.86	35.07	35.75	36.13	36.22	37.13	36.02	35.45	35.29	35.29	35.05	35.01	
24	34.85	35.07	35.64	36.90	36.11	37.15	35.96	35.44	35.28	35.29	35.04	35.00	
25	34.84	35.06	35.59	36.29	36.12	36.77	35.93	35.44	35.27	35.30	35.04	34.98	
26	34.83	35.05	35.53	37.39	36.01	36.40	35.89	35.43	35.26	35.46	35.05	34.96	
27	34.87	35.03	35.88	36.50	35.92	36.62	35.85	35.43	35.25	35.40	35.04	34.95	
28	34.96	35.03	36.84	36.09	35.88	37.64	35.82	35.42	35.25	35.32	35.03	34.94	
29	34.97	35.03	36.00	36.08	36.16	36.85	35.80	35.42	35.24	35.29	35.01	34.93	
30	34.95	35.02	36.00	36.47	37.33	36.89	35.77	35.42	35.24				

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	5.60	59.55	13.00	22.50	3.20	0.20	0.00	0.00	0.00	
2	0.00	0.00	0.00	4.90	56.75	9.15	18.50	3.20	0.10	0.00	0.00	0.00	
3	0.00	0.00	0.00	9.45	43.50	7.65	22.00	2.90	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	6.75	27.25	32.25	31.25	2.60	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	4.30	13.00	20.50	19.75	2.40	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.80	2.70	8.40	10.80	47.70	2.20	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	1.80	6.30	13.00	29.25	2.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	1.20	5.30	8.40	14.00	1.90	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.90	7.35	9.15	11.10	1.80	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.30	1.60	7.35	51.85	22.50	2.40	0.00	0.00	0.00	0.00	
11	0.00	0.00	1.20	1.90	8.40	60.95	30.50	2.50	0.00	0.00	0.00	0.00	
12	0.00	0.00	2.20	1.30	6.45	76.70	14.20	1.90	0.00	0.00	0.00	0.00	
13	0.00	0.80	1.70	3.70	5.00	44.70	15.00	1.60	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.40	6.60	9.45	35.25	17.50	1.50	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	12.40	20.25	21.00	11.25	1.40	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.50	7.50	45.00	15.00	12.20	1.20	0.00	0.00	0.00	0.00	
17	0.00	0.00	2.00	4.80	13.80	14.00	49.40	1.20	0.00	0.00	0.00	0.00	
18	0.00	0.00	3.70	3.60	44.40	10.35	43.50	1.10	0.00	0.00	0.00	0.00	
19	0.00	0.00	5.10	3.10	99.00	8.25	17.50	0.90	0.00	0.00	0.00	0.00	
20	0.00	0.00	15.80	3.10	71.10	6.90	11.55	0.90	0.00	0.00	0.00	0.00	
21	0.00	0.00	9.30	4.90	24.00	24.50	9.60	0.60	0.00	0.20	0.00	0.00	
22	0.00	0.00	8.10	10.65	13.00	18.50	7.95	0.50	0.00	0.00	0.00	0.00	
23	0.00	0.00	3.50	7.95	9.30	29.25	6.30	0.50	0.00	0.00	0.00	0.00	
24	0.00	0.00	2.40	23.50	7.65	29.75	5.60	0.40	0.00	0.00	0.00	0.00	
25	0.00	0.00	1.90	10.35	7.80	20.25	5.30	0.40	0.00	0.00	0.00	0.00	
26	0.00	0.00	1.30	35.75	6.15	12.00	4.90	0.30	0.00	0.60	0.00	0.00	
27	0.00	0.00	4.80	14.00	5.20	16.50	4.50	0.30	0.00	0.00	0.00	0.00	
28	0.00	0.00	22.00	7.35	4.80	43.20	4.20	0.20	0.00	0.00	0.00	0.00	
29	0.00	0.00	6.00	7.20	8.40	22.25	4.00	0.20	0.00	0.00	0.00	0.00	
30	0.00	0.00	6.00	13.40	34.25	23.25	3.70	0.20	0.00	0.00		0.00	
31		0.00		22.00	26.75		3.40		0.00	0.00		0.00	
Total	0.00	0.80	99.00	244.25	704.90	708.30	520.60	42.40	0.30	0.80	0.00	0.00	2321.35
Mean	0.00	0.03											

WATER YEAR : 2011**PRACHIN BURI RIVER BASIN****Huai Samong at Ban Kaeng Din So , Prachin Buri (Kgt.15A)**

Lat 14 - 03 - 47 N Long 101 - 55 - 39 E

Location : on right bank at Ban Kaeng Din So about 1 kilometer upstream from the Kgt.15 Station.

	Ban	Kaeng Din So	Amphoe	Na Di	Changwat	Prachin Buri
Drainage Area	548	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+12.800	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	In front of the station office and near the rain gage.				Elevation	+22.396 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1968 to date					
Rating Operation						
Period of Rating	1968 to date					
Rated by Flot	-					
Rated by Current Meter	1968 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Flow effected by the local weir.					
	Stage-discharge relation defined by 26 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.87	15.36	16.21	16.31	16.81	18.04	16.63	15.67	15.31	14.97	14.94	14.63	
2	14.87	15.59	15.75	16.16	17.05	17.82	16.61	15.65	15.28	14.96	14.91	14.62	
3	14.87	15.74	15.59	16.04	17.30	17.42	16.55	15.64	15.24	14.96	14.87	14.62	
4	14.86	15.42	15.52	15.87	16.66	17.38	17.63	15.62	15.23	14.95	14.84	14.63	
5	14.87	15.40	15.54	15.71	16.14	16.66	17.42	15.61	15.22	14.95	14.78	14.65	
6	15.26	15.23	15.58	15.64	15.95	16.24	16.63	15.60	15.21	14.95	14.75	14.66	
7	15.20	14.76	15.62	15.60	15.84	16.17	16.45	15.59	15.19	14.94	14.75	14.66	
8	15.02	14.82	15.67	15.58	15.83	16.12	16.22	15.59	15.15	14.94	14.73	14.70	
9	15.00	14.91	15.81	15.57	15.95	16.10	16.19	15.59	15.17	14.93	14.71	14.70	
10	15.00	14.97	16.05	15.58	15.92	16.81	16.22	15.59	15.16	14.92	14.69	14.79	
11	14.99	15.09	16.10	15.60	17.26	17.07	16.80	15.58	15.15	14.91	14.67	14.85	
12	15.20	15.26	15.80	15.65	17.50	17.49	16.37	15.56	15.13	14.90	14.65	14.86	
13	15.46	15.29	15.85	15.72	16.59	17.93	16.54	15.55	15.12	14.91	14.63	14.88	
14	15.55	15.27	15.68	15.71	16.14	17.28	16.62	15.55	15.11	14.91	14.62	14.88	
15	15.38	15.24	15.55	15.95	16.47	16.70	16.50	15.54	15.11	14.90	14.61	14.87	
16	15.13	15.02	15.52	16.04	18.93	16.48	16.51	15.53	15.10	14.90	14.59	14.91	
17	14.96	15.06	15.56	15.84	17.58	16.32	16.65	15.52	15.08	14.89	14.58	14.92	
18	14.90	15.12	15.52	15.70	16.96	16.13	16.67	15.51	15.07	14.96	14.56	14.91	
19	14.86	15.06	15.44	15.64	16.94	16.01	16.26	15.51	15.06	15.02	14.55	14.90	
20	14.87	15.16	15.40	15.73	17.74	16.03	16.06	15.51	15.04	15.13	14.55	14.89	
21	14.88	15.18	15.30	16.21	16.86	16.77	16.02	15.50	15.03	15.08	14.56	14.88	
22	15.29	14.86	15.30	16.61	16.28	16.48	16.06	15.49	15.01	15.07	14.59	14.87	
23	15.35	14.82	15.46	16.35	16.06	16.48	15.96	15.48	15.00	15.15	14.60	14.86	
24	15.14	14.88	15.54	17.07	15.96	16.90	15.89	15.45	14.99	15.14	14.60	14.86	
25	15.06	14.88	15.54	16.34	16.75	16.87	15.85	15.42	15.00	15.11	14.62	14.87	
26	15.02	14.89	15.58	17.36	16.65	16.44	15.80	15.40	14.99	15.06	14.63	14.87	
27	14.97	14.90	15.55	16.26	16.38	16.41	15.78	15.38	14.98	15.05	14.64	14.87	
28	14.91	14.92	15.55	15.93	16.44	16.74	15.75	15.37	14.97	15.04	14.64	14.87	
29	14.95	14.95	15.15	15.96	16.44	16.60	15.73	15.35	14.96	15.04	14.64	14.87	
30	14.96	14.98	15.21	16.32	17.77	16.27	15.69	15.34	14.97	15.00		14.87	
31		14.98		16.92	18.50		15.68		14.96	14.98		14.87	
Mean	15.06	15.10	15.60	16.03	16.76	16.74	16.31	15.52	15.10	14.99	14.67	14.81	
Max	15.55	15.74	16.21	17.36	18.93	18.04	17.63	15.67	15.31	15.15	14.94	14.92	18.93
Min	14.86	14.76	15.15	15.57	15.83	16.01	15.68	15.34	14.96	14.89	14.55	14.62	14.55
Annual Max Momentary Gage Height	19.07		m. (MSL.) ,			at 09.00 Hours, on Aug 16, 2011							
Zero Gage at Bottom Elevation	12.80		m. (MSL.) ,		River Bed	12.64	m. (MSL)						
Left Bank Elevation	24.36		m. (MSL.) ,										
Right Bank Elevation	22.25		m. (MSL.) ,		Drainage Area	548	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	3.20	36.70	43.70	76.30	127.00	70.90	12.10	2.20	0.00	0.00	0.00	
2	0.00	9.70	14.50	33.60	85.00	116.00	70.30	11.50	1.60	0.00	0.00	0.00	
3	0.00	14.20	9.70	27.00	95.00	99.80	65.00	11.20	0.80	0.00	0.00	0.00	
4	0.00	4.60	7.60	18.80	71.80	98.20	108.20	10.60	0.60	0.00	0.00	0.00	
5	0.00	4.00	8.20	13.30	32.40	71.80	99.80	10.30	0.40	0.00	0.00	0.00	
6	1.20	0.60	9.40	11.20	22.50	38.80	70.90	10.00	0.20	0.00	0.00	0.00	
7	0.00	0.00	10.60	10.00	17.60	34.20	55.00	9.70	0.00	0.00	0.00	0.00	
8	0.00	0.00	12.10	9.40	17.20	31.20	37.40	9.70	0.00	0.00	0.00	0.00	
9	0.00	0.00	16.40	9.10	22.50	30.00	35.40	9.70	0.00	0.00	0.00	0.00	
10	0.00	0.00	27.50	9.40	21.00	76.30	37.40	9.70	0.00	0.00	0.00	0.00	
11	0.00	0.00	30.00	10.00	93.40	85.80	76.00	9.40	0.00	0.00	0.00	0.00	
12	0.00	1.20	16.00	11.50	103.00	102.60	47.90	8.80	0.00	0.00	0.00	0.00	
13	5.80	1.80	18.00	13.60	69.00	121.50	64.00	8.50	0.00	0.00	0.00	0.00	
14	8.50	1.40	12.40	13.30	32.40	94.20	70.60	8.50	0.00	0.00	0.00	0.00	
15	3.60	0.80	8.50	22.50	57.00	73.00	60.00	8.20	0.00	0.00	0.00	0.00	
16	0.00	0.00	7.60	27.00	180.10	58.00	61.00	7.90	0.00	0.00	0.00	0.00	
17	0.00	0.00	8.80	17.60	106.20	44.40	71.50	7.60	0.00	0.00	0.00	0.00	
18	0.00	0.00	7.60	13.00	81.40	31.80	72.10	7.30	0.00	0.00	0.00	0.00	
19	0.00	0.00	5.20	11.20	80.60	25.50	40.20	7.30	0.00	0.00	0.00	0.00	
20	0.00	0.00	4.00	13.90	112.60	26.50	28.00	7.30	0.00	0.00	0.00	0.00	
21	0.00	0.00	2.00	36.70	77.80	75.10	26.00	7.00	0.00	0.00	0.00	0.00	
22	1.80	0.00	2.00	70.30	41.60	58.00	28.00	6.70	0.00	0.00	0.00	0.00	
23	3.00	0.00	5.80	46.50	28.00	58.00	23.00	6.40	0.00	0.00	0.00	0.00	
24	0.00	0.00	8.20	85.80	23.00	79.00	19.60	5.50	0.00	0.00	0.00	0.00	
25	0.00	0.00	8.20	45.80	74.50	78.10	18.00	4.60	0.00	0.00	0.00	0.00	
26	0.00	0.00	9.40	97.40	71.50	54.00	16.00	4.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	8.50	40.20	48.60	51.00	15.40	3.60	0.00	0.00	0.00	0.00	
28	0.00	0.00	8.50	21.50	54.00	74.20	14.50	3.40	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	23.00	54.00	70.00	13.90	3.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.20	44.40	113.80	40.90	12.70	2.80	0.00	0.00		0.00	
31		0.00		79.80	153.00		12.40		0.00	0.00		0.00	
Total	23.90	41.50	323.60	930.50	2116.80	2024.90	1441.10						

WATER YEAR : 2011

PRACHIN BURI RIVER BASIN

Khwaee Nam Sai at Ban Saphan Hin , Prachin Buri (Kgt.33)

Lat 14 - 07 - 55 N Long 101 - 43 - 52 E

Location : on left bank at Ban Saphan Hin.

	Ban	Saphan Hin	Amphoe	Na Di	Changwat	Prachin Buri
Drainage Area	617	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+10.598 m. (A.D.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1997 to date					
Rating Operation						
Period of Rating	2001 to date					
Rated by Flot	-					
Rated by Current Meter	2001 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2011.					

Gage Height in Meter (A.D.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.48	1.47	1.45	4.68	6.85	4.84	5.99	2.57	1.43	1.41	1.40	1.21	
2	1.47	1.47	1.44	3.70	6.91	4.44	5.63	2.48	1.43	1.41	1.39	1.22	
3	1.47	1.44	1.47	4.00	6.62	4.17	5.60	2.40	1.43	1.41	1.38	1.25	
4	1.46	1.38	1.47	3.51	5.65	6.01	5.65	2.32	1.43	1.40	1.36	1.20	
5	1.46	1.35	1.47	3.19	4.87	5.24	5.19	2.26	1.42	1.39	1.35	1.18	
6	1.46	1.32	1.47	2.92	4.07	4.51	5.41	2.21	1.42	1.38	1.35	1.11	
7	1.46	1.27	1.47	2.75	3.66	4.16	5.26	2.15	1.42	1.37	1.34	1.08	
8	1.46	1.27	1.43	2.59	3.42	3.95	4.63	2.12	1.42	1.35	1.35	1.05	
9	1.46	1.29	1.46	2.47	3.70	3.70	4.27	2.07	1.42	1.38	1.34	1.05	
10	1.48	1.29	1.47	2.93	3.65	4.38	4.25	2.02	1.42	1.38	1.33	1.15	
11	1.51	1.27	1.47	2.81	4.22	6.14	4.62	1.97	1.42	1.37	1.31	1.22	
12	1.53	1.26	1.47	2.72	4.00	6.89	4.33	1.94	1.42	1.36	1.30	1.28	
13	1.57	1.30	1.47	2.61	3.60	6.63	4.21	1.90	1.42	1.35	1.29	1.30	
14	1.60	1.35	1.47	2.92	3.50	6.67	4.09	1.86	1.41	1.34	1.29	1.29	
15	1.60	1.46	1.47	3.79	3.61	5.57	4.40	1.82	1.41	1.33	1.30	1.27	
16	1.61	1.49	1.47	3.38	5.76	5.07	4.39	1.82	1.41	1.33	1.31	1.28	
17	1.60	1.48	1.47	3.22	5.56	4.76	4.49	1.82	1.41	1.34	1.28	1.31	
18	1.58	1.58	1.47	3.18	5.91	4.67	4.82	1.79	1.41	1.35	1.26	1.28	
19	1.66	1.79	1.47	3.33	7.14	4.56	4.12	1.75	1.41	1.35	1.25	1.23	
20	1.67	1.78	1.47	3.44	6.94	4.46	3.79	1.73	1.41	1.35	1.23	1.20	
21	1.65	1.77	2.34	3.80	5.59	4.68	3.55	1.70	1.41	1.46	1.25	1.19	
22	1.68	1.79	2.92	3.98	4.75	4.63	3.35	1.68	1.41	1.45	1.18	1.18	
23	1.68	1.79	2.56	3.57	4.27	5.01	3.13	1.66	1.41	1.43	1.15	1.15	
24	1.68	1.72	2.39	3.90	3.80	6.49	2.91	1.63	1.41	1.41	1.13	1.15	
25	1.66	1.72	2.26	3.66	3.49	5.98	2.69	1.60	1.41	1.40	1.14	1.15	
26	1.66	1.76	2.16	6.09	3.16	5.22	2.50	1.58	1.42	1.38	1.14	1.04	
27	1.63	1.74	4.48	4.53	2.72	5.52	2.38	1.57	1.42	1.43	1.13	0.99	
28	1.62	1.72	5.96	3.73	2.87	7.37	2.31	1.54	1.42	1.45	1.12	0.96	
29	1.68	1.69	3.76	3.63	3.14	6.15	2.28	1.53	1.42	1.43	1.15	0.94	
30	1.68	1.68	3.87	4.34	4.95	6.11	2.21	1.50	1.42	1.40		0.89	
31		1.68		4.79	5.00		2.14		1.42	1.38		0.83	
Mean	1.57	1.53	2.07	3.55	4.63	5.27	4.02	1.90	1.42	1.39	1.27	1.15	
Max	1.68	1.79	5.96	6.09	7.14	7.37	5.99	2.57	1.43	1.46	1.40	1.	

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.22	3.07	2.76	70.30	200.50	75.90	130.40	19.82	2.46	2.15	2.00	0.10	
2	3.07	3.07	2.61	43.00	207.10	62.20	109.50	18.45	2.46	2.15	1.90	0.20	
3	3.07	2.61	3.07	50.50	177.00	54.75	108.00	17.23	2.46	2.15	1.80	0.50	
4	2.91	1.80	3.07	38.25	110.50	131.60	110.50	16.01	2.46	2.00	1.60	0.00	
5	2.91	1.50	3.07	31.39	76.95	91.30	89.10	15.10	2.30	1.90	1.50	0.00	
6	2.91	1.20	3.07	26.11	52.25	64.35	98.95	14.34	2.30	1.80	1.50	0.00	
7	2.91	0.70	3.07	22.78	42.00	54.50	92.20	13.42	2.30	1.70	1.40	0.00	
8	2.91	0.70	2.46	20.12	36.00	49.25	68.55	12.97	2.30	1.50	1.50	0.00	
9	2.91	0.90	2.91	18.30	43.00	43.00	57.25	12.20	2.30	1.80	1.40	0.00	
10	3.22	0.90	3.07	26.30	41.75	60.40	56.75	11.44	2.30	1.80	1.30	0.00	
11	3.68	0.70	3.07	23.95	56.00	139.80	68.20	10.68	2.30	1.70	1.10	0.20	
12	3.98	0.60	3.07	22.19	50.50	204.90	58.90	10.22	2.30	1.60	1.00	0.80	
13	4.59	1.00	3.07	20.43	40.50	178.00	55.75	9.62	2.30	1.50	0.90	1.00	
14	5.05	1.50	3.07	26.11	38.00	182.00	52.75	9.01	2.15	1.40	0.90	0.90	
15	5.05	2.91	3.07	45.25	40.75	106.50	61.00	8.40	2.15	1.30	1.00	0.70	
16	5.20	3.37	3.07	35.11	116.60	84.30	60.70	8.40	2.15	1.30	1.10	0.80	
17	5.05	3.22	3.07	31.98	106.00	73.10	63.70	8.40	2.15	1.40	0.80	1.10	
18	4.74	4.74	3.07	31.19	125.60	69.95	75.20	7.94	2.15	1.50	0.60	0.80	
19	5.96	7.94	3.07	34.13	235.20	66.10	53.50	7.33	2.15	1.50	0.50	0.30	
20	6.11	7.79	3.07	36.50	210.40	62.80	45.25	7.03	2.15	1.50	0.30	0.00	
21	5.81	7.64	16.32	45.50	107.50	70.30	39.25	6.57	2.15	2.91	0.50	0.00	
22	6.26	7.94	26.11	50.00	72.75	68.55	34.52	6.26	2.15	2.76	0.00	0.00	
23	6.26	7.94	19.67	39.75	57.25	81.90	30.22	5.96	2.15	2.46	0.00	0.00	
24	6.26	6.87	17.08	48.00	45.50	166.20	25.91	5.50	2.15	2.15	0.00	0.00	
25	5.96	6.87	15.10	42.00	37.75	129.80	21.65	5.05	2.15	2.00	0.00	0.00	
26	5.96	7.48	13.58	136.40	30.80	90.40	18.75	4.74	2.30	1.80	0.00	0.00	
27	5.50	7.18	63.40	65.05	22.19	104.00	16.93	4.59	2.30	2.46	0.00	0.00	
28	5.35	6.87	128.60	43.75	25.13	265.10	15.86	4.13	2.30	2.76	0.00	0.00	
29	6.26	6.42	44.50	41.25	30.41	140.50	15.40	3.98	2.30	2.46	0.00	0.00	
30	6.26	6.26	47.25	59.20	79.75	137.70	14.34	3.52	2.30	2.00		0.00	
31		6.26		74.15	81.50		13.27		2.30	1.80		0.00	
Total	139.33	127.95	451.47	1298.94	2597.1								

WATER YEAR : 2011**PRACHIN BURI RIVER BASIN****Khwae Hanuman at Ban Cha Om , Prachin Buri (Kgt.34)**

Lat 13 - 28 - 29 N Long 101 - 44 - 55 E

Location : on left bank at the bridge.

	Ban	Cha Om	Amphoe	Na Di	Changwat	Prachin Buri
Drainage Area	1,210	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+3.560	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+12.474 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2006 to date					
Rating Operation						
Period of Rating	2006 to date					
Rated by Flot	-					
Rated by Current Meter	2006 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.42	5.69	5.60	7.54	9.16	8.37	9.03	5.73	5.25	5.13	5.27	4.85	
2	5.52	5.68	5.58	7.68	9.94	8.13	8.96	5.70	5.23	5.19	5.25	4.83	
3	5.48	5.66	5.58	7.13	9.39	7.91	8.86	5.67	5.22	5.21	5.23	4.81	
4	5.40	5.67	5.64	6.73	8.68	9.18	9.01	5.64	5.20	5.24	5.21	4.80	
5	5.32	5.69	5.69	6.55	8.10	8.62	8.73	5.62	5.18	5.27	5.22	4.79	
6	5.33	5.71	5.70	6.39	7.09	8.04	8.83	5.60	5.16	5.31	5.25	4.79	
7	5.35	5.73	5.68	6.30	6.79	7.59	8.48	5.58	5.13	5.35	5.28	4.81	
8	5.39	5.74	5.69	6.12	6.72	7.24	8.14	5.57	5.12	5.35	5.29	4.84	
9	5.41	5.76	5.71	6.01	6.71	7.44	7.81	5.57	5.10	5.33	5.27	4.87	
10	5.41	5.75	5.85	6.08	6.87	8.13	7.70	5.58	5.08	5.32	5.25	4.90	
11	5.40	5.73	5.94	6.14	7.47	9.32	8.10	5.57	5.06	5.30	5.23	4.93	
12	5.42	5.71	6.04	6.19	7.46	9.97	7.98	5.57	5.04	5.28	5.21	4.95	
13	5.43	5.70	6.14	6.33	7.31	9.74	7.68	5.55	5.02	5.26	5.18	4.99	
14	5.45	5.72	6.04	6.58	7.18	9.80	7.61	5.54	5.00	5.24	5.15	5.01	
15	5.47	5.71	5.94	6.74	7.23	8.83	7.71	5.53	4.99	5.24	5.12	5.03	
16	5.48	5.70	5.96	6.61	9.14	8.41	7.90	5.52	4.97	5.25	5.10	5.04	
17	5.50	5.69	6.11	6.51	9.10	8.16	7.79	5.51	4.96	5.27	5.08	5.07	
18	5.52	5.64	6.28	6.44	9.08	8.10	8.00	5.50	4.95	5.29	5.06	5.10	
19	5.54	5.55	6.45	6.26	9.76	7.99	7.81	5.49	4.94	5.30	5.04	5.10	
20	5.57	5.53	6.41	6.31	10.44	7.92	7.50	5.48	4.93	5.31	5.02	5.08	
21	5.59	5.52	6.26	6.73	8.98	8.57	7.26	5.52	4.92	5.33	5.00	5.05	
22	5.60	5.52	6.14	6.91	8.29	8.72	6.96	5.52	4.91	5.32	4.98	5.03	
23	5.61	5.54	6.06	6.78	7.84	8.45	6.68	5.49	4.90	5.31	4.96	5.01	
24	5.62	5.55	5.99	7.06	7.25	9.65	6.51	5.47	4.89	5.29	4.93	4.99	
25	5.64	5.57	5.91	6.88	6.91	9.26	6.36	5.45	4.88	5.27	4.91	4.97	
26	5.65	5.62	5.84	9.16	6.65	8.86	6.23	5.33	4.86	5.27	4.90	4.95	
27	5.67	5.93	6.95	8.04	6.47	10.16	6.11	5.31	4.85	5.29	4.89	4.93	
28	5.68	6.21	7.59	7.53	6.24	9.46	5.95	5.29	4.84	5.31	4.87	4.91	
29	5.69	6.36	6.87	7.01	6.40	9.18	5.96	5.28	4.86	5.30	4.86	4.89	
30	5.70	6.18	7.04	7.60	8.11	9.01	6.01	5.27	4.89	5.29		4.87	
31		5.81		8.09	8.56		5.81		4.95	5.28		4.85	
Mean	5.51	5.73	6.09	6.85	7.91	8.67	7.53	5.51	5.01	5.28	5.10	4.94	
Max	5.70	6.36	7.59	9.16	10.44	10.16	9.03	5.73	5.25	5.35	5.29	5.10	10.44
Min	5.32	5.52	5.58	6.01	6.24	7.24	5.81	5.27	4.84	5.13	4.86	4.79	4.79
Annual Max Momentary Gage Height	10.56		m. (MSL.) ,		at 12.00 Hours, on Aug 20, 2011								
Zero Gage at Bottom Elevation	3.56		m. (MSL.) ,		River Bed	1.47	m. (MSL)						
Left Bank Elevation	12.44		m. (MSL.) ,										
Right Bank Elevation	12.44		m. (MSL.) ,		Drainage Area	1210	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.60	17.70	15.00	138.40	249.40	189.90	192.30	5.30	1.25	0.65	1.35	0.05	
2	12.60	17.40	14.40	146.80	325.40	173.80	184.90	5.00	1.15	0.95	1.25	0.03	
3	11.40	16.80	14.40	116.50	270.10	160.60	174.65	4.70	1.10	1.05	1.15	0.01	
4	9.00	17.10	16.20	81.00	211.60	251.20	190.10	4.40	1.00	1.20	1.05	0.00	
5	7.40	17.70	17.70	65.00	172.00	150.05	161.32	4.20	0.90	1.35	1.10	0.00	
6	7.60	18.40	18.00	52.30	114.50	101.20	171.57	4.00	0.80	1.55	1.25	0.00	
7	8.00	19.20	17.40	46.00	87.00	70.40	137.20	3.80	0.65	1.75	1.40	0.01	
8	8.80	19.60	17.70	36.00	80.00	52.00	109.20	3.70	0.60	1.75	1.45	0.04	
9	9.30	20.40	18.40	30.50	79.00	62.00	84.70	3.70	0.50	1.65	1.35	0.07	
10	9.30	20.00	24.00	34.00	95.70	108.40	77.00	3.80	0.46	1.60	1.25	0.10	
11	9.00	19.20	27.60	37.00	134.20	227.60	106.00	3.70	0.42	1.50	1.15	0.16	
12	9.60	18.40	32.00	39.50	133.60	325.20	96.60	3.70	0.38	1.40	1.05	0.20	
13	9.90	18.00	37.00	48.10	125.50	288.40	75.80	3.50	0.34	1.30	0.90	0.28	
14	10.50	18.80	32.00	67.40	119.00	298.00	71.60	3.40	0.30	1.20	0.75	0.32	
15	11.10	18.40	27.60	82.00	121.50	171.57	77.70	3.30	0.28	1.20	0.60	0.36	
16	11.40	18.00	28.40	69.90	247.60	130.90	91.00	3.20	0.24	1.25	0.50	0.38	
17	12.00	17.70	35.50	61.80	244.00	110.80	83.30	3.10	0.22	1.35	0.46	0.44	
18	12.60	16.20	44.80	56.20	242.40	106.00	98.00	3.00	0.20	1.45	0.42	0.50	
19	13.20	13.50	57.00	43.60	307.00	97.30	84.70	2.90	0.18	1.50	0.38	0.50	
20	14.10	12.90	53.80	46.70	380.80	92.40	65.00	2.80	0.16	1.55	0.34	0.46	
21	14.70	12.60	43.60	81.00	234.40	145.30	53.00	3.20	0.14	1.65	0.30	0.40	
22	15.00	12.60	37.00	100.10	184.30	160.30	38.40	3.20	0.12	1.60	0.26	0.36	
23	15.30	13.20	33.00	86.00	156.40	134.50	27.20	2.90	0.10	1.55	0.22	0.32	
24	15.60	13.50	29.60	113.00	122.50	274.00	20.40	2.70	0.09	1.45	0.16	0.28	
25	16.20	14.10	26.40	96.80	100.10	219.80	16.20	2.50	0.08	1.35	0.12	0.24	
26	16.50	15.60	23.60	249.40	73.50	174.65	13.60	1.65	0.06	1.35	0.10	0.20	
27	17.10	27.20	104.50	168.40	58.60	349.20	11.20	1.55	0.05	1.45	0.09	0.16	
28	17.40	40.60	141.40	137.80	42.40	245.80	8.25	1.45	0.04	1.55	0.07	0.12	
29	17.70	50.20	95.70	110.50	53.00	209.60	8.40	1.40	0.06	1.50	0.06	0.09	
30	18.00	39.00	112.00	142.00	172.60	190.10	9.20	1.35	0.09	1.45		0.07	
31		22.40		171.40	203.20		6.15						

WATER YEAR : 2011**PRACHIN BURI RIVER BASIN****Khlong Phra Phloeng Yai at Ban Phu Ngoen , Sa Kaeo (Kgt.38)**

Lat 13 - 36 - 03 N Long 102 - 02 - 07 E

Location : on left bank at the bridge.

	Ban	Phu Ngoen	Amphoe	Khao Chakan	Changwat	Sa Kaeo
Drainage Area	289	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+9.483 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 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 10 discharge measurements made in 2011.					

Gage Height in Meter (A.D.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.65	2.00	1.90	1.80	1.92	2.37	2.65	1.75	1.60	1.65	1.60	1.20	
2	1.65	2.00	1.90	1.80	1.80	2.43	2.39	1.75	1.60	1.65	1.60	1.20	
3	1.65	1.97	1.94	1.80	1.80	3.03	2.07	1.70	1.60	1.65	1.60	1.15	
4	1.65	1.95	1.95	1.80	1.80	3.23	2.63	1.70	1.60	1.64	1.60	1.15	
5	1.65	1.92	1.93	1.80	1.80	2.75	2.27	1.70	1.60	1.64	1.60	1.15	
6	1.62	1.92	1.93	2.10	1.80	2.15	3.38	1.70	1.60	1.63	1.58	1.15	
7	1.62	1.95	1.93	1.96	1.80	2.07	3.49	1.70	1.60	1.63	1.58	1.15	
8	1.62	2.05	1.93	1.92	1.80	2.00	3.53	1.70	1.60	1.62	1.58	1.15	
9	1.62	2.05	1.93	1.92	2.12	2.50	4.39	1.70	1.60	1.62	1.58	1.15	
10	1.62	2.05	1.93	1.91	1.86	2.95	4.73	1.70	1.60	1.61	1.58	1.10	
11	1.60	2.10	1.95	1.90	2.41	3.33	4.62	1.70	1.60	1.61	1.50	0.95	
12	1.60	2.10	1.98	1.90	2.42	4.81	4.05	1.70	1.60	1.61	1.50	0.95	
13	1.60	2.10	2.00	1.90	3.67	5.57	3.36	1.70	1.60	1.61	1.50	0.95	
14	1.60	2.10	1.95	1.90	2.47	4.63	2.51	1.69	1.60	1.60	1.45	0.95	
15	1.60	2.10	1.95	1.92	2.20	3.03	2.40	1.69	1.60	1.60	1.45	0.80	
16	1.60	4.06	1.95	2.00	3.67	2.72	4.27	1.69	1.60	1.60	1.45	0.80	
17	1.58	4.45	1.94	1.97	3.57	2.47	4.35	1.68	1.60	1.60	1.35	0.80	
18	1.58	4.25	1.94	1.78	2.97	2.18	3.51	1.67	1.60	1.60	1.35	0.80	
19	1.58	4.00	1.94	1.74	2.64	2.00	2.40	1.66	1.60	1.60	1.35	0.80	
20	1.58	3.60	1.94	1.80	2.53	2.10	2.02	1.65	1.60	1.60	1.35	0.80	
21	1.85	2.80	1.95	2.00	2.50	2.20	2.43	1.65	1.63	1.60	1.35	0.80	
22	1.85	2.10	1.95	3.22	2.20	2.29	2.20	1.63	1.65	1.60	1.35	0.80	
23	1.85	2.10	1.95	3.27	1.88	2.31	2.00	1.60	1.65	1.60	1.35	0.80	
24	1.85	2.10	1.94	3.30	1.80	3.80	2.00	1.60	1.65	1.60	1.35	0.70	
25	1.85	2.10	1.94	3.28	1.86	4.65	1.93	1.60	1.65	1.60	1.30	0.60	
26	2.05	2.10	1.94	3.07	2.00	4.85	1.85	1.60	1.65	1.60	1.30	0.60	
27	2.05	2.10	1.94	2.24	2.50	3.62	1.85	1.60	1.65	1.60	1.30	0.60	
28	2.00	2.10	1.95	2.16	2.00	3.72	1.80	1.60	1.65	1.60	1.30	0.60	
29	2.00	2.10	1.94	1.95	2.40	4.12	1.80	1.60	1.65	1.60	1.30	0.60	
30	2.00	2.10	1.94	1.84	2.50	3.78	1.80	1.60	1.65	1.60		0.60	
31		1.90		1.80	2.70		1.80		1.65	1.61		0.60	
Mean	1.72	2.40	1.94	2.12	2.30	3.12	2.79	1.67	1.62	1.61	1.45	0.89	
Max	2.05	4.45	2.00	3.30	3.67	5.57	4.73	1.75	1.65	1.65	1.60	1.20	5.57
Min	1.58	1.90	1.90	1.74	1.80	2.00	1.80	1.60	1.60	1.60	1.30	0.60	0.60
Annual Max Momentary Gage Height	5.80		m. (A.D.) ,			at 18.00 Hours, on Sep 13, 2011							
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,		River Bed	0.05	m. (A.D.)						
Left Bank Elevation	9.69		m. (A.D.) ,										
Right Bank Elevation	9.37		m. (A.D.) ,		Drainage Area	289	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.75	0.00	0.00	0.00	2.35	4.50	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.75	0.00	0.00	0.00	2.65	2.45	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	9.10	0.93	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	13.10	4.30	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	5.50	1.85	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	1.00	0.00	1.25	16.10	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.93	18.30	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.88	0.00	0.00	0.00	0.75	19.55	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.88	0.00	0.00	1.10	3.00	55.95	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.88	0.00	0.00	0.00	7.75	79.25	0.00	0.00	0.00	0.00	0.00	
11	0.00	1.00	0.00	0.00	2.55	15.10	71.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	1.00	0.00	0.00	2.60	85.25	38.75	0.00	0.00	0.00	0.00	0.00	
13	0.00	1.00	0.75	0.00	24.45	146.80	15.70	0.00	0.00	0.00	0.00	0.00	
14	0.00	1.00	0.00	0.00	2.85	71.75	3.10	0.00	0.00	0.00	0.00	0.00	
15	0.00	1.00	0.00	0.00	1.50	9.10	2.50	0.00	0.00	0.00	0.00	0.00	
16	0.00	39.20	0.00	0.75	24.45	5.20	49.35	0.00	0.00	0.00	0.00	0.00	
17	0.00	59.75	0.00	0.00	20.95	2.85	53.75	0.00	0.00	0.00	0.00	0.00	
18	0.00	48.25	0.00	0.00	8.05	1.40	18.85	0.00	0.00	0.00	0.00	0.00	
19	0.00	36.50	0.00	0.00	4.40	0.75	2.50	0.00	0.00	0.00	0.00	0.00	
20	0.00	22.00	0.00	0.00	3.30	1.00	0.80	0.00	0.00	0.00	0.00	0.00	
21	0.00	6.00	0.00	0.75	3.00	1.50	2.65	0.00	0.00	0.00	0.00	0.00	
22	0.00	1.00	0.00	12.90	1.50	1.95	1.50	0.00	0.00	0.00	0.00	0.00	
23	0.00	1.00	0.00	13.90	0.00	2.05	0.75	0.00	0.00	0.00	0.00	0.00	
24	0.00	1.00	0.00	14.50	0.00	29.00	0.75	0.00	0.00	0.00	0.00	0.00	
25	0.00	1.00	0.00	14.10	0.00	73.25	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.88	1.00	0.00	9.90	0.75	88.25	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.88	1.00	0.00	1.70	3.00	22.70	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.75	1.00	0.00	1.30	0.75	26.20	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.75	1.00	0.00	0.00	2.50	41.90	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.75	1.00	0.00	0.00	3.00	28.30	0.00	0.00	0.00	0.00	0.00	0.00	
31		0.00		0.00	5.00		0.00		0.00	0.00		0.00	
Total	4.01	229.84	0.75	70.80	115.70	700.68	465.13	0.00	0.00	0.00	0.00	0.00	1586.91
Mean	0.13	7.41	0.03	2.28	3.73								

WATER YEAR : 2011**PRACHIN BURI RIVER BASIN****Upper Khlong Phra Sathung at Ban Thung Kabin , Sa Kao (Kgt.40)**

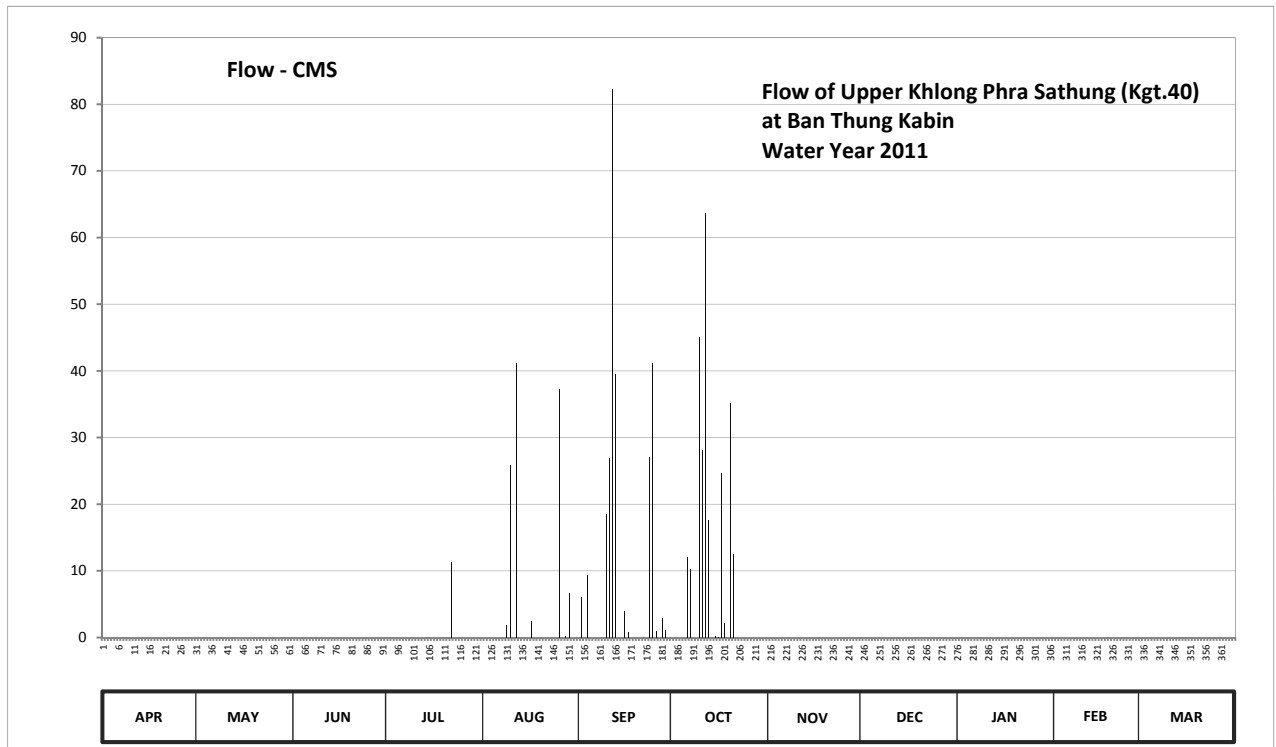
Lat 13 - 25 - 45 N Long 102 - 05 - 00 E

Location : on left bank at the bridge on highway.

	Ban	Thung Kabin	Amphoe	Wang Sombun	Changwat	Sa Kao
Drainage Area	574	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+77.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+85.585 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 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 18 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	77.29	77.64	77.58	77.57	77.76	79.22	78.45	77.94	77.55	77.40	77.37	77.37	
2	77.23	77.57	77.56	77.54	78.60	79.81	78.73	77.86	77.55	77.40	77.44	77.35	
3	77.46	77.54	77.68	77.65	78.17	78.80	78.45	77.85	77.55	77.40	77.42	77.31	
4	77.70	77.62	77.62	77.64	77.83	80.02	78.73	77.83	77.55	77.40	77.40	77.30	
5	77.49	77.73	77.62	77.59	77.73	79.12	78.70	77.80	77.54	77.40	77.40	77.26	
6	77.47	77.62	77.60	77.93	77.67	78.42	80.20	77.79	77.54	77.40	77.40	77.25	
7	77.73	77.61	77.53	77.51	77.72	79.23	80.09	77.78	77.55	77.40	77.38	77.32	
8	77.50	77.75	77.54	77.41	78.25	78.51	78.62	77.78	77.55	77.39	77.38	77.32	
9	77.51	78.08	77.45	77.34	79.53	79.07	79.22	77.77	77.55	77.39	77.35	77.44	
10	77.47	77.79	77.46	77.37	81.02	80.63	81.98	77.76	77.54	77.39	77.35	77.40	
11	77.50	77.68	78.02	77.28	78.73	81.07	81.13	77.75	77.53	77.38	77.34	77.40	
12	77.77	77.62	77.64	77.26	81.78	83.53	82.79	77.72	77.52	77.38	77.33	77.36	
13	77.73	77.61	77.55	77.24	78.68	81.70	80.58	77.69	77.50	77.38	77.31	77.30	
14	77.58	77.61	77.86	77.35	78.22	79.12	78.78	77.69	77.49	77.40	77.30	77.29	
15	77.49	77.72	77.69	77.89	78.92	78.82	79.34	77.65	77.48	77.41	77.30	77.30	
16	77.45	77.65	77.55	77.81	78.84	79.66	79.32	77.64	77.48	77.45	77.30	77.30	
17	77.44	77.57	77.54	77.71	79.57	79.43	80.96	77.64	77.46	77.48	77.36	77.75	
18	77.40	78.76	77.52	77.70	78.74	78.73	79.54	77.64	77.44	77.50	77.47	77.73	
19	77.43	77.98	77.58	77.66	78.37	78.45	78.71	77.64	77.45	77.49	77.54	77.68	
20	77.78	77.68	77.62	77.73	78.08	78.83	81.48	77.63	77.43	77.47	77.50	77.59	
21	77.67	77.59	77.70	77.87	78.01	79.21	80.23	77.62	77.40	77.45	77.47	77.46	
22	78.22	77.54	77.61	80.15	77.95	79.32	79.09	77.61	77.40	77.45	77.43	77.45	
23	78.20	77.53	77.62	78.37	77.82	79.22	78.75	77.63	77.40	77.45	77.42	77.44	
24	78.18	77.51	77.62	77.99	77.79	81.08	78.41	77.63	77.42	77.45	77.39	77.44	
25	77.71	77.46	77.51	77.90	79.26	81.78	78.26	77.60	77.43	77.45	77.35	77.42	
26	77.92	77.59	77.46	77.70	81.59	79.45	78.10	77.60	77.42	77.45	77.36	77.37	
27	77.66	78.13	77.43	77.64	78.67	79.07	78.08	77.60	77.40	77.45	77.40	77.35	
28	77.54	77.93	77.41	77.65	79.35	79.59	78.04	77.58	77.40	77.45	77.40	77.30	
29	77.59	77.85	77.48	78.03	79.84	79.46	78.00	77.57	77.42	77.45	77.40	77.27	
30	78.00	77.83	77.52	78.17	78.67	78.75	78.00	77.56	77.42	77.45		77.25	
31		77.75		77.73	78.25		77.98		77.43	77.46		77.24	
Mean	77.64	77.73	77.59	77.75	78.76	79.64	79.31	77.70	77.48	77.43	77.39	77.39	
Max	78.22	78.76	78.02	80.15	81.78	83.53	82.79	77.94	77.55	77.50	77.54	77.75	83.53
Min	77.23	77.46	77.41	77.24	77.67	78.42	77.98	77.56	77.40	77.38	77.30	77.24	77.23
Annual Max Momentary Gage Height	86.80		m. (MSL.) ,			at 18.00 Hours, on Sep 12, 2011							
Zero Gage at Bottom Elevation	77.00		m. (MSL.) ,		River Bed	77.08	m. (MSL)						
Left Bank Elevation			87.07		m. (MSL.) ,								
Right Bank Elevation		87.05		m. (MSL.) ,		Drainage Area	574	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

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	0.00	0.00	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	6.15	0.00	0.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	9.30	0.00	0.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	0.00	10.35	0.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	25.90	18.45	45.10	0.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	26.90	28.10	0.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	41.10	82.25	63.75	0.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	39.50	17.70	0.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	3.90	0.10	0.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	2.55	0.80	24.70	0.00	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	0.00	2.10	0.00	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	0.00	35.10	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	0.00	12.45	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	11.25	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	27.10	0.00	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.00	41.10	0.00	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	37.30	1.00	0.00	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	0.25	2.85	0.00	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	6.60	1.10	0.00	0.00	0.00	0.00	0.00	0.00		
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
31		0.00		0.00	0.00		0.00		0.00	0.00		0.00		
Total	0.00	0.00	0.00	11.25	115.65	260.50	251.65	0.00	0.00	0.00	0.00	0.00	639.05	CMSDAY
Mean	0.00	0.00	0.00	0.36	3.73	8.68	8.1							

WATER YEAR : 2011

PRACHIN BURI RIVER BASIN

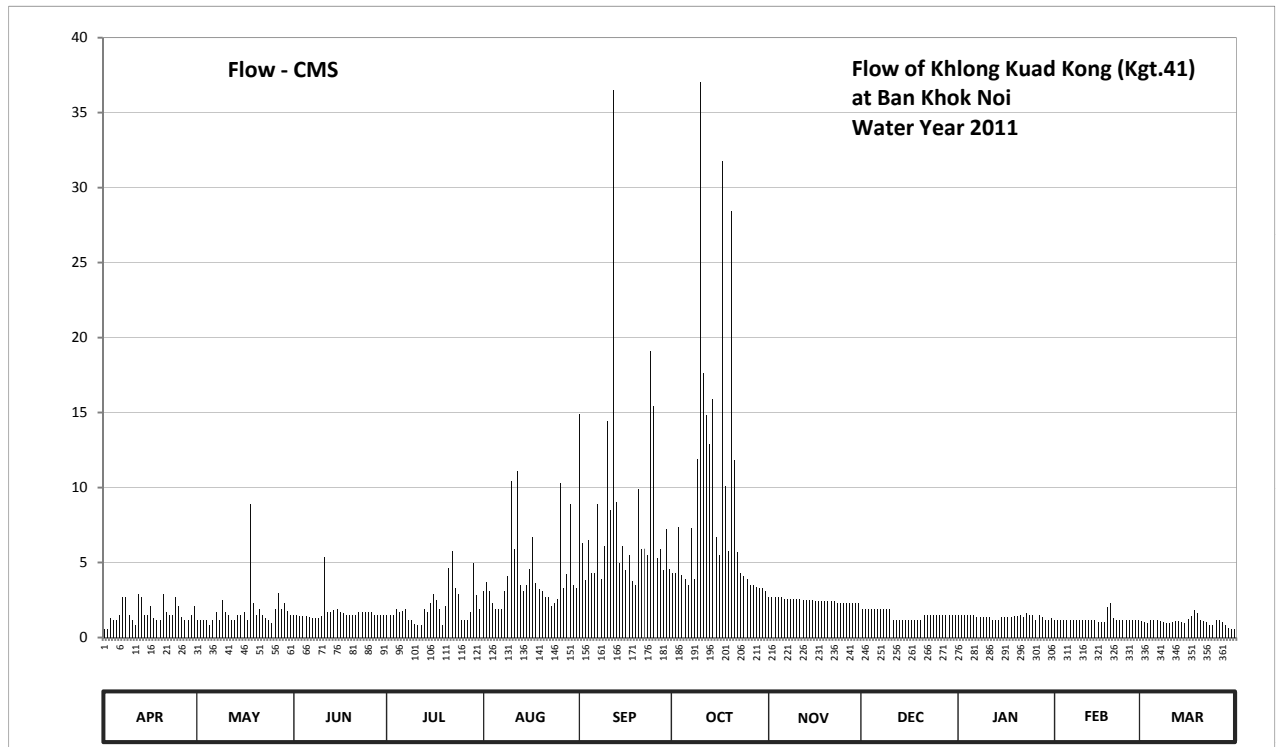
Khlong Kuad Kong at Ban Khok Noi , Sa Kaeo (Kgt.41)

Lat 13 - 22 - 40 N Long 102 - 05 - 30 E

Location : on right bank at the bridge on highway.

	Ban	Khok Noi	Amphoe	Wang Sombun	Changwat	Sa Kaeo
Drainage Area	123	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+91.890	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the top staff gage.				Elevation	+99.163 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable with variable water surface slope.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.54	1.14	1.52	1.52	3.12	14.90	4.32	2.72	1.92	1.52	1.14	1.08		
2	0.54	1.14	1.52	1.52	3.68	6.32	4.32	2.72	1.92	1.52	1.14	1.02		
3	1.28	1.14	1.44	1.52	3.12	3.84	7.36	2.72	1.92	1.52	1.14	0.96		
4	1.14	1.14	1.44	1.92	2.32	6.48	4.16	2.72	1.92	1.52	1.14	1.14		
5	1.14	0.84	1.44	1.68	1.92	4.32	3.92	2.72	1.92	1.52	1.14	1.14		
6	1.52	1.14	1.36	1.76	1.92	4.32	3.52	2.56	1.92	1.52	1.14	1.14		
7	2.72	1.68	1.28	1.92	1.92	8.88	7.28	2.56	1.92	1.36	1.14	1.08		
8	2.72	1.14	1.28	1.14	3.12	3.92	3.92	2.56	1.92	1.36	1.14	1.02		
9	1.52	2.48	1.28	1.14	4.08	6.08	11.90	2.56	1.92	1.36	1.14	0.96		
10	1.14	1.68	1.44	0.90	10.40	14.40	37.02	2.56	1.92	1.36	1.14	0.96		
11	0.84	1.52	5.36	0.84	5.92	8.48	17.60	2.56	1.14	1.36	1.14	1.02		
12	2.88	1.14	1.68	0.84	11.10	36.54	14.80	2.48	1.14	1.14	1.14	1.08		
13	2.72	1.14	1.68	1.92	3.52	9.04	12.90	2.48	1.14	1.14	1.14	1.08		
14	1.52	1.52	1.84	1.68	3.12	4.96	15.90	2.48	1.14	1.14	1.14	1.02		
15	1.52	1.52	1.92	2.32	3.52	6.08	6.72	2.48	1.14	1.36	1.02	0.96		
16	2.08	1.68	1.68	2.88	4.56	4.48	5.52	2.40	1.14	1.36	1.02	1.20		
17	1.28	1.14	1.60	2.48	6.72	5.52	31.78	2.40	1.14	1.36	1.02	1.44		
18	1.14	8.88	1.52	1.92	3.60	3.76	10.10	2.40	1.14	1.36	2.00	1.84		
19	1.14	2.32	1.52	0.84	3.20	3.52	5.76	2.40	1.14	1.44	2.32	1.60		
20	2.88	1.52	1.52	2.08	3.12	9.90	28.45	2.40	1.14	1.44	1.28	1.14		
21	1.68	1.92	1.52	4.64	2.72	5.92	11.80	2.40	1.52	1.52	1.14	1.08		
22	1.52	1.52	1.68	5.76	2.72	5.92	5.68	2.40	1.52	1.36	1.14	1.02		
23	1.52	1.28	1.68	3.28	2.08	5.52	4.32	2.32	1.52	1.60	1.14	0.84		
24	2.72	1.14	1.68	2.88	2.32	19.10	4.08	2.32	1.52	1.52	1.14	0.84		
25	2.08	0.96	1.68	1.14	2.56	15.40	3.92	2.32	1.52	1.52	1.14	1.14		
26	1.36	1.92	1.68	1.14	10.30	5.28	3.52	2.32	1.52	1.14	1.14	1.14		
27	1.14	2.96	1.52	1.14	3.28	5.92	3.52	2.32	1.52	1.52	1.14	1.02		
28	1.14	1.92	1.52	1.68	4.24	4.48	3.36	2.32	1.52	1.36	1.14	0.84		
29	1.52	2.32	1.52	4.96	8.88	7.20	3.28	2.32	1.52	1.14	1.14	0.66		
30	2.08	1.76	1.52	2.80	3.52	4.56	3.28	2.32	1.52	1.14		0.54		
31		1.52		1.92	3.28		3.12		1.52	1.28		0.54		
Total	49.02	55.12	50.32	64.16	129.88	245.04	287.13	74.24	47.32	42.76	34.88	32.54	1112.41	CMSDAY
Mean	1.63	1.78	1.68	2.07	4.19	8.17	9.26	2.47	1.53	1.38	1.20	1.05	3.04	CMS
Max	2.88	8.88	5.36	5.76	11.10	36.54	37.02	2.72	1.92	1.60	2.32	1.84	37.02	CMS
Min	0.54	0.84	1.28	0.84	1.92	3.52	3.12	2.32	1.14	1.14	1.02	0.54	0.54	CMS
Runoff	4.24	4.76	4.35	5.54	11.22	21.17	24.81	6.41	4.09	3.69	3.01	2.81	96.11	MCM
Momentary Peak	48.77 CMS, at 97.09 m. (MSL), at 06.00 Hours, on Oct 10, 2011													
Runoff Yield	24.71	Liters/Second/Square KM.			Momentary Peak Yield		396.504	Liters/Second/Square KM.						

WATER YEAR : 2011

PRACHIN BURI RIVER BASIN

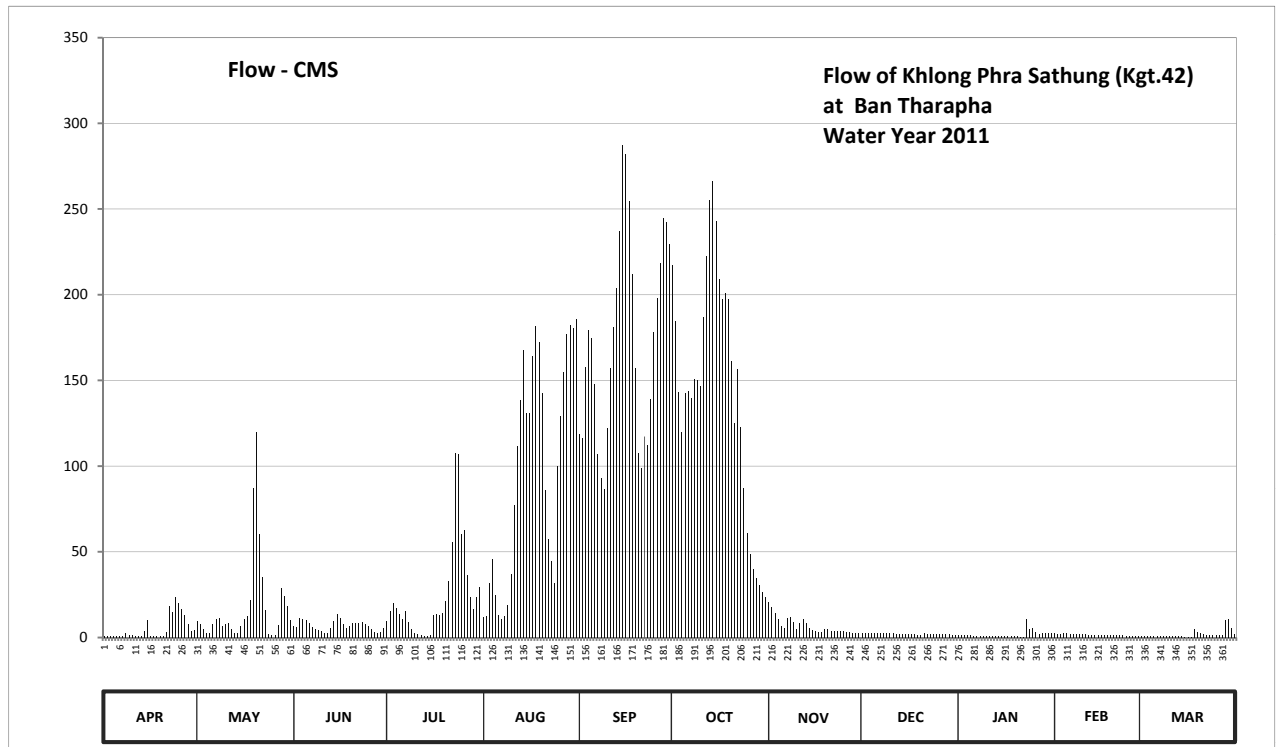
Khlong Phra Sathung at Ban Tharapha , Sa Kaeo (Kgt.42)

Lat 13 - 59 - 21 N Long 101 - 57 - 30 E

Location : on left bank at the bridge.

	Ban	Tharapha	Amphoe	Mueang	Changwat	Sa Kaeo
Drainage Area	2,558	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+13.860	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+24.312 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2005 to date					
Rating Operation						
Period of Rating	2005 to date					
Rated by Flot	-					
Rated by Current Meter	2005 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 25 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.65	9.70	6.60	9.30	12.10	118.80	217.25	20.65	2.90	1.50	2.30	0.80		
2	0.65	7.60	6.20	15.70	12.50	116.10	184.60	17.50	2.80	1.35	2.25	0.80		
3	0.65	4.80	11.40	20.35	31.75	157.60	142.85	14.35	2.70	1.25	2.25	0.80		
4	0.65	2.50	10.60	17.05	45.50	179.20	120.00	10.70	2.60	1.20	2.45	0.80		
5	0.65	2.85	10.20	13.45	24.55	174.70	142.50	6.50	2.55	1.15	2.65	0.80		
6	0.65	7.70	8.60	10.90	13.00	148.00	143.55	5.50	2.50	1.10	2.00	0.80		
7	0.65	10.60	6.10	15.25	10.50	106.80	139.70	11.30	2.45	1.05	1.95	0.75		
8	2.85	11.60	5.20	9.20	12.30	92.70	150.80	12.20	2.40	1.00	1.90	0.75		
9	1.20	6.90	4.40	4.60	19.15	86.50	150.00	9.20	2.35	0.95	1.90	0.75		
10	1.25	7.60	3.80	2.75	37.15	122.20	146.80	5.20	2.30	0.95	1.80	0.70		
11	0.80	8.40	2.75	1.90	77.00	157.15	186.85	8.20	2.30	0.90	1.75	0.70		
12	0.70	4.80	2.80	1.70	111.60	181.00	222.45	11.00	2.25	0.90	1.70	0.70		
13	0.70	2.85	5.30	0.90	138.65	203.50	255.25	8.20	2.20	0.85	1.65	0.65		
14	4.00	2.80	9.60	1.10	167.50	237.25	266.50	5.30	2.15	0.80	1.60	0.60		
15	10.00	6.90	13.45	1.60	130.60	287.58	243.25	4.50	2.10	0.75	1.55	0.55		
16	0.90	10.80	11.20	13.30	130.95	281.80	209.00	3.90	2.00	0.75	1.50	0.55		
17	0.75	12.70	8.00	13.75	164.35	254.50	197.20	2.95	1.90	0.75	1.45	0.55		
18	0.75	22.15	5.30	12.90	181.45	212.00	201.00	3.40	1.75	0.70	1.40	4.60		
19	0.75	87.25	6.90	14.20	172.45	157.15	197.20	5.20	1.70	0.70	1.35	2.95		
20	0.75	119.70	8.20	21.25	142.50	107.70	161.20	4.60	1.65	0.60	1.30	2.75		
21	3.00	60.30	8.50	33.25	85.75	99.00	125.00	4.00	2.30	0.50	1.25	2.05		
22	18.25	35.50	8.20	55.70	57.30	117.30	156.25	3.70	2.20	0.50	1.20	1.70		
23	14.80	16.15	8.90	107.40	44.90	111.90	122.90	3.60	2.05	10.90	1.15	1.65		
24	23.65	2.05	7.80	107.10	32.05	139.00	87.25	3.60	2.00	4.70	1.10	1.65		
25	20.35	1.25	6.40	60.30	100.20	177.85	60.90	3.50	1.95	5.30	1.05	1.60		
26	16.60	1.40	5.10	62.90	129.20	198.10	48.50	3.30	1.90	3.10	1.00	1.60		
27	13.30	7.30	3.10	36.55	154.90	218.55	39.90	3.00	1.85	2.00	0.95	1.55		
28	7.70	28.75	2.50	23.80	176.95	244.75	34.60	2.80	1.80	2.35	0.85	10.10		
29	3.70	24.40	3.10	16.45	182.35	242.50	30.55	2.55	1.75	2.50	0.80	10.60		
30	4.20	18.40	5.40	23.35	180.55	229.60	26.35	2.55	1.70	2.65		5.80		
31		10.40		29.35	185.95		23.80		1.65	2.80		2.25		
Total	155.50	556.10	205.60	757.30	2965.65	5160.78	4433.95	202.95	66.70	56.50	46.05	62.90	14669.98	CMSDAY
Mean	5.18	17.94	6.85	24.43	95.67	172.03	143.03	6.77	2.15	1.82	1.59	2.03	40.08	CMS
Max	23.65	119.70	13.45	107.40	185.95	287.58	266.50	20.65	2.90	10.90	2.65	10.60	287.58	CMS
Min	0.65	1.25	2.50	0.90	10.50	86.50	23.80	2.55	1.65	0.50	0.80	0.55	0.50	CMS
Runoff	13.44	48.05	17.76	65.43	256.23	445.89	383.09	17.54	5.76	4.88	3.98	5.44	1267.49	MCM
Momentary Peak	288.40 CMS, at 24.12 m. (MSL), at 12.00 Hours, on Sep 15, 2011													
Runoff Yield	15.67	Liters/Second/Square KM.			Momentary Peak Yield		112.744	Liters/Second/Square KM.						

WATER YEAR : 2011

BANG PAKONG RIVER BASIN

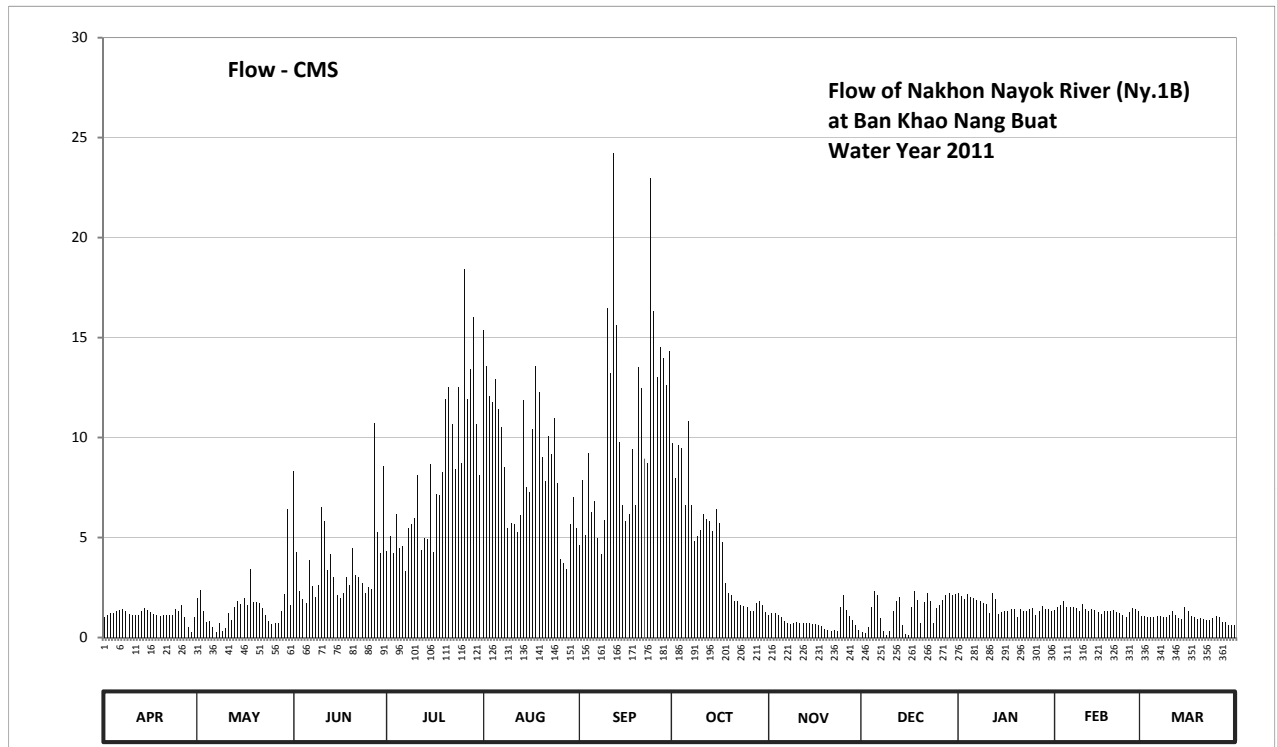
Nakhon Nayok River at Ban Khao Nang Buat , Nakhon Nayok (Ny.1B)

Lat 14 - 14 - 38 N Long 101 - 16 - 14 E

Location : on right bank about 700 meters upstream from Ny.1

	Ban	Khao Nang Buat	Amphoe	Mueang	Changwat	Nakhon Nayok
Drainage Area	521	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 200 meters from the staff gage.				Elevation	+8.758 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1973 to date					
Rating Operation						
Period of Rating	1973 - 1980 , 1991 to date					
Rated by Flot	-					
Rated by Current Meter	1973 - 1980 , 1991 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.04	1.96	8.30	4.34	15.36	4.62	9.70	1.14	0.27	2.20	1.36	1.06		
2	1.14	2.35	4.26	5.10	13.56	7.86	7.95	1.20	0.24	2.08	1.50	1.06		
3	1.20	1.34	2.32	4.22	12.06	5.14	9.60	1.20	0.54	1.90	1.60	1.02		
4	1.24	0.76	1.90	6.18	11.76	9.20	9.45	1.14	1.52	2.17	1.82	1.00		
5	1.32	0.80	1.72	4.46	12.90	6.30	6.62	1.02	2.32	2.02	1.54	1.00		
6	1.36	0.54	3.86	4.58	11.40	6.82	10.80	0.82	2.14	1.99	1.54	1.08		
7	1.40	0.29	2.56	3.30	10.50	4.98	6.62	0.70	0.96	1.88	1.54	1.08		
8	1.30	0.70	2.02	5.46	8.50	4.18	4.82	0.68	0.30	1.80	1.46	1.02		
9	1.18	0.34	2.65	5.66	5.50	5.90	5.06	0.72	0.14	1.74	1.32	1.02		
10	1.14	0.48	6.54	5.98	5.74	16.48	5.38	0.78	0.34	1.66	1.68	1.10		
11	1.10	1.20	5.82	8.10	5.66	13.20	6.18	0.74	1.30	1.22	1.44	1.32		
12	1.12	0.86	3.38	4.38	5.30	24.25	5.94	0.72	1.82	2.20	1.30	1.10		
13	1.32	1.52	4.18	4.98	6.14	15.60	5.82	0.70	2.02	1.90	1.44	0.96		
14	1.46	1.82	3.04	4.94	11.88	9.75	5.34	0.70	0.64	1.18	1.38	0.90		
15	1.38	1.66	2.14	8.65	7.50	6.62	6.42	0.68	0.18	1.26	1.28	1.52		
16	1.26	1.99	1.96	4.30	7.26	5.82	5.74	0.68	0.10	1.30	1.18	1.30		
17	1.16	1.62	2.20	7.18	10.40	6.18	4.78	0.64	1.52	1.34	1.32	1.06		
18	1.10	3.42	3.04	7.14	13.56	9.40	2.71	0.58	2.32	1.44	1.34	1.00		
19	1.06	1.76	2.62	8.25	12.24	6.62	2.23	0.42	1.88	1.42	1.30	0.92		
20	1.10	1.78	4.46	11.94	9.00	13.50	2.11	0.38	0.72	1.04	1.36	0.98		
21	1.14	1.72	3.10	12.54	7.82	12.48	1.80	0.32	1.76	1.42	1.28	0.92		
22	1.14	1.48	3.04	10.65	10.05	8.95	1.82	0.36	2.23	1.30	1.22	0.86		
23	1.10	1.12	2.74	8.40	9.15	8.70	1.62	0.34	1.84	1.32	1.14	0.86		
24	1.42	0.82	2.23	12.54	10.95	22.99	1.58	1.52	0.70	1.40	1.04	0.96		
25	1.30	0.66	2.50	8.70	7.74	16.34	1.54	2.14	1.46	1.48	1.26	1.06		
26	1.60	0.72	2.44	18.44	3.94	13.02	1.30	1.38	1.64	1.10	1.46	1.00		
27	1.04	0.72	10.70	11.94	3.70	14.52	1.34	1.08	1.86	1.32	1.40	0.78		
28	0.50	1.32	5.30	13.44	3.42	13.98	1.70	0.86	2.14	1.58	1.30	0.76		
29	0.28	2.17	4.22	16.02	5.66	12.60	1.80	0.62	2.20	1.40	1.06	0.62		
30	1.04	6.42	8.55	10.65	7.02	14.34	1.62	0.36	2.14	1.42		0.62		
31		1.62		8.10	5.50		1.26		2.17	1.34		0.60		
Total	34.94	45.96	113.79	250.56	271.17	320.34	140.65	24.62	41.41	48.82	39.86	30.54	1362.66	CMSDAY
Mean	1.17	1.48	3.79	8.08	8.75	10.68	4.54	0.82	1.34	1.58	1.37	0.99	3.72	CMS
Max	1.60	6.42	10.70	18.44	15.36	24.25	10.80	2.14	2.32	2.20	1.82	1.52	24.25	CMS
Min	0.28	0.29	1.72	3.30	3.42	4.18	1.26	0.32	0.10	1.04	1.04	0.60	0.10	CMS
Runoff	3.02	3.97	9.83	21.65	23.43	27.68	12.15	2.13	3.58	4.22	3.44	2.64	117.73	MCM
Momentary Peak	7.14	26.84	CMS. at 9.32 m. (MSL.) at 06.00 Hours , on Sep 24 , 2011											
Runoff Yield		7.14	Liters/Second/Square KM.			Momentary Peak Yield		51.470	Liters/Second/Square KM.					

WATER YEAR : 2011**BANG PAKONG RIVER BASIN****Lower Khlong Ban Na at Ban Pa Kha , Nakhon Nayok (Ny.3)**

Lat 14 - 17 - 04 N Long 101 - 04 - 28 E

Location : on left bank near Wat Ban Pa Kha.

	Ban	Pa Kha	Amphoe	Ban Na	Changwat	Nakhon Nayok
Drainage Area	203	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+6.330	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	About 10 meters from the top staff gage.				Elevation	+12.695 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1977 to date					
Rating Operation						
Period of Rating	1977 - 1978 , 1980, 1988 to date					
Rated by Flot	-					
Rated by Current Meter	1977 - 1978 , 1980, 1988 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by the local weir.					
	Stage-discharge relation defined by 23 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.29	7.19	7.46	7.93	8.54	8.82	9.78	7.68	7.16	7.20	7.14	7.03	
2	7.29	7.19	7.88	7.87	9.01	9.22	9.29	7.62	7.24	7.19	7.15	7.03	
3	7.29	7.38	7.52	7.72	9.02	9.47	9.27	7.55	7.22	7.18	7.15	7.03	
4	7.24	7.37	6.99	7.69	8.76	9.32	10.33	7.59	7.29	7.17	7.15	7.03	
5	7.24	7.50	6.97	7.67	8.59	9.70	10.08	7.56	7.34	7.18	7.15	7.03	
6	7.25	7.55	7.59	7.61	8.33	9.58	10.05	7.60	7.33	7.18	7.15	7.03	
7	7.31	7.28	7.62	7.56	8.13	9.20	10.34	7.58	7.31	7.18	7.14	7.03	
8	7.37	7.12	7.50	7.57	7.99	9.11	9.76	7.54	7.31	7.18	7.14	7.03	
9	7.33	7.10	7.48	7.52	7.90	9.71	9.39	7.54	7.30	7.18	7.14	7.03	
10	7.24	7.07	7.48	7.47	7.98	11.80	9.27	7.49	7.29	7.18	7.14	7.03	
11	7.23	7.09	7.48	7.50	8.08	12.52	10.11	7.45	7.28	7.18	7.14	7.03	
12	7.24	7.10	7.68	7.74	8.04	12.61	10.16	7.18	7.27	7.17	7.14	7.03	
13	7.26	7.27	7.84	7.73	7.88	12.08	10.22	7.11	7.26	7.17	7.14	7.03	
14	7.26	7.37	7.78	7.64	7.79	11.27	9.89	7.08	7.26	7.16	7.14	7.03	
15	7.26	7.36	7.70	8.33	7.99	10.38	9.42	7.06	7.25	7.16	7.13	7.03	
16	7.26	7.32	7.69	8.72	8.56	9.91	9.19	7.05	7.25	7.16	7.13	7.03	
17	7.30	7.27	7.64	9.06	8.50	9.58	8.92	7.04	7.24	7.17	7.13	7.03	
18	7.35	7.34	7.64	9.21	9.10	10.10	8.67	7.04	7.23	7.17	7.11	7.03	
19	7.27	7.43	7.68	8.60	9.33	10.05	8.46	7.05	7.23	7.16	7.04	7.03	
20	7.20	7.41	7.67	9.74	9.21	10.36	8.34	7.06	7.22	7.17	7.04	7.03	
21	7.18	7.43	7.71	9.85	9.04	11.61	8.08	7.10	7.22	7.17	7.03	7.03	
22	7.15	7.36	7.78	9.76	8.61	10.59	7.56	7.04	7.22	7.17	7.02	7.03	
23	7.23	7.28	7.70	9.46	8.31	9.94	7.40	7.04	7.22	7.16	7.02	7.03	
24	7.20	7.29	7.69	9.06	8.11	11.60	7.69	7.04	7.23	7.16	7.02	7.03	
25	7.20	7.28	7.58	8.94	8.26	11.71	8.97	7.04	7.23	7.15	7.02	7.03	
26	7.20	7.28	7.51	8.64	8.40	10.76	8.13	7.05	7.22	7.15	7.04	7.03	
27	7.20	7.26	7.95	8.63	8.13	10.75	7.89	7.08	7.21	7.15	7.04	7.03	
28	7.20	7.32	9.11	8.35	8.14	10.59	7.82	7.22	7.21	7.14	7.04	7.03	
29	7.20	7.30	8.53	8.14	9.74	9.96	7.80	7.17	7.21	7.14	7.03	7.03	
30	7.20	7.71	8.09	8.17	9.90	9.95	7.76	7.12	7.21	7.14		7.03	
31		8.36		8.31	9.29		7.72		7.20	7.13		7.03	
Mean	7.25	7.34	7.70	8.33	8.54	10.41	8.96	7.26	7.25	7.17	7.10	7.03	
Max	7.37	8.36	9.11	9.85	9.90	12.61	10.34	7.68	7.34	7.20	7.15	7.03	12.61
Min	7.15	7.07	6.97	7.47	7.79	8.82	7.40	7.04	7.16	7.13	7.02	7.03	6.97
Annual Max Momentary Gage Height	12.71		m. (MSL.) ,			at 13.00 Hours , on Sep 10 , 2011							
Zero Gage at Bottom Elevation	6.33		m. (MSL.) ,			River Bed	6.59	m. (MSL)					
Left Bank Elevation	13.61		m. (MSL.) ,										
Right Bank Elevation	13.69		m. (MSL.) ,			Drainage Area	203	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.73	0.48	1.15	3.30	9.40	12.20	25.15	1.90	0.40	0.50	0.35	0.08		
2	0.73	0.48	2.90	2.85	14.10	16.57	17.49	1.60	0.60	0.48	0.38	0.08		
3	0.73	0.95	1.30	2.10	14.20	19.86	17.23	1.38	0.55	0.45	0.38	0.08		
4	0.60	0.92	0.00	1.95	11.60	17.89	35.20	1.48	0.73	0.43	0.38	0.08		
5	0.60	1.25	0.00	1.85	9.90	23.75	30.40	1.40	0.85	0.45	0.38	0.08		
6	0.63	1.38	1.48	1.55	7.30	21.65	29.88	1.50	0.83	0.45	0.38	0.08		
7	0.78	0.70	1.60	1.40	5.30	16.31	35.52	1.45	0.78	0.45	0.35	0.08		
8	0.92	0.30	1.25	1.43	3.90	15.13	24.80	1.35	0.78	0.45	0.35	0.08		
9	0.83	0.25	1.20	1.30	3.00	23.92	18.81	1.35	0.75	0.45	0.35	0.08		
10	0.60	0.18	1.20	1.17	3.80	81.00	17.23	1.22	0.73	0.45	0.35	0.08		
11	0.58	0.23	1.20	1.25	4.80	127.10	30.92	1.12	0.70	0.45	0.35	0.08		
12	0.60	0.25	1.90	2.20	4.40	134.40	31.80	0.45	0.68	0.43	0.35	0.08		
13	0.65	0.68	2.70	2.15	2.90	96.40	32.85	0.28	0.65	0.43	0.35	0.08		
14	0.65	0.92	2.40	1.70	2.45	60.95	27.08	0.20	0.65	0.40	0.35	0.08		
15	0.65	0.90	2.00	7.30	3.90	36.78	19.20	0.15	0.63	0.40	0.33	0.08		
16	0.65	0.80	1.95	11.20	9.60	27.42	16.18	0.13	0.63	0.40	0.33	0.08		
17	0.75	0.68	1.70	14.60	9.00	21.65	13.20	0.10	0.60	0.43	0.33	0.08		
18	0.87	0.85	1.70	16.44	15.00	30.75	10.70	0.10	0.58	0.43	0.28	0.08		
19	0.68	1.07	1.90	10.00	18.02	29.88	8.60	0.13	0.58	0.40	0.10	0.08		
20	0.50	1.02	1.85	24.45	16.44	36.15	7.40	0.15	0.55	0.43	0.10	0.08		
21	0.45	1.07	2.05	26.38	14.40	72.90	4.80	0.25	0.55	0.43	0.08	0.08		
22	0.38	0.90	2.40	24.80	10.10	43.43	1.40	0.10	0.55	0.43	0.05	0.08		
23	0.58	0.70	2.00	19.72	7.10	27.95	1.00	0.10	0.55	0.40	0.05	0.08		
24	0.50	0.73	1.95	14.60	5.10	72.50	1.95	0.10	0.58	0.40	0.05	0.08		
25	0.50	0.70	1.45	13.40	6.60	76.95	13.70	0.10	0.58	0.38	0.05	0.08		
26	0.50	0.70	1.28	10.40	8.00	47.05	5.30	0.13	0.55	0.38	0.10	0.08		
27	0.50	0.65	3.50	10.30	5.30	46.84	2.95	0.20	0.53	0.38	0.10	0.08		
28	0.50	0.80	15.13	7.50	5.40	43.43	2.60	0.55	0.53	0.35	0.10	0.08		
29	0.50	0.75	9.30	5.40	24.45	28.30	2.50	0.43	0.53	0.35	0.08	0.08		
30	0.50	2.05	4.90	5.70	27.25	28.12	2.30	0.30	0.53	0.35		0.08		
31		7.60		7.10	17.49		2.10		0.50	0.33		0.08		
Total	18.64	30.94	75.34	255.49	300.20	1337.23	490.24	19.70	19.23	12.94	7.18	2.48	2569.61	CMSDAY
Mean														

WATER YEAR : 2011

BANG PAKONG RIVER BASIN

Khlong Samo Pun at Ban Noen Hom , Prachin Buri (Ny.4)

Lat 14 - 17 - 27 N Long 101 - 24 - 25 E

Location : on left bank at the bridge of Prachin Buri - Khao Yai Highway.

	Ban	Noen Hom	Amphoe	Mueang	Changwat	Prachin Buri
Drainage Area	128	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+376.100	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+382.580 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1986 to date					
Rating Operation						
Period of Rating	1986 to date					
Rated by Flot	-					
Rated by Current Meter	1986 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	376.37	376.75	377.72	378.13	378.80	377.46	377.62	376.68	376.48	376.39	376.37	376.36	
2	376.37	376.69	377.52	377.57	378.28	377.59	377.41	376.65	376.48	376.39	376.37	376.36	
3	376.37	376.60	377.23	377.71	377.67	377.38	377.37	376.64	376.47	376.39	376.37	376.36	
4	376.36	376.57	377.17	377.52	377.65	378.14	377.32	376.63	376.47	376.38	376.38	376.29	
5	376.38	376.55	377.29	377.33	377.92	377.53	377.22	376.63	376.47	376.38	376.38	376.36	
6	376.37	376.52	377.33	377.21	377.44	377.59	377.38	376.62	376.46	376.38	376.38	376.36	
7	376.36	376.50	377.22	377.12	377.28	377.47	377.29	376.61	376.45	376.38	376.38	376.36	
8	376.36	376.48	377.14	377.13	377.22	377.38	377.20	376.60	376.45	376.37	376.37	376.36	
9	376.39	376.56	377.16	377.09	377.52	377.43	377.12	376.59	376.45	376.37	376.37	376.36	
10	376.39	376.61	378.21	377.33	377.47	377.40	377.07	376.59	376.44	376.37	376.39	376.35	
11	376.39	376.85	377.57	377.38	377.35	378.07	377.29	376.58	376.44	376.37	376.40	376.35	
12	376.39	376.74	377.58	377.22	377.25	378.46	377.19	376.57	376.44	376.36	376.39	376.35	
13	376.38	377.27	377.63	377.24	377.60	377.98	377.29	376.57	376.44	376.36	376.39	376.35	
14	376.38	376.81	377.74	377.63	378.05	377.97	377.17	376.56	376.44	376.36	376.39	376.35	
15	376.38	377.07	377.40	377.83	377.57	377.58	377.30	376.56	376.44	376.36	376.38	376.36	
16	376.38	376.97	377.47	377.56	377.82	377.65	377.22	376.55	376.43	376.36	376.38	376.35	
17	376.38	376.79	377.83	377.58	378.39	377.88	377.13	376.55	376.43	376.36	376.38	376.35	
18	376.38	377.09	377.96	377.62	378.21	377.60	377.09	376.54	376.43	376.36	376.38	376.35	
19	376.38	376.89	377.44	377.82	377.98	377.46	377.05	376.54	376.43	376.35	376.37	376.35	
20	376.38	377.08	378.40	377.81	377.72	377.91	376.99	376.53	376.43	376.40	376.37	376.35	
21	376.38	376.88	377.57	377.76	377.47	377.50	376.95	376.53	376.42	376.42	376.37	376.35	
22	376.60	376.82	377.38	377.81	377.36	377.37	376.93	376.53	376.42	376.40	376.37	376.35	
23	376.51	376.77	377.20	377.46	377.21	377.36	376.92	376.52	376.42	376.39	376.37	376.35	
24	376.47	376.69	377.17	377.95	377.08	378.03	376.90	376.52	376.41	376.38	376.37	376.35	
25	376.44	376.69	377.08	377.45	377.04	377.51	377.05	376.51	376.41	376.38	376.36	376.35	
26	376.56	376.73	377.06	377.98	377.04	377.37	377.02	376.51	376.41	376.38	376.36	376.35	
27	376.53	376.64	379.84	377.48	376.99	377.80	376.97	376.50	376.41	376.38	376.36	376.34	
28	376.47	376.86	377.83	377.49	377.09	378.21	376.92	376.49	376.41	376.38	376.36	376.34	
29	376.57	378.25	377.51	377.34	377.51	377.58	376.83	376.49	376.41	376.38	376.36	376.34	
30	376.58	377.54	380.35	378.15	377.80	377.80	376.75	376.49	376.41	376.38		376.34	
31		377.13		377.60	377.60		376.69		376.41	376.38		376.34	
Mean	376.42	376.85	377.67	377.56	377.59	377.68	377.12	376.56	376.44	376.38	376.37	376.35	
Max	376.60	378.25	380.35	378.15	378.80	378.46	377.62	376.68	376.48	376.42	376.40	376.36	380.35
Min	376.36	376.48	377.06	377.09	376.99	377.36	376.69	376.49	376.41	376.35	376.36	376.29	376.29
Annual Max Momentary Gage Height			380.70	m. (MSL.) ,		at 12.00 Hours , on Jun 30 , 2011							
Zero Gage at Bottom Elevation			376.10	m. (MSL.) ,		River Bed	375.01	m. (MSL)					
Left Bank Elevation			382.59	m. (MSL.) ,									
Right Bank Elevation			383.59	m. (MSL.) ,		Drainage Area	128	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	5.00	37.00	61.10	118.00	25.40	32.00	3.60	0.80	0.00	0.00	0.00	
2	0.00	3.80	27.80	29.80	71.60	30.60	23.40	3.00	0.80	0.00	0.00	0.00	
3	0.00	2.00	17.90	36.50	34.50	22.40	22.10	2.80	0.70	0.00	0.00	0.00	
4	0.00	1.70	16.10	27.80	33.50	61.80	20.60	2.60	0.70	0.00	0.00	0.00	
5	0.00	1.50	19.70	20.90	48.20	28.20	17.60	2.60	0.70	0.00	0.00	0.00	
6	0.00	1.20	20.90	17.30	24.60	30.60	22.40	2.40	0.60	0.00	0.00	0.00	
7	0.00	1.00	17.60	14.60	19.40	25.80	19.70	2.20	0.50	0.00	0.00	0.00	
8	0.00	0.80	15.20	14.90	17.60	22.40	17.00	2.00	0.50	0.00	0.00	0.00	
9	0.00	1.60	15.80	13.70	27.80	24.20	14.60	1.90	0.50	0.00	0.00	0.00	
10	0.00	2.20	66.70	20.90	25.80	23.00	13.10	1.90	0.40	0.00	0.00	0.00	
11	0.00	7.00	29.80	22.40	21.50	57.20	19.70	1.80	0.40	0.00	0.00	0.00	
12	0.00	4.80	30.20	17.60	18.50	85.80	16.70	1.70	0.40	0.00	0.00	0.00	
13	0.00	19.10	32.50	18.20	31.00	51.80	19.70	1.70	0.40	0.00	0.00	0.00	
14	0.00	6.20	38.00	32.50	56.00	51.20	16.10	1.60	0.40	0.00	0.00	0.00	
15	0.00	13.10	23.00	42.80	29.80	30.20	20.00	1.60	0.40	0.00	0.00	0.00	
16	0.00	10.10	25.80	29.40	42.20	33.50	17.60	1.50	0.30	0.00	0.00	0.00	
17	0.00	5.80	42.80	30.20	80.20	45.80	14.90	1.50	0.30	0.00	0.00	0.00	
18	0.00	13.70	50.60	32.00	66.70	31.00	13.70	1.40	0.30	0.00	0.00	0.00	
19	0.00	7.80	24.60	42.20	51.80	25.40	12.50	1.40	0.30	0.00	0.00	0.00	
20	0.00	13.40	81.00	41.60	37.00	47.60	10.70	1.30	0.30	0.00	0.00	0.00	
21	0.00	7.60	29.80	39.00	25.80	27.00	9.50	1.30	0.20	0.20	0.00	0.00	
22	2.00	6.40	22.40	41.60	21.80	22.10	8.90	1.30	0.20	0.00	0.00	0.00	
23	1.10	5.40	17.00	25.40	17.30	21.80	8.60	1.20	0.20	0.00	0.00	0.00	
24	0.70	3.80	16.10	50.00	13.40	54.80	8.00	1.20	0.10	0.00	0.00	0.00	
25	0.40	3.80	13.40	25.00	12.20	27.40	12.50	1.10	0.10	0.00	0.00	0.00	
26	1.60	4.60	12.80	51.80	12.20	22.10	11.60	1.10	0.10	0.00	0.00	0.00	
27	1.30	2.80	250.00	26.20	10.70	41.00	10.10	1.00	0.10	0.00	0.00	0.00	
28	0.70	7.20	42.80	26.60	13.70	66.70	8.60	0.90	0.10	0.00	0.00	0.00	
29	1.70	69.50	27.40	21.20	27.40	30.20	6.60	0.90	0.10	0.00	0.00	0.00	
30	1.80	28.60	331.00	62.50	41.00	41.00	5.00	0.90	0.10	0.00		0.00	
31		14.90		31.00	31.00		3.80		0.10	0.00		0.00	
Total	11.30	276.40	1395.70	966.70	1082.20	1108.00							

WATER YEAR : 2011**BANG PAKONG RIVER BASIN****Upper Khlong Ban Na at Ban Cha Om , Saraburi (Ny.6)**

Lat 14 - 24 - 34 N Long 101 - 07 - 30 E

Location : on left bank about 50 meters from the top staff gage.

	Ban	Cha Om	Amphoe	Kaeng Khoi	Changwat	Saraburi
Drainage Area	126	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+29.600	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 50 meters from the top staff gage.				Elevation	+34.960 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1988 to date					
Rating Operation						
Period of Rating	1988 to date					
Rated by Flot	-					
Rated by Current Meter	1988 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +34.820 m.(MSL.), records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.70	30.92	31.55	31.17	31.53	31.36	31.61	31.08	31.00	30.88	30.81	30.80	
2	30.70	31.07	31.43	31.13	31.58	31.46	31.53	31.08	31.00	30.88	30.81	30.80	
3	30.70	30.98	31.32	31.12	31.45	31.50	32.15	31.06	30.95	30.88	30.81	30.80	
4	30.70	30.96	31.20	31.14	31.43	31.56	31.87	31.06	30.95	30.88	30.81	30.80	
5	30.70	31.03	31.11	31.09	31.35	31.52	31.71	31.06	30.95	30.85	30.81	30.80	
6	30.70	30.98	31.10	31.06	31.28	31.51	31.85	31.06	30.92	30.85	30.81	30.80	
7	30.70	30.98	31.08	31.04	31.23	31.44	31.70	31.08	30.92	30.85	30.81	30.80	
8	30.71	30.96	31.07	31.07	31.19	31.46	31.60	31.08	30.92	30.85	30.81	30.80	
9	30.71	30.96	31.04	31.04	31.17	31.47	31.52	31.08	30.92	30.85	30.81	30.80	
10	30.71	30.94	31.20	31.02	31.19	34.24	31.50	31.08	30.92	30.85	30.81	30.80	
11	30.72	30.94	31.16	31.21	31.17	32.54	31.63	31.06	30.92	30.85	30.81	30.80	
12	30.73	30.94	31.16	31.13	31.17	33.07	31.69	31.06	30.90	30.85	30.81	30.80	
13	30.73	30.94	31.11	31.09	31.15	32.23	31.74	31.06	30.90	30.84	30.81	30.80	
14	30.73	30.94	31.10	31.07	31.26	32.14	31.60	31.06	30.90	30.84	30.81	30.80	
15	30.73	30.94	31.08	31.54	31.30	32.04	31.53	31.04	30.90	30.84	30.81	30.80	
16	30.74	30.94	31.10	31.31	31.32	31.85	31.48	31.04	30.90	30.84	30.81	30.80	
17	30.75	30.94	31.08	31.61	31.30	31.76	31.42	31.04	30.90	30.84	30.81	30.80	
18	30.76	30.98	31.14	31.41	31.63	31.99	31.37	31.02	30.90	30.83	30.81	30.80	
19	30.78	31.01	31.09	31.58	31.47	31.77	31.31	31.02	30.90	30.83	30.81	30.80	
20	30.80	31.00	31.20	31.68	31.51	32.08	31.29	31.02	30.88	30.83	30.81	30.79	
21	30.81	31.00	31.17	31.75	31.42	32.01	31.26	31.00	30.88	30.83	30.81	30.79	
22	30.81	31.00	31.15	31.73	31.32	31.83	31.23	31.00	30.88	30.83	30.81	30.79	
23	30.84	30.96	31.11	31.49	31.26	31.74	31.20	31.00	30.88	30.83	30.81	30.79	
24	30.84	30.96	31.08	31.59	31.22	32.35	31.20	31.00	30.88	30.83	30.81	30.79	
25	30.85	30.96	31.05	31.43	31.19	31.78	31.17	31.00	30.88	30.82	30.81	30.79	
26	30.85	30.94	31.09	31.51	31.17	31.76	31.15	31.00	30.88	30.82	30.81	30.79	
27	30.88	30.94	31.63	31.38	31.21	31.73	31.14	31.00	30.88	30.82	30.81	30.79	
28	30.88	30.92	31.40	31.27	31.24	31.70	31.14	31.00	30.88	30.82	30.81	30.79	
29	30.90	30.92	31.26	31.25	31.70	31.67	31.11	31.00	30.88	30.82	30.81	30.79	
30	30.90	31.41	31.22	31.30	31.55	31.64	31.10	31.00	30.88	30.82		30.79	
31		31.22		31.39	31.44		31.08		30.88	30.82		30.79	
Mean	30.77	30.99	31.18	31.31	31.34	31.91	31.45	31.04	30.91	30.84	30.81	30.80	
Max	30.90	31.41	31.63	31.75	31.70	34.24	32.15	31.08	31.00	30.88	30.81	30.80	34.24
Min	30.70	30.92	31.04	31.02	31.15	31.36	31.08	31.00	30.88	30.82	30.81	30.79	30.70
Annual Max Momentary Gage Height	35.50		m. (MSL.) ,		at 06.00 Hours , on Sep 10 , 2011								
Zero Gage at Bottom Elevation	29.60		m. (MSL.) ,		River Bed	29.90		m. (MSL)					
Left Bank Elevation	34.82		m. (MSL.) ,										
Right Bank Elevation	34.81		m. (MSL.) ,		Drainage Area	126		Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.60	11.50	3.40	10.90	7.20	13.30	1.80	1.00	0.40	0.05	0.00		
2	0.00	1.70	8.60	2.60	12.40	9.20	10.90	1.80	1.00	0.40	0.05	0.00		
3	0.00	0.90	6.40	2.40	9.00	10.00	31.00	1.60	0.75	0.40	0.05	0.00		
4	0.00	0.80	4.00	2.80	8.60	11.80	21.10	1.60	0.75	0.40	0.05	0.00		
5	0.00	1.30	2.20	1.90	7.00	10.60	16.30	1.60	0.75	0.25	0.05	0.00		
6	0.00	0.90	2.00	1.60	5.60	10.30	20.50	1.60	0.60	0.25	0.05	0.00		
7	0.00	0.90	1.80	1.40	4.60	8.80	16.00	1.80	0.60	0.25	0.05	0.00		
8	0.00	0.80	1.70	1.70	3.80	9.20	13.00	1.80	0.60	0.25	0.05	0.00		
9	0.00	0.80	1.40	1.40	3.40	9.40	10.60	1.80	0.60	0.25	0.05	0.00		
10	0.00	0.70	4.00	1.20	3.80	141.40	10.00	1.80	0.60	0.25	0.05	0.00		
11	0.00	0.70	3.20	4.20	3.40	47.00	13.90	1.60	0.60	0.25	0.05	0.00		
12	0.00	0.70	3.20	2.60	3.40	73.50	15.70	1.60	0.50	0.25	0.05	0.00		
13	0.00	0.70	2.20	1.90	3.00	34.20	17.20	1.60	0.50	0.20	0.05	0.00		
14	0.00	0.70	2.00	1.70	5.20	30.60	13.00	1.60	0.50	0.20	0.05	0.00		
15	0.00	0.70	1.80	11.20	6.00	26.60	10.90	1.40	0.50	0.20	0.05	0.00		
16	0.00	0.70	2.00	6.20	6.40	20.50	9.60	1.40	0.50	0.20	0.05	0.00		
17	0.00	0.70	1.80	13.30	6.00	17.80	8.40	1.40	0.50	0.20	0.05	0.00		
18	0.00	0.90	2.80	8.20	13.90	24.70	7.40	1.20	0.50	0.15	0.05	0.00		
19	0.00	1.10	1.90	12.40	9.40	18.10	6.20	1.20	0.50	0.15	0.05	0.00		
20	0.00	1.00	4.00	15.40	10.30	28.20	5.80	1.20	0.40	0.15	0.05	0.00		
21	0.05	1.00	3.40	17.50	8.40	25.40	5.20	1.00	0.40	0.15	0.05	0.00		
22	0.05	1.00	3.00	16.90	6.40	19.90	4.60	1.00	0.40	0.15	0.05	0.00		
23	0.20	0.80	2.20	9.80	5.20	17.20	4.00	1.00	0.40	0.15	0.05	0.00		
24	0.20	0.80	1.80	12.70	4.40	39.00	4.00	1.00	0.40	0.15	0.05	0.00		
25	0.25	0.80	1.50	8.60	3.80	18.40	3.40	1.00	0.40	0.10	0.05	0.00		
26	0.25	0.70	1.90	10.30	3.40	17.80	3.00	1.00	0.40	0.10	0.05	0.00		
27	0.40	0.70	13.90	7.60	4.20	16.90	2.80	1.00	0.40	0.10	0.05	0.00		
28	0.40	0.60	8.00	5.40	4.80	16.00	2.80	1.00	0.40	0.10	0.05	0.00		
29	0.50	0.60	5.20	5.00	16.00	15.10	2.20	1.00	0.40	0.10	0.05	0.00		
30	0.50	8.20	4.40	6.00	11.50	14.20	2.00	1.00	0.40	0.10		0.00		
31		4.40		7.80	8.80		1.80		0.40	0.10		0.00		
Total	2.80	36.90	113.80	205.10	213.00	749.00	306.60	41.40	16.65	6.35	1.45	0.00	1693.05	CMSDAY
Mean	0.09	1.19												

WATER YEAR : 2011

TONLE SAP BASIN

Khlong Phra Phut at Ban Pang Ngon , Chanthaburi (Tl.3)

Lat 12 - 58 - 12 N Long 102 - 17 - 20 E

Location : on left bank downstream from the bridge of Pong Nam Ron -Wang Nam Yen Highway.

	Ban	Pang Ngon	Amphoe	Pong Nam Ron	Changwat	Chanthaburi
Drainage Area	71	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+190.680	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 6 meters from the top staff gage.				Elevation	+195.973 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1986 to date					
Rated by Flot	-					
Rated by Current Meter	1986 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by the local weir.					
	Stage-discharge relation defined by 13 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.50	0.74	0.82	3.02	13.20	3.82	4.62	2.42	0.98	0.30	1.30	6.87		
2	0.50	0.58	0.74	3.02	22.16	4.14	4.62	2.20	0.98	0.25	1.14	7.04		
3	0.58	0.50	0.74	2.78	8.23	4.78	5.10	2.10	0.90	0.20	1.06	6.38		
4	0.58	0.40	0.58	2.78	5.74	5.26	6.70	2.10	0.90	0.20	1.14	6.54		
5	1.30	0.35	0.45	2.42	4.30	4.14	5.26	1.90	0.90	0.20	1.06	6.38		
6	0.90	0.30	0.40	2.20	3.66	4.14	7.04	1.80	0.90	0.20	1.06	5.74		
7	0.74	0.25	0.40	2.10	3.66	3.66	8.40	1.80	0.90	0.20	1.22	4.30		
8	0.74	0.30	0.35	1.90	4.30	3.66	7.72	2.00	0.90	0.20	1.14	2.42		
9	1.22	1.40	0.35	1.90	6.87	3.50	6.38	2.00	0.90	0.25	1.14	2.66		
10	0.98	2.00	0.45	1.90	13.20	4.30	6.06	1.60	0.98	0.25	1.06	1.80		
11	0.98	1.14	0.66	1.70	8.06	5.74	7.38	1.50	0.82	0.25	1.30	1.06		
12	0.90	0.45	2.42	2.00	6.87	25.18	6.22	1.50	0.74	0.30	0.50	0.40		
13	0.90	0.50	2.90	2.20	5.74	10.96	5.10	1.60	0.74	0.35	0.82	0.20		
14	0.98	0.45	2.42	4.62	6.70	7.55	5.26	1.60	0.66	0.30	6.22	0.15		
15	1.06	0.45	1.70	4.94	6.06	6.54	5.26	1.60	0.66	0.30	6.38	0.30		
16	0.82	0.40	1.30	4.46	7.72	5.42	6.70	1.40	0.66	0.35	6.38	0.58		
17	0.50	0.74	1.40	3.66	7.55	4.62	10.96	1.30	0.58	0.30	6.06	1.60		
18	0.30	2.42	1.50	3.26	6.54	3.66	5.74	1.22	0.58	0.30	4.62	1.70		
19	0.30	1.30	1.90	3.02	5.74	3.14	4.46	1.06	0.50	0.30	4.14	1.70		
20	1.06	1.14	2.30	3.26	5.58	3.26	5.90	1.06	0.50	0.30	4.78	1.70		
21	0.66	0.74	4.78	9.68	5.26	5.90	5.74	0.98	0.50	0.50	6.38	1.50		
22	0.82	0.58	1.90	7.89	4.46	5.42	4.30	0.98	0.40	0.82	5.74	1.40		
23	0.66	0.45	2.54	5.74	4.14	13.52	3.82	0.98	0.30	0.82	6.87	1.22		
24	0.90	0.50	2.78	5.42	3.66	14.80	3.66	1.06	0.35	0.98	7.04	1.30		
25	1.80	0.82	2.66	4.46	3.38	10.32	3.02	1.06	0.35	0.98	6.54	1.70		
26	2.54	0.82	5.42	4.94	3.26	7.21	2.90	1.06	0.30	1.14	6.54	0.58		
27	1.70	0.66	5.42	4.78	4.14	6.70	2.78	1.06	0.30	0.98	6.22	0.50		
28	0.98	0.66	5.42	3.98	6.22	6.87	3.02	0.98	0.30	1.14	6.22	0.50		
29	0.90	0.50	5.10	3.82	8.72	6.38	2.90	0.98	0.30	1.06	6.22	0.50		
30	0.90	0.58	3.26	3.82	5.90	6.06	2.78	0.90	0.30	1.40		0.50		
31		0.90		3.66	4.78		2.66		0.30	1.70		0.50		
Total	27.70	23.02	63.06	115.33	205.80	200.65	162.46	43.80	19.38	16.82	110.29	69.72	1058.03	CMSDAY
Mean	0.92	0.74	2.10	3.72	6.64	6.69	5.24							

WATER YEAR : 2011

TONLE SAP BASIN

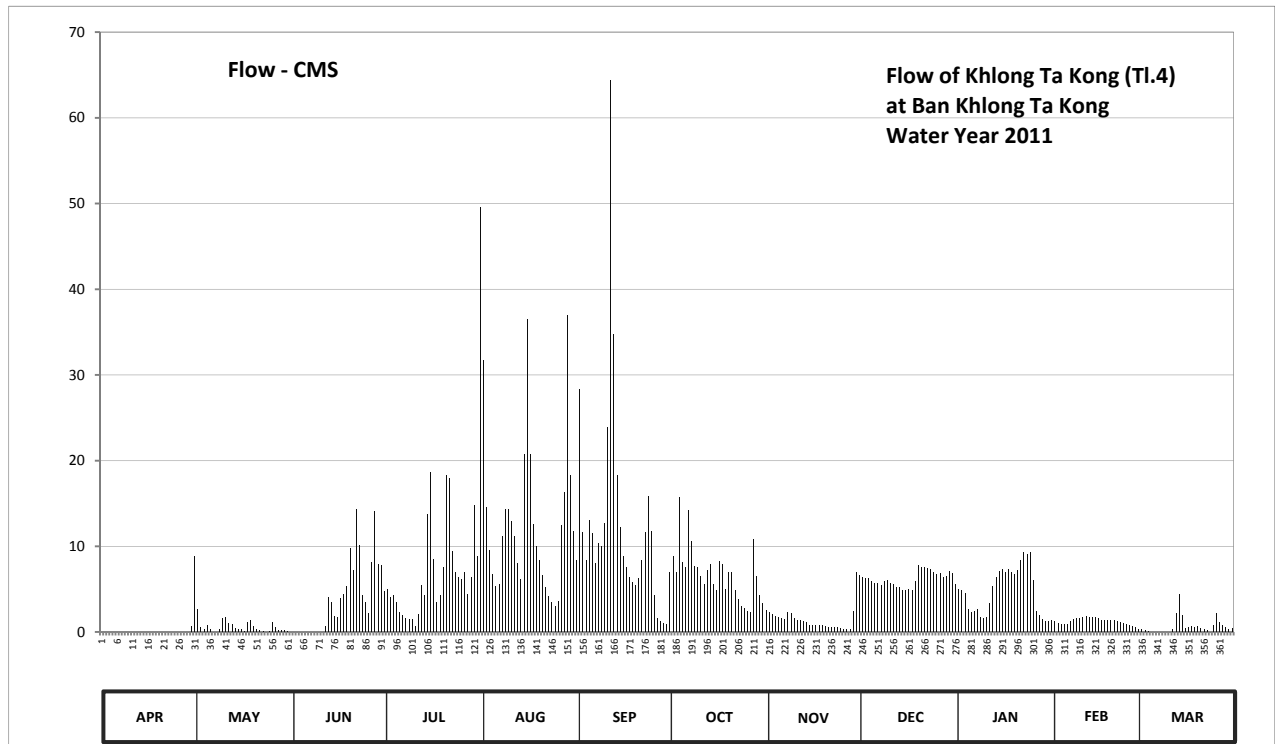
Khlong Ta Kong at Ban Khlong Ta Kong , Chanthaburi (TI.4)

Lat 12 - 55 - 02 N Long 102 - 19 - 30 E

Location : on left bank downstream from the bridge of Amphoe Pong Nam Ron - Ban Pong Nam Ron.

	Ban	Khlong Ta Kong	Amphoe	Pong Nam Ron	Changwat	Chanthaburi
Drainage Area	86	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+176.800	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 30 meters from the top staff gage.				Elevation	+186.762 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1986 to date					
Rated by Flot	-					
Rated by Current Meter	1986 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow					
General Description	Records good. Flow effected by the local weir.					
	Stage-discharge relation defined by 18 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	8.80	0.00	4.70	49.60	8.40	7.00	2.50	6.60	5.60	1.30	0.30		
2	0.00	2.60	0.00	5.00	31.75	28.30	8.80	2.25	6.40	5.00	1.25	0.25		
3	0.00	0.50	0.00	4.00	14.50	11.65	7.00	2.05	6.30	4.90	1.00	0.15		
4	0.00	0.35	0.00	4.30	9.55	8.30	15.70	1.85	6.30	4.50	0.85	0.05		
5	0.00	0.75	0.00	3.40	6.70	13.00	8.10	1.75	5.90	2.60	0.85	0.00		
6	0.00	0.35	0.00	2.25	5.30	11.50	7.60	1.60	5.70	2.25	0.85	0.00		
7	0.00	0.00	0.00	1.90	5.50	8.00	14.20	1.45	5.70	2.40	1.25	0.00		
8	0.00	0.00	0.00	1.60	11.20	10.30	10.60	2.25	5.40	2.60	1.50	0.00		
9	0.00	0.25	0.00	1.50	14.35	10.00	7.70	2.20	5.90	1.70	1.55	0.00		
10	0.00	1.55	0.00	1.50	14.35	12.70	7.50	1.60	6.00	1.60	1.60	0.00		
11	0.00	1.75	0.00	0.70	12.85	23.90	6.50	1.40	5.70	1.70	1.70	0.00		
12	0.00	1.00	0.70	2.05	11.20	64.40	5.60	1.30	5.60	3.30	1.80	0.25		
13	0.00	0.85	4.00	5.40	8.00	34.75	7.20	1.20	5.20	5.30	1.75	2.20		
14	0.00	0.40	3.50	4.30	6.20	18.30	7.90	1.10	5.20	6.40	1.75	4.40		
15	0.00	0.30	1.85	13.75	20.70	12.25	5.60	0.75	4.80	7.10	1.65	1.90		
16	0.00	0.30	1.75	18.70	36.50	8.80	4.90	0.80	4.90	7.30	1.55	0.45		
17	0.00	0.05	3.90	8.50	20.70	7.60	8.20	0.80	5.00	7.00	1.40	0.50		
18	0.00	1.15	4.40	3.50	12.55	6.40	7.90	0.80	4.80	7.30	1.35	0.65		
19	0.00	1.40	5.30	4.30	10.00	5.80	5.00	0.75	5.90	6.90	1.40	0.55		
20	0.00	0.70	9.70	7.50	8.40	5.40	7.00	0.65	7.80	6.70	1.35	0.60		
21	0.00	0.35	7.20	18.30	6.60	6.30	6.90	0.55	7.60	7.20	1.30	0.45		
22	0.00	0.15	14.35	17.90	5.20	8.40	4.90	0.55	7.50	8.30	1.25	0.25		
23	0.00	0.05	10.15	9.40	4.20	11.65	3.80	0.55	7.40	9.25	1.10	0.15		
24	0.00	0.00	4.30	6.90	3.50	15.85	3.00	0.50	7.30	9.10	1.00	0.00		
25	0.00	0.05	3.40	6.40	3.00	11.80	2.70	0.40	7.00	9.25	0.85	0.80		
26	0.00	1.15	2.15	6.20	3.60	4.30	2.45	0.35	6.70	6.00	0.75	2.20		
27	0.00	0.55	8.10	6.90	12.40	1.60	2.30	0.30	6.80	2.35	0.65	1.15		
28	0.00	0.20	14.05	4.40	16.30	1.20	10.75	0.30	6.40	1.90	0.55	0.75		
29	0.00	0.20	7.90	6.40	37.00	1.00	6.50	2.40	6.50	1.45	0.40	0.55		
30	0.70	0.15	7.80	14.80	18.30	0.90	4.30	6.90	7.10	1.25		0.30		
31		0.10		8.80	11.80		3.30		6.80	1.25		0.40		
Total	0.70	26.00	114.50	205.25	431.80	372.75	210.90	41.85	192.20	149.45	35.55	19.25	1800.20	CMSDAY
Mean	0.02	0.84	3.82	6.62	13.93	12.42	6.80	1.39	6.20	4.82	1.23	0.62	4.92	CMS
Max	0.70	8.80	14.35	18.70	49.60	64.40	15.70	6.90	7.80	9.25	1.80	4.40	64.40	CMS
Min	0.00	0.00	0.00	0.70	3.00	0.90	2.30	0.30	4.80	1.25	0.40	0.00	0.00	CMS
Runoff	0.06	2.25	9.89	17.73	37.31	32.21	18.22	3.62	16.61	12.91	3.07	1.66	155.54	MCM
Momentary Peak	120.00 CMS. at 182.50 m. (MSL.) at 24.00 Hours , on Aug 15 , 2011													
Runoff Yield	57.19	Liters/Second/Square KM.			Momentary Peak Yield			1395.349	Liters/Second/Square KM.					

WATER YEAR : 2011

TONLE SAP BASIN

Khlong Thung Krang at Ban Thung Krang , Chanthaburi (Tl.6)

Lat 13 - 01 - 36 N Long 102 - 16 - 21 E

Location : on right bank at the bridge of Chanthaburi - Sa Kaeo Highway.

	Ban	Thung Krang	Amphoe	Pong Nam Ron	Changwat	Chanthaburi
Drainage Area	42	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+183.100	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 20 meters from the top staff gage.				Elevation	+187.655 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
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 18 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.17	0.65	14.98	1.05	1.10	0.90	0.36	0.24	0.14	0.05		
2	0.00	0.00	0.20	0.62	8.50	4.30	1.05	0.90	0.32	0.25	0.09	0.09		
3	0.00	0.00	0.11	0.48	2.30	1.79	1.05	0.85	0.34	0.25	0.16	0.06		
4	0.00	0.00	0.11	0.40	1.58	2.00	1.25	1.10	0.34	0.29	0.18	0.06		
5	0.00	0.00	0.07	0.30	1.05	1.72	1.51	1.00	0.32	0.26	0.15	0.09		
6	0.00	0.04	0.00	0.27	0.90	1.25	1.37	0.74	0.34	0.25	0.12	0.07		
7	0.00	0.00	0.00	0.22	1.37	1.15	5.66	0.65	0.32	0.24	0.13	0.05		
8	0.00	0.00	0.00	0.19	1.20	1.37	2.20	0.68	0.40	0.19	0.10	0.08		
9	0.21	0.00	0.04	0.21	1.86	1.25	1.93	0.71	0.53	0.24	0.12	0.09		
10	0.03	0.00	0.19	0.17	3.65	2.70	4.04	0.65	0.42	0.24	0.14	0.15		
11	0.00	0.00	0.28	0.16	7.10	4.64	2.40	0.65	0.40	0.25	0.04	0.24		
12	0.00	0.05	0.68	0.11	4.17	6.66	2.80	0.65	0.36	0.23	0.05	0.22		
13	0.00	0.00	1.15	0.24	1.86	3.91	1.72	0.62	0.34	0.25	0.07	0.09		
14	0.02	0.12	0.77	0.44	1.51	2.70	1.58	0.59	0.34	0.23	0.06	0.10		
15	0.00	0.09	0.50	0.74	1.86	1.25	1.30	0.56	0.34	0.18	0.07	0.14		
16	0.00	0.04	0.30	1.25	3.91	1.79	1.58	0.56	0.32	0.25	0.04	0.15		
17	0.00	0.00	0.38	0.80	1.86	1.58	1.51	0.56	0.29	0.20	0.04	0.09		
18	0.00	0.62	0.71	0.95	1.51	1.25	1.72	0.50	0.28	0.20	0.22	0.23		
19	0.00	0.28	0.85	0.59	1.25	1.15	1.37	0.46	0.26	0.20	0.32	0.32		
20	0.26	0.32	1.10	0.68	1.20	1.10	2.70	0.50	0.29	0.21	0.27	0.34		
21	0.09	0.19	0.90	2.60	1.00	1.05	2.00	0.50	0.28	0.20	0.25	0.22		
22	0.05	0.11	0.80	1.79	0.80	1.51	1.65	0.50	0.29	0.21	0.23	0.10		
23	0.04	0.21	0.85	1.05	0.71	2.20	1.30	0.48	0.28	0.22	0.19	0.09		
24	0.01	0.10	0.53	0.85	0.68	3.78	0.90	0.46	0.29	0.22	0.23	0.04		
25	0.06	0.08	0.44	0.74	0.68	2.70	1.10	0.44	0.28	0.22	0.21	0.50		
26	0.00	0.25	0.34	0.65	0.74	2.30	1.15	0.46	0.28	0.21	0.14	0.44		
27	0.00	0.26	1.44	0.44	0.71	2.20	1.05	0.44	0.32	0.18	0.09	0.24		
28	0.00	0.22	1.65	0.32	1.58	1.58	1.10	0.40	0.28	0.09	0.14	0.18		
29	0.00	0.18	0.85	0.30	2.80	1.30	1.72	0.38	0.24	0.12	0.15	0.10		
30	0.00	0.13	0.71	0.48	1.51	1.20	1.51	0.36	0.23	0.17		0.09		
31		0.08		0.42	1.20		1.15		0.23	0.24		0.07		
Total	0.77	3.37	16.12	19.11	76.03	64.43	54.47	18.25	9.91	6.73	4.14	4.78	278.11	CMSDAY
Mean	0.03	0.11	0.54	0.62	2.45	2.15	1.76	0.61	0.32					

WATER YEAR : 2011**EAST COAST - GULF BASIN****Khlong Yai at Ban Si Bua Thong , Trat (Z.10)**

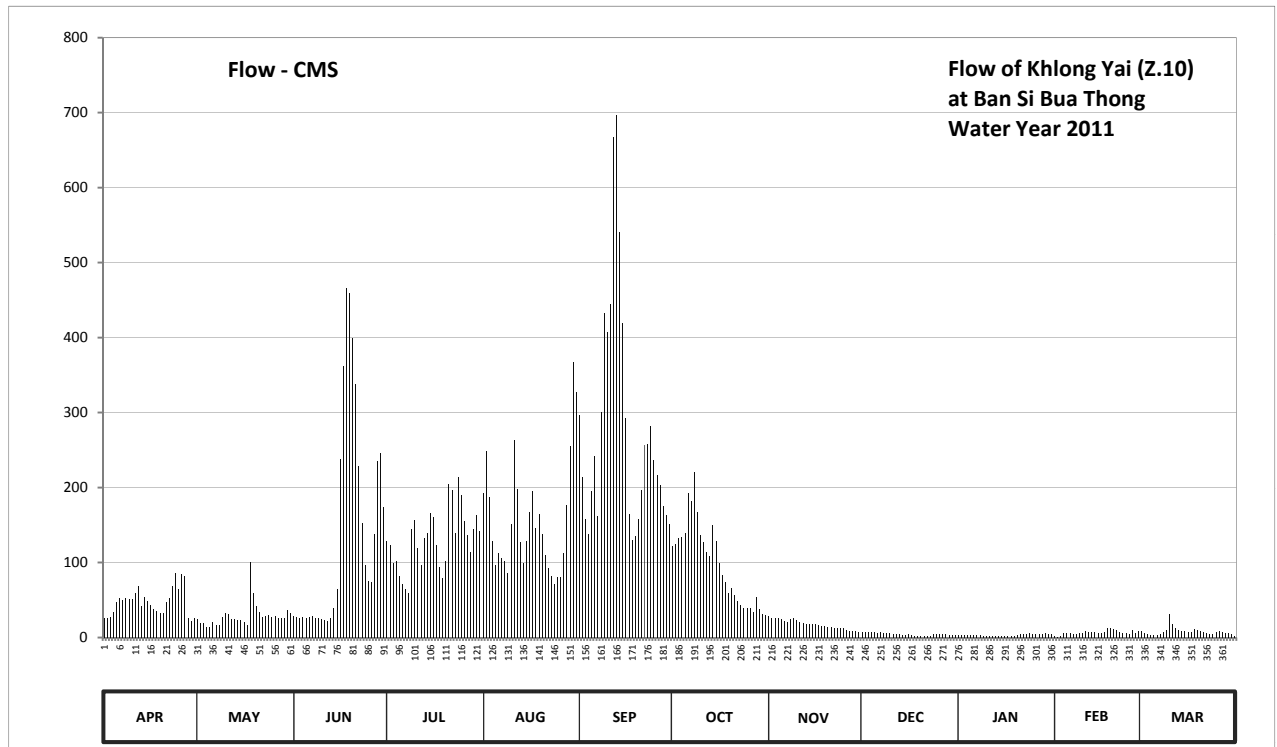
Lat 12 - 28 - 24 N Long 102 - 28 - 49 E

Location : on left bank at Ban Si Bua Thong

	Ban	Si Bua Thong	Amphoe	Khao Saming	Changwat	Trat
Drainage Area	779	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+1.900	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near automatic gage building.				Elevation	+13.181 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1970 to date					
Rating Operation						
Period of Rating	1973 - 1978 , 1999 to date					
Rated by Flot	-					
Rated by Current Meter	1973 - 1978 , 1999 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow					
General Description	Records good. Stage-discharge relation defined by 63 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.45	4.40	4.53	7.44	8.97	10.98	7.27	4.55	3.70	3.53	3.41	3.76	
2	4.43	4.18	4.49	7.32	10.19	9.44	7.35	4.45	3.69	3.52	3.38	3.63	
3	4.49	4.16	4.43	6.72	8.83	8.18	7.55	4.42	3.68	3.50	3.43	3.57	
4	4.74	3.97	4.52	6.77	7.47	7.70	7.60	4.41	3.68	3.51	3.62	3.54	
5	5.22	3.97	4.46	6.25	6.65	9.03	7.71	4.37	3.68	3.50	3.66	3.53	
6	5.42	4.21	4.47	5.94	7.06	10.06	8.95	4.28	3.65	3.49	3.62	3.51	
7	5.32	4.08	4.54	5.74	6.89	8.28	8.73	4.22	3.71	3.48	3.56	3.58	
8	5.42	4.06	4.45	5.59	6.78	11.06	9.56	4.37	3.64	3.48	3.57	3.70	
9	5.36	4.48	4.43	7.86	6.35	13.08	8.39	4.43	3.63	3.47	3.63	3.82	
10	5.37	4.72	4.38	8.15	8.02	12.76	7.64	4.32	3.62	3.46	3.65	4.63	
11	5.61	4.64	4.34	7.23	10.42	13.23	7.43	4.23	3.59	3.46	3.72	4.10	
12	5.87	4.37	4.28	6.66	9.07	14.91	7.08	4.18	3.58	3.46	3.70	3.91	
13	5.04	4.38	4.46	7.54	7.43	15.04	6.97	4.12	3.57	3.45	3.69	3.81	
14	5.44	4.35	4.95	7.71	6.73	14.15	7.97	4.11	3.53	3.44	3.67	3.74	
15	5.29	4.34	5.75	8.38	7.45	12.91	7.47	4.11	3.49	3.43	3.64	3.72	
16	5.09	4.20	9.96	8.26	8.40	10.91	6.71	4.11	3.55	3.42	3.62	3.71	
17	4.90	4.08	12.08	7.33	9.02	8.33	6.30	4.04	3.48	3.40	3.67	3.70	
18	4.81	6.74	13.47	6.59	7.89	7.50	6.01	3.99	3.46	3.43	3.92	3.88	
19	4.71	5.61	13.40	6.19	8.33	7.61	5.61	3.99	3.41	3.47	3.93	3.82	
20	4.71	5.04	12.64	6.77	7.70	8.20	5.79	3.98	3.40	3.51	3.84	3.74	
21	5.22	4.75	11.67	9.23	6.99	9.06	5.52	3.97	3.43	3.59	3.77	3.68	
22	5.41	4.52	9.74	9.06	6.56	10.32	5.25	3.92	3.41	3.57	3.69	3.62	
23	5.88	4.53	8.04	7.73	6.26	10.34	5.09	3.91	3.46	3.55	3.65	3.57	
24	6.39	4.61	6.67	9.43	5.97	10.74	4.97	3.90	3.55	3.64	3.65	3.59	
25	5.75	4.47	6.08	8.90	6.21	9.92	4.94	3.89	3.55	3.60	3.57	3.71	
26	6.33	4.57	6.03	8.11	6.20	9.50	4.94	3.79	3.55	3.57	3.81	3.72	
27	6.24	4.44	7.67	7.66	7.04	9.20	4.78	3.74	3.55	3.55	3.66	3.67	
28	4.45	4.43	9.90	7.10	8.61	8.58	5.44	3.73	3.55	3.58	3.73	3.63	
29	4.30	4.44	10.12	7.86	10.29	8.31	4.92	3.72	3.50	3.61	3.63	3.63	
30	4.46	4.87	8.54	8.30	12.17	8.02	4.63	3.71	3.49	3.55		3.60	
31		4.70		7.79	11.49		4.59		3.49	3.55		3.44	
Mean	5.20	4.53	7.15	7.47	7.98	10.24	6.55	4.10	3.56	3.51	3.66	3.72	
Max	6.39	6.74	13.47	9.43	12.17	15.04	9.56	4.55	3.71	3.64	3.93	4.63	15.04
Min	4.30	3.97	4.28	5.59	5.97	7.50	4.59	3.71	3.40	3.40	3.38	3.44	3.38
Annual Max Momentary Gage Height	15.31		m. (MSL.) ,			at 01.00 Hours, on Sep 13, 2011							
Zero Gage at Bottom Elevation	1.90		m. (MSL.) ,			River Bed	2.10	m. (MSL)					
Left Bank Elevation	15.93		m. (MSL.) ,										
Right Bank Elevation	15.93		m. (MSL.) ,			Drainage Area	779	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	26.25	25.00	28.25	128.10	193.15	296.30	121.30	28.75	7.50	3.60	1.65	9.00		
2	25.75	19.50	27.25	123.30	249.00	214.30	124.50	26.25	7.25	3.40	1.20	5.75		
3	27.25	19.00	25.75	99.30	186.85	157.70	132.50	25.50	7.00	3.00	1.95	4.40		
4	33.50	14.25	28.00	101.30	129.30	138.50	134.50	25.25	7.00	3.20	5.50	3.80		
5	47.10	14.25	26.50	81.75	96.50	195.85	138.90	24.25	7.00	3.00	6.50	3.60		
6	53.10	20.25	26.75	70.90	112.90	242.50	192.25	22.00	6.25	2.85	5.50	3.20		
7	50.10	17.00	28.50	63.90	106.10	162.10	182.35	20.50	7.75	2.70	4.20	4.60		
8	53.10	16.50	26.25	58.65	101.70	301.10	219.70	24.25	6.00	2.70	4.40	7.50		
9	51.30	27.00	25.75	144.90	85.25	432.40	167.05	25.75	5.75	2.55	5.75	10.50		
10	51.60	33.00	24.50	156.50	151.30	407.20	136.10	23.00	5.50	2.40	6.25	30.75		
11	59.35	31.00	23.50	119.70	262.70	444.40	127.70	20.75	4.80	2.40	8.00	17.50		
12	68.45	24.25	22.00	96.90	197.65	667.00	113.70	19.50	4.60	2.40	7.50	12.75		
13	41.70	24.50	26.50	132.10	127.70	697.00	109.30	18.00	4.40	2.25	7.25	10.25		
14	53.70	23.75	39.00	138.90	99.70	541.00	149.30	17.75	3.60	2.10	6.75	8.50		
15	49.20	23.50	64.25	166.60	128.50	418.80	129.30	17.75	2.85	1.95	6.00	8.00		
16	43.20	20.00	237.70	161.20	167.50	292.10	98.90	17.75	4.00	1.80	5.50	7.75		
17	37.50	17.00	362.30	123.70	195.40	164.35	83.50	16.00	2.70	1.50	6.75	7.50		
18	35.25	100.10	465.30	94.10	146.10	130.50	73.35	14.75	2.40	1.95	13.00	12.00		
19	32.75	59.35	459.00	79.65	164.35	134.90	59.35	14.75	1.65	2.55	13.25	10.50		
20	32.75	41.70	398.80	101.30	138.50	158.50	65.65	14.50	1.50	3.20	11.00	8.50		
21	47.10	33.75	337.70	204.85	110.10	197.20	56.20	14.25	1.95	4.80	9.25	7.00		
22	52.80	28.00	227.80	197.20	92.90	256.70	48.00	13.00	1.65	4.40	7.25	5.50		
23	68.80	28.25	152.10	139.70	82.10	257.90	43.20	12.75	2.40	4.00	6.25	4.40		
24	86.65	30.25	97.30	213.85	71.95	281.90	39.60	12.50	4.00	6.00	6.25	4.80		
25	64.25	26.75	75.80	190.00	80.35	235.90	38.70	12.25	4.00	5.00	4.40	7.75		
26	84.55	29.25	74.05	154.90	80.00	217.00	38.70	9.75	4.00	4.40	10.25	8.00		
27	81.40	26.00	137.30	136.90	112.10	203.50	34.50	8.50	4.00	4.00	6.50	6.75		
28	26.25	25.75	235.00	114.50	176.95	175.60	53.70	8.25	4.00	4.60	8.25	5.75		
29	22.50	26.00	245.50	144.90	254.90	163.45	38.10	8.00	3.00	5.25	5.75	5.75		
30	26.50	36.75	173.80	163.00	367.70	151.30	30.75	7.75	2.85	4.00		5.00		
31		32.50		142.10	326.90		29.75		2.85	4.00		2.10		
Total	1433.70	894.15	4122.20	4044.65	4796.10	8336.95	3010.40	524.00	134.20	101.95	192.05	249.15	27839.50	CMSDAY
Mean	47.79	28.84	137.41	130.47	154.71	277.90	97.11	17.47	4.33	3.29	6.62	8.04	76.06	CMS
Max	86.65	100.10	465.30	213.85	367.70	697.00	219.70	28.75	7.75	6.00	13.25	30.75	697.00	CMS
Min	22.50	14.25	22.00	58.65	71.95	130.50	29.75	7.75	1.50	1.50	1.20	2.10	1.20	CMS
Runoff	123.87	77.26	356.16	349.46	414.38	720.31	260.10	45.27	11.60	8.81	16.59	21.53	2405.33	MCM
Momentary Peak	789.00 CMS, at 15:31 m. (MSL), at 01:00 Hours, on Sep 13, 2011													
Runoff Yield	97.64	Liters/Second/Square KM.			Momentary Peak Yield		112.837	Liters/Second/Square KM.						

WATER YEAR : 2011

EAST COAST - GULF BASIN

Khlong Prasae at Ban Chak Khrok , Rayong (Z.11)

Lat 12 - 51 - 20 N Long 101 - 37 - 09 E

Location : on left bank near the Meteorological Station.

	Ban	Chak Khrok	Amphoe	Klaeng	Changwat	Rayong
Drainage Area	1,236	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+2.630	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the Meteorological Station.				Elevation	+13.420 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1965 - 1974 , 1989 to date					
Rating Operation						
Period of Rating	1989 to date					
Rated by Flot	-					
Rated by Current Meter	1989 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow					
General Description	Records fair. Flow effectedn by the concrete weir about 7 kilometers downstream and 5 kilometers above gage site. Stage-discharge relation defined by 36 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.67	4.91	5.59	4.96	5.14	6.31	7.27	5.19	4.71	4.67	4.71	5.39	
2	4.67	4.81	5.58	5.90	6.29	5.79	6.87	5.10	4.70	4.68	4.71	5.52	
3	4.67	4.77	5.59	6.68	5.67	5.54	6.55	5.03	4.70	4.68	4.71	5.36	
4	4.67	4.81	5.59	7.28	5.19	5.65	6.49	4.96	4.70	4.68	4.70	5.31	
5	4.70	5.47	5.74	6.68	5.03	5.73	6.74	4.90	4.70	4.68	4.70	5.30	
6	4.83	5.62	5.84	5.85	4.96	6.41	7.23	4.85	4.70	4.68	4.70	5.31	
7	4.78	5.67	5.83	5.24	5.06	6.66	8.35	4.72	4.69	4.67	4.71	5.57	
8	4.76	5.68	5.75	5.07	5.36	6.58	8.60	4.48	4.69	4.68	5.08	5.64	
9	4.75	5.68	5.69	4.98	5.47	6.47	8.30	4.78	4.70	4.68	5.33	5.55	
10	4.79	5.68	5.28	4.94	5.59	6.67	8.02	5.00	4.69	4.68	5.35	4.96	
11	4.75	5.67	5.14	4.93	5.75	7.58	7.27	4.73	4.68	4.68	5.37	4.71	
12	4.74	5.65	5.11	4.89	5.46	9.13	6.87	4.69	4.68	4.68	5.36	4.70	
13	4.73	5.67	5.23	4.89	5.31	8.96	6.55	4.66	4.68	4.68	5.35	4.69	
14	4.74	5.78	6.07	4.88	5.78	8.42	6.49	4.67	4.68	4.68	5.35	4.69	
15	4.72	5.80	5.50	5.01	6.55	7.76	6.74	4.65	4.68	4.68	5.36	4.69	
16	4.69	5.97	5.12	5.11	7.26	7.20	7.23	4.71	4.68	4.68	5.37	4.68	
17	4.70	5.78	4.97	5.02	7.42	6.86	8.35	4.70	4.68	4.71	5.37	4.67	
18	4.70	5.71	4.94	4.96	7.67	6.53	8.60	4.70	4.68	4.69	5.37	4.64	
19	4.73	5.66	4.92	4.89	6.97	6.76	8.30	4.70	4.68	4.70	5.38	4.65	
20	4.80	5.69	5.19	4.85	5.87	7.13	8.02	4.70	4.68	4.76	5.37	4.73	
21	4.74	5.71	5.19	4.95	5.33	7.62	7.46	4.68	4.68	4.71	5.36	4.84	
22	4.71	5.66	5.09	5.30	5.28	8.89	7.07	4.67	4.68	4.70	5.36	4.77	
23	4.79	5.61	4.98	5.10	5.25	8.74	6.67	4.66	4.68	4.70	5.35	4.77	
24	4.87	5.61	4.89	4.99	5.12	8.37	6.31	4.67	4.67	4.70	5.35	4.80	
25	5.24	5.68	4.84	5.45	6.04	7.84	6.03	4.72	4.67	4.70	4.85	4.79	
26	5.68	5.69	4.81	5.98	7.43	7.37	5.88	4.73	4.67	4.76	4.92	4.77	
27	5.62	5.65	5.03	5.38	7.96	7.08	5.80	4.72	4.67	4.91	5.33	5.19	
28	5.28	5.65	5.17	5.05	7.79	6.81	5.64	4.72	4.67	4.77	4.83	4.66	
29	4.93	5.61	5.01	4.95	8.63	6.99	5.50	4.74	4.67	4.72	5.32	4.65	
30	4.93	5.59	4.95	4.93	8.60	7.20	5.35	4.91	4.67	4.72		4.64	
31		5.58		4.89	7.55		5.24		4.67	4.71		4.64	
Mean	4.85	5.57	5.29	5.29	6.22	7.17	6.96	4.77	4.68	4.70	5.14	4.94	
Max	5.68	5.97	6.07	7.28	8.63	9.13	8.60	5.19	4.71	4.91	5.38	5.64	9.13
Min	4.67	4.77	4.81	4.85	4.96	5.54	5.24	4.48	4.67	4.67	4.70	4.64	4.48
Annual Max Momentary Gage Height	9.24		m. (MSL.) , at 12.00 Hours, on Sep 12, 2011										
Zero Gage at Bottom Elevation	2.63		m. (MSL.) , River Bed 3.65 m. (MSL)										
Left Bank Elevation	10.80		m. (MSL.) ,										
Right Bank Elevation	10.67		m. (MSL.) , Drainage Area 1236 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.05	12.65	25.30	13.40	16.30	40.75	70.80	17.30	9.65	9.05	9.65	21.30	
2	9.05	11.15	25.10	31.50	40.25	29.30	56.64	15.50	9.50	9.20	9.65	23.90	
3	9.05	10.55	25.30	50.56	26.90	24.30	46.75	14.45	9.50	9.20	9.65	20.70	
4	9.05	11.15	25.30	71.20	17.30	26.50	45.25	13.40	9.50	9.20	9.50	19.70	
5	9.50	22.90	28.30	50.56	14.45	28.10	52.48	12.50	9.50	9.20	9.50	19.50	
6	11.45	25.90	30.30	30.50	13.40	43.25	69.20	11.75	9.50	9.20	9.50	19.70	
7	10.70	26.90	30.10	18.30	14.90	49.92	128.50	9.80	9.35	9.05	9.65	24.90	
8	10.40	27.10	28.50	15.05	20.70	47.50	146.50	6.20	9.35	9.20	15.20	26.30	
9	10.25	27.10	27.30	13.70	22.90	44.75	125.00	10.70	9.50	9.20	20.10	24.50	
10	10.85	27.10	19.10	13.10	25.30	50.24	107.70	14.00	9.35	9.20	20.50	13.40	
11	10.25	26.90	16.30	12.95	28.50	84.00	70.80	9.95	9.20	9.20	20.90	9.65	
12	10.10	26.50	15.70	12.35	22.70	219.10	56.64	9.35	9.20	9.20	20.70	9.50	
13	9.95	26.90	18.10	12.35	19.70	190.10	46.75	8.90	9.20	9.20	20.50	9.35	
14	10.10	29.10	34.90	12.20	29.10	133.40	45.25	9.05	9.20	9.20	20.50	9.35	
15	9.80	29.50	23.50	14.15	46.75	93.00	52.48	8.75	9.20	9.20	20.70	9.35	
16	9.35	32.90	15.90	15.70	70.40	68.00	69.20	9.65	9.20	9.20	20.90	9.20	
17	9.50	29.10	13.55	14.30	76.80	56.32	128.50	9.50	9.20	9.65	20.90	9.05	
18	9.50	27.70	13.10	13.40	88.50	46.25	146.50	9.50	9.20	9.35	20.90	8.60	
19	9.95	26.70	12.80	12.35	59.84	53.12	125.00	9.50	9.20	9.50	21.10	8.75	
20	11.00	27.30	17.30	11.75	30.90	65.20	107.70	9.50	9.20	10.40	20.90	9.95	
21	10.10	27.70	17.30	13.25	20.10	86.00	78.40	9.20	9.20	9.65	20.70	11.60	
22	9.65	26.70	15.35	19.50	19.10	179.20	63.04	9.05	9.20	9.50	20.70	10.55	
23	10.85	25.70	13.70	15.50	18.50	159.70	50.24	8.90	9.20	9.50	20.50	10.55	
24	12.05	25.70	12.35	13.85	15.90	129.90	40.75	9.05	9.05	9.50	20.50	11.00	
25	18.30	27.10	11.60	22.50	34.30	97.30	34.10	9.80	9.05	9.50	11.75	10.85	
26	27.10	27.30	11.15	33.10	77.20	74.80	31.10	9.95	9.05	10.40	12.80	10.55	
27	25.90	26.50	14.45	21.10	104.20	63.36	29.50	9.80	9.05	12.65	20.10	17.30	
28	19.10	26.50	16.90	14.75	94.50	54.72	26.30	9.80	9.05	10.55	11.45	8.90	
29	12.95	25.70	14.15	13.25	148.90	60.48	23.50	10.10	9.05	9.80	19.90	8.75	
30	12.95	25.30	13.25	12.95	146.50	68.00	20.50	12.65	9.05	9.80		8.60	
31		25.10		12.35	82.50		18.30	</					

WATER YEAR : 2011**EAST COAST - GULF BASIN****Chanthaburi River at Ban Puk , Chanthaburi (Z.13)**

Lat 12 - 45 - 38 N Long 102 - 08 - 33 E

Location : on left bank at Ban Puk

	Ban Puk	Amphoe Makham	Changwat Chanthaburi
Drainage Area	647 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+6.300 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.	Elevation	+14.374 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1968 to date		
Rating Operation			
Period of Rating	1969 to date		
Rated by Flot	-		
Rated by Current Meter	1969 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 16 discharge measurements made in 2011.		

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.53	8.88	8.89	9.69	9.80	9.65	9.66	9.03	8.62	8.47	8.55	8.52	
2	8.53	8.84	8.98	9.57	10.94	9.53	9.71	9.01	8.68	8.55	8.55	8.43	
3	8.53	8.80	8.84	9.73	11.70	9.52	9.64	8.99	8.67	8.52	8.56	8.43	
4	8.59	8.78	8.85	9.77	10.05	9.56	9.67	8.97	8.67	8.52	8.56	8.43	
5	8.62	8.75	8.85	9.50	9.54	9.63	9.78	8.95	8.66	8.53	8.57	8.42	
6	8.62	8.80	8.84	9.38	9.40	9.50	9.97	8.93	8.66	8.52	8.57	8.42	
7	8.62	8.84	8.84	9.29	9.52	9.43	9.68	8.91	8.67	8.51	8.57	8.43	
8	8.62	8.96	8.85	9.23	9.59	9.45	9.62	8.90	8.67	8.50	8.55	8.53	
9	8.65	9.12	8.91	9.24	9.72	9.57	9.63	8.89	8.66	8.50	8.54	8.53	
10	8.64	9.11	8.95	9.20	9.91	9.72	9.70	8.88	8.65	8.52	8.52	8.55	
11	8.64	9.04	8.93	9.15	10.06	10.37	9.61	8.87	8.66	8.52	8.54	8.73	
12	8.64	8.99	8.78	9.17	10.30	12.26	9.65	8.86	8.65	8.52	8.46	8.71	
13	8.65	8.94	8.83	9.33	10.08	12.71	9.78	8.85	8.65	8.52	8.54	8.67	
14	8.66	8.95	8.91	9.29	9.87	11.31	9.83	8.84	8.65	8.51	8.52	8.65	
15	8.64	8.94	8.89	9.37	10.11	9.92	9.73	8.83	8.64	8.51	8.52	8.61	
16	8.63	8.91	8.95	9.49	12.07	9.76	9.97	8.82	8.64	8.51	8.53	8.60	
17	8.62	8.87	8.99	9.37	12.25	9.61	10.37	8.81	8.64	8.52	8.53	8.63	
18	8.62	9.09	9.04	9.29	10.38	9.52	9.73	8.80	8.63	8.52	8.55	8.62	
19	8.60	9.03	9.14	9.24	9.87	9.54	9.53	8.79	8.62	8.51	8.57	8.62	
20	8.61	8.98	9.41	9.39	9.74	10.12	9.44	8.78	8.61	8.55	8.58	8.62	
21	8.63	8.96	9.21	10.13	9.59	10.67	9.38	8.77	8.59	8.55	8.56	8.60	
22	8.67	8.95	9.29	10.25	9.47	10.37	9.33	8.76	8.59	8.55	8.56	8.58	
23	8.66	8.94	9.31	9.79	9.46	10.11	9.31	8.75	8.59	8.55	8.54	8.56	
24	8.67	8.94	10.06	9.72	9.41	10.62	9.24	8.74	8.59	8.55	8.54	8.56	
25	8.70	8.92	10.01	9.60	9.43	11.37	9.20	8.73	8.59	8.55	8.53	8.60	
26	8.75	8.93	9.45	9.56	9.45	11.33	9.16	8.72	8.58	8.55	8.53	8.61	
27	8.85	8.90	9.30	9.66	9.60	10.44	9.13	8.71	8.58	8.55	8.53	8.62	
28	8.79	8.79	9.35	9.46	9.52	10.30	9.11	8.70	8.58	8.55	8.52	8.60	
29	8.80	8.88	9.42	9.48	10.47	9.84	9.13	8.69	8.57	8.55	8.52	8.59	
30	8.82	8.93	9.28	9.49	10.57	9.90	9.08	8.68	8.57	8.55		8.56	
31		8.93		9.39	9.85		9.04		8.57	8.55		8.55	
Mean	8.65	8.93	9.11	9.49	10.06	10.19	9.54	8.83	8.63	8.53	8.54	8.57	
Max	8.85	9.12	10.06	10.25	12.25	12.71	10.37	9.03	8.68	8.55	8.58	8.73	12.71
Min	8.53	8.75	8.78	9.15	9.40	9.43	9.04	8.68	8.57	8.47	8.46	8.42	8.42
Annual Max Momentary Gage Height	12.82		m. (MSL.) ,			at 09.00 Hours, on Sep 13, 2011							
Zero Gage at Bottom Elevation	6.30		m. (MSL.) ,			River Bed 4.11	m. (MSL)						
Left Bank Elevation	14.82		m. (MSL.) ,										
Right Bank Elevation	14.83		m. (MSL.) ,			Drainage Area 647	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	16.80	17.40	104.40	130.00	98.00	99.60	26.40	1.20	0.00	0.00	0.00	
2	0.00	14.40	22.80	85.50	170.40	79.50	108.40	24.80	4.80	0.00	0.00	0.00	
3	0.00	12.00	14.40	113.20	232.00	78.00	96.40	23.40	4.20	0.00	0.00	0.00	
4	0.00	10.80	15.00	122.80	135.50	84.00	101.20	22.20	4.20	0.00	0.00	0.00	
5	1.20	9.00	15.00	75.00	81.00	94.80	125.20	21.00	3.60	0.00	0.00	0.00	
6	1.20	12.00	14.40	58.80	61.00	75.00	133.40	19.80	3.60	0.00	0.00	0.00	
7	1.20	14.40	14.40	49.00	78.00	65.20	102.80	18.60	4.20	0.00	0.00	0.00	
8	1.20	21.60	15.00	43.00	88.50	68.00	93.20	18.00	4.20	0.00	0.00	0.00	
9	3.00	33.60	18.60	44.00	110.80	85.50	94.80	17.40	3.60	0.00	0.00	0.00	
10	2.40	32.80	21.00	40.00	132.20	110.80	106.00	16.80	3.00	0.00	0.00	0.00	
11	2.40	27.20	19.80	36.00	135.80	145.10	91.60	16.20	3.60	0.00	0.00	7.80	
12	2.40	23.40	10.80	37.60	143.00	309.80	98.00	15.60	3.00	0.00	0.00	6.60	
13	3.00	20.40	13.80	53.30	136.40	424.00	125.20	15.00	3.00	0.00	0.00	4.20	
14	3.60	21.00	18.60	49.00	131.40	195.80	130.60	14.40	3.00	0.00	0.00	3.00	
15	2.40	20.40	17.40	57.70	137.30	132.40	113.20	13.80	2.40	0.00	0.00	0.60	
16	1.80	18.60	21.00	73.60	278.80	120.40	133.40	13.20	2.40	0.00	0.00	0.00	
17	1.20	16.20	23.40	57.70	308.00	91.60	145.10	12.60	2.40	0.00	0.00	1.80	
18	1.20	31.20	27.20	49.00	145.40	78.00	113.20	12.00	1.80	0.00	0.00	1.20	
19	0.00	26.40	35.20	44.00	131.40	81.00	79.50	11.40	1.20	0.00	0.00	1.20	
20	0.60	22.80	62.40	59.90	115.60	137.60	66.60	10.80	0.60	0.00	0.00	1.20	
21	1.80	21.60	41.00	137.90	88.50	156.80	58.80	10.20	0.00	0.00	0.00	0.00	
22	4.20	21.00	49.00	141.50	70.80	145.10	53.30	9.60	0.00	0.00	0.00	0.00	
23	3.60	20.40	51.10	127.60	69.40	137.30	51.10	9.00	0.00	0.00	0.00	0.00	
24	4.20	20.40	135.80	110.80	62.40	154.80	44.00	8.40	0.00	0.00	0.00	0.00	
25	6.00	19.20	134.30	90.00	65.20	200.60	40.00	7.80	0.00	0.00	0.00	0.00	
26	9.00	19.80	68.00	84.00	68.00	197.40	36.80	7.20	0.00	0.00	0.00	0.60	
27	15.00	18.00	50.00	99.60	90.00	147.60	34.40	6.60	0.00	0.00	0.00	1.20	
28	11.40	11.40	55.50	69.40	78.00	143.00	32.80	6.00	0.00	0.00	0.00	0.00	
29	12.00	16.80	63.80	72.20	148.80	130.80	34.40	5.40	0.00	0.00	0.00	0.00	
30	13.20	19.80	48.00	73.60	152.80	132.00	30.40	4.80	0.00	0.00		0.00	
31		19.80		59.90	131.00		27.20		0.				

WATER YEAR : 2011
EAST COAST - GULF BASIN

Khlong Phayat at Ban Chaman , Chanthaburi (Z.14)

Lat 12 - 44 - 34 N Long 102 - 12 - 35 E

Location : on left bank at the bridge of Khlong Prayat near Wat Chaman.

	Ban	Chaman	Amphoe	Makham	Changwat	Chanthaburi
Drainage Area	229	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+5.400	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 30 meters from the top staff gage.				Elevation	+13.690 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1968 to date					
Rating Operation						
Period of Rating	1986 to date					
Rated by Flot	-					
Rated by Current Meter	1986 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.42	6.44	6.57	7.97	11.25	8.78	8.58	7.09	6.57	6.44	6.41	6.30	
2	6.43	6.49	6.65	7.85	10.94	8.95	8.85	7.06	6.59	6.45	6.38	6.32	
3	6.42	6.45	6.84	7.90	9.43	8.60	8.49	7.03	6.58	6.39	6.38	6.30	
4	6.39	6.46	6.83	7.83	8.58	8.61	8.64	7.00	6.58	6.38	6.37	6.35	
5	6.42	6.43	6.73	7.47	8.21	9.46	8.87	6.96	6.57	6.40	6.35	6.33	
6	6.41	6.45	6.67	7.33	7.94	8.93	8.81	6.96	6.56	6.39	6.35	6.33	
7	6.38	6.34	6.67	7.22	7.86	8.57	8.64	6.93	6.55	6.44	6.34	6.31	
8	6.39	6.31	6.70	7.15	8.02	9.68	8.72	6.91	6.55	6.49	6.34	6.32	
9	6.38	6.33	6.72	7.37	8.19	9.94	8.34	6.94	6.55	6.39	6.35	6.41	
10	6.39	6.33	6.76	7.43	8.34	10.10	9.40	6.89	6.54	6.36	6.35	6.56	
11	6.40	6.32	6.68	7.16	8.58	10.91	8.57	6.87	6.52	6.36	6.28	6.67	
12	6.38	6.38	7.01	7.52	8.56	13.14	8.34	6.83	6.51	6.36	6.28	6.53	
13	6.39	6.39	8.05	7.71	8.15	11.72	9.57	6.82	6.51	6.36	6.29	6.45	
14	6.39	6.42	7.86	7.85	8.11	10.54	8.91	6.80	6.51	6.37	6.30	6.41	
15	6.42	6.40	7.53	8.10	8.78	9.53	8.40	6.75	6.50	6.35	6.29	6.37	
16	6.41	6.42	7.68	8.30	10.68	9.12	8.85	6.72	6.50	6.37	6.30	6.34	
17	6.44	6.42	9.14	7.73	10.34	8.81	8.73	6.71	6.50	6.33	6.28	6.36	
18	6.44	6.50	9.89	7.47	9.05	8.51	9.02	6.73	6.49	6.42	6.35	6.34	
19	6.45	6.60	8.85	7.36	8.68	9.10	8.11	6.72	6.49	6.45	6.38	6.36	
20	6.42	6.51	9.10	8.74	8.39	9.98	8.03	6.71	6.49	6.43	6.35	6.35	
21	6.40	6.51	8.48	10.87	8.13	9.96	7.74	6.69	6.50	6.42	6.34	6.32	
22	6.40	6.50	8.68	9.78	7.86	9.96	7.61	6.70	6.51	6.43	6.34	6.34	
23	6.41	6.51	8.43	8.67	7.65	9.59	7.54	6.67	6.50	6.44	6.31	6.33	
24	6.42	6.91	7.65	9.18	7.59	9.97	7.50	6.65	6.50	6.47	6.31	6.31	
25	6.45	6.95	7.39	8.45	7.54	9.71	7.41	6.64	6.49	6.45	6.31	6.74	
26	6.47	7.26	7.31	9.10	7.51	9.63	7.36	6.63	6.48	6.48	6.31	6.55	
27	6.42	7.14	10.08	8.96	7.56	9.23	7.24	6.62	6.47	6.44	6.31	6.44	
28	6.42	7.33	11.95	8.23	8.43	9.10	7.25	6.60	6.47	6.43	6.31	6.41	
29	6.42	7.36	9.34	9.50	11.37	8.89	7.32	6.60	6.48	6.39	6.29	6.41	
30	6.44	6.98	8.37	9.83	10.45	9.14	7.18	6.58	6.47	6.42		6.34	
31		6.85		8.77	8.98		7.11		6.47	6.44		6.30	
Mean	6.41	6.60	7.89	8.22	8.75	9.61	8.23	6.79	6.52	6.41	6.33	6.39	
Max	6.47	7.36	11.95	10.87	11.37	13.14	9.57	7.09	6.59	6.49	6.41	6.74	13.14
Min	6.38	6.31	6.57	7.15	7.51	8.51	7.11	6.58	6.47	6.33	6.28	6.30	6.28
Annual Max Momentary Gage Height	13.63		m. (MSL.) ,			at 06.00 Hours, on Sep 12, 2011							
Zero Gage at Bottom Elevation	5.40		m. (MSL.) ,			River Bed 5.62		m. (MSL)					
Left Bank Elevation	13.45		m. (MSL.) ,										
Right Bank Elevation	13.38		m. (MSL.) ,			Drainage Area 229		Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.20	2.40	4.05	25.90	113.16	42.10	38.10	11.85	4.05	2.40	2.10	1.00	
2	2.30	2.90	5.25	23.50	103.75	45.50	43.50	11.40	4.35	2.50	1.80	1.20	
3	2.20	2.50	8.10	24.50	56.75	38.50	36.30	10.95	4.20	1.90	1.80	1.00	
4	1.90	2.60	7.95	23.10	38.10	38.70	39.30	10.50	4.20	1.80	1.70	1.50	
5	2.20	2.30	6.45	17.55	30.70	57.50	43.90	9.90	4.05	2.00	1.50	1.30	
6	2.10	2.50	5.55	15.45	25.30	45.10	42.70	9.90	3.90	1.90	1.50	1.30	
7	1.80	1.40	5.55	13.80	23.70	37.90	39.30	9.45	3.75	2.40	1.40	1.10	
8	1.90	1.10	6.00	12.75	26.90	63.00	40.90	9.15	3.75	2.90	1.40	1.20	
9	1.80	1.30	6.30	16.05	30.30	69.50	33.30	9.60	3.75	1.90	1.50	2.10	
10	1.90	1.30	6.90	16.95	33.30	73.50	56.00	8.85	3.60	1.60	1.50	3.90	
11	2.00	1.20	5.70	12.90	38.10	102.62	37.90	8.55	3.30	1.60	0.80	5.55	
12	1.80	1.80	10.65	18.30	37.70	179.10	33.30	7.95	3.15	1.60	0.80	3.45	
13	1.90	1.90	27.50	21.15	29.50	126.62	60.25	7.80	3.15	1.60	0.90	2.50	
14	1.90	2.20	23.70	23.50	28.70	88.75	44.70	7.50	3.15	1.70	1.00	2.10	
15	2.20	2.00	18.45	28.50	42.10	59.25	34.50	6.75	3.00	1.50	0.90	1.70	
16	2.10	2.20	20.70	32.50	94.00	49.00	43.50	6.30	3.00	1.70	1.00	1.40	
17	2.40	2.20	49.50	21.45	81.25	42.70	41.10	6.15	3.00	1.30	0.80	1.60	
18	2.40	3.00	68.25	17.55	47.50	36.70	46.90	6.45	2.90	2.20	1.50	1.40	
19	2.50	4.50	43.50	15.90	40.10	48.50	28.70	6.30	2.90	2.50	1.80	1.60	
20	2.20	3.15	48.50	41.30	34.30	70.50	27.10	6.15	2.90	2.30	1.50	1.50	
21	2.00	3.15	36.10	101.12	29.10	70.00	21.60	5.85	3.00	2.20	1.40	1.20	
22	2.00	3.00	40.10	65.50	23.70	70.00	19.65	6.00	3.15	2.30	1.40	1.40	
23	2.10	3.15	35.10	39.90	20.25	60.75	18.60	5.55	3.00	2.40	1.10	1.30	
24	2.20	9.15	20.25	50.50	19.35	70.25	18.00	5.25	3.00	2.70	1.10	1.10	
25	2.50	9.75	16.35	35.50	18.60	63.75	16.65	5.10	2.90	2.50	1.10	6.60	
26	2.70	14.40	15.15	48.50	18.15	61.75	15.90	4.95	2.80	2.80	1.10	3.75	
27	2.20	12.60	73.00	45.70	18.90	51.75	14.10	4.80	2.70	2.40	1.10	2.40	
28	2.20	15.45	133.20	31.10	35.10	48.50	14.25	4.50	2.70	2.30	1.10	2.10	
29	2.20	15.90	54.50	58.50	116.60	44.30	15.30	4.50	2.80	1.90	0.90	2.10	
30	2.40	10.20	33.90	66.75	85.37	49.50	13.20	4.20	2.70	2.20		1.40	
31		8.25		41.90	46.10		12.15		2.70	2.40		1.00	
Total	64.20	149.45	836.20	1007.57	1386.43	1905.59							

WATER YEAR : 2011**EAST COAST - GULF BASIN****Khlong Phlo at Ban Chamkho , Rayong (Z.18)**

Lat 12 - 57 - 18 N Long 101 - 40 - 32 E

Location : on right bank at the bridge on road.

	Ban	Chamkho	Amphoe	Klaeng	Changwat	Rayong
Drainage Area	201	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+28.146	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the top staff gage.				Elevation	+35.314 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1982 to date					
Rating Operation						
Period of Rating	1983 to date					
Rated by Flot	-					
Rated by Current Meter	1983 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +33.290 m.(MSL.), records are including overbank flow.					
General Description	Records good. Flow regulated by the concrete weir about 1.5 kilometers downstream from the gage site. Stage-discharge relation defined by 37 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.00	30.57	29.52	29.42	29.67	30.12	30.77	29.16	29.40	31.34	31.00	30.92	
2	30.99	30.49	29.64	30.03	30.52	30.13	30.72	29.13	29.39	31.34	31.00	30.92	
3	30.99	30.46	29.47	31.58	29.98	30.30	30.41	29.11	29.38	31.33	31.01	30.92	
4	30.98	30.33	29.42	30.70	29.89	31.05	30.87	29.09	29.37	31.36	31.00	30.91	
5	30.98	30.10	29.40	30.19	29.68	30.51	30.50	29.07	29.36	31.33	29.00	30.91	
6	30.98	30.04	29.40	29.95	29.60	30.60	30.86	29.05	29.35	31.25	30.99	30.91	
7	30.98	30.01	29.39	29.75	29.76	30.16	31.11	29.04	29.34	31.07	31.01	30.91	
8	31.27	30.31	29.43	29.63	29.96	30.07	32.13	29.05	30.08	31.05	31.00	30.94	
9	30.74	30.29	29.52	29.57	29.78	30.03	31.36	29.06	30.48	31.03	31.00	30.94	
10	30.67	30.25	29.67	29.54	29.87	30.84	31.06	29.05	30.74	31.01	31.01	30.95	
11	30.67	30.09	29.73	29.49	30.58	34.07	30.88	29.04	31.00	31.00	31.01	30.95	
12	30.54	29.56	29.64	29.46	30.35	35.17	31.92	29.02	31.08	30.99	31.00	30.95	
13	30.59	29.35	29.53	29.50	30.29	32.06	31.54	29.01	31.39	30.99	31.01	30.94	
14	30.58	29.38	29.51	29.47	30.74	31.24	30.52	29.01	31.35	30.98	31.05	30.94	
15	30.64	29.42	29.53	29.79	31.09	30.74	30.78	28.99	31.36	30.98	30.99	30.95	
16	30.64	29.66	29.58	29.75	31.42	30.62	30.49	28.99	31.36	30.96	30.97	30.95	
17	30.62	29.55	30.00	29.79	33.30	30.48	32.27	28.95	31.36	30.95	30.95	30.94	
18	30.56	29.43	30.32	29.75	31.35	30.32	30.85	28.97	31.36	30.95	31.04	30.94	
19	30.55	29.39	29.84	29.51	30.55	30.26	30.44	28.96	31.35	31.01	31.01	31.05	
20	30.55	29.39	29.75	29.54	30.29	30.82	30.33	28.95	31.35	31.02	30.99	31.05	
21	30.52	29.33	29.65	29.71	30.28	31.85	30.18	28.94	31.35	31.02	30.97	31.14	
22	30.51	29.29	29.69	30.01	30.37	31.35	30.11	28.94	31.34	31.02	30.96	31.11	
23	30.51	29.25	31.09	30.16	29.96	31.36	30.02	28.94	31.34	31.03	30.95	30.53	
24	31.13	29.28	30.81	30.37	29.87	32.07	29.94	28.94	31.34	31.02	30.95	30.53	
25	31.07	29.55	30.67	30.20	29.80	32.02	29.90	28.93	31.34	31.01	30.94	30.50	
26	30.86	29.79	29.81	30.44	30.97	31.02	29.89	28.93	31.34	31.01	30.94	30.49	
27	30.72	29.58	29.91	30.60	30.38	32.04	30.02	28.92	31.34	31.20	30.93	30.49	
28	30.63	29.34	29.91	29.86	30.58	31.44	29.87	28.93	31.33	31.04	30.93	30.48	
29	30.43	29.32	29.89	29.77	31.55	30.66	29.82	28.92	31.32	31.02	30.93	30.47	
30	30.39	29.29	29.97	29.68	30.57	30.49	29.78	28.84	31.31	31.02		30.46	
31		29.27		29.65	30.18		29.75		31.30	31.01		30.46	
Mean	30.74	29.72	29.79	29.90	30.43	31.13	30.62	29.00	30.79	31.08	30.92	30.82	
Max	31.27	30.57	31.09	31.58	33.30	35.17	32.27	29.16	31.39	31.36	31.05	31.14	35.17
Min	30.39	29.25	29.39	29.42	29.60	30.03	29.75	28.84	29.34	30.95	29.00	30.46	28.84
Annual Max Momentary Gage Height	35.34		m. (MSL.) ,				at 12.00 Hours, on Sep 12, 2011						
Zero Gage at Bottom Elevation	28.15		m. (MSL.) ,			River Bed	27.78	m. (MSL)					
Left Bank Elevation	34.37		m. (MSL.) ,										
Right Bank Elevation	33.28		m. (MSL.) ,			Drainage Area	201	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	1.60	1.10	2.35	6.70	14.05	0.00	1.00	0.00	0.00	0.00	
2	0.00	0.00	2.20	5.80	10.70	6.80	13.30	0.00	0.95	0.00	0.00	0.00	
3	0.00	0.00	1.35	26.20	5.30	8.50	9.60	0.00	0.90	0.00	0.00	0.00	
4	0.00	0.00	1.10	13.00	4.40	18.25	15.55	0.00	0.85	0.00	0.00	0.00	
5	0.00	0.00	1.00	7.40	2.40	10.60	10.50	0.00	0.80	0.00	0.00	0.00	
6	0.00	0.00	1.00	5.00	2.00	11.50	15.40	0.00	0.75	0.00	0.00	0.00	
7	0.00	0.00	0.95	3.00	3.10	7.10	19.15	0.00	0.70	0.00	0.00	0.00	
8	0.00	0.00	1.15	2.15	5.10	6.20	37.10	0.00	6.30	0.00	0.00	0.00	
9	0.00	0.00	1.60	1.85	3.30	5.80	22.90	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	2.35	1.70	4.20	15.10	18.40	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	2.80	1.45	11.30	88.95	15.70	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	2.20	1.30	9.00	131.80	32.90	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	1.65	1.50	8.40	35.70	25.60	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.90	1.55	1.35	13.60	21.10	10.70	0.00	0.00	0.00	0.00	0.00	
15	0.00	1.10	1.65	3.40	18.85	13.60	14.20	0.00	0.00	0.00	0.00	0.00	
16	0.00	2.30	1.90	3.00	23.80	11.80	10.40	0.00	0.00	0.00	0.00	0.00	
17	0.00	1.75	5.50	3.40	65.00	10.30	39.90	0.00	0.00	0.00	0.00	0.00	
18	0.00	1.15	8.70	3.00	22.75	8.70	15.25	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.95	3.90	1.55	11.00	8.10	9.90	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.95	3.00	1.70	8.40	14.80	8.80	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.65	2.25	2.60	8.30	31.50	7.30	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.45	2.45	5.60	9.20	22.75	6.60	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.25	18.85	7.10	5.10	22.90	5.70	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.40	14.65	9.20	4.20	35.90	4.90	0.00	0.00	0.00	0.00	0.00	
25	0.00	1.75	12.55	7.50	3.50	34.90	4.50	0.00	0.00	0.00	0.00	0.00	
26	0.00	3.40	3.60	9.90	17.05	17.80	4.40	0.00	0.00	0.00	0.00	0.00	
27	0.00	1.90	4.60	11.50	9.30	35.30	5.70	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.70	4.60	4.10	11.30	24.10	4.20	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.60	4.40	3.20	25.75	12.40	3.70	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.45	5.20	2.40	11.20	10.40	3.30	0.00	0.00	0.00		0.00	
31		0.35		2.25	7.30		3.00		0.00	0.00		0.00	
Total	0.00	20.00	120.30	154.20	347.15	689.35	412.60	0.00	12.25	0.00	0.00	0.00	1755.85
Mean	0.00	0.65	4.01										

WATER YEAR : 2011
EAST COAST - GULF BASIN

Khlong Hin Dat at Ban Pong Rong Sen , Chanthaburi (Z.21)

Lat 12 - 47 - 15 N Long 102 - 15 - 33 E

Location : on left bank at the bridge on highway.

	Ban	Pong Rong Sen	Amphoe	Makham	Changwat	Chanthaburi
Drainage Area	78	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+21.200	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 40 meters from the top staff gage.				Elevation	+27.671 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
Rated by Current Meter	1984 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 30 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.97	21.94	21.84	22.36	23.90	23.05	22.99	22.15	21.88	21.97	21.86	21.97	
2	21.97	21.86	21.88	22.32	23.29	23.06	23.08	22.14	21.88	21.96	21.85	22.00	
3	21.98	21.84	21.96	22.33	22.80	22.97	22.86	22.12	21.87	21.98	21.85	22.01	
4	21.98	21.83	21.88	22.26	22.66	22.97	22.99	22.12	21.87	21.99	21.85	22.03	
5	22.02	21.83	21.86	22.18	22.52	23.22	22.95	22.11	21.87	21.97	21.85	22.05	
6	22.00	21.87	21.84	22.13	22.44	23.00	22.91	22.11	21.87	22.01	21.85	21.93	
7	22.00	21.89	21.82	22.09	22.59	22.89	22.86	22.09	21.86	22.26	21.84	22.01	
8	22.00	21.90	21.84	22.09	22.58	23.67	23.01	22.05	21.86	22.01	21.84	22.08	
9	22.00	21.90	21.91	22.22	22.58	23.79	22.84	22.08	21.85	22.01	21.84	22.14	
10	22.00	22.12	21.93	22.19	22.78	23.58	23.33	22.05	21.84	21.92	21.84	22.19	
11	21.99	22.01	21.97	22.11	22.84	24.66	22.92	22.03	21.84	21.89	21.81	22.19	
12	21.97	22.01	22.24	22.26	22.74	24.40	22.85	22.00	21.82	21.89	21.83	22.09	
13	21.99	21.97	22.89	22.36	22.53	23.72	23.24	22.00	21.79	21.89	21.83	22.09	
14	22.00	21.93	22.26	22.37	22.63	23.39	22.90	21.99	21.81	21.87	21.83	22.08	
15	22.00	22.03	22.31	22.40	23.36	23.19	22.64	21.98	21.80	21.87	21.83	22.06	
16	21.99	22.01	22.47	22.40	23.30	23.00	22.77	21.97	21.80	21.84	21.83	22.07	
17	21.98	21.91	23.18	22.28	23.34	22.99	22.89	21.97	21.80	21.85	21.83	22.06	
18	21.98	22.28	22.97	22.19	22.86	22.92	22.72	21.96	21.79	21.94	21.89	22.03	
19	21.97	22.03	22.81	22.15	22.76	23.09	22.54	21.95	21.79	21.86	21.86	22.05	
20	21.97	21.97	22.76	23.09	22.63	23.75	22.53	21.95	21.79	21.89	21.88	22.07	
21	21.96	21.93	22.49	23.78	22.56	23.26	22.44	21.95	21.79	21.89	21.86	22.06	
22	21.97	21.96	22.68	22.92	22.49	23.53	22.40	21.95	21.91	21.88	21.86	22.02	
23	21.99	21.95	22.45	22.74	22.44	23.39	22.37	21.94	21.79	21.90	21.83	22.03	
24	22.02	21.90	22.25	22.64	22.42	23.49	22.37	21.93	21.77	21.93	21.83	22.09	
25	22.02	21.99	22.15	22.57	22.40	23.33	22.35	21.91	21.75	21.88	21.83	22.23	
26	22.05	21.99	22.12	23.21	22.40	23.22	22.27	21.91	21.73	21.87	21.88	22.13	
27	22.12	21.94	23.55	22.72	22.83	23.15	22.18	21.91	21.73	21.86	21.72	22.09	
28	22.04	21.93	24.13	22.57	22.70	23.14	22.28	21.91	21.72	21.85	21.71	22.10	
29	22.07	21.93	22.84	23.20	23.84	23.09	22.22	21.91	21.73	21.79	21.71	22.09	
30	22.11	21.99	22.44	23.19	23.56	23.18	22.19	21.90	21.72	21.86		22.08	
31		21.96		22.68	23.11		22.21		21.71	21.87		22.10	
Mean	22.00	21.95	22.39	22.52	22.83	23.34	22.68	22.00	21.81	21.92	21.83	22.07	
Max	22.12	22.28	24.13	23.78	23.90	24.66	23.33	22.15	21.91	22.26	21.89	22.23	24.66
Min	21.96	21.83	21.82	22.09	22.40	22.89	22.18	21.90	21.71	21.79	21.71	21.93	21.71
Annual Max Momentary Gage Height	25.87		m. (MSL.) ,			at 20.00 Hours, on Sep 11, 2011							
Zero Gage at Bottom Elevation	21.20		m. (MSL.) ,		River Bed	20.70	m. (MSL)						
Left Bank Elevation	29.69		m. (MSL.) ,										
Right Bank Elevation	29.67		m. (MSL.) ,		Drainage Area	78	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.02	2.80	2.00	6.40	37.50	17.50	16.30	4.38	2.33	3.02	2.17	3.02		
2	3.02	2.17	2.33	5.80	22.30	17.70	18.10	4.30	2.33	2.95	2.08	3.25		
3	3.10	2.00	2.95	5.95	13.00	15.90	13.90	4.15	2.25	3.10	2.08	3.33		
4	3.10	1.92	2.33	5.20	10.90	15.90	16.30	4.15	2.25	3.18	2.08	3.48		
5	3.40	1.92	2.17	4.60	8.80	20.90	15.50	4.08	2.25	3.02	2.08	3.62		
6	3.25	2.25	2.00	4.22	7.60	16.50	14.70	4.08	2.25	3.33	2.08	2.73		
7	3.25	2.42	1.83	3.93	9.85	14.35	13.90	3.93	2.17	5.20	2.00	3.33		
8	3.25	2.50	2.00	3.93	9.70	31.75	16.70	3.62	2.17	3.33	2.00	3.85		
9	3.25	2.50	2.58	4.90	9.70	34.75	13.60	3.85	2.08	3.33	2.00	4.30		
10	3.25	4.15	2.73	4.68	12.70	29.50	23.25	3.62	2.00	2.65	2.00	4.68		
11	3.18	3.33	3.02	4.08	13.60	59.80	14.90	3.48	2.00	2.42	1.75	4.68		
12	3.02	3.33	5.05	5.20	12.10	52.00	13.75	3.25	1.83	2.42	1.92	3.93		
13	3.18	3.02	14.35	6.40	8.95	33.00	21.30	3.25	1.58	2.42	1.92	3.93		
14	3.25	2.73	5.20	6.55	10.45	24.75	14.50	3.18	1.75	2.25	1.92	3.85		
15	3.25	3.48	5.65	7.00	24.00	20.30	10.60	3.10	1.67	2.25	1.92	3.70		
16	3.18	3.33	8.05	7.00	22.50	16.50	12.55	3.02	1.67	2.00	1.92	3.78		
17	3.10	2.58	20.10	5.35	23.50	16.30	14.35	3.02	1.67	2.08	1.92	3.70		
18	3.10	5.35	15.90	4.68	13.90	14.90	11.80	2.95	1.58	2.80	2.42	3.48		
19	3.02	3.48	13.15	4.38	12.40	18.30	9.10	2.88	1.58	2.17	2.17	3.62		
20	3.02	3.02	12.40	18.30	10.45	33.75	8.95	2.88	1.58	2.42	2.33	3.78		
21	2.95	2.73	8.35	34.50	9.40	21.70	7.60	2.88	1.58	2.42	2.17	3.70		
22	3.02	2.95	11.20	14.90	8.35	28.25	7.00	2.88	2.58	2.33	2.17	3.40		
23	3.18	2.88	7.75	12.10	7.60	24.75	6.55	2.80	1.58	2.50	1.92	3.48		
24	3.40	2.50	5.13	10.60	7.30	27.25	6.55	2.73	1.42	2.73	1.92	3.93		
25	3.40	3.18	4.38	9.55	7.00	23.25	6.25	2.58	1.25	2.33	1.92	4.98		
26	3.62	3.18	4.15	20.70	7.00	20.90	5.28	2.58	1.08	2.25	2.33	4.22		
27	4.15	2.80	28.75	11.80	13.45	19.50	4.60	2.58	1.08	2.17	1.00	3.93		
28	3.55	2.73	43.90	9.55	11.50	19.30	5.35	2.58	1.00	2.08	0.92	4.00		
29	3.78	2.73	13.60	20.50	36.00	18.30	4.90	2.58	1.08	1.58	0.92	3.93		
30	4.08	3.18	7.60	20.30	29.00	20.10	4.68	2.50	1.00	2.17		3.85		
31		2.95		11.20	18.70		4.82		0.92	2.25		4.00		
Total	98.32	90.09	260.60	294.25	449.20	727.65	357.63	97.86	53.56	81.15	56.03	117.46	2683.80	C

WATER YEAR : 2011**EAST COAST - GULF BASIN****Upper Khlong Tanot at Ban Khun Song , Chanthaburi (Z.28)**

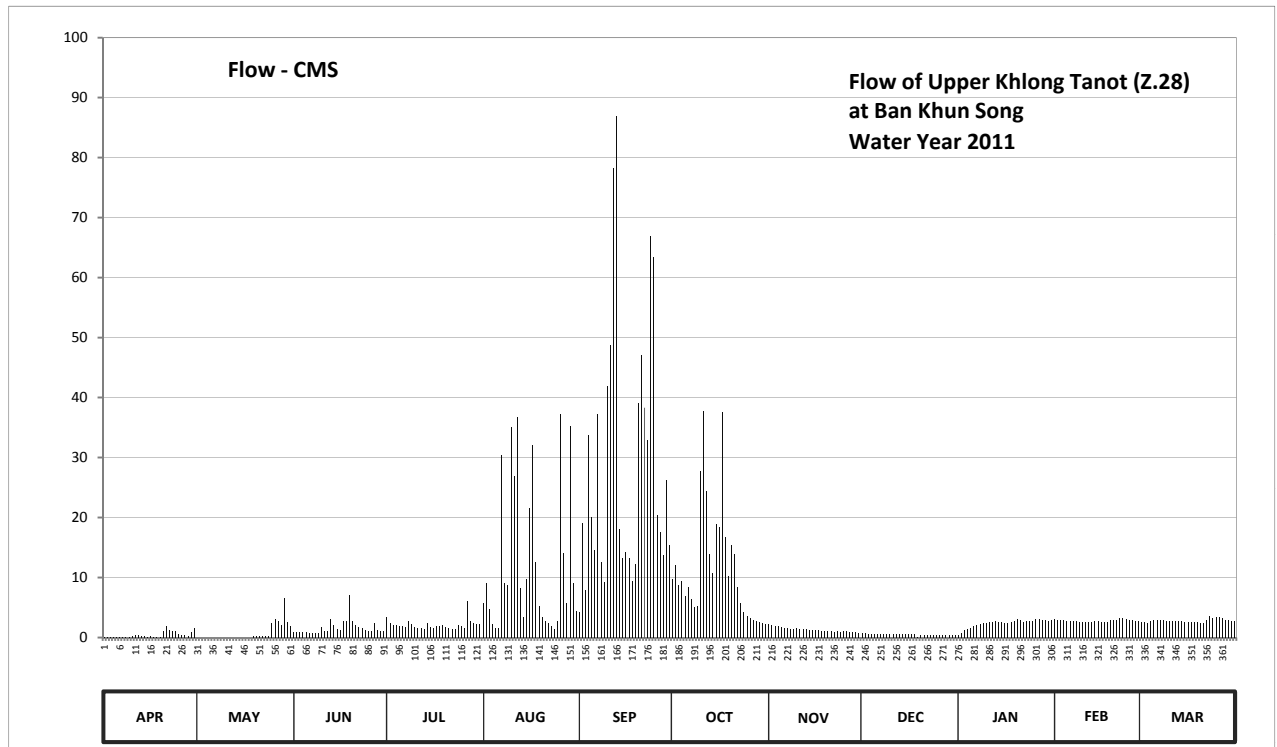
Lat 13 - 04 - 31 N Long 101 - 56 - 55 E

Location : on right bank near Wat Khun Song.

	Ban	Khun Song	Amphoe	Kaeng Hang Maeo	Changwat	Chanthaburi
Drainage Area	280	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+32.600	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 10 meters from the top staff gage.				Elevation	+40.318 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1986 to date					
Rating Operation						
Period of Rating	1986 to date					
Rated by Flot	-					
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 22 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.23	33.11	33.39	33.87	34.18	34.02	34.57	33.64	33.36	33.28	33.81	33.72	
2	33.23	33.17	33.38	33.67	34.50	35.44	34.81	33.61	33.35	33.33	33.79	33.70	
3	33.22	33.17	33.37	33.62	34.08	34.39	34.48	33.59	33.32	33.44	33.78	33.69	
4	33.21	33.17	33.37	33.60	33.64	36.41	34.54	33.57	33.30	33.47	33.77	33.75	
5	33.21	33.16	33.37	33.59	33.52	35.51	34.29	33.55	33.31	33.51	33.76	33.79	
6	33.22	33.16	33.35	33.57	33.52	35.05	34.44	33.53	33.30	33.58	33.76	33.78	
7	33.21	33.15	33.36	33.56	36.19	36.65	34.24	33.51	33.30	33.63	33.75	33.79	
8	33.21	33.15	33.36	33.74	34.50	34.85	34.11	33.50	33.30	33.65	33.73	33.78	
9	33.21	33.15	33.36	33.64	34.48	34.52	34.12	33.50	33.30	33.67	33.72	33.75	
10	33.25	33.13	33.54	33.56	36.50	36.96	36.02	33.51	33.32	33.69	33.72	33.74	
11	33.27	33.13	33.43	33.53	35.96	37.42	36.68	33.50	33.32	33.70	33.72	33.74	
12	33.27	33.12	33.41	33.52	36.61	39.38	35.79	33.49	33.32	33.71	33.72	33.74	
13	33.26	33.12	33.82	33.50	34.42	39.96	34.99	33.48	33.32	33.73	33.72	33.73	
14	33.25	33.12	33.63	33.69	33.87	35.37	34.68	33.46	33.31	33.72	33.73	33.73	
15	33.23	33.11	33.48	33.56	34.58	34.92	35.43	33.46	33.31	33.70	33.73	33.72	
16	33.24	33.11	33.46	33.52	35.61	35.03	35.39	33.45	33.31	33.69	33.72	33.72	
17	33.22	33.11	33.73	33.57	36.30	34.93	36.67	33.45	33.31	33.69	33.72	33.71	
18	33.22	33.11	33.76	33.57	34.86	34.54	35.27	33.41	33.31	33.70	33.72	33.70	
19	33.22	33.25	34.30	33.60	34.12	34.82	34.62	33.42	33.21	33.75	33.77	33.70	
20	33.40	33.25	33.75	33.55	33.87	36.77	35.14	33.41	33.29	33.80	33.77	33.69	
21	33.57	33.24	33.61	33.52	33.75	37.30	34.99	33.40	33.29	33.77	33.78	33.68	
22	33.44	33.24	33.54	33.49	33.69	36.72	34.44	33.39	33.28	33.71	33.84	33.77	
23	33.41	33.24	33.51	33.48	33.57	36.36	34.18	33.40	33.29	33.75	33.84	33.91	
24	33.41	33.24	33.46	33.63	33.50	38.63	34.02	33.39	33.29	33.74	33.83	33.85	
25	33.32	33.67	33.43	33.58	33.73	38.39	33.92	33.40	33.28	33.76	33.79	33.87	
26	33.29	33.81	33.42	33.53	36.65	35.53	33.84	33.40	33.28	33.82	33.77	33.88	
27	33.28	33.75	33.67	34.21	35.01	35.34	33.78	33.39	33.28	33.81	33.76	33.85	
28	33.26	33.60	33.45	33.73	34.17	34.98	33.74	33.38	33.28	33.79	33.75	33.79	
29	33.38	34.25	33.43	33.67	36.52	35.92	33.70	33.38	33.28	33.77	33.73	33.78	
30	33.51	33.72	33.41	33.66	34.50	35.14	33.68	33.35	33.29	33.76		33.76	
31		33.58		33.66	34.04		33.64		33.29	33.79		33.75	
Mean	33.29	33.30	33.52	33.62	34.66	36.04	34.65	33.46	33.30	33.67	33.76	33.76	
Max	33.57	34.25	34.30	34.21	36.65	39.96	36.68	33.64	33.36	33.82	33.84	33.91	39.96
Min	33.21	33.11	33.35	33.48	33.50	34.02	33.64	33.35	33.21	33.28	33.72	33.68	33.11
Annual Max Momentary Gage Height	40.82		m. (MSL.) ,			at 03.00 Hours, on Sep 13, 2011							
Zero Gage at Bottom Elevation	32.60		m. (MSL.) ,		River Bed	32.43	m. (MSL)						
Left Bank Elevation	41.03		m. (MSL.) ,										
Right Bank Elevation	41.07		m. (MSL.) ,		Drainage Area	280	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.15	0.00	0.95	3.35	5.80	4.20	9.70	2.20	0.80	0.40	3.05	2.60		
2	0.15	0.00	0.90	2.35	9.00	19.10	12.10	2.05	0.75	0.65	2.95	2.50		
3	0.10	0.00	0.85	2.10	4.80	7.90	8.80	1.95	0.60	1.20	2.90	2.45		
4	0.05	0.00	0.85	2.00	2.20	33.65	9.40	1.85	0.50	1.35	2.85	2.75		
5	0.05	0.00	0.85	1.95	1.60	20.15	6.90	1.75	0.55	1.55	2.80	2.95		
6	0.10	0.00	0.75	1.85	1.60	14.50	8.40	1.65	0.50	1.90	2.80	2.90		
7	0.05	0.00	0.80	1.80	30.35	37.25	6.40	1.55	0.50	2.15	2.75	2.95		
8	0.05	0.00	0.80	2.70	9.00	12.50	5.10	1.50	0.50	2.25	2.65	2.90		
9	0.05	0.00	0.80	2.20	8.80	9.20	5.20	1.50	0.50	2.35	2.60	2.75		
10	0.25	0.00	1.70	1.80	35.00	41.90	27.80	1.55	0.60	2.45	2.60	2.70		
11	0.35	0.00	1.15	1.65	26.90	48.80	37.70	1.50	0.60	2.50	2.60	2.70		
12	0.35	0.00	1.05	1.60	36.65	78.20	24.35	1.45	0.60	2.55	2.60	2.70		
13	0.30	0.00	3.10	1.50	8.20	86.90	13.90	1.40	0.60	2.65	2.60	2.65		
14	0.25	0.00	2.15	2.45	3.35	18.05	10.80	1.30	0.55	2.60	2.65	2.65		
15	0.15	0.00	1.40	1.80	9.80	13.20	18.95	1.30	0.55	2.50	2.65	2.60		
16	0.20	0.00	1.30	1.60	21.65	14.30	18.35	1.25	0.55	2.45	2.60	2.60		
17	0.10	0.00	2.65	1.85	32.00	13.30	37.55	1.25	0.55	2.45	2.60	2.55		
18	0.10	0.00	2.80	1.85	12.60	9.40	16.70	1.05	0.55	2.50	2.60	2.50		
19	0.10	0.25	7.00	2.00	5.20	12.20	10.20	1.10	0.05	2.75	2.85	2.50		
20	1.00	0.25	2.75	1.75	3.35	39.05	15.40	1.05	0.45	3.00	2.85	2.45		
21	1.85	0.20	2.05	1.60	2.75	47.00	13.90	1.00	0.45	2.85	2.90	2.40		
22	1.20	0.20	1.70	1.45	2.45	38.30	8.40	0.95	0.40	2.55	3.20	2.85		
23	1.05	0.20	1.55	1.40	1.85	32.90	5.80	1.00	0.45	2.75	3.20	3.55		
24	1.05	0.20	1.30	2.15	1.50	66.95	4.20	0.95	0.45	2.70	3.15	3.25		
25	0.60	2.35	1.15	1.90	2.65	63.35	3.60	1.00	0.40	2.80	2.95	3.35		
26	0.45	3.05	1.10	1.65	37.25	20.45	3.20	1.00	0.40	3.10	2.85	3.40		
27	0.40	2.75	2.35	6.10	14.10	17.60	2.90	0.95	0.40	3.05	2.80	3.25		
28	0.30	2.00	1.25	2.65	5.70	13.80	2.70	0.90	0.40	2.95	2.75	2.95		
29	0.90	6.50	1.15	2.35	35.30	26.30	2.50	0.90	0.40	2.85	2.65	2.90		
30	1.55	2.60	1.05	2.30	9.00	15.40	2.40	0.75	0.45	2.80		2.80		
31		1.90		2.30	4.40		2.20		0.45	2.95		2.75		
Total	13.25	22.45	49.25	66.00	384.80	875.80	355.50	39.60	15.50	73.55	81.00	86.80	2063.50	CMSDAY
Mean	0.44	0.72	1.64	2.13	12.41	29.19	11.47	1.32	0.50	2.37	2.79	2.80	5.64	CMS
Max	1.85	6.50	7.00	6.10	37.25	86.90	37.70	2.20	0.80	3.10	3.20	3.55	86.90	CMS
Min	0.05	0.00	0.75	1.40	1.50	4.20	2.20	0.75	0.05	0.40	2.60	2.40	0.00	CMS
Runoff	1.15	1.94	4.26	5.70	3.25	75.67	30.72	3.42	1.34	6.36	7.00	7.50	178.29	MCM
Momentary Peak	20.14	105.60	CMS, at 40.82 m. (MSL), at 03.00 Hours, on Sep 13, 2011											
Runoff Yield	20.14		Liters/Second/Square KM.		Momentary Peak Yield	377.143		Liters/Second/Square KM.						

WATER YEAR : 2011**EAST COAST - GULF BASIN****Khlong Sato at Ban Nong Bua , Trat (Z.30)**

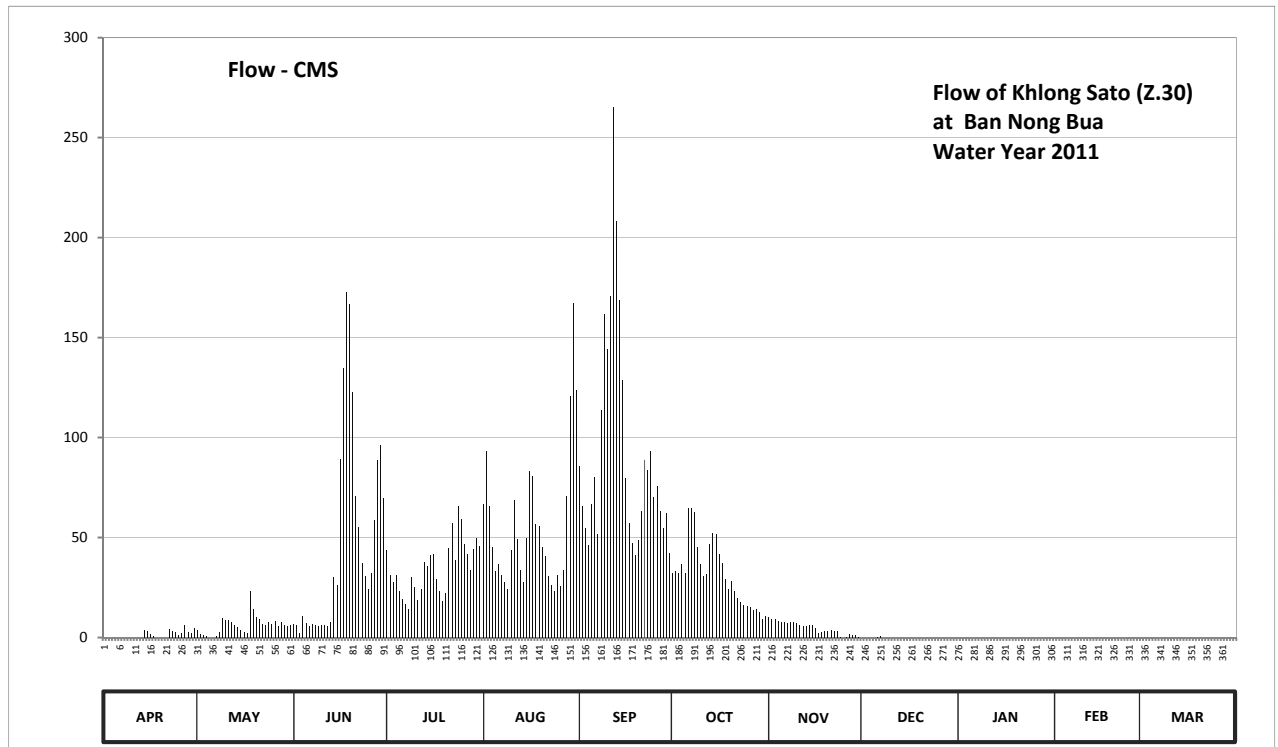
Lat 12 - 32 - 22 N Long 102 - 26 - 58 E

Location : on right bank at Ban Nong Bua.

	Ban	Nong Bua	Amphoe	Khao Saming	Changwat	Trat
Drainage Area	316	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+9.200	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank next tall pole for electric cable near dwelling.				Elevation	+18.683 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.64	10.95	11.28	13.79	14.93	15.86	13.21	11.64	10.58	12.84	12.62	12.80	
2	12.60	10.78	11.20	13.14	16.10	14.88	13.26	11.52	10.56	12.83	12.67	12.78	
3	12.57	10.73	10.84	12.91	14.89	14.33	13.21	11.50	10.57	12.82	12.90	12.78	
4	12.80	10.69	11.67	13.16	13.86	13.90	13.43	11.43	10.48	12.82	13.21	12.77	
5	13.15	10.58	11.33	12.63	13.27	14.95	13.21	11.39	10.44	12.82	13.23	12.75	
6	13.17	10.58	11.17	12.35	13.44	15.60	14.84	11.37	10.63	12.81	13.03	12.74	
7	13.17	10.65	11.28	12.17	13.16	14.19	14.83	11.31	10.69	12.80	12.87	12.68	
8	13.33	10.88	11.23	12.03	12.91	16.79	14.73	11.37	10.56	12.79	12.83	13.09	
9	13.80	11.55	11.19	13.07	12.70	18.21	13.86	11.37	10.47	12.75	12.87	13.34	
10	13.87	11.47	11.23	12.76	13.79	17.81	13.44	11.33	10.43	12.73	12.93	13.42	
11	13.30	11.48	11.22	12.32	15.05	18.39	13.12	11.22	10.44	12.71	12.93	13.51	
12	10.95	11.35	11.18	12.69	14.07	19.53	13.17	11.19	10.44	12.69	12.85	13.43	
13	10.73	11.22	11.37	13.48	13.28	18.99	13.94	11.15	10.13	12.68	12.80	13.23	
14	10.96	11.13	13.10	13.38	12.90	18.35	14.20	11.20	10.02	12.67	12.77	13.02	
15	10.91	10.97	12.81	13.67	14.08	17.29	14.19	11.22	10.31	12.66	12.70	13.01	
16	10.75	10.88	15.98	13.68	15.76	15.59	13.68	11.07	10.43	12.66	12.66	13.10	
17	10.66	10.85	17.49	13.03	15.64	14.47	13.45	10.85	10.54	12.68	12.78	13.06	
18	10.56	12.62	18.43	12.60	14.43	13.97	13.03	10.86	11.39	12.74	13.16	13.41	
19	10.44	12.02	18.31	12.30	14.38	13.66	12.70	10.93	12.24	12.81	13.63	13.45	
20	10.40	11.60	17.09	12.54	13.87	14.03	12.95	10.91	12.64	13.00	13.56	13.29	
21	10.44	11.51	15.14	13.85	13.64	14.76	12.63	10.95	12.86	13.11	13.30	13.11	
22	11.02	11.29	14.37	14.47	13.13	15.96	12.39	10.93	12.90	13.08	13.08	12.97	
23	10.93	11.20	13.46	13.53	12.80	15.78	12.25	10.92	12.90	13.02	12.95	12.88	
24	10.86	11.36	13.11	14.88	12.63	16.11	12.14	10.63	12.96	13.10	12.99	12.83	
25	10.72	11.27	12.67	14.57	13.16	15.12	12.12	10.54	12.93	13.19	12.98	13.16	
26	10.82	11.41	13.20	13.94	12.79	15.39	12.07	10.63	12.90	13.18	12.98	13.37	
27	11.23	11.15	14.53	13.69	13.29	14.76	11.95	10.76	12.89	13.18	12.95	13.28	
28	10.86	11.36	15.96	13.29	15.15	14.35	12.00	10.74	12.87	13.43	12.92	13.15	
29	10.82	11.25	16.20	13.80	17.03	14.71	11.88	10.71	12.87	13.44	12.86	13.00	
30	11.07	11.17	15.08	14.09	18.32	13.70	11.52	10.62	12.86	12.92		12.77	
31		11.24		13.88	17.12		11.68		12.84	12.69		12.69	
Mean	11.65	11.20	13.44	13.28	14.24	15.71	13.07	11.08	11.48	12.89	12.97	13.06	
Max	13.87	12.62	18.43	14.88	18.32	19.53	14.84	11.64	12.96	13.44	13.63	13.51	19.53
Min	10.40	10.58	10.84	12.03	12.63	13.66	11.52	10.54	10.02	12.66	12.62	12.68	10.02
Annual Max Momentary Gage Height	19.64		m. (MSL.) ,		at 12.00 Hours, on Sep 12, 2011								
Zero Gage at Bottom Elevation	9.20		m. (MSL.) ,		River Bed	9.06	m. (MSL)						
Left Bank Elevation		20.49		m. (MSL.) ,									
Right Bank Elevation		20.53		m. (MSL.) ,		Drainage Area	316	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	3.50	6.80	43.80	66.60	85.80	32.20	10.40	0.00	0.00	0.00	0.00	
2	0.00	1.80	6.00	31.10	93.00	65.60	33.20	9.20	0.00	0.00	0.00	0.00	
3	0.00	1.30	2.40	27.65	65.80	54.60	32.20	9.00	0.00	0.00	0.00	0.00	
4	0.00	0.90	10.70	31.40	45.20	46.00	36.60	8.30	0.00	0.00	0.00	0.00	
5	0.00	0.00	7.30	23.45	33.40	67.00	32.20	7.90	0.00	0.00	0.00	0.00	
6	0.00	0.00	5.70	19.25	36.80	80.00	64.80	7.70	0.30	0.00	0.00	0.00	
7	0.00	0.50	6.80	16.55	31.40	51.80	64.60	7.10	0.90	0.00	0.00	0.00	
8	0.00	2.80	6.30	14.45	27.65	113.70	62.60	7.70	0.00	0.00	0.00	0.00	
9	0.00	9.50	5.90	30.05	24.50	161.50	45.20	7.70	0.00	0.00	0.00	0.00	
10	0.00	8.70	6.30	25.40	43.80	144.40	36.80	7.30	0.00	0.00	0.00	0.00	
11	0.00	8.80	6.20	18.80	69.00	170.50	30.80	6.20	0.00	0.00	0.00	0.00	
12	0.00	7.50	5.80	24.35	49.40	265.20	31.55	5.90	0.00	0.00	0.00	0.00	
13	0.00	6.20	7.70	37.60	33.60	208.20	46.80	5.50	0.00	0.00	0.00	0.00	
14	3.60	5.30	30.50	35.60	27.50	168.50	52.00	6.00	0.00	0.00	0.00	0.00	
15	3.10	3.70	26.15	41.40	49.60	128.70	51.80	6.20	0.00	0.00	0.00	0.00	
16	1.50	2.80	89.40	41.60	83.20	79.80	41.60	4.70	0.00	0.00	0.00	0.00	
17	0.60	2.50	134.70	29.45	80.80	57.40	37.00	2.50	0.00	0.00	0.00	0.00	
18	0.00	23.30	172.50	23.00	56.60	47.40	29.45	2.60	0.00	0.00	0.00	0.00	
19	0.00	14.30	166.50	18.50	55.60	41.20	24.50	3.30	0.00	0.00	0.00	0.00	
20	0.00	10.00	122.70	22.10	45.40	48.60	28.25	3.10	0.00	0.00	0.00	0.00	
21	0.00	9.10	70.80	45.00	40.80	63.20	23.45	3.50	0.00	0.00	0.00	0.00	
22	4.20	6.90	55.40	57.40	30.95	88.80	19.85	3.30	0.00	0.00	0.00	0.00	
23	3.30	6.00	37.20	38.60	26.00	83.60	17.75	3.20	0.00	0.00	0.00	0.00	
24	2.60	7.60	30.65	65.60	23.45	93.30	16.10	0.30	0.00	0.00	0.00	0.00	
25	1.20	6.70	24.05	59.40	31.40	70.40	15.80	0.00	0.00	0.00	0.00	0.00	
26	2.20	8.10	32.00	46.80	25.85	75.80	15.05	0.30	0.00	0.00	0.00	0.00	
27	6.30	5.50	58.60	41.80	33.80	63.20	13.50	1.60	0.00	0.00	0.00	0.00	
28	2.60	7.60	88.80	33.80	71.00	55.00	14.00	1.40	0.00	0.00	0.00	0.00	
29	2.20	6.50	96.00	44.00	120.90	62.20	12.80	1.10	0.00	0.00	0.00	0.00	
30	4.70	5.70	69.60	49.80	167.00	42.00	9.20	0.20	0.00	0.00		0.00	
31		6.40		45.60	123.60		10.80		0.00	0.00		0.00	
Total	38.10	189.50	1389.45	1083.30	1713.60	2783.40	982.45	143.20	1.20	0.00	0.00	0.00	8324.20 CMSDAY
Mean	1.27	6.11	46.32	34.95	55.28	92.78	31.69	4.77	0.04	0.00	0.00	0.00	22.74 CMS
Max	6.30	23.30	172.50	65.60	167.00	265.20	64.80	10.40	0.90	0.00	0.00	0.00	265.20 CMS
Min	0.00	0.00	2.40	14.45	23.45	41.20	9.20	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	3.29	16.37	120.05	93.60	148.06	240.49	84.88	12.37	0.10	0.00	0.00	0.00	719.21 MCM
Momentary Peak CMS, at 19.64 m. (MSL), at 12.00 Hours, on Sep 12, 2011													
Runoff Yield	71.97	Liters/Second/Square KM.			Momentary Peak Yield			890.506	Liters/Second/Square KM.				

WATER YEAR : 2011

EAST COAST - GULF BASIN

Khlong Thapma at Ban Thapma , Rayong (Z.38)

Lat 12 - 44 - 09 N Long 101 - 13 - 54 E

Location : on left bank at Ban Thapma.

	Ban	Thapma	Amphoe	Mueang	Changwat	Rayong
Drainage Area	150	sq.km.				
Type of Gage	Water	- stage recorder.				
Zero Gage at Bottom	+8.100	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank next tall pole for eletric cable near dwelling.				Elevation	+12.749 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011

EAST COAST - GULF BASIN

Khlong Hin Phloeng at Ban Hin Phloeng , Chanthaburi (Z.43)

Lat 12 - 57 - 04 N Long 101 - 47 - 59 E

Location : on right bank at the bridge on highway.

	Ban	Hin Phloeng	Amphoe	Kaeng Hang Maeo	Changwat	Chanthaburi
Drainage Area	4	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+45.094	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 20 meters from the top staff gage.				Elevation	+48.611 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011**EAST COAST - GULF BASIN****Khlong Aeng at Ban Nong Bon , Trat (Z.45)**

Lat 12 - 36 - 58 N Long 102 - 28 - 42 E

Location : on right bank near the highway bridge, Tambon Nong Bon.

	Ban	Nong Bon	Amphoe	Bo Rai	Changwat	Trat
Drainage Area	58	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+30.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 15 meters from the top staff gage.				Elevation	+36.550 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	1999 to date					
Rated by Flot	-					
Rated by Current Meter	1999 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.78	31.04	31.02	31.83	32.30	31.94	31.39	31.23	31.18	30.86	30.84	30.87	
2	30.79	31.01	31.03	31.70	32.15	31.92	31.46	31.22	31.16	30.86	30.83	30.85	
3	30.82	30.98	31.08	31.64	31.89	31.85	31.73	31.21	31.14	30.85	30.85	30.83	
4	30.84	30.98	31.13	31.58	31.78	32.25	31.68	31.20	31.08	30.86	30.86	30.82	
5	30.78	31.03	31.05	31.49	31.69	32.16	31.54	31.18	31.10	30.85	30.83	30.85	
6	30.71	31.00	31.04	31.44	31.72	32.30	31.75	31.17	31.11	30.85	30.83	30.81	
7	30.78	31.00	31.14	31.41	31.82	32.12	31.59	31.17	31.12	30.84	30.82	30.86	
8	30.84	31.09	31.11	31.38	31.74	32.40	31.59	31.26	31.13	30.84	30.82	30.93	
9	30.84	31.21	31.12	31.48	31.65	31.95	31.49	31.18	31.07	30.83	30.82	30.88	
10	30.82	31.30	31.14	31.42	31.83	32.36	31.44	31.15	31.10	30.83	30.85	30.98	
11	30.84	31.18	31.10	31.37	31.71	33.34	31.55	31.14	31.11	30.83	30.83	30.88	
12	30.83	31.13	31.10	31.52	31.61	32.59	31.62	31.13	31.13	30.82	30.82	30.83	
13	30.71	31.13	31.35	31.72	31.69	32.70	31.62	31.12	31.08	30.82	30.81	30.86	
14	30.71	31.10	31.49	31.79	31.76	32.31	31.65	31.11	31.07	30.81	30.81	30.83	
15	30.77	31.06	31.43	31.91	31.70	32.07	31.57	31.10	31.07	30.81	30.80	30.85	
16	30.72	31.04	31.88	31.75	31.77	31.90	31.55	31.09	31.08	30.81	30.81	30.87	
17	30.63	31.03	32.59	31.66	31.69	31.82	31.52	31.08	31.08	30.83	30.82	30.85	
18	30.70	31.55	32.65	31.55	31.97	31.75	31.46	31.07	31.04	30.87	30.93	30.82	
19	30.66	30.82	32.43	31.50	32.29	32.06	31.42	31.11	31.05	30.84	30.87	30.76	
20	30.72	30.88	31.89	31.57	31.76	31.87	31.54	31.07	31.08	30.97	30.83	30.75	
21	30.69	30.84	31.79	31.83	31.69	31.83	31.40	31.08	31.06	30.93	30.82	30.82	
22	30.90	30.81	31.62	31.79	31.63	32.33	31.37	31.12	31.04	30.93	30.81	30.82	
23	30.98	30.97	31.62	31.81	31.54	32.51	31.35	31.13	30.89	30.91	30.83	30.83	
24	30.94	31.56	31.52	31.95	31.65	32.41	31.33	31.09	30.76	31.03	30.88	30.83	
25	30.91	31.57	31.40	31.76	31.55	31.68	31.34	31.08	30.87	30.90	30.89	30.84	
26	31.07	31.54	31.50	31.71	31.74	31.51	31.31	31.10	30.85	30.90	30.95	30.76	
27	31.12	31.45	33.28	31.81	31.85	31.81	31.29	31.08	30.76	30.88	30.87	30.75	
28	31.04	31.09	32.90	31.70	31.89	31.79	31.34	31.10	30.76	30.86	30.88	30.83	
29	31.23	31.09	32.52	31.86	32.57	31.48	31.28	31.17	30.80	30.85	30.85	30.82	
30	31.19	31.09	31.97	31.81	32.19	31.58	31.26	31.01	30.85	30.85		30.83	
31		31.04		31.76	31.93		31.25		30.88	30.85		30.84	
Mean	30.85	31.12	31.63	31.66	31.83	32.09	31.47	31.13	31.02	30.86	30.84	30.84	
Max	31.23	31.57	33.28	31.95	32.57	33.34	31.75	31.26	31.18	31.03	30.95	30.98	33.34
Min	30.63	30.81	31.02	31.37	31.54	31.48	31.25	31.01	30.76	30.81	30.80	30.75	30.63
Annual Max Momentary Gage Height	34.49		m. (MSL.) ,		at 06.00 Hours, on Jun 27, 2011								
Zero Gage at Bottom Elevation	30.00		m. (MSL.) ,		River Bed	30.01		m. (MSL)					
Left Bank Elevation		35.30		m. (MSL.) ,									
Right Bank Elevation		35.32		m. (MSL.) ,		Drainage Area	58		Square Kilometers				

WATER YEAR : 2011**EAST COAST - GULF BASIN****Khlong Sano at Ban Nonthee , Trat (Z.46)**

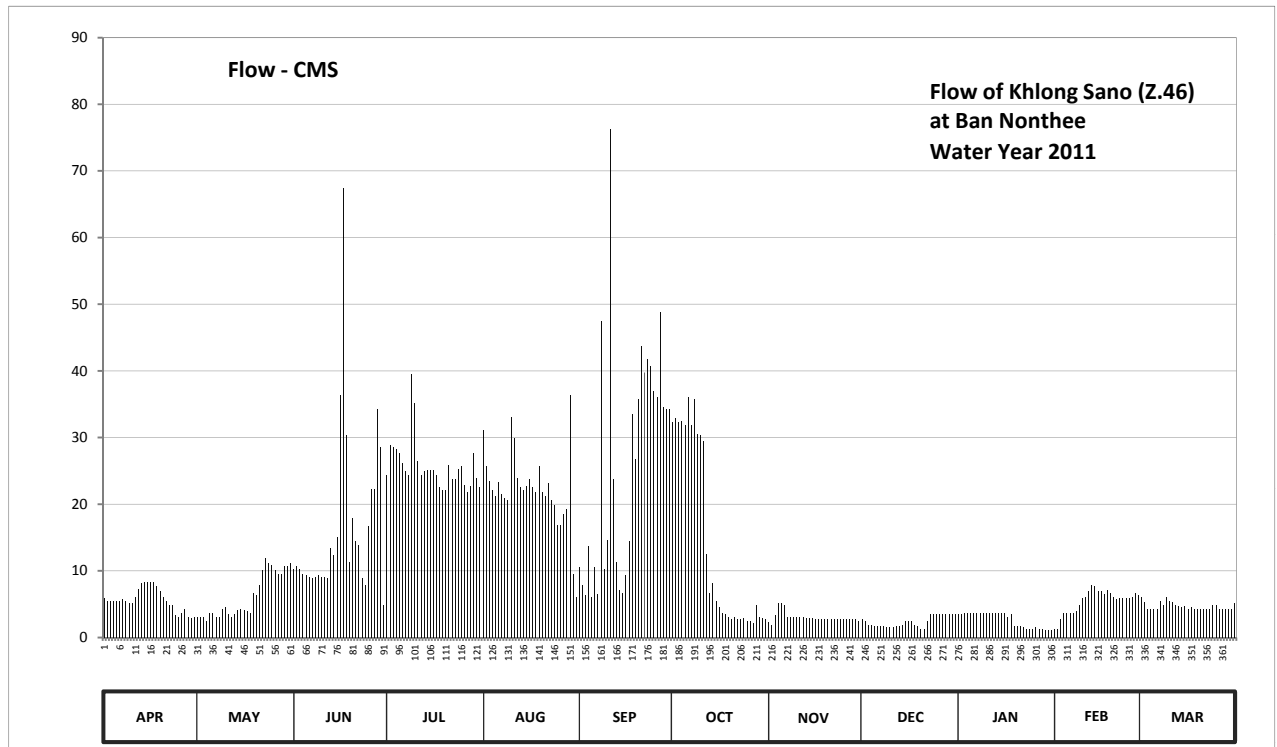
Lat 12 - 31 - 05 N Long 102 - 35 - 00 E

Location : on right bank at Ban Nonthee.

	Ban	Nonthee	Amphoe	Bo Rai	Changwat	Trat
Drainage Area	92	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+20.130	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 50 meters from the top staff gage.				Elevation	+27.928 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1997 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.29	20.11	20.59	21.29	21.63	20.60	21.69	20.05	20.08	20.13	19.99	20.30	
2	20.27	20.11	20.61	21.52	21.36	20.42	21.72	20.03	20.07	20.13	19.99	20.25	
3	20.26	20.10	20.58	21.50	21.25	20.32	21.69	20.12	20.03	20.15	20.08	20.19	
4	20.27	20.07	20.53	21.49	21.18	20.76	21.70	20.24	20.02	20.15	20.15	20.19	
5	20.26	20.15	20.52	21.46	21.14	20.30	21.67	20.24	20.01	20.15	20.15	20.19	
6	20.26	20.15	20.51	21.38	21.24	20.60	21.88	20.22	20.01	20.15	20.15	20.19	
7	20.28	20.11	20.49	21.32	21.15	20.33	21.67	20.11	20.01	20.15	20.15	20.27	
8	20.27	20.11	20.50	21.29	21.12	22.36	21.86	20.11	20.01	20.15	20.16	20.23	
9	20.24	20.18	20.52	22.04	21.11	20.58	21.60	20.11	20.00	20.15	20.23	20.30	
10	20.24	20.20	20.51	21.83	21.73	20.81	21.59	20.11	20.00	20.15	20.29	20.26	
11	20.31	20.13	20.50	21.40	21.57	23.51	21.55	20.11	20.00	20.15	20.31	20.25	
12	20.39	20.11	20.49	21.29	21.27	21.26	20.70	20.10	20.01	20.15	20.36	20.23	
13	20.44	20.13	20.75	21.32	21.20	20.64	20.34	20.09	20.01	20.15	20.43	20.21	
14	20.45	20.17	20.69	21.33	21.18	20.37	20.44	20.09	20.03	20.15	20.41	20.20	
15	20.45	20.18	20.83	21.33	21.21	20.34	20.27	20.09	20.07	20.15	20.36	20.21	
16	20.45	20.17	21.89	21.33	21.26	20.52	20.20	20.08	20.07	20.15	20.36	20.19	
17	20.45	20.16	23.16	21.29	21.20	20.80	20.15	20.08	20.06	20.11	20.33	20.20	
18	20.41	20.15	21.59	21.20	21.17	21.75	20.13	20.08	20.03	20.13	20.37	20.19	
19	20.36	20.34	20.64	21.18	21.36	21.41	20.10	20.08	20.01	20.01	20.35	20.19	
20	20.31	20.32	20.97	21.18	21.17	21.86	20.08	20.08	19.99	20.01	20.30	20.19	
21	20.26	20.43	20.80	21.37	21.14	22.21	20.10	20.08	19.99	20.01	20.28	20.19	
22	20.23	20.57	20.77	21.26	21.23	22.05	20.08	20.08	20.07	20.00	20.29	20.19	
23	20.22	20.67	20.49	21.26	21.11	22.13	20.08	20.08	20.13	19.99	20.29	20.19	
24	20.12	20.63	20.43	21.34	21.07	22.09	20.09	20.08	20.13	19.98	20.29	20.22	
25	20.10	20.62	20.91	21.36	20.92	21.92	20.07	20.08	20.13	19.98	20.29	20.23	
26	20.14	20.57	21.19	21.22	20.92	21.88	20.07	20.08	20.13	20.00	20.31	20.19	
27	20.18	20.53	21.19	21.17	21.00	22.41	20.04	20.08	20.13	19.99	20.34	20.19	
28	20.10	20.53	21.79	21.21	21.04	21.80	20.23	20.08	20.13	19.98	20.32	20.19	
29	20.09	20.61	21.50	21.46	21.89	21.79	20.10	20.08	20.13	19.97	20.24	20.19	
30	20.10	20.61	20.22	21.27	20.53	21.79	20.09	20.06	20.13	19.97		20.19	
31		20.63		21.20	20.31		20.08		20.13	19.97		20.24	
Mean	20.27	20.31	20.87	21.36	21.18	21.32	20.71	20.10	20.06	20.08	20.26	20.21	
Max	20.45	20.67	23.16	22.04	21.89	23.51	21.88	20.24	20.13	20.15	20.43	20.30	23.51
Min	20.09	20.07	20.22	21.17	20.31	20.30	20.04	20.03	19.99	19.97	19.99	20.19	19.97
Annual Max Momentary Gage Height	24.91		m. (MSL.) ,			at 12.00 Hours, on Jun 17, 2011							
Zero Gage at Bottom Elevation	20.13		m. (MSL.) ,			River Bed	19.03	m. (MSL)					
Left Bank Elevation	29.00		m. (MSL.) ,										
Right Bank Elevation	27.84		m. (MSL.) ,			Drainage Area	92	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.85	3.15	10.35	24.30	31.10	10.50	32.30	2.25	2.70	3.45	1.35	6.00		
2	5.55	3.15	10.70	28.90	25.70	7.80	32.90	1.95	2.55	3.45	1.35	5.25		
3	5.40	3.00	10.20	28.50	23.50	6.30	32.30	3.30	1.95	3.75	2.70	4.35		
4	5.55	2.55	9.45	28.30	22.10	13.70	32.50	5.10	1.80	3.75	3.75	4.35		
5	5.40	3.75	9.30	27.70	21.30	6.00	31.90	5.10	1.65	3.75	3.75	4.35		
6	5.40	3.75	9.15	26.10	23.30	10.50	36.10	4.80	1.65	3.75	3.75	4.35		
7	5.70	3.15	8.85	24.90	21.50	6.45	31.90	3.15	1.65	3.75	3.75	5.55		
8	5.55	3.15	9.00	24.30	20.90	47.50	35.70	3.15	1.65	3.75	3.90	4.95		
9	5.10	4.20	9.30	39.50	20.70	10.20	30.50	3.15	1.50	3.75	4.95	6.00		
10	5.10	4.50	9.15	35.10	33.10	14.70	30.30	3.15	1.50	3.75	5.85	5.40		
11	6.15	3.45	9.00	26.50	29.90	76.25	29.50	3.15	1.50	3.75	6.15	5.25		
12	7.35	3.15	8.85	24.30	23.90	23.70	12.50	3.00	1.65	3.75	6.90	4.95		
13	8.10	3.45	13.50	24.90	22.50	11.30	6.60	2.85	1.65	3.75	7.95	4.65		
14	8.25	4.05	12.30	25.10	22.10	7.05	8.10	2.85	1.95	3.75	7.65	4.50		
15	8.25	4.20	15.10	25.10	22.70	6.60	5.55	2.85	2.55	3.75	6.90	4.65		
16	8.25	4.05	36.30	25.10	23.70	9.30	4.50	2.70	2.55	3.75	6.90	4.35		
17	8.25	3.90	67.50	24.30	22.50	14.50	3.75	2.70	2.40	3.15	6.45	4.50		
18	7.65	3.75	30.30	22.50	21.90	33.50	3.45	2.70	1.95	3.45	7.05	4.35		
19	6.90	6.60	11.30	22.10	25.70	26.70	3.00	2.70	1.65	1.65	6.75	4.35		
20	6.15	6.30	17.90	22.10	21.90	35.70	2.70	2.70	1.35	1.65	6.00	4.35		
21	5.40	7.95	14.50	25.90	21.30	43.75	3.00	2.70	1.35	1.65	5.70	4.35		
22	4.95	10.05	13.90	23.70	23.10	39.75	2.70	2.70	2.55	1.50	5.85	4.35		
23	4.80	11.90	8.85	23.70	20.70	41.75	2.70	2.70	3.45	1.35	5.85	4.35		
24	3.30	11.10	7.95	25.30	19.90	40.75	2.85	2.70	3.45	1.20	5.85	4.80		
25	3.00	10.90	16.70	25.70	16.90	36.90	2.55	2.70	3.45	1.20	5.85	4.95		
26	3.60	10.05	22.30	22.90	16.90	36.10	2.55	2.70	3.45	1.50	6.15	4.35		
27	4.20	9.45	22.30	21.90	18.50	48.75	2.10	2.70	3.45	1.35	6.60	4.35		
28	3.00	9.45	34.30	22.70	19.30	34.50	4.95	2.70	3.45	1.20	6.30	4.35		
29	2.85	10.70	28.50	27.70	36.30	34.30	3.00	2.70	3.45	1.05	5.10	4.35		
30	3.00	10.70	4.80	23.90	9.45	34.30	2.85	2.40	3.45	1.05		4.35		
31		11.10		22.50	6.15		2.70		3.45	1.05		5.10		
Total	168.00	190.60	491.60	795.50	688.50	769.10	438.00	90.00	72.75	83.40	157.05	146.10	4090.60	CMSDAY
Mean	5.60	6.15	16.39	25.66	22.21	25.64	14.13	3.00	2.35	2.69	5.42	4.71	11.18	CMS
Max	8.25	11.90	67.50	39.50	36.30	76.25	36.10	5.10	3.45	3.75	7.95	6.00	76.25	CMS
Min	2.85	2.55	4.80	21.90	6.15	6.00	2.10	1.95	1.35	1.05	1.35	4.35	1.05	CMS
Runoff	14.52	16.47	42.47	68.73	59.49	66.45	37.84	7.78	6.29	7.21	13.57	12.62	353.43	MCM
Momentary Peak	113.30	CMS, at 24.91 m. (MSL), at 12.00 Hours, on Jun 17, 2011												
Runoff Yield	121.48	Liters/Second/Square KM.			Momentary Peak Yield		1231.522	Liters/Second/Square KM.						

WATER YEAR : 2011

EAST COAST - GULF BASIN

Khlong Chanthi at Ban Khlong Khwang , Trat (Z.47A)

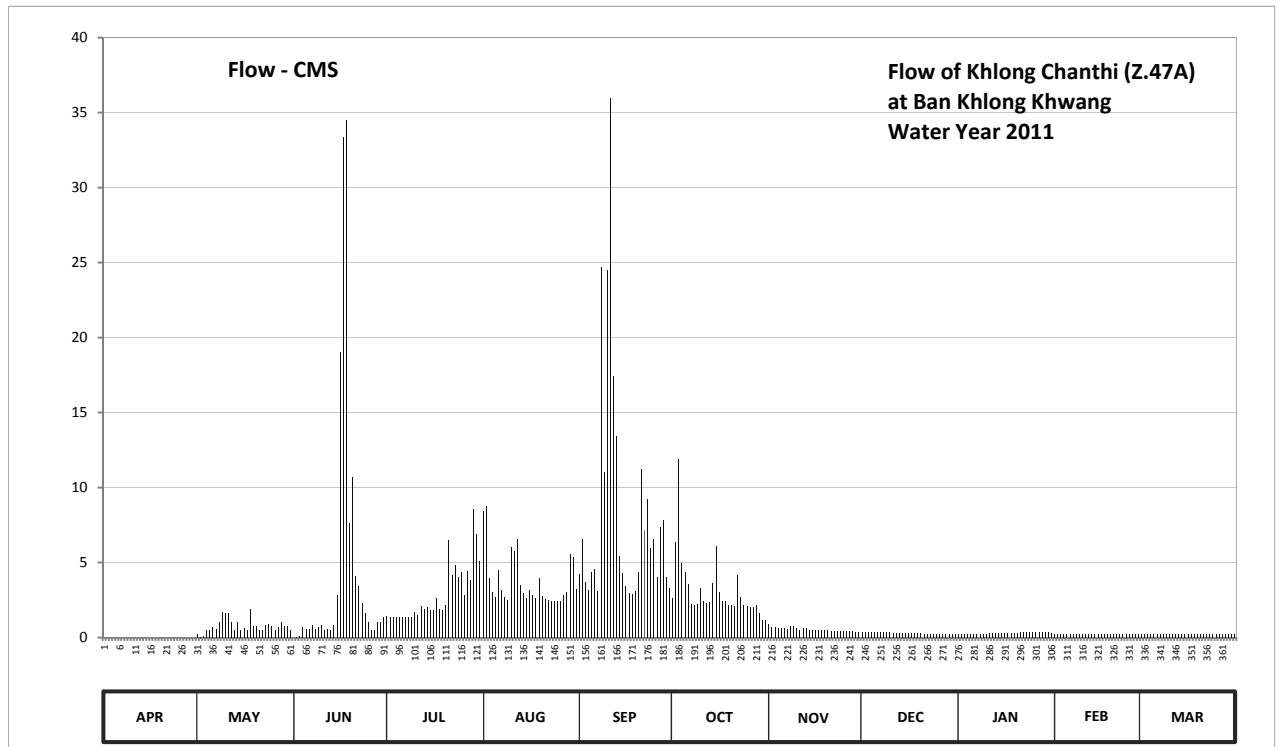
Lat 12 - 20 - 00 N Long 102 - 38 - 37 E

Location : on left bank at Ban Khlong Khwang, Tambon Tha Kum.

	Ban	Khlong Khwang	Amphoe	Mueang	Changwat	Trat
Drainage Area	27	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+18.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 20 meters from the top staff gage.				Elevation	+23.608 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2011 to date					
Rating Operation						
Period of Rating	2011 to date					
Rated by Flot	-					
Rated by Current Meter	2011 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.00	18.54	18.48	18.77	19.79	19.24	18.97	18.68	18.57	18.55	18.55	18.55	
2	18.00	18.51	18.51	18.76	19.83	19.56	19.53	18.64	18.57	18.55	18.55	18.55	
3	18.00	18.52	18.52	18.76	19.19	19.15	20.18	18.64	18.57	18.55	18.55	18.55	
4	18.00	18.60	18.64	18.76	19.04	19.06	19.35	18.63	18.57	18.55	18.55	18.55	
5	18.00	18.60	18.61	18.76	18.98	19.26	19.26	18.63	18.57	18.55	18.55	18.55	
6	18.00	18.64	18.61	18.76	19.28	19.30	19.13	18.63	18.57	18.55	18.55	18.55	
7	18.00	18.62	18.66	18.76	19.06	19.05	18.91	18.62	18.57	18.55	18.55	18.55	
8	18.00	18.70	18.61	18.76	18.98	21.10	18.90	18.65	18.57	18.55	18.55	18.55	
9	18.00	18.82	18.64	18.76	18.95	20.09	18.91	18.65	18.57	18.55	18.55	18.55	
10	18.00	18.80	18.66	18.82	19.49	21.09	19.08	18.63	18.57	18.55	18.55	18.55	
11	18.00	18.80	18.60	18.78	19.46	21.58	18.94	18.60	18.56	18.56	18.55	18.55	
12	18.00	18.70	18.62	18.88	19.56	20.64	18.92	18.63	18.56	18.56	18.55	18.55	
13	18.00	18.60	18.60	18.85	19.12	20.33	18.93	18.63	18.56	18.56	18.55	18.55	
14	18.00	18.70	18.67	18.87	19.03	19.42	19.14	18.60	18.56	18.56	18.55	18.55	
15	18.00	18.60	19.00	18.84	18.97	19.25	19.50	18.60	18.56	18.56	18.55	18.55	
16	18.00	18.63	20.75	18.84	19.06	19.10	19.04	18.60	18.56	18.56	18.55	18.55	
17	18.00	18.60	21.49	18.97	19.00	19.03	18.94	18.60	18.56	18.56	18.55	18.55	
18	18.00	18.85	21.53	18.85	18.97	19.02	18.94	18.60	18.56	18.56	18.55	18.55	
19	18.00	18.65	19.69	18.84	19.19	19.05	18.90	18.60	18.56	18.56	18.55	18.55	
20	18.00	18.65	20.06	18.90	18.99	19.26	18.90	18.60	18.56	18.56	18.55	18.55	
21	18.00	18.60	19.22	19.55	18.96	20.11	18.88	18.59	18.55	18.57	18.55	18.55	
22	18.00	18.60	19.10	19.23	18.95	19.63	19.23	18.59	18.55	18.57	18.55	18.55	
23	18.00	18.67	18.92	19.33	18.94	19.89	18.98	18.59	18.55	18.57	18.55	18.55	
24	18.00	18.68	18.80	19.21	18.94	19.48	18.89	18.59	18.55	18.57	18.55	18.55	
25	18.00	18.65	18.70	19.26	18.94	19.56	18.88	18.59	18.55	18.57	18.55	18.55	
26	18.00	18.60	18.60	19.00	18.94	19.20	18.87	18.58	18.55	18.57	18.55	18.55	
27	18.00	18.64	18.60	19.27	19.01	19.66	18.87	18.58	18.55	18.57	18.55	18.55	
28	18.00	18.70	18.70	19.17	19.04	19.72	18.89	18.58	18.55	18.57	18.55	18.55	
29	18.00	18.65	18.70	19.81	19.43	19.20	18.81	18.57	18.55	18.57	18.55	18.54	
30	18.00	18.65	18.76	19.60	19.41	19.08	18.73	18.57	18.55	18.57		18.54	
31		18.60		19.37	19.07		18.73		18.55	18.56		18.54	
Mean	18.00	18.65	19.04	19.00	19.15	19.64	19.04	18.61	18.56	18.56	18.55	18.55	
Max	18.00	18.85	21.53	19.81	19.83	21.58	20.18	18.68	18.57	18.57	18.55	18.55	21.58
Min	18.00	18.51	18.48	18.76	18.94	19.02	18.73	18.57	18.55	18.55	18.55	18.54	18.00
Annual Max Momentary Gage Height	22.56		m. (MSL.) ,		at 03.00 Hours, on Sep 10, 2011								
Zero Gage at Bottom Elevation	18.00		m. (MSL.) ,		River Bed	18.60	m. (MSL)						
Left Bank Elevation	23.67		m. (MSL.) ,										
Right Bank Elevation	23.62		m. (MSL.) ,		Drainage Area	27	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.20	0.00	1.42	8.42	4.24	2.62	0.90	0.35	0.25	0.25	0.25		
2	0.00	0.05	0.05	1.36	8.74	6.58	6.34	0.70	0.35	0.25	0.25	0.25		
3	0.00	0.10	0.10	1.36	3.94	3.70	11.90	0.70	0.35	0.25	0.25	0.25		
4	0.00	0.50	0.70	1.36	3.04	3.16	4.95	0.65	0.35	0.25	0.25	0.25		
5	0.00	0.50	0.55	1.36	2.68	4.36	4.36	0.65	0.35	0.25	0.25	0.25		
6	0.00	0.70	0.55	1.36	4.48	4.60	3.58	0.65	0.35	0.25	0.25	0.25		
7	0.00	0.60	0.80	1.36	3.16	3.10	2.26	0.60	0.35	0.25	0.25	0.25		
8	0.00	1.00	0.55	1.36	2.68	24.70	2.20	0.75	0.35	0.25	0.25	0.25		
9	0.00	1.72	0.70	1.36	2.50	11.00	2.26	0.75	0.35	0.25	0.25	0.25		
10	0.00	1.60	0.80	1.72	6.02	24.51	3.28	0.65	0.35	0.25	0.25	0.25		
11	0.00	1.60	0.50	1.48	5.78	36.00	2.44	0.50	0.30	0.30	0.25	0.25		
12	0.00	1.00	0.60	2.08	6.58	17.40	2.32	0.65	0.30	0.30	0.25	0.25		
13	0.00	0.50	0.50	1.90	3.52	13.43	2.38	0.65	0.30	0.30	0.25	0.25		
14	0.00	1.00	0.85	2.02	2.98	5.46	3.64	0.50	0.30	0.30	0.25	0.25		
15	0.00	0.50	2.80	1.84	2.62	4.30	6.10	0.50	0.30	0.30	0.25	0.25		
16	0.00	0.65	19.05	1.84	3.16	3.40	3.04	0.50	0.30	0.30	0.25	0.25		
17	0.00	0.50	33.35	2.62	2.80	2.98	2.44	0.50	0.30	0.30	0.25	0.25		
18	0.00	1.90	34.50	1.90	2.62	2.92	2.44	0.50	0.30	0.30	0.25	0.25		
19	0.00	0.75	7.62	1.84	3.94	3.10	2.20	0.50	0.30	0.30	0.25	0.25		
20	0.00	0.75	10.70	2.20	2.74	4.36	2.20	0.50	0.30	0.30	0.25	0.25		
21	0.00	0.50	4.12	6.50	2.56	11.20	2.08	0.45	0.25	0.35	0.25	0.25		
22	0.00	0.50	3.40	4.18	2.50	7.14	4.18	0.45	0.25	0.35	0.25	0.25		
23	0.00	0.85	2.32	4.81	2.44	9.22	2.68	0.45	0.25	0.35	0.25	0.25		
24	0.00	0.90	1.60	4.06	2.44	5.94	2.14	0.45	0.25	0.35	0.25	0.25		
25	0.00	0.75	1.00	4.36	2.44	6.58	2.08	0.45	0.25	0.35	0.25	0.25		
26	0.00	0.50	0.50	2.80	2.44	4.00	2.02	0.40	0.25	0.35	0.25	0.25		
27	0.00	0.70	0.50	4.42	2.86	7.38	2.02	0.40	0.25	0.35	0.25	0.25		
28	0.00	1.00	1.00	3.82	3.04	7.86	2.14	0.40	0.25	0.35	0.25	0.25		
29	0.00	0.75	1.00	8.58	5.54	4.00	1.66	0.35	0.25	0.35	0.25	0.20		
30	0.00	0.75	1.36	6.90	5.38	3.28	1.18	0.35	0.25	0.35		0.20		
31		0.50		5.09	3.22		1.18		0.25	0.30		0.20		
Total	0.00	23.82	132.07	89.26	117.26	249.90	96.31	16.45	9.25	9.30	7.25	7.60	758.47 CMSDAY	
Mean	0.00	0.77	4.40	2.88	3.78	8.33	3.11	0.55	0.30	0.30	0.25	0.25	2.07 CMS	
Max	0.00	1.90	34.50	8.58	8.74	36.00	11.90	0.90	0.35	0.35	0.25	0.25	36.00 CMS	
Min	0.00	0.05	0.00	1.36	2.44	2.92	1.18	0.35	0.25	0.25	0.25	0.20	0.00 CMS	
Runoff	0.00	2.06	11.41	7.71	10.13	21.59	8.32	1.42	0.80	0.80	0.63	0.66	65.53 MCM	
Momentary Peak	78.16	CMS, at 22.56 m. (MSL), at 03.00 Hours, on Sep 10, 2011												
Runoff Yield	76.75	Liters/Second/Square KM.			Momentary Peak Yield		2894.815	Liters/Second/Square KM.						

WATER YEAR : 2011

EAST COAST - GULF BASIN

Khlong Thung Ta In at Ban Thung Ta In , Chanthaburi (Z.53)

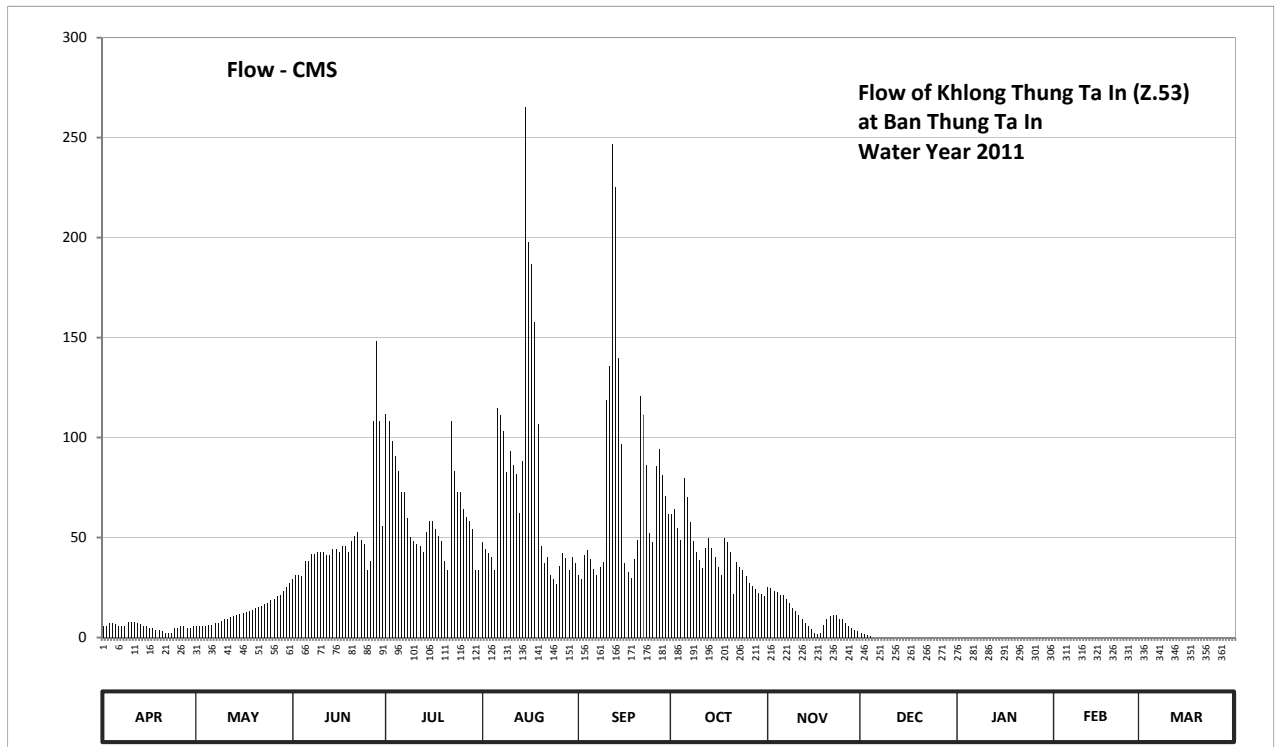
Lat 12 - 50 - 23 N Long 102 - 05 - 04 E

Location : on left bank at the bridge on highway.

	Ban	Thung Ta In	Amphoe	Khao Kitchakut	Changwat	Chanthaburi
Drainage Area	-	sq.km.				
Type of Gage		Staff gage				
Zero Gage at Bottom	+14.260	m. (MSL.)				
Bench Mark		B.M.-H.D.				
Location BM		On left bank near the gage site.			Elevation	+21.404 m. (MSL.)
Gage Reading Frequency		5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height		Arithmetic means of 5 readings				
Period of Available Gage Records		2007 to date				
Rating Operation						
Period of Rating		2007 to date				
Rated by Flot		-				
Rated by Current Meter		2007 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 18 discharge measurements made in 2011.				

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.56	15.56	16.16	17.83	16.55	16.20	16.83	16.06	15.46	15.16	15.06	14.94	
2	15.56	15.56	16.21	17.76	16.48	16.16	16.88	16.04	15.45	15.16	15.06	14.93	
3	15.61	15.56	16.21	17.56	16.44	16.42	16.70	16.01	15.44	15.14	15.06	14.92	
4	15.61	15.56	16.19	17.41	16.40	16.47	16.58	15.99	15.42	15.13	15.04	14.91	
5	15.59	15.57	16.36	17.26	16.26	16.38	17.19	15.96	15.40	15.13	15.04	14.90	
6	15.56	15.58	16.36	17.06	17.89	16.27	17.00	15.96	15.40	15.13	15.04	14.89	
7	15.56	15.60	16.43	17.06	17.82	16.21	16.75	15.91	15.36	15.12	15.04	14.88	
8	15.56	15.61	16.43	16.79	17.66	16.29	16.57	15.86	15.36	15.12	15.02	14.87	
9	15.62	15.63	16.46	16.61	17.25	16.35	16.46	15.79	15.34	15.12	15.02	14.86	
10	15.62	15.65	16.46	16.56	17.46	17.97	16.37	15.75	15.34	15.11	15.02	14.85	
11	15.62	15.66	16.46	16.54	17.32	18.30	16.28	15.71	15.33	14.83	15.02	14.84	
12	15.61	15.68	16.42	16.51	17.23	20.28	16.50	15.66	15.33	14.83	15.01	14.83	
13	15.59	15.69	16.42	16.46	16.85	19.92	16.59	15.61	15.31	14.83	15.01	14.82	
14	15.56	15.71	16.49	16.66	17.36	18.38	16.50	15.56	15.31	14.82	15.01	14.81	
15	15.56	15.72	16.49	16.76	20.59	17.53	16.41	15.52	15.26	14.82	15.01	14.80	
16	15.53	15.73	16.46	16.76	19.43	16.34	16.29	15.46	15.26	14.82	14.99	14.66	
17	15.53	15.74	16.51	16.69	19.23	16.24	16.20	15.45	15.26	15.09	14.99	14.78	
18	15.51	15.76	16.51	16.62	18.70	16.17	16.59	15.47	15.21	15.09	14.99	14.77	
19	15.51	15.77	16.46	16.56	17.73	16.38	16.55	15.57	15.21	15.09	14.98	14.76	
20	15.49	15.79	16.56	16.36	16.51	16.58	16.46	15.66	15.20	15.09	14.98	14.75	
21	15.47	15.81	16.62	16.26	16.34	18.01	15.97	15.69	15.19	15.08	14.97	14.74	
22	15.47	15.82	16.66	17.76	16.40	17.83	16.35	15.71	15.19	15.08	14.97	14.73	
23	15.46	15.84	16.58	17.26	16.21	17.32	16.29	15.71	15.16	15.08	14.97	14.72	
24	15.54	15.86	16.54	17.06	16.16	16.64	16.26	15.66	15.16	15.08	14.96	14.71	
25	15.54	15.89	16.26	17.06	16.09	16.55	16.19	15.66	15.16	14.88	14.96	14.70	
26	15.56	15.91	16.36	16.89	16.30	17.31	16.10	15.61	15.14	15.07	14.96	14.69	
27	15.56	15.94	17.76	16.81	16.44	17.48	16.07	15.56	15.14	15.07	14.96	14.68	
28	15.53	15.96	18.53	16.76	16.39	17.22	16.03	15.54	15.14	15.07	14.95	14.67	
29	15.53	16.01	17.76	16.69	16.26	17.01	15.98	15.51	15.14	15.07	14.95	14.66	
30	15.56	16.06	16.71	16.26	16.41	16.83	15.97	15.49	15.14	15.07		14.65	
31		16.11		16.26	16.34		15.94		15.14	15.07		14.64	
Mean	15.55	15.75	16.59	16.87	17.11	17.10	16.41	15.70	15.27	15.04	15.00	14.79	
Max	15.62	16.11	18.53	17.83	20.59	20.28	17.19	16.06	15.46	15.16	15.06	14.94	20.59
Min	15.46	15.56	16.16	16.26	16.09	16.16	15.94	15.45	15.14	14.82	14.95	14.64	14.64
Annual Max Momentary Gage Height	20.83		m. (MSL.) , at 12.00 Hours, on Aug 15, 2011										
Zero Gage at Bottom Elevation	14.26		m. (MSL.) , River Bed 14.30 m. (MSL)										
Left Bank Elevation	21.60		m. (MSL.) ,										
Right Bank Elevation	21.69		m. (MSL.) , Drainage Area Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.60	5.60	29.40	111.50	47.50	31.00	61.50	25.40	2.10	0.00	0.00	0.00	
2	5.60	5.60	31.45	108.00	44.00	29.40	64.00	24.60	1.75	0.00	0.00	0.00	
3	7.40	5.60	31.45	98.00	42.00	41.00	55.00	23.40	1.40	0.00	0.00	0.00	
4	7.40	5.60	30.60	90.50	40.00	43.50	49.00	22.60	0.70	0.00	0.00	0.00	
5	6.65	5.95	38.20	83.00	33.70	39.10	79.50	21.40	0.00	0.00	0.00	0.00	
6	5.60	6.30	38.20	73.00	114.50	34.15	70.00	21.40	0.00	0.00	0.00	0.00	
7	5.60	7.00	41.50	73.00	111.00	31.45	57.50	19.40	0.00	0.00	0.00	0.00	
8	5.60	7.40	41.50	59.50	103.00	35.05	48.50	17.40	0.00	0.00	0.00	0.00	
9	7.80	8.20	43.00	50.50	82.50	37.75	43.00	14.60	0.00	0.00	0.00	0.00	
10	7.80	9.00	43.00	48.00	93.00	118.50	38.65	13.00	0.00	0.00	0.00	0.00	
11	7.80	9.40	43.00	47.00	86.00	135.50	34.60	11.40	0.00	0.00	0.00	0.00	
12	7.40	10.20	41.00	45.50	81.50	246.80	45.00	9.40	0.00	0.00	0.00	0.00	
13	6.65	10.60	41.00	43.00	62.50	225.20	49.50	7.40	0.00	0.00	0.00	0.00	
14	5.60	11.40	44.50	53.00	88.00	139.90	45.00	5.60	0.00	0.00	0.00	0.00	
15	5.60	11.80	44.50	58.00	265.40	96.50	40.50	4.20	0.00	0.00	0.00	0.00	
16	4.55	12.20	43.00	58.00	197.65	37.30	35.05	2.10	0.00	0.00	0.00	0.00	
17	4.55	12.60	45.50	54.50	186.65	32.80	31.00	1.75	0.00	0.00	0.00	0.00	
18	3.85	13.40	45.50	51.00	157.50	29.80	49.50	2.45	0.00	0.00	0.00	0.00	
19	3.85	13.80	43.00	48.00	106.50	39.10	47.50	5.95	0.00	0.00	0.00	0.00	
20	3.15	14.60	48.00	38.20	45.50	49.00	43.00	9.40	0.00	0.00	0.00	0.00	
21	2.45	15.40	51.00	33.70	37.30	120.50	21.80	10.60	0.00	0.00	0.00	0.00	
22	2.45	15.80	53.00	108.00	40.00	111.50	37.75	11.40	0.00	0.00	0.00	0.00	
23	2.10	16.60	49.00	83.00	31.45	86.00	35.05	11.40	0.00	0.00	0.00	0.00	
24	4.90	17.40	47.00	73.00	29.40	52.00	33.70	9.40	0.00	0.00	0.00	0.00	
25	4.90	18.60	33.70	73.00	26.60	47.50	30.60	9.40	0.00	0.00	0.00	0.00	
26	5.60	19.40	38.20	64.50	35.50	85.50	27.00	7.40	0.00	0.00	0.00	0.00	
27	5.60	20.60	108.00	60.50	42.00	94.00	25.80	5.60	0.00	0.00	0.00	0.00	
28	4.55	21.40	148.15	58.00	39.55	81.00	24.20	4.90	0.00	0.00	0.00	0.00	
29	4.55	23.40	108.00	54.50	33.70	70.50	22.20	3.85	0.00	0.00	0.00	0.00	
30	5.60	25.40	55.50	33.70	40.50	61.50	21.80	3.15	0.00	0.00		0.00	
31		27.40		33.70	37.30		20.60		0.00	0.00		0.00	
Total	160.75	407.65	1498.85	1966.80	2381.70	2282.80	1287.80	339.95	5.95	0.00	0.00	0.00	10332.25
Mean	5.36	13.15	49.96	63.45	76.83	76.09	41.54	11.33	0.19	0.00	0.00	0.00	28.23
Max	7.80	27.40	148.15	111.50	265.40	246.80	79.50	25.40	2.10	0.00	0.00	0.00	265.40
Min	2.10	5.60	29.40	33.70	26.60	29.40	20.60	1.75	0.00	0.00	0.00	0.00	0.00
Runoff	13.89	35.22	129.50	169.93	205.78	197.23	111.27	29.37	0.51	0.00	0.00	0.00	892.71
Momentary Peak	CMS, at 279.80 20.83 m. (MSL), at 12.00 Hours, on Aug 15, 2011												
Runoff Yield	*****	Liters/Square KM.			Momentary Peak Yield			*****	Liters/Second/Square KM.				

WATER YEAR : 2011
EAST COAST - GULF BASIN

Chanthaburi River at Ban Bang Cha Ai , Chanthaburi (Z.55)

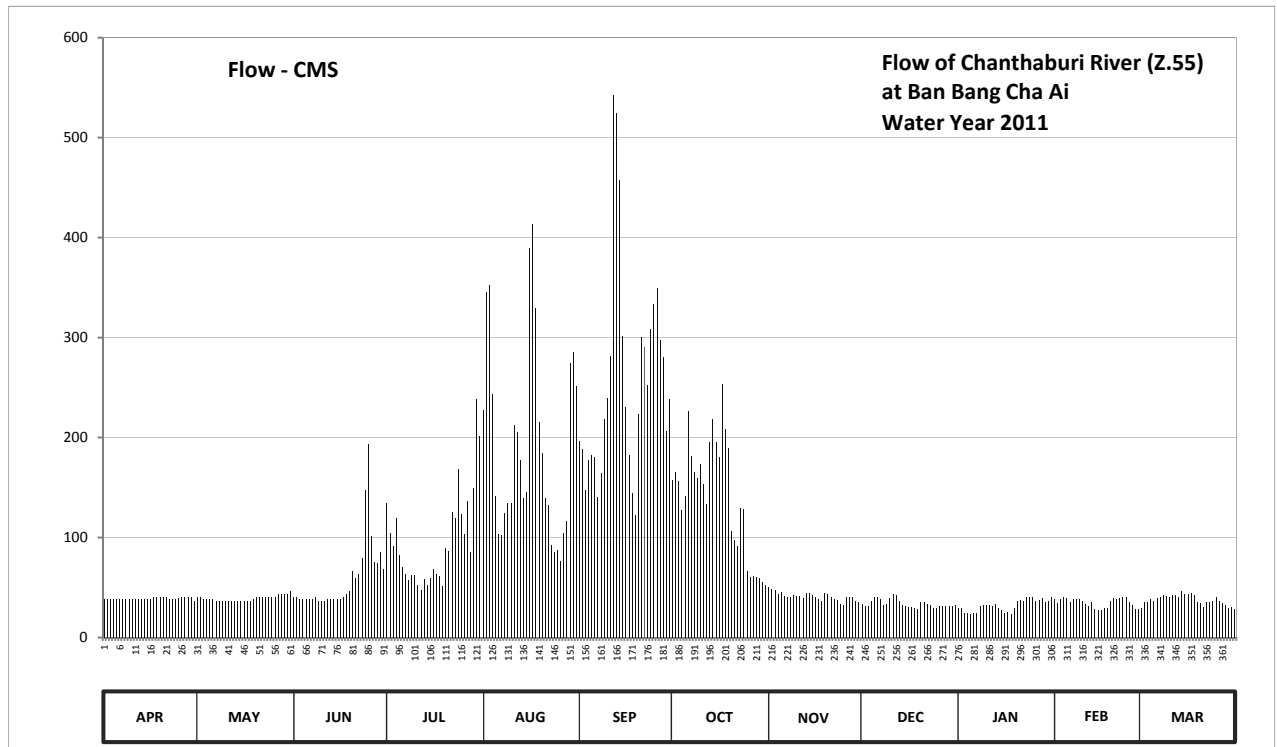
Lat 12 - 42 - 26 N Long 102 - 10 - 53 E

Location : on left bank at the bridge on highway.

	Ban	Bang Cha Ai	Amphoe	Makham	Changwat	Chanthaburi
Drainage Area	1,100	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+1.739	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+8.680 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2008 to date					
Rating Operation						
Period of Rating	2008 to date					
Rated by Flot	-					
Rated by Current Meter	2008 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 19 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.99	3.04	3.04	4.63	5.82	5.44	4.95	3.22	2.88	2.79	2.99	2.78	
2	2.99	3.04	3.04	4.20	7.10	5.34	5.05	3.19	2.84	2.78	2.91	2.93	
3	2.99	2.99	2.99	3.98	7.17	4.82	4.94	3.16	2.84	2.65	2.98	2.93	
4	2.99	2.99	2.99	4.42	5.99	5.21	4.54	3.09	2.94	2.65	3.04	2.98	
5	2.99	2.99	2.99	3.83	4.74	5.27	4.74	3.13	3.04	2.64	3.01	2.95	
6	2.99	2.99	2.99	3.62	4.18	5.24	5.80	3.05	3.03	2.66	2.92	3.00	
7	2.99	2.94	2.99	3.49	4.16	4.72	5.26	3.04	2.99	2.65	2.99	3.04	
8	2.99	2.94	3.03	3.37	4.50	5.04	5.06	3.04	2.86	2.84	2.99	3.06	
9	2.99	2.94	2.94	3.47	4.64	5.72	4.98	3.06	2.88	2.86	2.98	3.05	
10	2.99	2.94	2.94	3.47	4.64	5.95	5.15	3.05	3.00	2.85	2.95	3.04	
11	2.99	2.94	2.95	3.26	5.64	6.42	4.90	3.05	3.08	2.85	2.89	3.06	
12	2.99	2.94	2.98	3.17	5.56	8.99	4.62	3.00	3.06	2.83	2.84	3.07	
13	2.99	2.94	2.99	3.39	5.20	8.82	5.43	3.10	2.96	2.88	2.93	3.02	
14	2.99	2.94	2.99	3.26	4.71	8.21	5.72	3.11	2.85	2.78	2.75	3.14	
15	2.99	2.94	2.99	3.41	4.79	6.64	5.43	3.06	2.84	2.74	2.74	3.09	
16	2.99	2.94	2.99	3.60	7.54	5.85	5.24	3.02	2.81	2.66	2.74	3.09	
17	3.04	2.94	3.04	3.48	7.79	5.27	6.11	2.98	2.80	2.68	2.78	3.11	
18	3.04	2.94	3.09	3.45	6.94	4.78	5.59	2.94	2.79	2.64	2.79	3.07	
19	3.04	2.99	3.14	3.25	5.68	4.47	5.35	3.10	2.77	2.79	2.95	2.93	
20	3.04	3.04	3.54	3.95	5.29	5.77	4.23	3.08	2.93	2.94	3.00	2.90	
21	3.02	3.04	3.41	3.89	4.71	6.63	4.07	3.03	2.93	2.97	2.99	2.82	
22	2.99	3.04	3.48	4.51	4.60	6.52	3.98	2.98	2.89	2.94	3.00	2.93	
23	2.99	3.04	3.77	4.42	3.99	6.09	4.57	2.97	2.85	3.02	3.03	2.93	
24	2.98	3.04	4.82	5.09	3.87	6.71	4.55	2.89	2.79	3.04	3.02	2.94	
25	3.01	3.04	5.41	4.48	3.90	6.98	3.54	2.85	2.78	3.03	2.92	3.03	
26	3.04	3.04	4.15	4.17	3.72	7.14	3.42	3.04	2.83	2.95	2.86	2.96	
27	3.04	3.09	3.71	4.66	4.19	6.59	3.45	3.04	2.84	2.97	2.77	2.90	
28	3.04	3.09	3.69	3.87	4.38	6.40	3.44	3.02	2.84	3.01	2.77	2.87	
29	3.04	3.09	3.88	4.85	6.34	5.57	3.40	2.95	2.84	2.92	2.79	2.79	
30	2.96	3.09	3.58	5.94	6.46	5.94	3.33	2.93	2.84	2.94		2.81	
31		3.14		5.51	6.08		3.28		2.86	3.04		2.77	
Mean	3.00	3.00	3.35	4.00	5.30	6.08	4.65	3.04	2.89	2.84	2.91	2.97	
Max	3.04	3.14	5.41	5.94	7.79	8.99	6.11	3.22	3.08	3.04	3.04	3.14	8.99
Min	2.96	2.94	2.94	3.17	3.72	4.47	3.28	2.85	2.77	2.64	2.74	2.77	2.64
Annual Max Momentary Gage Height	9.04		m. (MSL.) ,				at 18.00 Hours, on Sep 12, 2011						
Zero Gage at Bottom Elevation	1.74		m. (MSL.) ,			River Bed	-1.61	m. (MSL)					
Left Bank Elevation	9.44		m. (MSL.) ,										
Right Bank Elevation	9.87		m. (MSL.) ,			Drainage Area	1100	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	38.50	41.00	41.00	134.10	227.80	196.20	157.00	50.00	33.20	29.60	38.50	29.20		
2	38.50	41.00	41.00	105.00	345.00	188.20	165.00	48.50	31.60	29.20	34.50	35.50		
3	38.50	38.50	38.50	91.80	352.00	147.40	156.20	47.00	31.60	24.00	38.00	35.50		
4	38.50	38.50	38.50	119.40	243.10	177.80	127.80	43.50	36.00	24.00	41.00	38.00		
5	38.50	38.50	38.50	82.80	141.80	182.60	141.80	45.50	41.00	23.60	39.50	36.50		
6	38.50	38.50	38.50	70.20	103.80	180.20	226.00	41.50	40.50	24.40	35.00	39.00		
7	38.50	36.00	38.50	63.50	102.60	140.40	181.80	41.00	38.50	24.00	38.50	41.00		
8	38.50	36.00	40.50	57.50	125.00	164.20	165.80	41.00	32.40	31.60	38.50	42.00		
9	38.50	36.00	36.00	62.50	134.80	218.80	159.40	42.00	33.20	32.40	38.00	41.50		
10	38.50	36.00	36.00	62.50	134.80	239.50	173.00	41.50	39.00	32.00	36.50	41.00		
11	38.50	36.00	36.50	52.00	212.20	281.80	153.00	41.50	43.00	32.00	33.60	42.00		
12	38.50	36.00	38.00	47.50	205.80	542.90	133.40	39.00	42.00	31.20	31.60	42.50		
13	38.50	36.00	38.50	58.50	177.00	524.20	195.40	44.00	37.00	33.20	35.50	40.00		
14	38.50	36.00	38.50	52.00	139.70	457.10	218.80	44.50	32.00	29.20	28.00	46.00		
15	38.50	36.00	38.50	59.50	145.30	301.60	195.40	42.00	31.60	27.60	27.60	43.50		
16	38.50	36.00	38.50	69.00	389.00	230.50	180.20	40.00	30.40	24.40	27.60	43.50		
17	41.00	36.00	41.00	63.00	414.00	182.60	253.90	38.00	30.00	25.20	29.20	44.50		
18	41.00	36.00	43.50	61.50	329.00	144.60	208.20	36.00	29.60	23.60	29.60	42.50		
19	41.00	38.50	46.00	51.50	215.40	122.90	189.00	44.00	28.80	29.60	36.50	35.50		
20	41.00	41.00	66.00	90.00	184.20	223.30	106.80	43.00	35.50	36.00	39.00	34.00		
21	40.00	41.00	59.50	86.40	139.70	300.70	97.20	40.50	35.50	37.50	38.50	30.80		
22	38.50	41.00	63.00	125.70	132.00	290.80	91.80	38.00	33.60	36.00	39.00	35.50		
23	38.50	41.00	79.20	119.40	92.40	252.10	129.90	37.50	32.00	40.00	40.50	35.50		
24	38.00	41.00	147.40	168.20	85.20	307.90	128.50	33.60	29.60	41.00	40.00	36.00		
25	39.50	41.00	193.80	123.60	87.00	333.00	66.00	32.00	29.20	40.50	35.00	40.50		
26	41.00	41.00	102.00	103.20	76.20	349.00	60.00	41.00	31.20	36.50	32.40	37.00		
27	41.00	43.50	75.60	136.20	104.40	297.10	61.50	41.00	31.60	37.50	28.80	34.00		
28	41.00	43.50	74.40	85.20	116.60	280.00	61.00	40.00	31.60	39.50	28.80	32.80		
29	41.00	43.50	85.80	149.50	274.60	206.60	59.00	36.50	31.60	35.00	29.60	29.60		
30	37.00	43.50	68.00	238.60	285.40	238.60	55.50	35.50	31.60	36.00		30.40		
31		46.00		201.80	251.20		53.00		32.40	41.00		28.80		
Total	1175.50	1213.50	1760.70	2991.60	5967.00	7702.60	4351.30	1229.10	1046.80	987.30	1008.80	1164.10	30598.30	CMSDAY
Mean	39.18	39.15	58.69	96.50	192.48	256.75	140.36	40.97	33.77	31.85	34.79	37.55	83.60	CMS
Max	41.00	46.00	193.80	238.60	414.00	542.90	253.90	50.00	43.00	41.00	41.00	46.00	542.90	CMS
Min	37.00	36.00	36.00	47.50	76.20	122.90	53.00	32.00	28.80	23.60	27.60	28.80	23.60	CMS
Runoff	101.56	104.85	152.12	258.47	515.55	665.51	375.95	106.19	90.44	85.30	87.16	100.58	2643.69	MCM
Momentary Peak		548.29	CMS, at 9.04 m. (MSL), at 18.00 Hours, on Sep 12, 2011											
Runoff Yield		76.00	Liters/Second/Square KM.			Momentary Peak Yield		498.445	Liters/Second/Square KM.					

WATER YEAR : 2011
EAST COAST - GULF BASIN

Khlong Thung Plae at Ban Ta Bok Tia , Chanthaburi (Z.56)

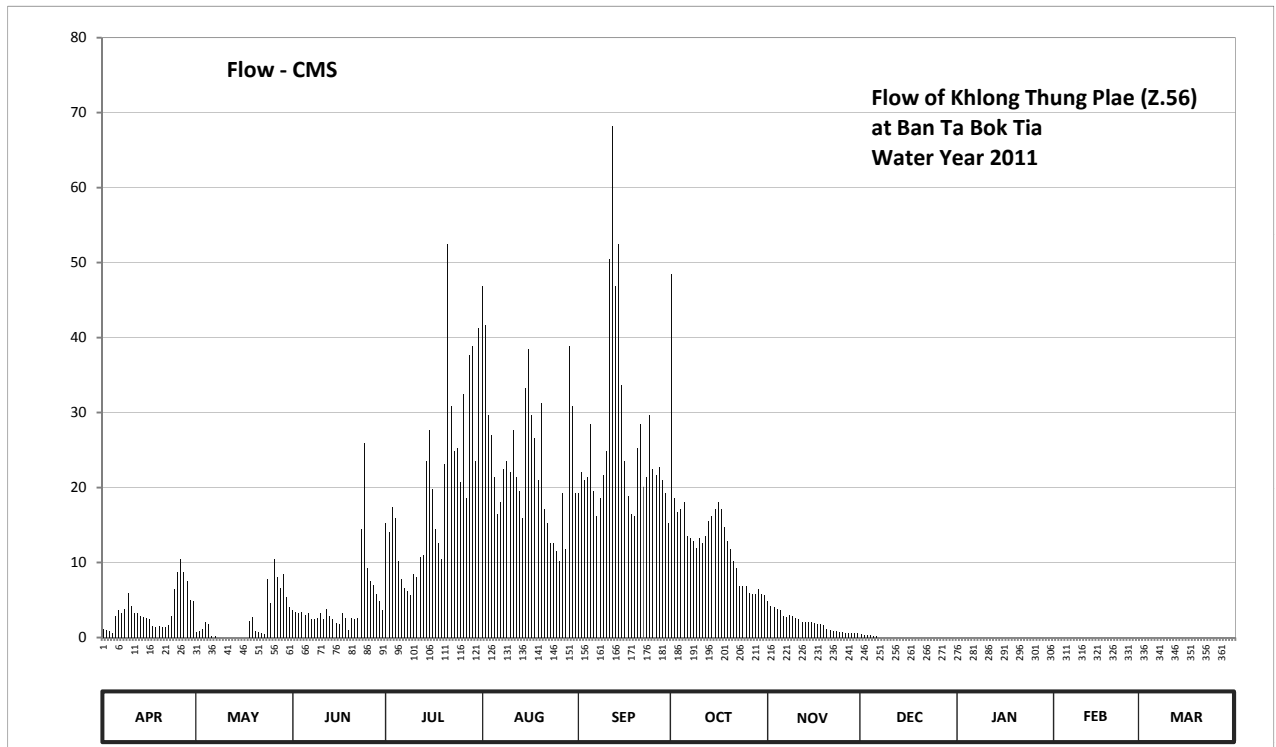
Lat 12 - 49 - 09 N Long 102 - 14 - 20 E

Location : on left bank at the bridge on highway.

	Ban	Ta Bok Tia	Amphoe	Makham	Changwat	Chanthaburi
Drainage Area	-	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+24.743	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+31.739 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.18	25.15	25.33	25.81	26.67	25.94	26.71	25.39	25.13	25.74	25.64	25.14	
2	25.17	25.16	25.32	25.77	26.54	26.03	25.92	25.36	25.12	25.74	25.63	25.13	
3	25.16	25.18	25.31	25.88	26.24	26.00	25.86	25.35	25.12	25.74	25.62	25.11	
4	25.14	25.24	25.32	25.83	26.17	26.01	25.87	25.34	25.12	25.74	25.60	25.07	
5	25.29	25.22	25.30	25.63	26.01	26.21	25.90	25.33	25.11	25.74	25.58	25.04	
6	25.33	25.11	25.31	25.53	25.85	25.95	25.75	25.29	25.11	25.74	25.59	25.04	
7	25.31	25.11	25.26	25.48	25.90	25.84	25.74	25.28	25.09	25.73	25.58	25.15	
8	25.34	25.08	25.26	25.46	26.04	25.92	25.73	25.30	25.08	25.73	25.57	25.24	
9	25.45	25.06	25.27	25.43	26.07	26.02	25.70	25.29	25.07	25.73	25.55	25.29	
10	25.36	25.04	25.31	25.56	26.03	26.11	25.74	25.27	25.06	25.72	25.54	25.38	
11	25.31	25.00	25.26	25.54	26.19	26.76	25.72	25.26	25.04	25.72	25.53	25.58	
12	25.31	25.04	25.34	25.65	26.01	27.16	25.75	25.24	25.04	25.72	25.52	25.45	
13	25.29	25.08	25.29	25.66	25.95	26.67	25.82	25.24	25.04	25.71	25.51	25.34	
14	25.28	25.10	25.26	26.07	25.83	26.81	25.84	25.24	25.04	25.71	25.49	25.33	
15	25.27	25.06	25.23	26.19	26.33	26.34	25.87	25.24	25.04	25.71	25.49	25.24	
16	25.26	25.03	25.22	25.96	26.46	26.07	25.90	25.23	25.04	25.71	25.44	25.19	
17	25.20	25.05	25.31	25.78	26.24	25.93	25.87	25.22	25.04	25.70	25.30	25.14	
18	25.19	25.25	25.27	25.72	26.16	25.85	25.79	25.22	25.04	24.89	25.27	25.11	
19	25.20	25.28	25.17	25.64	26.00	25.84	25.73	25.21	25.03	25.74	25.29	25.08	
20	25.19	25.16	25.27	26.06	26.28	26.12	25.69	25.18	25.00	25.74	25.33	25.05	
21	25.19	25.15	25.26	26.81	25.87	26.21	25.63	25.17	24.98	25.74	25.34	25.04	
22	25.21	25.14	25.27	26.27	25.81	25.97	25.59	25.16	24.96	25.74	25.34	25.04	
23	25.29	25.13	25.78	26.11	25.72	26.01	25.49	25.16	24.94	25.44	25.34	25.04	
24	25.47	25.53	26.14	26.12	25.72	26.24	25.49	25.15	24.94	24.89	25.34	25.01	
25	25.57	25.38	25.59	25.99	25.68	26.04	25.49	25.15	24.94	24.85	25.25	25.49	
26	25.64	25.64	25.52	26.31	25.63	26.02	25.45	25.14	24.94	24.81	25.22	25.14	
27	25.57	25.54	25.50	25.92	25.94	26.05	25.44	25.14	24.94	25.12	25.17	25.04	
28	25.52	25.48	25.44	26.44	25.69	26.00	25.44	25.14	25.56	25.67	25.16	25.04	
29	25.40	25.56	25.39	26.47	26.47	25.94	25.47	25.14	25.67	25.64	25.14	24.96	
30	25.39	25.42	25.33	26.07	26.27	25.81	25.44	25.14	25.77	25.65		24.86	
31		25.35		26.53	25.94		25.43		25.74	25.65		24.84	
Mean	25.32	25.22	25.36	25.93	26.06	26.13	25.72	25.23	25.12	25.58	25.43	25.15	
Max	25.64	25.64	26.14	26.81	26.67	27.16	26.71	25.39	25.77	25.74	25.64	25.58	27.16
Min	25.14	25.00	25.17	25.43	25.63	25.81	25.43	25.14	24.94	24.81	25.14	24.84	24.81
Annual Max Momentary Gage Height	27.74		m. (MSL.) ,			at 18.00 Hours, on Sep 11, 2011							
Zero Gage at Bottom Elevation	24.74		m. (MSL.) ,		River Bed	24.96	m. (MSL)						
Left Bank Elevation			32.41		m. (MSL.) ,								
Right Bank Elevation		32.53		m. (MSL.) ,		Drainage Area		Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

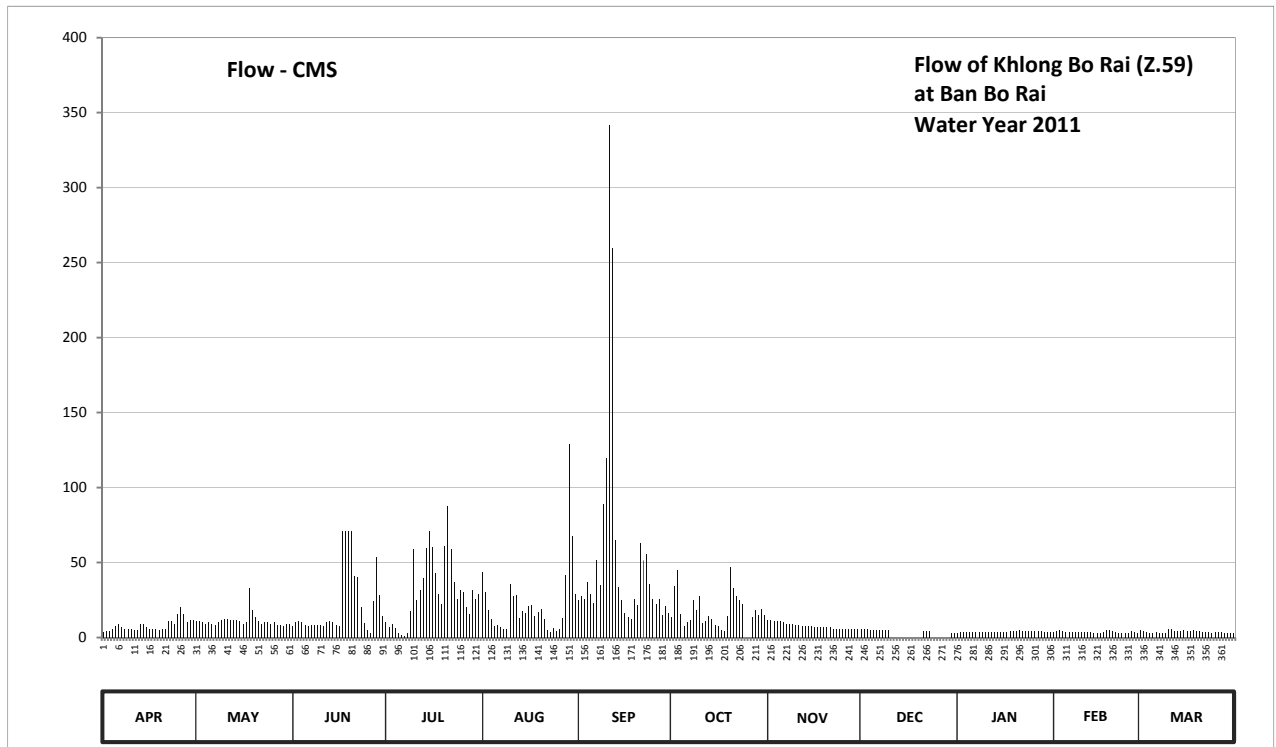
WATER YEAR : 2011
EAST COAST - GULF BASIN
Khlong Bo Rai at Ban Bo Rai , Trat (Z.59)
Lat 12 - 21 - 45 N Long 102 - 32 - 38 E

Location : on left bank at the bridge on highway.

	Ban	Ta Bok Tia	Amphoe	Makham	Changwat	Chanthaburi
Drainage Area	200	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+16.570	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+24.570 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2010 to date					
Rating Operation						
Period of Rating	2010 to date					
Rated by Flot	-					
Rated by Current Meter	2010 to date					
Stability of Channel Regimes	Fairly stable because of back water effect					
Overbank Flow Conditions	Overbank flow starts at elevation +25.260 m. (MSL.), records are including overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.86	21.96	21.92	20.31	21.27	20.80	20.41	21.97	21.89	21.85	21.86	21.88	
2	21.87	21.96	21.95	20.19	20.96	20.89	21.05	21.97	21.89	21.86	21.87	21.87	
3	21.87	21.95	21.96	20.27	20.58	20.83	21.31	21.96	21.89	21.86	21.88	21.86	
4	21.89	21.94	21.95	20.16	20.37	21.11	20.49	21.96	21.88	21.86	21.87	21.85	
5	21.92	21.95	21.93	20.00	20.23	20.93	20.23	21.96	21.88	21.86	21.86	21.85	
6	21.94	21.94	21.92	19.92	20.24	20.74	20.30	21.95	21.88	21.86	21.86	21.86	
7	21.91	21.93	21.93	19.87	20.20	21.46	20.35	21.94	21.88	21.86	21.86	21.85	
8	21.90	21.95	21.93	20.01	20.15	21.06	20.79	21.94	21.88	21.86	21.86	21.85	
9	21.90	21.97	21.93	20.56	20.15	22.30	20.57	21.94	21.88	21.86	21.86	21.85	
10	21.89	21.98	21.93	21.65	21.09	22.81	20.89	21.93	21.88	21.86	21.86	21.90	
11	21.88	21.98	21.92	20.81	20.88	25.12	20.29	21.93	21.66	21.86	21.86	21.89	
12	21.88	21.97	21.95	20.99	20.90	24.46	20.32	21.92	21.66	21.86	21.86	21.87	
13	21.94	21.97	21.96	21.18	20.39	21.79	20.44	21.92	21.66	21.86	21.86	21.87	
14	21.94	21.97	21.95	21.66	20.55	21.03	20.38	21.92	21.66	21.86	21.85	21.87	
15	21.91	21.96	21.93	21.93	20.50	20.79	20.24	21.92	21.66	21.86	21.85	21.88	
16	21.89	21.94	21.92	21.68	20.67	20.52	20.23	21.91	21.66	21.86	21.85	21.87	
17	21.89	21.95	21.93	21.26	20.68	20.43	20.11	21.91	21.66	21.86	21.86	21.87	
18	21.89	22.19	21.93	20.93	20.45	20.38	20.05	21.91	21.66	21.87	21.88	21.88	
19	21.88	22.05	21.93	20.72	20.54	20.83	20.45	21.91	21.66	21.87	21.88	21.87	
20	21.90	22.00	21.93	21.69	20.59	20.69	21.36	21.91	21.66	21.87	21.87	21.87	
21	21.90	21.96	21.21	22.27	20.38	21.73	21.02	21.91	21.87	21.88	21.86	21.86	
22	21.96	21.94	21.19	21.64	20.10	21.46	20.89	21.90	21.87	21.87	21.85	21.86	
23	21.96	21.95	20.65	21.12	20.04	21.56	20.80	21.90	21.87	21.87	21.85	21.86	
24	21.94	21.95	20.28	20.82	20.16	21.09	20.71	21.90	21.64	21.87	21.85	21.85	
25	22.02	21.94	20.10	20.98	20.08	20.82	20.88	21.90	21.64	21.87	21.85	21.86	
26	22.08	21.95	19.99	20.95	20.12	20.71	21.07	21.90	21.64	21.87	21.87	21.86	
27	22.02	21.93	20.78	20.64	20.39	20.83	22.00	21.90	21.64	21.87	21.86	21.86	
28	21.95	21.93	21.51	20.49	21.23	20.46	22.05	21.90	21.64	21.87	21.85	21.85	
29	21.97	21.92	20.91	20.99	22.96	20.67	22.01	21.90	21.64	21.86	21.87	21.85	
30	21.97	21.94	20.45	20.83	21.85	20.52	22.06	21.90	21.85	21.86		21.85	
31		21.94		20.93	20.93		22.01		21.85	21.86		21.85	
Mean	21.92	21.96	21.53	20.89	20.63	21.29	20.83	21.92	21.76	21.86	21.86	21.86	
Max	22.08	22.19	21.96	22.27	22.96	25.12	22.06	21.97	21.89	21.88	21.88	21.90	25.12
Min	21.86	21.92	19.99	19.87	20.04	20.38	20.05	21.90	21.64	21.85	21.85	21.85	19.87
Annual Max Momentary Gage Height	26.25		m. (MSL.) ,			at 01.00 Hours, on Sep 12, 2011							
Zero Gage at Bottom Elevation	16.57		m. (MSL.) ,		River Bed	16.72	m. (MSL)						
Left Bank Elevation	25.25		m. (MSL.) ,										
Right Bank Elevation	25.29		m. (MSL.) ,		Drainage Area	200	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

WATER YEAR : 2011**PHETCHABURI RIVER BASIN****Phetchaburi River at Ban Song Phi Nong , Phetchaburi (B.3A)**

Lat 12 - 51 - 47 N Long 99 - 40 - 42 E

Location : on left bank at Ban Song Phi Nong.

	Ban	Song Phi Nong	Amphoe	Kaeng Krachan	Changwat	Phetchaburi
Drainage Area	2,220	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+40.998	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 24 meters from the top staff gage.				Elevation	+50.534 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1930 - 1942 , 1954 to date					
Rating Operation						
Period of Rating	1954 - 1959 , 1968 to date					
Rated by Flot	-					
Rated by Current Meter	1954 - 1959 , 1968 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow regulated by Kaeng Krachan Reservoir.					
	Stage-discharge relation defined by 35 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.50	41.84	41.75	42.21	43.21	42.20	43.34	42.51	42.29	42.61	42.84	42.90	
2	42.77	41.94	41.74	42.11	43.65	42.20	42.71	42.51	42.19	42.64	42.85	42.90	
3	43.07	42.29	41.64	42.12	43.63	42.17	42.70	42.51	42.10	42.80	42.85	42.90	
4	42.12	42.37	41.63	42.11	43.74	42.16	42.69	42.51	42.09	42.69	42.84	42.90	
5	41.94	41.80	41.65	42.12	43.86	42.69	42.70	42.52	42.09	42.48	42.84	42.85	
6	41.90	41.74	41.62	42.12	43.84	43.37	42.71	42.52	42.09	42.49	42.85	42.76	
7	41.90	41.73	41.63	42.12	43.48	42.53	42.73	42.60	42.07	42.49	42.85	42.75	
8	41.90	41.73	41.71	42.13	42.81	42.51	42.76	43.20	42.07	42.49	42.85	42.76	
9	42.79	41.86	41.74	42.16	42.79	42.47	42.71	43.22	42.06	42.49	42.85	42.69	
10	43.05	41.95	41.74	42.14	42.78	42.48	42.71	42.83	42.07	42.51	42.86	42.75	
11	42.82	41.91	41.73	42.05	42.78	42.49	42.70	42.56	41.98	42.53	42.86	42.78	
12	42.60	41.91	41.77	42.16	42.70	42.48	42.70	42.56	41.91	42.57	42.86	42.84	
13	42.61	41.98	41.76	42.23	42.70	42.50	42.50	42.59	41.91	42.57	42.86	42.83	
14	42.60	42.06	41.76	42.24	42.69	42.48	42.70	42.80	41.99	42.58	42.86	42.83	
15	42.26	42.05	41.74	42.53	42.70	42.49	42.35	42.81	42.09	42.58	42.86	42.83	
16	42.09	42.05	41.78	42.56	42.66	42.49	41.81	42.82	42.05	42.59	42.85	42.85	
17	41.79	41.92	41.58	42.55	42.63	42.57	41.78	42.82	42.05	42.59	42.66	42.87	
18	41.74	41.89	41.79	42.53	42.56	42.65	41.76	42.86	42.04	42.59	42.66	42.88	
19	41.74	41.77	41.72	42.55	42.55	42.65	41.72	42.71	42.04	42.60	42.67	42.84	
20	41.74	41.75	41.55	42.46	42.55	42.77	41.72	42.67	42.03	42.61	42.67	42.77	
21	41.73	41.74	41.68	42.30	42.54	42.75	41.73	42.58	42.04	42.61	42.69	42.78	
22	41.73	41.73	41.93	42.20	42.56	42.79	41.73	42.56	42.10	42.56	42.74	42.77	
23	41.87	41.73	41.97	42.20	42.58	42.81	41.73	42.55	42.03	42.49	42.74	42.78	
24	41.88	41.73	42.18	42.19	42.58	43.02	41.73	42.57	42.06	42.50	42.75	42.70	
25	41.90	41.73	42.35	42.19	42.59	42.80	41.72	42.57	42.04	42.50	42.88	42.78	
26	42.38	41.76	42.47	42.19	42.62	43.18	41.87	42.55	41.99	42.52	42.89	42.78	
27	41.62	41.77	42.48	42.23	42.62	43.93	42.44	42.50	42.01	42.55	42.90	42.78	
28	41.70	41.74	42.46	42.66	42.54	43.90	42.51	42.46	41.99	42.55	42.90	42.80	
29	41.73	41.73	42.45	42.64	42.42	43.87	42.51	42.29	41.98	42.55	42.90	42.79	
30	41.88	41.74	42.44	42.67	42.45	43.82	42.51	42.29	42.03	42.56		42.79	
31		41.77		42.66	42.41		42.51		42.17	42.63		42.79	
Mean	42.14	41.86	41.88	42.30	42.85	42.77	42.34	42.64	42.05	42.57	42.82	42.81	
Max	43.07	42.37	42.48	42.67	43.86	43.93	43.34	43.22	42.29	42.80	42.90	42.90	43.93
Min	41.62	41.73	41.55	42.05	42.41	42.16	41.72	42.29	41.91	42.48	42.66	42.69	41.55
Annual Max Momentary Gage Height	44.09		m. (MSL.) ,			at 23.00 Hours , on Apr 9 , 2011							
Zero Gage at Bottom Elevation	41.00		m. (MSL.) ,			River Bed	40.59	m. (MSL)					
Left Bank Elevation		48.88		m. (MSL.) ,									
Right Bank Elevation		48.81		m. (MSL.) ,		Drainage Area	2220	Square Kilometers					

WATER YEAR : 2011**PHETCHABURI RIVER BASIN****Huai Phak at Ban Prong Khae , Phetchaburi (B.8A)**

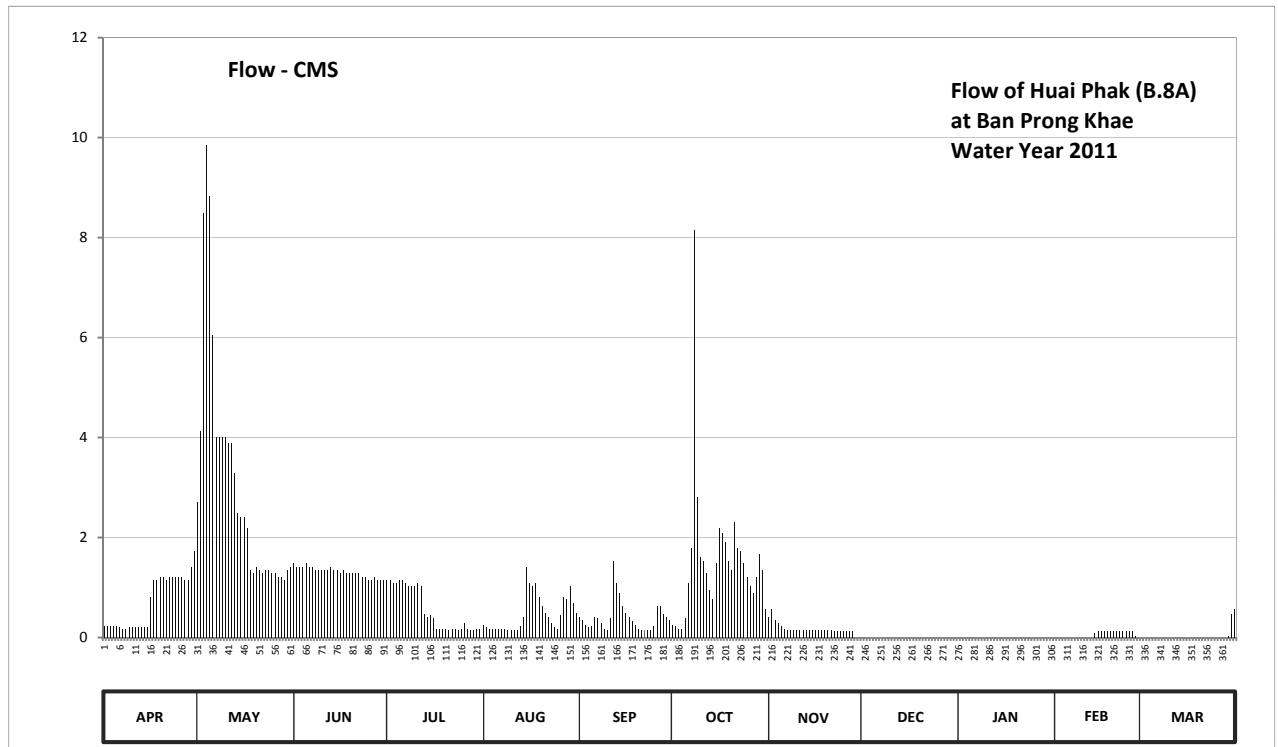
Lat 12 - 48 - 50 N Long 99 - 42 - 16 E

Location : on left bank at Ban Kariang.

	Ban	Prong Khae	Amphoe	Tha Yang	Changwat	Phetchaburi
Drainage Area	301	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+39.177	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	In front of gage observer's house.				Elevation	+47.485 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1973 to date					
Rating Operation						
Period of Rating	1973 to date					
Rated by Flot	-					
Rated by Current Meter	1973 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 22 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.91	40.29	40.15	40.10	39.92	39.97	39.92	39.97	39.76	39.76	39.76	39.76	
2	39.91	40.41	40.14	40.10	39.90	39.95	39.91	40.01	39.76	39.76	39.76	39.76	
3	39.91	40.70	40.14	40.09	39.88	39.92	39.88	39.95	39.76	39.76	39.76	39.76	
4	39.91	40.78	40.14	40.09	39.88	39.90	39.88	39.93	39.76	39.76	39.76	39.76	
5	39.91	40.72	40.15	40.10	39.88	39.91	39.96	39.91	39.76	39.76	39.76	39.76	
6	39.90	40.55	40.14	40.10	39.88	39.97	40.09	39.89	39.76	39.76	39.76	39.76	
7	39.89	40.40	40.14	40.09	39.88	39.96	40.20	39.87	39.76	39.76	39.76	39.76	
8	39.89	40.40	40.13	40.08	39.88	39.93	40.68	39.87	39.76	39.76	39.76	39.76	
9	39.90	40.40	40.13	40.08	39.87	39.89	40.30	39.87	39.76	39.76	39.76	39.76	
10	39.90	40.40	40.13	40.08	39.87	39.87	40.17	39.87	39.76	39.76	39.76	39.76	
11	39.90	40.39	40.13	40.09	39.87	39.96	40.16	39.87	39.76	39.76	39.76	39.76	
12	39.90	40.39	40.13	40.08	39.87	40.16	40.12	39.87	39.76	39.76	39.76	39.76	
13	39.90	40.34	40.14	39.99	39.91	40.09	40.07	39.87	39.76	39.76	39.76	39.76	
14	39.90	40.27	40.13	39.97	39.97	40.06	40.04	39.87	39.76	39.76	39.84	39.76	
15	39.90	40.26	40.13	39.98	40.14	40.02	40.15	39.87	39.76	39.76	39.86	39.76	
16	40.05	40.26	40.12	39.96	40.09	40.00	40.24	39.87	39.76	39.76	39.86	39.76	
17	40.10	40.24	40.13	39.89	40.08	39.97	40.23	39.87	39.76	39.76	39.86	39.76	
18	40.10	40.13	40.12	39.89	40.09	39.94	40.21	39.87	39.76	39.76	39.86	39.76	
19	40.11	40.12	40.12	39.88	40.05	39.92	40.16	39.87	39.76	39.76	39.86	39.76	
20	40.11	40.14	40.12	39.88	40.02	39.89	40.13	39.87	39.76	39.76	39.86	39.76	
21	40.10	40.13	40.12	39.87	40.00	39.87	40.25	39.87	39.76	39.76	39.86	39.76	
22	40.11	40.12	40.12	39.88	39.97	39.87	40.20	39.86	39.76	39.76	39.86	39.76	
23	40.11	40.13	40.11	39.88	39.93	39.87	40.19	39.86	39.76	39.76	39.86	39.76	
24	40.11	40.13	40.11	39.87	39.90	39.87	40.15	39.86	39.76	39.76	39.86	39.76	
25	40.11	40.12	40.10	39.89	39.88	39.91	40.11	39.86	39.76	39.76	39.86	39.76	
26	40.11	40.12	40.10	39.93	39.98	40.02	40.08	39.86	39.76	39.76	39.86	39.76	
27	40.10	40.11	40.11	39.89	40.05	40.02	40.06	39.86	39.76	39.76	39.81	39.76	
28	40.10	40.11	40.10	39.87	40.04	39.99	40.11	39.86	39.76	39.76	39.76	39.76	
29	40.14	40.10	40.10	39.87	40.08	39.97	40.18	39.79	39.76	39.76	39.76	39.81	
30	40.19	40.13	40.10	39.88	40.03	39.95	40.13	39.76	39.76	39.76		39.99	
31		40.14		39.88	40.00		40.01		39.76	39.76		40.01	
Mean	40.01	40.29	40.12	39.98	39.96	39.95	40.13	39.88	39.76	39.76	39.81	39.78	
Max	40.19	40.78	40.15	40.10	40.14	40.16	40.68	40.01	39.76	39.76	39.86	40.01	40.78
Min	39.89	40.10	40.10	39.87	39.87	39.87	39.88	39.76	39.76	39.76	39.76	39.76	39.76
Annual Max Momentary Gage Height	40.80		m. (MSL.) ,		at 08.00 Hours , on Oct 8 , 2011								
Zero Gage at Bottom Elevation	39.18		m. (MSL.) ,		River Bed		39.79		m. (MSL)				
Left Bank Elevation	45.14		m. (MSL.) ,										
Right Bank Elevation	45.26		m. (MSL.) ,		Drainage Area		301		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.23	2.70	1.48	1.15	0.26	0.41	0.26	0.41	0.00	0.00	0.00	0.00	
2	0.23	4.13	1.41	1.15	0.20	0.35	0.23	0.56	0.00	0.00	0.00	0.00	
3	0.23	8.50	1.41	1.08	0.16	0.26	0.16	0.35	0.00	0.00	0.00	0.00	
4	0.23	9.86	1.41	1.08	0.16	0.20	0.16	0.29	0.00	0.00	0.00	0.00	
5	0.23	8.84	1.48	1.15	0.16	0.23	0.38	0.23	0.00	0.00	0.00	0.00	
6	0.20	6.05	1.41	1.15	0.16	0.41	1.08	0.18	0.00	0.00	0.00	0.00	
7	0.18	4.00	1.41	1.08	0.16	0.38	1.80	0.14	0.00	0.00	0.00	0.00	
8	0.18	4.00	1.35	1.02	0.16	0.29	8.16	0.14	0.00	0.00	0.00	0.00	
9	0.20	4.00	1.35	1.02	0.14	0.18	2.80	0.14	0.00	0.00	0.00	0.00	
10	0.20	4.00	1.35	1.02	0.14	0.14	1.60	0.14	0.00	0.00	0.00	0.00	
11	0.20	3.88	1.35	1.08	0.14	0.38	1.54	0.14	0.00	0.00	0.00	0.00	
12	0.20	3.88	1.35	1.02	0.14	1.54	1.28	0.14	0.00	0.00	0.00	0.00	
13	0.20	3.28	1.41	0.47	0.23	1.08	0.95	0.14	0.00	0.00	0.00	0.00	
14	0.20	2.50	1.35	0.41	0.41	0.89	0.76	0.14	0.00	0.00	0.08	0.00	
15	0.20	2.40	1.35	0.44	1.41	0.63	1.48	0.14	0.00	0.00	0.12	0.00	
16	0.82	2.40	1.28	0.38	1.08	0.50	2.20	0.14	0.00	0.00	0.12	0.00	
17	1.15	2.20	1.35	0.18	1.02	0.41	2.10	0.14	0.00	0.00	0.12	0.00	
18	1.15	1.35	1.28	0.18	1.08	0.32	1.90	0.14	0.00	0.00	0.12	0.00	
19	1.22	1.28	1.28	0.16	0.82	0.26	1.54	0.14	0.00	0.00	0.12	0.00	
20	1.22	1.41	1.28	0.16	0.63	0.18	1.35	0.14	0.00	0.00	0.12	0.00	
21	1.15	1.35	1.28	0.14	0.50	0.14	2.30	0.14	0.00	0.00	0.12	0.00	
22	1.22	1.28	1.28	0.16	0.41	0.14	1.80	0.12	0.00	0.00	0.12	0.00	
23	1.22	1.35	1.22	0.16	0.29	0.14	1.73	0.12	0.00	0.00	0.12	0.00	
24	1.22	1.35	1.22	0.14	0.20	0.14	1.48	0.12	0.00	0.00	0.12	0.00	
25	1.22	1.28	1.15	0.18	0.16	0.23	1.22	0.12	0.00	0.00	0.12	0.00	
26	1.22	1.28	1.15	0.29	0.44	0.63	1.02	0.12	0.00	0.00	0.12	0.00	
27	1.15	1.22	1.22	0.18	0.82	0.63	0.89	0.12	0.00	0.00	0.02	0.00	
28	1.15	1.22	1.15	0.14	0.76	0.47	1.22	0.12	0.00	0.00	0.00	0.00	
29	1.41	1.15	1.15	0.14	1.02	0.41	1.67	0.00	0.00	0.00	0.00	0.02	
30	1.73	1.35	1.15	0.16	0.69	0.35	1.35	0.00	0.00	0.00	0.00	0.47	
31		1.41		0.16	0.50		0.56		0.00	0.00		0.56	
Total	21.36	94.90	39.31	17.23	14.45	12.32	46.97	4.96	0.00	0.00	1.54	1.05	254.09 CMSDAY
Mean	0.71	3.06	1.31	0.56	0.47	0.41	1.52	0.17	0.00	0.00	0.05	0.03	0.69 CMS
Max	1.73	9.86	1.48	1.15	1.41	1.54	8.16	0.56	0.00	0.00	0.12	0.56	9.86 CMS
Min	0.18	1.15	1.15	0.14	0.14	0.14	0.16	0.00	0.00	0.00	0.00	0.00	0.00 CMS
Runoff	1.85	8.20	3.40	1.49	1.25	1.06	4.06	0.43	0.00	0.00	0.13	0.09	21.95 MCM
Momentary Peak	10.20 CMS. at 40.80 m. (MSL.) at 08.00 Hours , on Oct 8 , 2011												
Runoff Yield	2.31	Liters/Second/Square KM.		Momentary Peak Yield		33.887	Liters/Second/Square KM.						

WATER YEAR : 2011**PHETCHABURI RIVER BASIN****Phetchaburi River at Ban Sarahed , Phetchaburi (B.9)**

Lat 12 - 48 - 18 N Long 99 - 46 - 27 E

Location : on left bank at Ban Sarahed.

	Ban	Sarahed	Amphoe	Tha Yang	Changwat	Phetchaburi
Drainage Area	2,617	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+25.317	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+32.512 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.76	27.00	27.01	27.43	28.17	27.51	28.89	27.73	27.52	27.84	28.06	28.19	
2	26.79	27.05	26.92	27.26	28.87	27.48	27.97	27.74	27.51	27.88	28.07	28.20	
3	27.20	27.71	26.84	27.24	28.86	27.48	27.90	27.74	27.32	28.03	28.11	28.20	
4	26.81	27.77	26.74	27.22	28.89	27.48	27.88	27.73	27.30	28.04	28.09	28.22	
5	26.62	27.32	26.76	27.23	29.12	27.65	27.89	27.74	27.30	27.76	28.10	28.19	
6	26.62	27.13	26.75	27.23	29.11	28.71	27.90	27.73	27.29	27.75	28.10	28.07	
7	26.62	26.99	26.71	27.21	29.04	27.84	27.91	27.74	27.29	27.76	28.11	28.06	
8	26.72	26.98	26.75	27.21	28.10	27.72	28.09	28.34	27.29	27.75	28.11	28.07	
9	27.19	26.99	26.86	27.21	28.00	27.65	27.96	28.47	27.27	27.75	28.11	28.05	
10	27.88	27.27	26.87	27.20	27.98	27.63	27.92	28.27	27.29	27.76	28.12	28.06	
11	27.86	27.18	26.86	27.19	27.98	27.68	27.93	27.85	27.24	27.78	28.11	28.09	
12	27.76	27.20	26.87	27.33	27.91	27.69	27.92	27.82	27.10	27.83	28.13	28.20	
13	27.77	27.18	26.91	27.40	27.92	27.67	27.90	27.82	27.08	27.85	28.13	28.25	
14	27.77	27.32	26.89	27.39	27.93	27.66	27.90	28.01	27.08	27.85	28.13	28.25	
15	27.51	27.33	26.89	27.63	27.96	27.65	27.80	28.06	27.34	27.85	28.13	28.26	
16	27.26	27.33	26.91	27.65	27.91	27.66	27.19	28.08	27.28	27.85	28.14	28.27	
17	27.06	27.29	26.92	27.65	27.87	27.69	26.99	28.08	27.30	27.85	27.99	28.27	
18	26.84	27.11	26.76	27.64	27.79	27.81	26.94	28.12	27.30	27.86	27.93	28.30	
19	26.81	26.93	26.88	27.65	27.76	27.81	26.86	28.02	27.29	27.87	27.94	28.27	
20	26.81	26.96	26.86	27.53	27.75	27.85	26.81	27.96	27.29	27.88	27.94	28.15	
21	26.80	26.89	26.72	27.64	27.75	27.84	26.87	27.86	27.29	27.89	27.94	28.13	
22	26.80	26.87	26.80	27.65	27.75	27.85	26.86	27.83	27.36	27.87	28.01	28.13	
23	26.91	26.87	26.89	27.43	27.74	27.85	26.84	27.79	27.30	27.76	28.02	28.13	
24	26.98	26.86	27.19	27.40	27.74	27.95	26.84	27.81	27.32	27.76	28.01	28.06	
25	26.88	26.86	27.50	27.41	27.74	27.68	26.83	27.82	27.32	27.76	28.12	28.14	
26	27.55	26.87	27.66	27.40	27.75	28.01	26.79	27.81	27.26	27.77	28.17	28.15	
27	26.99	27.00	27.68	27.39	27.77	29.15	27.51	27.76	27.27	27.77	28.18	28.16	
28	26.68	26.89	27.68	27.86	27.75	29.16	27.73	27.71	27.26	27.77	28.19	28.15	
29	26.80	26.88	27.67	27.86	27.66	29.16	27.74	27.47	27.24	27.78	28.19	28.18	
30	26.91	26.90	27.68	27.91	27.63	29.09	27.76	27.52	27.26	27.79		28.17	
31		26.98		27.91	27.63		27.75		27.26	27.80		28.18	
Mean	27.07	27.09	27.01	27.46	28.06	27.94	27.55	27.88	27.28	27.82	28.08	28.17	
Max	27.88	27.77	27.68	27.91	29.12	29.16	28.89	28.47	27.52	28.04	28.19	28.30	29.16
Min	26.62	26.86	26.71	27.19	27.63	27.48	26.79	27.47	27.08	27.75	27.93	28.05	26.62
Annual Max Momentary Gage Height	29.17		m. (MSL.) ,			at 18.00 Hours , on Sep 28 , 2011							
Zero Gage at Bottom Elevation	25.32		m. (MSL.) ,			River Bed	25.19	m. (MSL)					
Left Bank Elevation			31.87			m. (MSL.) ,							
Right Bank Elevation		32.10				m. (MSL.) ,							
Drainage Area						2617		Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.20	11.40	11.66	24.25	54.50	27.05	93.40	35.20	27.40	39.68	49.20	55.50	
2	6.80	12.70	9.48	18.72	92.20	26.00	45.21	35.60	27.05	41.36	49.65	56.00	
3	16.80	34.40	7.80	18.08	91.60	26.00	42.20	35.60	20.64	47.85	51.50	56.00	
4	7.20	36.80	5.80	17.44	93.40	26.00	41.36	35.20	20.00	48.30	50.55	57.00	
5	3.56	20.64	6.20	17.76	107.20	32.10	41.78	35.60	20.00	36.40	51.00	55.50	
6	3.56	14.84	6.00	17.76	106.60	82.60	42.20	35.20	19.68	36.00	51.00	49.65	
7	3.56	11.16	5.20	17.12	102.40	39.68	42.63	35.60	19.68	36.40	51.50	49.20	
8	5.40	10.92	6.00	17.12	51.00	34.80	50.55	63.00	19.68	36.00	51.50	49.65	
9	16.52	11.16	8.20	17.12	46.50	32.10	44.78	69.50	19.04	36.00	51.50	48.75	
10	41.36	19.04	8.40	16.80	45.64	31.34	43.06	59.50	19.68	36.40	52.00	49.20	
11	40.52	16.24	8.20	16.52	45.64	33.24	43.49	40.10	18.08	37.20	51.50	50.55	
12	36.40	16.80	8.40	20.96	42.63	33.62	43.06	38.84	14.00	39.26	52.50	56.00	
13	36.80	16.24	9.24	23.20	43.06	32.86	42.20	38.84	13.48	40.10	52.50	58.50	
14	36.80	20.64	8.80	22.88	43.49	32.48	42.20	46.95	13.48	40.10	52.50	58.50	
15	27.05	20.96	8.80	31.34	44.78	32.10	38.00	49.20	21.28	40.10	52.50	59.00	
16	18.72	20.96	9.24	32.10	42.63	32.48	16.52	50.10	19.36	40.10	53.00	59.50	
17	12.96	19.68	9.48	32.10	40.94	33.62	11.16	50.10	20.00	40.10	46.07	59.50	
18	7.80	14.28	6.20	31.72	37.60	38.42	9.96	52.00	20.00	40.52	43.49	61.00	
19	7.20	9.72	8.60	32.10	36.40	38.42	8.20	47.40	19.68	40.94	43.92	59.50	
20	7.20	10.44	8.20	27.75	36.00	40.10	7.20	44.78	19.68	41.36	43.92	53.50	
21	7.00	8.80	5.40	31.72	36.00	39.68	8.40	40.52	19.68	41.78	43.92	52.50	
22	7.00	8.40	7.00	32.10	36.00	40.10	8.20	39.26	21.92	40.94	46.95	52.50	
23	9.24	8.40	8.80	24.25	35.60	40.10	7.80	37.60	20.00	36.40	47.40	52.50	
24	10.92	8.20	16.52	23.20	35.60	44.35	7.80	38.42	20.64	36.40	46.95	49.20	
25	8.60	8.20	26.70	23.55	35.60	33.24	7.60	38.84	20.64	36.40	52.00	53.00	
26	28.45	8.40	32.48	23.20	36.00	46.95	6.80	38.42	18.72	36.80	54.50	53.50	
27	11.16	11.40	33.24	22.88	36.80	109.00	27.05	36.40	19.04	36.80	55.00	54.00	
28	4.64	8.80	33.24	40.52	36.00	109.60	35.20	34.40	18.72	36.80	55.50	53.50	
29	7.00	8.60	32.86	40.52	32.48	109.60	35.60	25.65	18.08	37.20	55.50	55.00	
30	9.24	9.00	33.24	42.63	31.34	105.40	36.40	27.40	18.72	37.60		54.50	
31		10.92											

WATER YEAR : 2011

PHETCHABURI RIVER BASIN

Phetchaburi River at Ban Tha Yang , Phetchaburi (B.10

Lat 12 - 58 - 21 N Long 99 - 53 - 07 W

Location : on left bank at the bridge of Ban Tha Yang.

	Ban	Tha Yang	Amphoe	Tha Yang	Changwat	Phetchaburi
Drainage Area	4,076	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+5.625	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 2 meters from the top staff gage.				Elevation	+15.068 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1983 to date					
Rating Operation						
Period of Rating	1985 to date					
Rated by Flot	-					
Rated by Current Meter	1985 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow regulated by Phet Dam.					
	Stage-discharge relation defined by 33 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.58	6.55	7.02	6.89	6.82	6.96	9.25	6.25	6.22	6.25	6.55	6.56	
2	6.57	6.56	7.05	6.71	6.88	6.74	8.91	6.16	6.21	6.26	6.55	6.57	
3	6.57	6.55	6.84	6.44	7.94	6.50	7.37	6.11	6.21	6.26	6.53	6.57	
4	6.58	6.63	6.67	6.38	8.58	6.40	6.67	6.06	6.17	6.34	6.60	6.60	
5	6.59	7.09	6.61	6.37	8.68	6.38	6.53	6.01	6.17	6.54	6.63	6.65	
6	6.58	7.11	6.62	6.38	8.82	6.54	6.52	6.01	6.17	6.42	6.61	6.73	
7	6.57	6.85	6.78	6.38	9.03	7.86	6.70	6.17	6.17	6.29	6.60	6.72	
8	6.56	6.69	6.94	6.38	8.97	7.18	7.25	6.18	6.16	6.26	6.59	6.68	
9	6.55	6.65	7.10	6.34	8.29	6.72	8.02	6.77	6.17	6.26	6.53	6.67	
10	6.55	6.60	7.11	6.32	7.10	6.52	7.94	7.23	6.18	6.26	6.48	6.67	
11	6.68	6.52	6.89	6.32	6.83	6.40	7.46	7.04	6.20	6.27	6.47	6.64	
12	6.73	6.49	6.77	6.32	6.76	6.50	7.37	6.25	6.31	6.27	6.48	6.61	
13	6.76	6.50	6.74	6.33	6.71	6.73	7.38	6.15	6.35	6.28	6.54	6.59	
14	6.75	6.49	6.80	6.33	6.74	6.73	7.46	6.14	6.32	6.28	6.71	6.58	
15	6.71	6.48	6.89	6.33	6.85	6.68	7.86	6.14	6.32	6.28	6.77	6.59	
16	6.63	6.49	6.92	6.34	7.02	6.72	8.67	6.18	6.42	6.29	6.92	6.60	
17	6.56	6.51	6.92	6.35	7.17	6.67	8.92	6.35	6.36	6.30	6.82	6.63	
18	6.54	6.69	6.97	6.35	7.26	6.64	8.37	6.43	6.28	6.31	6.68	6.74	
19	6.53	6.97	6.95	6.35	7.33	6.70	7.35	6.48	6.24	6.31	6.66	6.83	
20	6.53	7.08	6.95	6.48	7.37	6.67	7.02	6.43	6.24	6.32	6.74	6.82	
21	6.51	7.02	6.77	6.72	7.29	6.63	6.68	6.33	6.21	6.34	6.57	6.75	
22	6.50	6.89	6.60	6.84	7.24	6.69	6.59	6.28	6.24	6.48	6.51	6.66	
23	6.49	6.72	6.54	6.74	7.14	6.70	6.51	6.29	6.25	6.63	6.51	6.62	
24	6.51	6.58	6.43	6.53	6.75	6.65	6.39	6.27	6.25	6.59	6.51	6.61	
25	6.54	6.53	6.35	6.44	6.56	6.66	6.27	6.26	6.24	6.47	6.52	6.63	
26	6.50	6.53	6.35	6.42	6.62	6.77	6.15	6.27	6.25	6.40	6.53	6.64	
27	6.55	6.58	6.37	6.39	6.69	7.04	6.04	6.32	6.25	6.39	6.54	6.66	
28	6.68	6.69	6.41	6.41	6.80	8.43	6.05	6.32	6.24	6.40	6.55	6.68	
29	6.56	6.76	6.62	6.42	7.26	9.05	6.19	6.32	6.24	6.40	6.55	6.72	
30	6.54	6.79	6.80	6.52	7.53	9.27	6.32	6.24	6.24	6.42	6.79	6.79	
31		6.81		6.76	7.42		6.31		6.25	6.44		6.82	
Mean	6.58	6.69	6.76	6.46	7.37	6.94	7.18	6.31	6.24	6.36	6.59	6.67	
Max	6.76	7.11	7.11	6.89	9.03	9.27	9.25	7.23	6.42	6.63	6.92	6.83	9.27
Min	6.49	6.48	6.35	6.32	6.56	6.38	6.04	6.01	6.16	6.25	6.47	6.56	6.01
Annual Max Momentary Gage Height	9.32		m. (MSL.) , at 20.00 Hours , on Sep 30 , 2011										
Zero Gage at Bottom Elevation	5.63		m. (MSL.) , River Bed 4.85 m. (MSL)										
Left Bank Elevation	13.30		m. (MSL.) ,										
Right Bank Elevation	13.42		m. (MSL.) , Drainage Area 4076 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.14	9.75	16.94	14.73	13.54	15.92	72.35	5.85	5.46	5.85	9.75	9.88	
2	10.01	9.88	17.45	11.85	14.56	12.30	61.80	4.80	5.33	5.98	9.75	10.01	
3	10.01	9.75	13.88	8.32	35.96	9.10	23.40	4.30	5.33	5.98	9.49	10.01	
4	10.14	10.79	11.31	7.54	52.24	7.80	11.31	3.88	4.90	7.02	10.40	10.40	
5	10.27	18.13	10.53	7.41	55.04	7.54	9.49	3.48	4.90	9.62	10.79	11.05	
6	10.14	18.47	10.66	7.54	59.10	9.62	9.36	3.48	4.90	8.06	10.53	12.15	
7	10.01	14.05	12.90	7.54	65.40	34.04	11.70	4.90	4.90	6.37	10.40	12.00	
8	9.88	11.57	15.58	7.54	63.60	19.66	21.00	5.00	4.80	5.98	10.27	11.44	
9	9.75	11.05	18.30	7.02	44.36	12.00	37.88	12.75	4.90	5.98	9.49	11.31	
10	9.75	10.40	18.47	6.76	18.30	9.36	35.96	20.60	5.00	5.98	8.84	11.31	
11	11.44	9.36	14.73	6.76	13.71	7.80	25.20	17.28	5.20	6.11	8.71	10.92	
12	12.15	8.97	12.75	6.76	12.60	9.10	23.40	5.85	6.63	6.11	8.84	10.53	
13	12.60	9.10	12.30	6.89	11.85	12.15	23.60	4.70	7.15	6.24	9.62	10.27	
14	12.45	8.97	13.20	6.89	12.30	12.15	25.20	4.60	6.76	6.24	11.85	10.14	
15	11.85	8.84	14.73	6.89	14.05	11.44	34.04	4.60	6.76	6.24	12.75	10.27	
16	10.79	8.97	15.24	7.02	16.94	12.00	54.76	5.00	8.06	6.37	15.24	10.40	
17	9.88	9.23	15.24	7.15	19.49	11.31	62.10	7.15	7.28	6.50	13.54	10.79	
18	9.62	11.57	16.09	7.15	21.20	10.92	46.42	8.19	6.24	6.63	11.44	12.30	
19	9.49	16.09	15.75	7.15	22.60	11.70	23.00	8.84	5.72	6.63	11.18	13.71	
20	9.49	17.96	15.75	8.84	23.40	11.31	16.94	8.19	5.72	6.76	12.30	13.54	
21	9.23	16.94	12.75	12.00	21.80	10.79	11.44	6.89	5.33	7.02	10.01	12.45	
22	9.10	14.73	10.40	13.88	20.80	11.57	10.27	6.24	5.72	8.84	9.23	11.18	
23	8.97	12.00	9.62	12.30	18.98	11.70	9.23	6.37	5.85	10.79	9.23	10.66	
24	9.23	10.14	8.19	9.49	12.45	11.05	7.67	6.11	5.85	10.27	9.23	10.53	
25	9.62	9.49	7.15	8.32	9.88	11.18	6.11	5.98	5.72	8.71	9.36	10.79	
26	9.10	9.49	7.15	8.06	10.66	12.75	4.70	6.11	5.85	7.80	9.49	10.92	
27	9.75	10.14	7.41	7.67	11.57	17.28	3.72	6.76	5.85	7.67	9.62	11.18	
28	11.44	11.57	7.93	7.93	13.20	48.04	3.80	6.76	5.72	7.80	9.75	11.44	
29	9.88	12.60	10.66	8.06	21.20	66.00	5.10	6.76	5.72	7.80	9.75	12.00	
30	9.62	13.05	13.20	9.36	26.66	73.01	6.76	5.72	5.72	8.06		13.05	
31		13.37		12.60	24.40		6.63		5.85	8.32		13.54	
Total	305.80	366.42	386.26	267.42</									

WATER YEAR : 2011

PHETCHABURI RIVER BASIN

Huai Mae Prachan at Ban Cha Prong , Phetchaburi (B.11)

Lat 13 - 10 - 23 N Long 99 - 41 - 00 E

Location : on right bank at the bridge of Ban Cha Prong.

	Ban	Cha Prong	Amphoe	Nong Ya Plong	Changwat	Phetchaburi
Drainage Area	460	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+72.272	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 45 meters from the top staff gage.				Elevation	+78.722 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2000 to date					
Rating Operation						
Period of Rating	2000 to date					
Rated by Flot	-					
Rated by Current Meter	2000 to date					
Stability of Channel Regimes	Rather unstable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	71.91	72.05	72.15	71.97	71.91	72.30	71.91	71.89	71.86	71.87	71.88	72.07	
2	71.92	72.05	72.37	71.97	71.91	72.30	71.91	71.89	71.86	71.87	71.88	72.07	
3	71.92	72.06	72.54	71.97	71.90	72.30	71.92	71.88	71.86	71.87	71.88	72.07	
4	71.92	72.06	72.57	71.98	71.90	72.35	71.98	71.88	71.86	71.87	71.88	72.07	
5	71.91	72.06	72.61	71.99	71.90	72.37	71.94	71.88	71.86	71.87	71.88	72.07	
6	71.98	72.19	72.63	71.98	71.90	72.37	71.94	71.87	71.86	71.87	71.88	72.07	
7	72.03	72.15	72.64	71.97	71.89	72.29	72.00	71.87	71.85	71.87	71.88	72.06	
8	72.04	72.12	72.71	71.97	71.89	72.22	71.96	71.87	71.84	71.86	71.89	72.06	
9	72.05	72.12	72.77	71.96	71.89	72.14	71.94	71.87	71.84	71.86	72.11	72.06	
10	72.05	72.12	72.78	71.93	71.89	72.10	72.01	71.87	71.84	71.86	72.13	72.06	
11	72.05	72.12	72.76	71.93	71.89	71.97	72.13	71.87	71.84	71.86	72.13	72.06	
12	72.05	72.12	72.76	71.93	71.89	71.97	72.20	71.87	71.84	71.86	72.13	72.06	
13	72.05	72.12	72.74	71.91	71.89	71.94	72.58	71.86	71.84	71.86	72.13	72.06	
14	72.05	72.12	72.74	71.90	71.89	71.92	72.77	71.86	71.84	71.86	72.13	72.05	
15	72.05	72.16	72.73	71.89	71.91	71.92	72.80	71.85	71.84	71.86	72.10	72.04	
16	72.05	72.26	72.72	71.89	71.90	71.91	72.80	71.84	71.84	71.86	72.07	72.04	
17	72.05	72.44	72.71	71.89	71.90	71.91	72.76	71.84	71.91	71.85	72.07	72.04	
18	72.05	72.51	72.63	71.89	71.90	71.91	72.49	71.84	71.87	71.85	72.04	72.04	
19	72.05	72.41	72.22	71.89	71.96	71.91	72.41	71.84	71.89	72.15	71.91	72.04	
20	72.05	72.31	72.02	71.89	72.27	71.90	72.46	71.84	71.87	72.38	71.91	72.04	
21	72.05	72.16	72.01	71.89	72.27	71.90	72.46	71.84	71.87	72.32	71.90	72.04	
22	72.05	72.15	71.99	71.89	72.27	71.90	72.46	71.84	71.87	72.28	71.90	72.04	
23	72.05	72.15	71.99	71.89	72.27	71.90	72.45	71.84	71.87	72.15	71.95	72.04	
24	72.05	72.15	71.99	71.89	72.28	71.90	72.46	71.84	71.87	72.08	72.07	72.04	
25	72.05	72.14	71.98	71.89	72.29	71.93	72.46	71.85	71.87	72.10	72.07	72.04	
26	72.05	72.12	71.98	71.89	72.29	71.98	72.41	71.87	71.87	72.08	72.07	72.04	
27	72.05	72.12	71.98	71.89	72.29	71.96	72.31	71.86	71.87	71.90	72.07	72.04	
28	72.05	72.12	71.98	71.89	72.29	71.93	72.22	71.86	71.87	71.89	72.07	72.04	
29	72.05	72.12	71.97	71.89	72.30	71.92	72.01	72.00	71.87	71.88	72.07	72.04	
30	72.05	72.13	71.97	71.89	72.30	71.92	71.95	71.86	71.87	71.88		72.04	
31		72.15		71.89	72.30		71.91		71.87	71.88		72.03	
Mean	72.02	72.16	72.39	71.92	72.05	72.04	72.26	71.86	71.86	71.95	72.00	72.05	
Max	72.05	72.51	72.78	71.99	72.30	72.37	72.80	72.00	71.91	72.38	72.13	72.07	72.80
Min	71.91	72.05	71.97	71.89	71.89	71.90	71.91	71.84	71.84	71.85	71.88	72.03	71.84
Annual Max Momentary Gage Height	72.81		m. (MSL.) ,		at 11.00 Hours , on Oct 14 , 2011								
Zero Gage at Bottom Elevation	72.27		m. (MSL.) ,		River Bed	70.39	m. (MSL)						
Left Bank Elevation	79.37		m. (MSL.) ,										
Right Bank Elevation	79.11		m. (MSL.) ,		Drainage Area	460	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.33	1.05	2.15	0.51	0.33	4.50	0.33	0.28	0.24	0.26	0.27	1.23		
2	0.36	1.05	6.25	0.51	0.33	4.50	0.33	0.28	0.24	0.26	0.27	1.23		
3	0.36	1.14	10.62	0.51	0.30	4.50	0.36	0.27	0.24	0.26	0.27	1.23		
4	0.36	1.14	11.46	0.54	0.30	5.75	0.54	0.27	0.24	0.26	0.27	1.23		
5	0.33	1.14	12.65	0.57	0.30	6.25	0.42	0.27	0.24	0.26	0.27	1.23		
6	0.54	2.67	13.35	0.54	0.30	6.25	0.42	0.26	0.24	0.26	0.27	1.23		
7	0.87	2.15	13.70	0.51	0.28	4.33	0.60	0.26	0.22	0.26	0.27	1.14		
8	0.96	1.76	16.20	0.51	0.28	3.14	0.48	0.26	0.21	0.24	0.28	1.14		
9	1.05	1.76	18.60	0.48	0.28	2.02	0.42	0.26	0.21	0.24	1.63	1.14		
10	1.05	1.76	19.00	0.39	0.28	1.50	0.69	0.26	0.21	0.24	1.89	1.14		
11	1.05	1.76	18.20	0.39	0.28	0.51	1.89	0.26	0.21	0.24	1.89	1.14		
12	1.05	1.76	18.20	0.39	0.28	0.51	2.80	0.26	0.21	0.24	1.89	1.14		
13	1.05	1.76	17.40	0.33	0.28	0.42	11.74	0.24	0.21	0.24	1.89	1.14		
14	1.05	1.76	17.40	0.30	0.28	0.36	18.60	0.24	0.21	0.24	1.89	1.05		
15	1.05	2.28	17.00	0.28	0.33	0.36	19.80	0.22	0.21	0.24	1.50	0.96		
16	1.05	3.82	16.60	0.28	0.30	0.33	19.80	0.21	0.21	0.24	1.23	0.96		
17	1.05	8.00	16.20	0.28	0.30	0.33	18.20	0.21	0.33	0.22	1.23	0.96		
18	1.05	9.78	13.35	0.28	0.30	0.33	9.25	0.21	0.26	0.22	0.96	0.96		
19	1.05	7.25	3.14	0.28	0.48	0.33	7.25	0.21	0.28	2.15	0.33	0.96		
20	1.05	4.75	0.78	0.28	3.99	0.30	8.50	0.21	0.26	6.50	0.33	0.96		
21	1.05	2.28	0.69	0.28	3.99	0.30	8.50	0.21	0.26	5.00	0.30	0.96		
22	1.05	2.15	0.57	0.28	3.99	0.30	8.50	0.21	0.26	4.16	0.30	0.96		
23	1.05	2.15	0.57	0.28	3.99	0.30	8.25	0.21	0.26	2.15	0.45	0.96		
24	1.05	2.15	0.57	0.28	4.16	0.30	8.50	0.21	0.26	1.32	1.23	0.96		
25	1.05	2.02	0.54	0.28	4.33	0.39	8.50	0.22	0.26	1.50	1.23	0.96		
26	1.05	1.76	0.54	0.28	4.33	0.54	7.25	0.26	0.26	1.32	1.23	0.96		
27	1.05	1.76	0.54	0.28	4.33	0.48	4.75	0.24	0.26	0.30	1.23	0.96		
28	1.05	1.76	0.54	0.28	4.33	0.39	3.14	0.24	0.26	0.28	1.23	0.96		
29	1.05	1.76	0.51	0.28	4.50	0.36	0.69	0.60	0.26	0.27	1.23	0.96		
30	1.05	1.89	0.51	0.28	4.50	0.36	0.45	0.24	0.26	0.27		0.96		
31		2.15		0.28	4.50		0.33		0.26	0.27		0.87		
Total	27.21	80.37	267.83	11.24	56.75	50.24	181.28	7.58	7.54	29.91	27.26	32.64	779.85	CMSDAY
Mean	0.91	2.59	8.93	0.36	1.83	1.67	5							

WATER YEAR : 2011

WEST COAST - GULF BASIN

Khlong Thap Sakae at Ban Klang , Prachuap Khiri Khan (Gt.9)

Lat 11 - 29 - 40 N Long 99 - 36 - 20 E

Location : on right bank at Ban Klang.

	Ban	Klang	Amphoe	Thap Sakae	Changwat	Prachuap Khiri Khan
Drainage Area	125	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+6.843	m. (MSL.)				
Bench Mark	B.M.-Highways Dept.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+12.220 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1979 to date					
Rating Operation						
Period of Rating	1980 to date					
Rated by Flot	-					
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 21 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.22	7.19	7.42	7.41	8.09	7.47	7.56	7.64	7.52	7.34	7.54	7.36	
2	7.21	7.18	7.34	7.79	8.02	7.47	7.52	7.61	7.51	7.36	7.76	7.35	
3	7.21	7.16	7.30	8.03	7.87	7.58	7.47	7.57	7.51	7.46	7.68	7.36	
4	7.21	7.15	7.35	7.80	7.80	7.62	7.44	7.54	7.47	7.44	7.66	7.36	
5	7.21	7.14	7.34	7.69	7.75	7.58	7.45	7.53	7.45	7.39	7.58	7.36	
6	7.21	7.13	7.28	7.96	7.71	7.56	7.44	7.53	7.44	7.38	7.53	7.35	
7	7.21	7.12	7.27	7.84	7.67	7.54	7.51	7.52	7.44	7.37	7.50	7.35	
8	7.22	7.12	7.27	7.77	7.67	7.53	7.48	7.50	7.70	7.36	7.46	7.35	
9	7.22	7.13	7.27	7.70	7.65	7.53	7.49	7.48	8.09	7.34	7.44	7.35	
10	7.21	7.15	7.28	7.66	7.62	7.51	7.54	7.49	7.88	7.34	7.42	7.35	
11	7.21	7.20	7.28	7.64	7.62	7.51	7.60	7.49	7.73	7.34	7.41	7.50	
12	7.21	7.19	7.29	7.60	7.63	7.54	7.63	7.50	7.66	7.35	7.40	7.68	
13	7.21	7.19	7.28	7.60	7.62	7.55	7.68	7.84	7.61	7.35	7.40	7.55	
14	7.21	7.18	7.28	7.59	7.65	7.55	7.67	7.90	7.56	7.34	7.38	7.52	
15	7.21	7.22	7.28	7.58	7.64	7.53	7.67	7.74	7.55	7.33	7.38	7.46	
16	7.21	7.21	7.33	7.57	7.64	7.53	7.64	7.62	7.54	7.33	7.38	7.43	
17	7.20	7.20	7.30	7.56	7.63	7.58	7.64	7.62	7.52	7.33	7.37	7.39	
18	7.20	7.20	7.53	7.54	7.61	7.57	7.62	7.59	7.50	7.33	7.40	7.47	
19	7.21	7.22	7.66	7.52	7.59	7.56	7.63	7.56	7.49	7.35	7.43	7.42	
20	7.20	7.24	7.59	7.52	7.57	7.53	7.62	7.52	7.47	7.38	7.40	7.36	
21	7.20	7.22	7.54	7.51	7.58	7.54	7.61	7.50	7.46	7.37	7.38	7.35	
22	7.20	7.21	7.50	7.55	7.58	7.57	7.61	7.49	7.46	7.35	7.37	7.36	
23	7.20	7.21	7.43	7.60	7.55	7.61	7.61	7.47	7.45	7.34	7.37	7.35	
24	7.19	7.21	7.39	7.67	7.52	7.67	7.61	7.46	7.43	7.34	7.36	7.35	
25	7.19	7.21	7.37	7.73	7.50	7.65	7.55	7.47	7.41	7.34	7.36	7.34	
26	7.18	7.20	7.35	7.75	7.46	7.63	7.52	7.47	7.40	7.32	7.36	7.34	
27	7.18	7.20	7.37	7.72	7.46	7.61	7.66	7.53	7.42	7.32	7.36	7.34	
28	7.17	7.20	7.34	7.68	7.45	7.59	7.88	7.54	7.41	7.32	7.36	7.34	
29	7.17	7.29	7.29	7.64	7.47	7.58	7.79	7.55	7.35	7.31	7.36	7.34	
30	7.16	7.38	7.28	7.73	7.46	7.67	7.72	7.56	7.34	7.41		7.34	
31		7.58		7.88	7.47		7.67		7.34	7.54		7.33	
Mean	7.20	7.21	7.36	7.67	7.63	7.57	7.60	7.56	7.52	7.36	7.44	7.39	
Max	7.22	7.58	7.66	8.03	8.09	7.67	7.88	7.90	8.09	7.54	7.76	7.68	8.09
Min	7.16	7.12	7.27	7.41	7.45	7.47	7.44	7.46	7.34	7.31	7.36	7.33	7.12
Annual Max Momentary Gage Height	8.29		m. (MSL.) , at 10.00 Hours , on Dec 9 , 2011										
Zero Gage at Bottom Elevation	6.84		m. (MSL.) , River Bed 6.85 m. (MSL)										
Left Bank Elevation	11.34		m. (MSL.) ,										
Right Bank Elevation	11.35		m. (MSL.) , Drainage Area 125 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.01	0.00	0.10	0.09	5.29	0.19	0.41	0.74	0.30	0.05	0.36	0.05		
2	0.00	0.00	0.05	2.44	4.21	0.19	0.30	0.58	0.27	0.05	2.37	0.05		
3	0.00	0.00	0.03	4.36	2.63	0.47	0.19	0.44	0.27	0.17	0.95	0.05		
4	0.00	0.00	0.05	2.46	2.46	0.63	0.14	0.36	0.19	0.14	0.84	0.05		
5	0.00	0.00	0.05	1.00	2.34	0.47	0.15	0.33	0.15	0.07	0.47	0.05		
6	0.00	0.00	0.02	3.42	2.25	0.41	0.14	0.33	0.14	0.06	0.33	0.05		
7	0.00	0.00	0.02	2.56	0.89	0.36	0.27	0.30	0.14	0.06	0.24	0.05		
8	0.01	0.00	0.02	2.39	0.89	0.33	0.21	0.24	1.05	0.05	0.17	0.05		
9	0.01	0.00	0.02	1.05	0.79	0.33	0.22	0.21	5.29	0.05	0.14	0.05		
10	0.00	0.00	0.02	0.84	0.63	0.27	0.36	0.22	2.65	0.05	0.10	0.05		
11	0.00	0.00	0.02	0.74	0.63	0.27	0.53	0.22	2.30	0.05	0.09	0.24		
12	0.00	0.00	0.03	0.53	0.69	0.36	0.69	0.24	0.84	0.05	0.07	0.95		
13	0.00	0.00	0.02	0.53	0.63	0.39	0.95	2.56	0.58	0.05	0.07	0.39		
14	0.00	0.00	0.02	0.50	0.79	0.39	0.89	2.70	0.41	0.05	0.06	0.30		
15	0.00	0.01	0.02	0.47	0.74	0.33	0.89	2.32	0.39	0.04	0.06	0.17		
16	0.00	0.00	0.04	0.44	0.74	0.33	0.74	0.63	0.36	0.04	0.06	0.12		
17	0.00	0.00	0.03	0.41	0.69	0.47	0.74	0.63	0.30	0.04	0.06	0.07		
18	0.00	0.00	0.33	0.36	0.58	0.44	0.63	0.50	0.24	0.04	0.07	0.19		
19	0.00	0.01	0.84	0.30	0.50	0.41	0.69	0.41	0.22	0.05	0.12	0.10		
20	0.00	0.01	0.50	0.30	0.44	0.33	0.63	0.30	0.19	0.06	0.07	0.05		
21	0.00	0.01	0.36	0.27	0.47	0.36	0.58	0.24	0.17	0.06	0.06	0.05		
22	0.00	0.00	0.24	0.39	0.47	0.44	0.58	0.22	0.17	0.05	0.06	0.05		
23	0.00	0.00	0.12	0.53	0.39	0.58	0.58	0.19	0.15	0.05	0.06	0.05		
24	0.00	0.00	0.07	0.89	0.30	0.89	0.58	0.17	0.12	0.05	0.05	0.05		
25	0.00	0.00	0.06	2.30	0.24	0.79	0.39	0.19	0.09	0.05	0.05	0.05		
26	0.00	0.00	0.05	2.34	0.17	0.69	0.30	0.19	0.07	0.04	0.05	0.05		
27	0.00	0.00	0.06	2.27	0.17	0.58	0.84	0.33	0.10	0.04	0.05	0.05		
28	0.00	0.00	0.05	0.95	0.15	0.50	2.65	0.36	0.09	0.04	0.05	0.05		
29	0.00	0.03	0.03	0.74	0.19	0.47	2.44	0.39	0.05	0.03	0.05	0.05		
30	0.00	0.06	0.02	2.30	0.17	0.89	2.27	0.41	0.05	0.09		0.05		
31		0.47		2.65	0.19		0.89		0.05	0.36		0.04		
Total	0.03	0.60	3.29	40.82	31.72	13.56	21.87	16.95	17.39	2.08	7.18	3.62	159.11	CMSDAY
Mean	0.00	0.02	0.11	1.32	1.02	0.45	0.71	0.56	0.56	0				

WATER YEAR : 2011

WEST COAST - GULF BASIN

Khlong Krut at Ban Nong Ya Plong , Prachuap Khiri Khan (Gt.10)

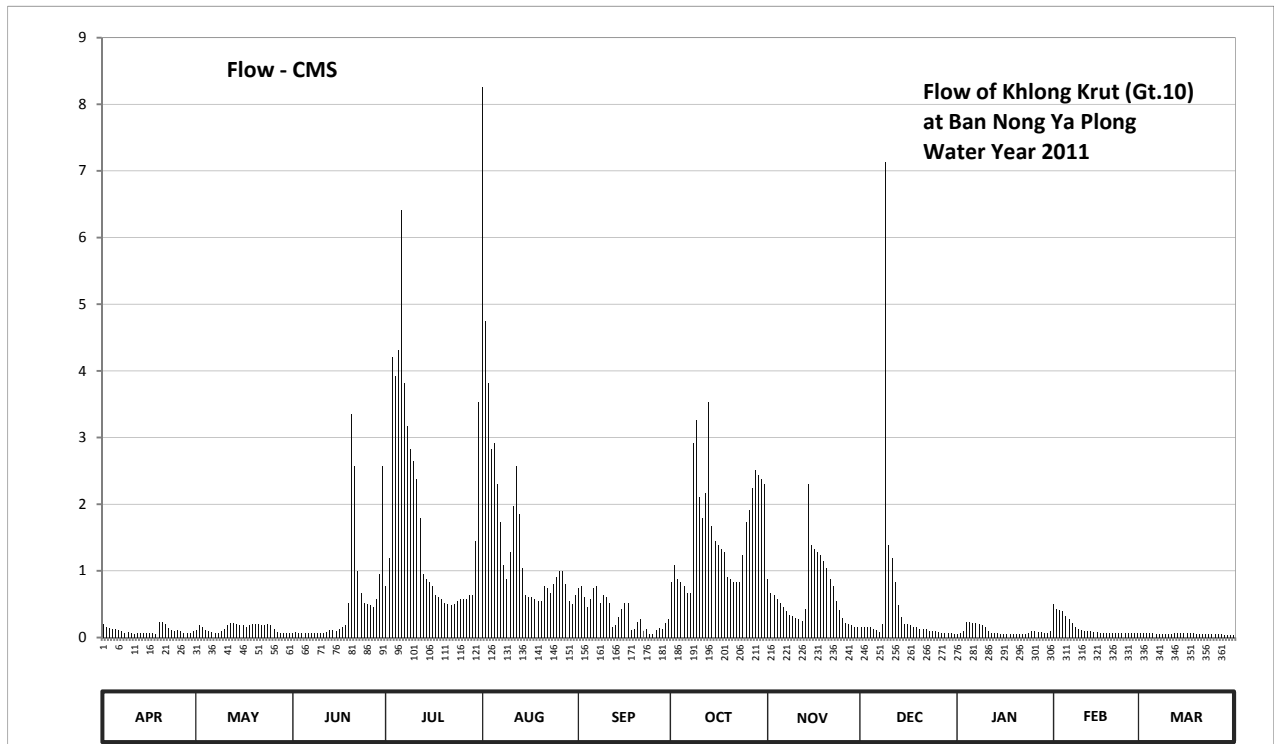
Lat 11 - 24 - 08 N Long 99 - 31 - 18 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 379.

	Ban	Nong Ya Plong	Amphoe	Bang Saphan	Changwat	Prachuap Khiri Khan
Drainage Area	113	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+25.364	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+30.364 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1979 to date					
Rating Operation						
Period of Rating	1980 to date					
Rated by Flot	-					
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 48 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.12	24.05	24.00	24.36	25.17	24.35	24.38	24.39	24.09	23.98	24.27	23.99	
2	24.09	24.11	24.02	24.46	24.92	24.36	24.44	24.33	24.09	23.99	24.24	23.99	
3	24.08	24.09	24.01	24.87	24.83	24.31	24.39	24.32	24.09	24.04	24.23	23.99	
4	24.07	24.05	24.01	24.84	24.72	24.25	24.38	24.30	24.09	24.14	24.22	23.99	
5	24.07	24.03	24.00	24.88	24.73	24.30	24.36	24.28	24.06	24.14	24.19	23.99	
6	24.05	24.02	24.00	25.05	24.65	24.35	24.33	24.25	24.05	24.13	24.16	23.98	
7	24.03	24.01	23.99	24.83	24.56	24.36	24.33	24.22	24.02	24.13	24.13	23.98	
8	24.01	24.01	23.99	24.76	24.44	24.28	24.73	24.20	24.12	24.12	24.09	23.98	
9	24.02	24.04	24.00	24.72	24.39	24.32	24.77	24.19	25.10	24.11	24.06	23.97	
10	24.01	24.07	24.01	24.70	24.48	24.31	24.62	24.17	24.50	24.10	24.05	23.96	
11	23.98	24.11	24.01	24.66	24.60	24.28	24.57	24.16	24.46	24.03	24.04	23.96	
12	23.99	24.13	24.02	24.57	24.69	24.10	24.63	24.15	24.38	24.00	24.04	24.01	
13	24.01	24.13	24.05	24.41	24.58	24.11	24.80	24.24	24.26	23.99	24.03	24.01	
14	24.01	24.12	24.05	24.39	24.43	24.18	24.55	24.65	24.18	23.99	24.02	24.00	
15	24.00	24.11	24.04	24.38	24.32	24.24	24.51	24.50	24.12	23.98	24.02	24.00	
16	23.99	24.11	24.07	24.36	24.31	24.28	24.50	24.49	24.12	23.98	24.01	24.00	
17	23.99	24.10	24.10	24.32	24.31	24.28	24.49	24.48	24.11	23.97	24.01	23.99	
18	23.98	24.11	24.11	24.31	24.30	24.05	24.48	24.47	24.10	23.97	24.01	23.99	
19	24.14	24.12	24.28	24.30	24.29	24.07	24.40	24.45	24.09	23.97	24.00	23.98	
20	24.14	24.12	24.78	24.28	24.29	24.14	24.39	24.43	24.07	23.96	24.00	23.98	
21	24.12	24.12	24.69	24.27	24.36	24.16	24.38	24.39	24.06	23.96	24.00	23.97	
22	24.08	24.11	24.42	24.26	24.35	24.04	24.38	24.36	24.06	23.96	24.01	23.96	
23	24.05	24.11	24.33	24.27	24.33	24.06	24.38	24.29	24.04	23.97	24.01	23.96	
24	24.03	24.12	24.28	24.29	24.37	23.98	24.47	24.23	24.04	24.01	24.00	23.96	
25	24.05	24.11	24.27	24.30	24.40	23.96	24.56	24.17	24.03	24.03	24.00	23.96	
26	24.04	24.07	24.26	24.30	24.42	24.05	24.59	24.13	24.02	24.03	24.00	23.96	
27	24.01	24.02	24.25	24.30	24.42	24.08	24.64	24.12	24.01	24.02	24.00	23.95	
28	24.00	23.99	24.30	24.32	24.37	24.07	24.68	24.11	24.01	24.02	24.00	23.94	
29	24.00	24.00	24.41	24.32	24.29	24.13	24.67	24.09	24.01	24.00	24.00	23.94	
30	24.03	24.01	24.69	24.51	24.27	24.16	24.66	24.09	23.99	23.99		23.93	
31		24.01		24.80	24.32		24.65		23.98	24.03		23.93	
Mean	24.04	24.07	24.18	24.50	24.48	24.19	24.52	24.29	24.14	24.02	24.06	23.97	
Max	24.14	24.13	24.78	25.05	25.17	24.36	24.80	24.65	25.10	24.14	24.27	24.01	25.17
Min	23.98	23.99	23.99	24.26	24.27	23.96	24.33	24.09	23.98	23.96	24.00	23.93	23.93
Annual Max Momentary Gage Height	25.37		m. (MSL.) , at 11.00 Hours , on Dec 9 , 2011										
Zero Gage at Bottom Elevation	25.36		m. (MSL.) , River Bed 23.63 m. (MSL)										
Left Bank Elevation	29.30		m. (MSL.) ,										
Right Bank Elevation	30.65		m. (MSL.) , Drainage Area 113 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.11	0.06	0.77	8.26	0.74	0.83	0.87	0.15	0.05	0.50	0.06	
2	0.15	0.18	0.08	1.19	4.74	0.77	1.09	0.67	0.15	0.06	0.43	0.06	
3	0.14	0.15	0.07	4.21	3.82	0.60	0.87	0.64	0.15	0.10	0.41	0.06	
4	0.13	0.11	0.07	3.92	2.82	0.46	0.83	0.57	0.15	0.23	0.39	0.06	
5	0.13	0.09	0.06	4.31	2.91	0.57	0.77	0.52	0.12	0.23	0.32	0.06	
6	0.11	0.08	0.06	6.41	2.30	0.74	0.67	0.46	0.11	0.21	0.27	0.05	
7	0.09	0.07	0.06	3.82	1.73	0.77	0.67	0.39	0.08	0.21	0.21	0.05	
8	0.07	0.07	0.06	3.17	1.09	0.52	2.91	0.34	0.20	0.20	0.15	0.05	
9	0.08	0.10	0.06	2.82	0.87	0.64	3.26	0.32	7.13	0.18	0.12	0.05	
10	0.07	0.13	0.07	2.64	1.28	0.60	2.10	0.29	1.38	0.16	0.11	0.05	
11	0.05	0.18	0.07	2.37	1.97	0.52	1.79	0.27	1.19	0.09	0.10	0.05	
12	0.06	0.21	0.08	1.79	2.57	0.16	2.17	0.25	0.83	0.06	0.10	0.07	
13	0.07	0.21	0.11	0.95	1.85	0.18	3.53	0.43	0.48	0.06	0.09	0.07	
14	0.07	0.20	0.11	0.87	1.04	0.30	1.67	2.30	0.30	0.06	0.08	0.06	
15	0.06	0.18	0.10	0.83	0.64	0.43	1.44	1.38	0.20	0.05	0.08	0.06	
16	0.06	0.18	0.13	0.77	0.60	0.52	1.38	1.33	0.20	0.05	0.07	0.06	
17	0.06	0.16	0.16	0.64	0.60	0.52	1.33	1.28	0.18	0.05	0.07	0.06	
18	0.05	0.18	0.18	0.60	0.57	0.11	1.28	1.24	0.16	0.05	0.07	0.06	
19	0.23	0.20	0.52	0.57	0.55	0.13	0.90	1.14	0.15	0.05	0.06	0.05	
20	0.23	0.20	3.35	0.52	0.55	0.23	0.87	1.04	0.13	0.05	0.06	0.05	
21	0.20	0.20	2.57	0.50	0.77	0.27	0.83	0.87	0.12	0.05	0.06	0.05	
22	0.14	0.18	1.00	0.48	0.74	0.10	0.83	0.77	0.12	0.05	0.07	0.05	
23	0.11	0.18	0.67	0.50	0.67	0.12	0.83	0.55	0.10	0.05	0.07	0.05	
24	0.09	0.20	0.52	0.55	0.80	0.05	1.24	0.41	0.10	0.07	0.06	0.05	
25	0.11	0.18	0.50	0.57	0.90	0.05	1.73	0.29	0.09	0.09	0.06	0.05	
26	0.10	0.13	0.48	0.57	1.00	0.11	1.91	0.21	0.08	0.09	0.06	0.05	
27	0.07	0.08	0.46	0.57	1.00	0.14	2.24	0.20	0.07	0.08	0.06	0.05	
28	0.06	0.06	0.57	0.64	0.80	0.13	2.51	0.18	0.07	0.08	0.06	0.04	
29	0.06	0.06	0.95	0.64	0.55	0.21	2.44	0.15	0.07	0.06	0.06	0.04	
30	0.09	0.07	2.57	1.44	0.50	0.27	2.37	0.15	0.06	0.06		0.04	
31		0.07		3.53	0.64		2.30		0.05	0.09		0.04	
Total	3.14	4.40	15.75	53.16	49.13	10.96	49.59	19.51	14.37	2.97	4.25	1.65	228.88 CMSDAY
Mean	0.10	0.14	0.52	1.71	1.58	0.37	1.60	0.65	0.46	0.10	0.15	0.05	0.63 CMS
Max	0.23	0.21	3.35	6.41	8.26	0.77	3.53	2.30	7.13	0.23	0.50	0.07	8.26 CMS
Min	0.05	0.06	0.06	0.48	0.50	0.05	0.67	0.15	0.05	0.05	0.06	0.04	0.04 CMS
Runoff	0.27	0.38	1.36	4.59	4.25	0.95	4.29	1.69	1.24	0.26	0.37	0.14	19.78 MCM
Momentary Peak	12.07	CMS. at 25.37 m. (MSL.) at 11.00 Hours , on Dec 9 , 2011											
Runoff Yield	5.53	Liters/Second/Square KM.			Momentary Peak Yield			106.814	Liters/Second/Square KM.				

WATER YEAR : 2011

WEST COAST - GULF BASIN

Khlong Yai at Ban Chang Laek , Prachuap Khiri Khan (Gt.11)

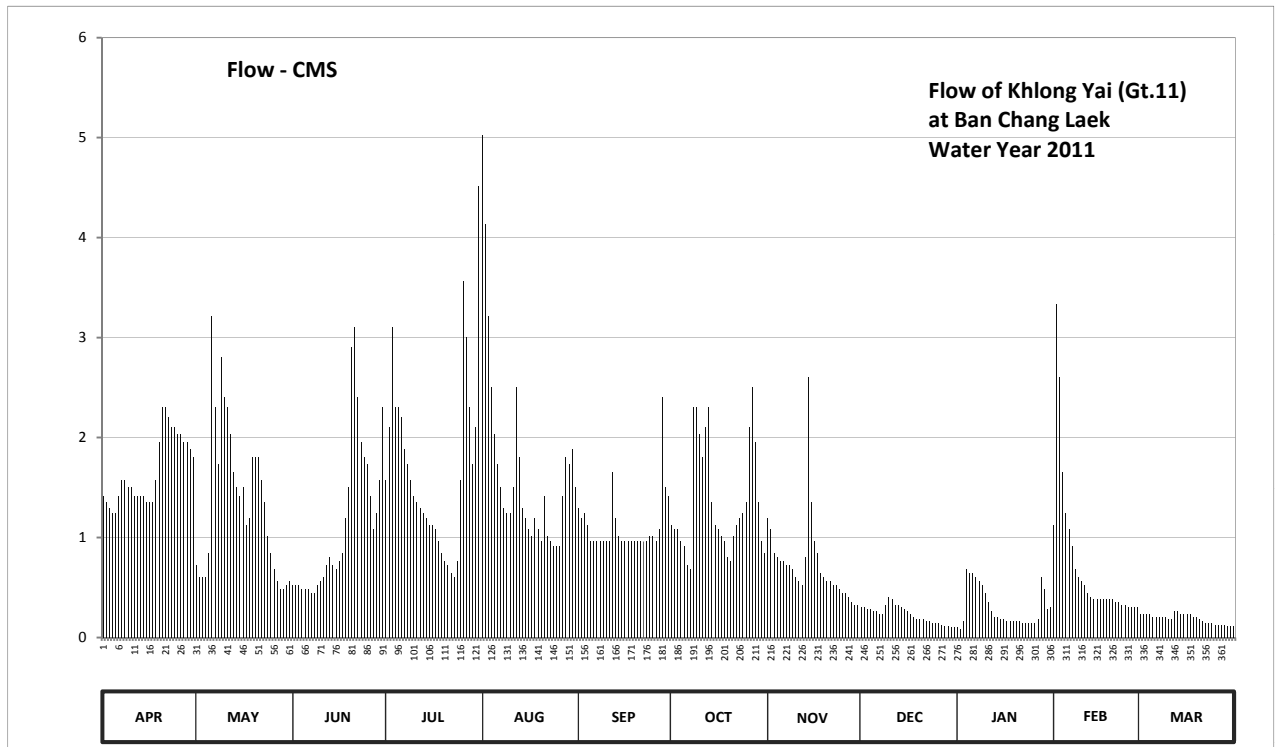
Lat 11 - 03 - 44 N Long 99 - 22 - 30 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 423.

	Ban	Chang Laek	Amphoe	Bang Saphan Noi	Changwat	Prachuap Khiri Khan
Drainage Area	61	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+36.375	m. (MSL.)				
Bench Mark	B.M.-	Highways Dept.				
Location BM	On right bank at the abutment of the bridge.				Elevation	+45.340 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1979 to date					
Rating Operation						
Period of Rating	1980 to date					
Rated by Flot	-					
Rated by Current Meter	1980 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 52 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.51	37.38	37.33	37.53	37.86	37.49	37.46	37.47	37.26	37.16	37.46	37.23	
2	37.50	37.35	37.33	37.60	37.79	37.47	37.45	37.45	37.26	37.15	37.72	37.23	
3	37.49	37.35	37.33	37.70	37.71	37.48	37.45	37.41	37.25	37.20	37.65	37.23	
4	37.48	37.35	37.32	37.62	37.64	37.46	37.43	37.40	37.25	37.37	37.54	37.23	
5	37.48	37.41	37.32	37.62	37.59	37.43	37.42	37.39	37.24	37.36	37.48	37.22	
6	37.51	37.71	37.32	37.61	37.55	37.43	37.38	37.39	37.24	37.36	37.45	37.22	
7	37.53	37.62	37.31	37.57	37.52	37.43	37.37	37.38	37.23	37.35	37.42	37.22	
8	37.53	37.55	37.31	37.55	37.49	37.43	37.62	37.38	37.23	37.34	37.37	37.22	
9	37.52	37.67	37.33	37.53	37.48	37.43	37.62	37.37	37.27	37.33	37.35	37.22	
10	37.52	37.63	37.34	37.51	37.48	37.43	37.59	37.35	37.30	37.31	37.34	37.21	
11	37.51	37.62	37.35	37.50	37.52	37.43	37.56	37.34	37.29	37.28	37.33	37.21	
12	37.51	37.59	37.38	37.49	37.64	37.54	37.60	37.33	37.27	37.24	37.31	37.24	
13	37.51	37.54	37.40	37.48	37.56	37.47	37.62	37.40	37.27	37.22	37.30	37.24	
14	37.51	37.52	37.38	37.47	37.49	37.44	37.50	37.65	37.26	37.22	37.29	37.23	
15	37.50	37.51	37.37	37.46	37.47	37.43	37.46	37.50	37.25	37.21	37.29	37.23	
16	37.50	37.52	37.39	37.46	37.45	37.43	37.45	37.43	37.24	37.21	37.29	37.23	
17	37.50	37.46	37.41	37.45	37.44	37.43	37.44	37.41	37.23	37.20	37.29	37.23	
18	37.53	37.47	37.47	37.43	37.47	37.43	37.43	37.36	37.22	37.20	37.29	37.22	
19	37.58	37.56	37.52	37.41	37.45	37.43	37.40	37.35	37.21	37.20	37.29	37.22	
20	37.62	37.56	37.68	37.39	37.43	37.43	37.39	37.34	37.21	37.20	37.29	37.21	
21	37.62	37.56	37.70	37.38	37.51	37.43	37.44	37.34	37.21	37.20	37.28	37.20	
22	37.61	37.53	37.63	37.36	37.44	37.43	37.46	37.33	37.20	37.19	37.28	37.19	
23	37.60	37.50	37.58	37.35	37.43	37.43	37.47	37.33	37.20	37.19	37.27	37.19	
24	37.60	37.44	37.56	37.39	37.42	37.44	37.48	37.32	37.19	37.19	37.27	37.19	
25	37.59	37.41	37.55	37.53	37.42	37.44	37.50	37.31	37.19	37.19	37.26	37.18	
26	37.59	37.37	37.51	37.74	37.42	37.43	37.60	37.31	37.19	37.19	37.26	37.18	
27	37.58	37.34	37.45	37.69	37.51	37.45	37.64	37.30	37.18	37.21	37.26	37.18	
28	37.58	37.32	37.48	37.62	37.56	37.63	37.58	37.28	37.17	37.35	37.26	37.18	
29	37.57	37.32	37.53	37.55	37.55	37.52	37.50	37.27	37.17	37.32	37.26	37.17	
30	37.56	37.33	37.62	37.60	37.57	37.51	37.43	37.27	37.16	37.25		37.17	
31		37.34		37.82	37.52		37.41		37.16	37.26		37.17	
Mean	37.54	37.48	37.44	37.53	37.53	37.45	37.49	37.37	37.23	37.25	37.35	37.21	
Max	37.62	37.71	37.70	37.82	37.86	37.63	37.64	37.65	37.30	37.37	37.72	37.24	37.86
Min	37.48	37.32	37.31	37.35	37.42	37.43	37.37	37.27	37.16	37.15	37.26	37.17	37.15
Annual Max Momentary Gage Height	38.07		m. (MSL.) ,		at 23.00 Hours , on May 6 , 2011								
Zero Gage at Bottom Elevation	36.38		m. (MSL.) ,		River Bed	36.70	m. (MSL)						
Left Bank Elevation	44.68		m. (MSL.) ,										
Right Bank Elevation	45.62		m. (MSL.) ,		Drainage Area	61	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.42	0.72	0.52	1.57	5.03	1.30	1.13	1.19	0.30	0.10	1.13	0.23		
2	1.35	0.60	0.52	2.10	4.14	1.19	1.08	1.08	0.30	0.08	3.33	0.23		
3	1.30	0.60	0.52	3.10	3.21	1.24	1.08	0.85	0.28	0.16	2.60	0.23		
4	1.24	0.60	0.48	2.30	2.50	1.13	0.96	0.80	0.28	0.68	1.65	0.23		
5	1.24	0.85	0.48	2.30	2.03	0.96	0.91	0.76	0.26	0.64	1.24	0.21		
6	1.42	3.21	0.48	2.20	1.73	0.96	0.72	0.76	0.26	0.64	1.08	0.21		
7	1.57	2.30	0.44	1.88	1.50	0.96	0.68	0.72	0.23	0.60	0.91	0.21		
8	1.57	1.73	0.44	1.73	1.30	0.96	2.30	0.72	0.23	0.56	0.68	0.21		
9	1.50	2.80	0.52	1.57	1.24	0.96	2.30	0.68	0.33	0.52	0.60	0.21		
10	1.50	2.40	0.56	1.42	1.24	0.96	2.03	0.60	0.40	0.44	0.56	0.18		
11	1.42	2.30	0.60	1.35	1.50	0.96	1.80	0.56	0.38	0.35	0.52	0.18		
12	1.42	2.03	0.72	1.30	2.50	1.65	2.10	0.52	0.33	0.26	0.44	0.26		
13	1.42	1.65	0.80	1.24	1.80	1.19	2.30	0.80	0.33	0.21	0.40	0.26		
14	1.42	1.50	0.72	1.19	1.30	1.02	1.35	2.60	0.30	0.21	0.38	0.23		
15	1.35	1.42	0.68	1.13	1.19	0.96	1.13	1.35	0.28	0.18	0.38	0.23		
16	1.35	1.50	0.76	1.13	1.08	0.96	1.08	0.96	0.26	0.18	0.38	0.23		
17	1.35	1.13	0.85	1.08	1.02	0.96	1.02	0.85	0.23	0.16	0.38	0.23		
18	1.57	1.19	1.19	0.96	1.19	0.96	0.96	0.64	0.21	0.16	0.38	0.21		
19	1.95	1.80	1.50	0.85	1.08	0.96	0.80	0.60	0.18	0.16	0.38	0.21		
20	2.30	1.80	2.90	0.76	0.96	0.96	0.76	0.56	0.18	0.16	0.38	0.18		
21	2.30	1.80	3.10	0.72	1.42	0.96	1.02	0.56	0.18	0.16	0.35	0.16		
22	2.20	1.57	2.40	0.64	1.02	0.96	1.13	0.52	0.16	0.14	0.35	0.14		
23	2.10	1.35	1.95	0.60	0.96	0.96	1.19	0.52	0.16	0.14	0.33	0.14		
24	2.10	1.02	1.80	0.76	0.91	1.02	1.24	0.48	0.14	0.14	0.33	0.14		
25	2.03	0.85	1.73	1.57	0.91	1.02	1.35	0.44	0.14	0.14	0.30	0.13		
26	2.03	0.68	1.42	3.56	0.91	0.96	2.10	0.44	0.14	0.14	0.30	0.13		
27	1.95	0.56	1.08	3.00	1.42	1.08	2.50	0.40	0.13	0.18	0.30	0.13		
28	1.95	0.48	1.24	2.30	1.80	2.40	1.95	0.35	0.11	0.60	0.30	0.13		
29	1.88	0.48	1.57	1.73	1.73	1.50	1.35	0.33	0.11	0.48	0.30	0.11		
30	1.80	0.52	2.30	2.10	1.88	1.42	0.96	0.33	0.10	0.28		0.11		
31		0.56		4.51	1.50		0.85		0.10	0.30		0.11		
Total	50.00	42.00	34.27	52.65	52.00	33.48	42.13	21.97	7.02	9.15	20.66	5.80	371.13	CMSDAY
Mean	1.67	1.35	1.14	1.70	1.68	1.12	1.36	0.73	0.23	0.30	0.71	0.19	1.01	CMS
Max	2.30	3.21	3.10	4.51	5.03	2.40	2.50	2.60	0.40	0.68	3.33	0.26	5.03	CMS
Min	1.24	0.48	0.44	0.60	0.91	0.96	0.68	0.33	0.10	0.08	0.30	0.11	0.08	CMS
Runoff	4.32	3.63	2.96	4.55	4.49	2.89	3.64	1.90	0.61	0.79	1.79	0.50	32.07	MCM
Momentary Peak	8.26 CMS. at 38.07 m. (MSL.) at 23.00 Hours , on May 6 , 2011													
Runoff Yield	16.62	Liters/Second/Square KM.			Momentary Peak Yield			135.41	Liters/Second/Square KM.					

WATER YEAR : 2011

WEST COAST - GULF BASIN

Huai Sai at Ban Suan Son Huai Sai , Prachuap Khiri Khan (Gt.15)

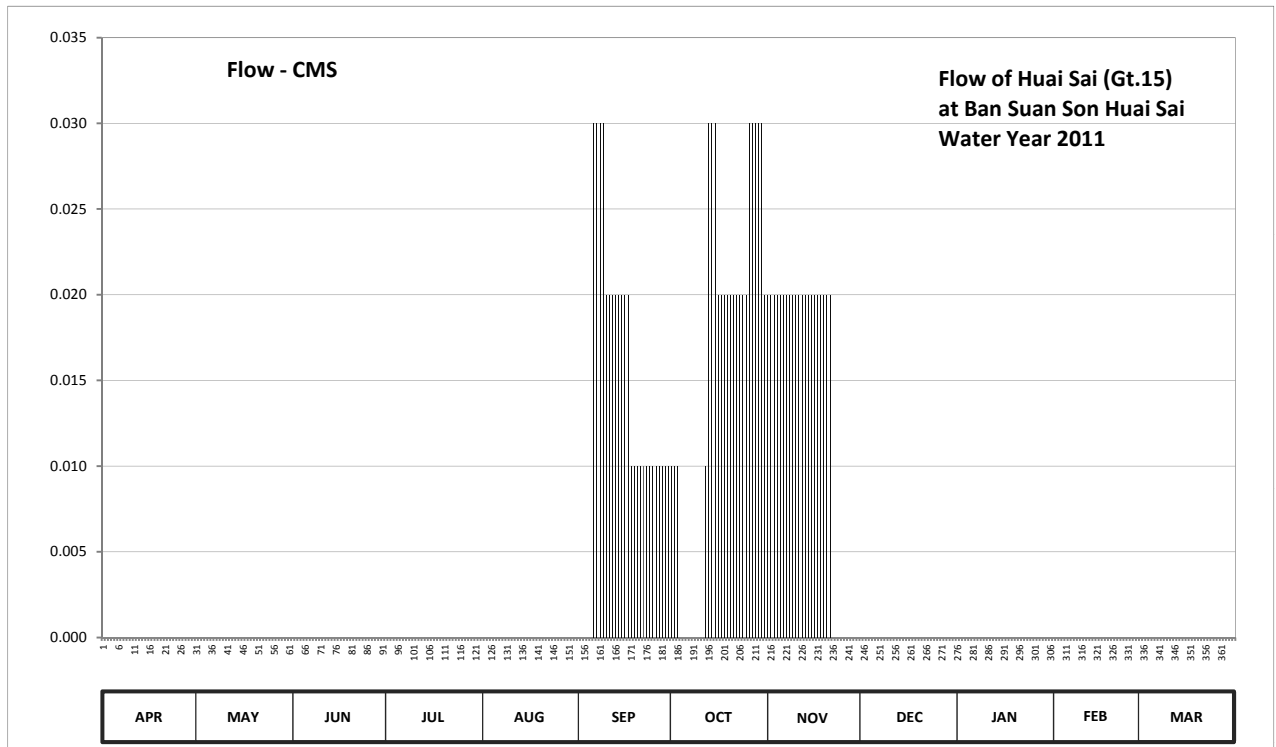
Lat 11 - 40 - 33 N Long 99 - 41 - 44 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 342, Huai Sai.

	Ban	Suan Son Huai Sai	Amphoe	Mueang	Changwat	Prachuap Khiri Khan
Drainage Area	25	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+15.860	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the footpath of the bridge.				Elevation	+22.383 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 9 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.62	15.62	15.62	15.62	15.62	15.62	15.73	15.81	15.61	15.61	15.61	15.61	
2	15.62	15.62	15.62	15.62	15.62	15.68	15.73	15.81	15.61	15.61	15.61	15.61	
3	15.62	15.62	15.62	15.62	15.62	15.68	15.73	15.81	15.61	15.61	15.61	15.61	
4	15.62	15.62	15.62	15.62	15.62	15.69	15.72	15.81	15.61	15.61	15.61	15.61	
5	15.62	15.62	15.62	15.62	15.62	15.70	15.72	15.81	15.61	15.61	15.61	15.61	
6	15.62	15.62	15.62	15.62	15.62	15.84	15.72	15.80	15.61	15.61	15.61	15.61	
7	15.62	15.62	15.62	15.62	15.62	15.83	15.72	15.80	15.61	15.61	15.61	15.61	
8	15.62	15.62	15.62	15.62	15.62	15.82	15.71	15.80	15.61	15.61	15.61	15.61	
9	15.62	15.62	15.62	15.62	15.62	15.82	15.71	15.80	15.61	15.61	15.61	15.61	
10	15.62	15.62	15.62	15.62	15.62	15.81	15.72	15.79	15.61	15.61	15.61	15.61	
11	15.62	15.62	15.62	15.62	15.62	15.80	15.72	15.79	15.61	15.61	15.61	15.61	
12	15.62	15.62	15.62	15.62	15.62	15.80	15.73	15.79	15.61	15.61	15.61	15.61	
13	15.62	15.62	15.62	15.62	15.62	15.79	15.83	15.79	15.61	15.61	15.61	15.61	
14	15.62	15.62	15.62	15.62	15.62	15.79	15.82	15.81	15.61	15.61	15.61	15.61	
15	15.62	15.62	15.62	15.62	15.62	15.78	15.82	15.80	15.61	15.61	15.61	15.61	
16	15.62	15.62	15.62	15.62	15.62	15.78	15.81	15.80	15.61	15.61	15.61	15.61	
17	15.62	15.62	15.62	15.62	15.62	15.78	15.81	15.80	15.61	15.61	15.61	15.61	
18	15.62	15.62	15.62	15.62	15.62	15.77	15.81	15.80	15.61	15.61	15.61	15.61	
19	15.62	15.62	15.62	15.62	15.62	15.77	15.80	15.80	15.61	15.61	15.61	15.61	
20	15.62	15.62	15.62	15.62	15.62	15.76	15.80	15.80	15.61	15.61	15.61	15.61	
21	15.62	15.62	15.62	15.62	15.62	15.76	15.80	15.80	15.61	15.61	15.61	15.61	
22	15.62	15.62	15.62	15.62	15.62	15.76	15.80	15.71	15.61	15.61	15.61	15.61	
23	15.62	15.62	15.62	15.62	15.62	15.75	15.80	15.61	15.61	15.61	15.61	15.61	
24	15.62	15.62	15.62	15.62	15.62	15.75	15.80	15.61	15.61	15.61	15.61	15.61	
25	15.62	15.62	15.62	15.62	15.62	15.75	15.80	15.61	15.61	15.61	15.61	15.61	
26	15.62	15.62	15.62	15.62	15.62	15.74	15.83	15.61	15.61	15.61	15.61	15.61	
27	15.62	15.62	15.62	15.62	15.62	15.74	15.83	15.61	15.61	15.61	15.61	15.61	
28	15.62	15.62	15.62	15.62	15.62	15.74	15.82	15.61	15.61	15.61	15.61	15.61	
29	15.62	15.62	15.62	15.62	15.62	15.73	15.82	15.61	15.61	15.61	15.61	15.61	
30	15.62	15.62	15.62	15.62	15.62	15.73	15.82	15.61	15.61	15.61	15.61	15.61	
31		15.62		15.62	15.62		15.81		15.61	15.61		15.61	
Mean	15.62	15.62	15.62	15.62	15.62	15.76	15.78	15.75	15.61	15.61	15.61	15.61	
Max	15.62	15.62	15.62	15.62	15.62	15.84	15.83	15.81	15.61	15.61	15.61	15.61	15.84
Min	15.62	15.62	15.62	15.62	15.62	15.62	15.71	15.61	15.61	15.61	15.61	15.61	15.61
Annual Max Momentary Gage Height	15.85		m. (MSL.) ,		at 12.00 Hours , on Sep 6 , 2011								
Zero Gage at Bottom Elevation	15.86		m. (MSL.) ,		River Bed	15.22	m. (MSL)						
Left Bank Elevation	21.16		m. (MSL.) ,										
Right Bank Elevation	22.38		m. (MSL.) ,		Drainage Area	25	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

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	0.01	0.02	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.02	0.01	0.02	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.02	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.00		0.00	
31		0.00		0.00	0.00		0.02		0.00	0.00		0.00	
Total	0.00	0.00	0.00	0.00	0.00	0.41	0.50	0.42	0.00	0.00	0.00	0.00	1.33
Mean	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.00	0.00	0.00	0.00	0.00
Max	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.02	0.00	0.00	0.00	0.00	0.03
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Runoff	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.00	0.00	0.00	0.00	0.12
Momentary Peak	0.04 CMS. at 15.85 m. (MSL.) at 12.00 Hours , on Sep 6 , 2011												
Runoff Yield	0.15	Liters/Second/Square KM.			Momentary Peak Yield		1.600	Liters/Second/Square KM.					

WATER YEAR : 2011

WEST COAST - GULF BASIN

Khlong Hin Chuang at Ban Hin Chuang , Prachuap Khiri Khan (Gt.16)

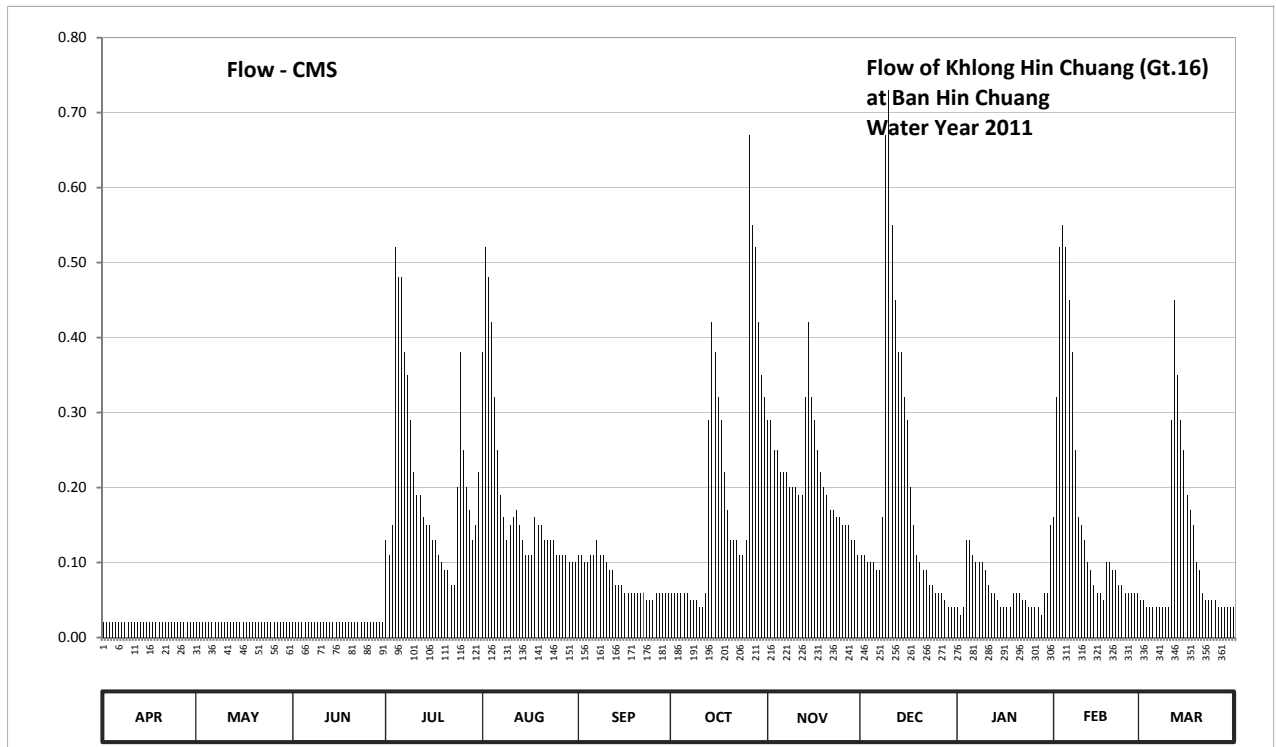
Lat 11 - 39 - 57 N Long 99 - 41 - 18 E

Location : on right bank at the abutment of the bridge.

	Ban	Hin Chuang	Amphoe	Mueang	Changwat	Prachuap Khiri Khan
Drainage Area	48	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+10.873	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+17.808 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2011					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.43	11.43	11.43	11.54	11.65	11.53	11.49	11.62	11.53	11.45	11.56	11.47	
2	11.43	11.43	11.43	11.53	11.69	11.53	11.49	11.62	11.53	11.44	11.63	11.47	
3	11.43	11.43	11.43	11.55	11.68	11.52	11.49	11.61	11.52	11.45	11.69	11.46	
4	11.43	11.43	11.43	11.69	11.66	11.52	11.48	11.61	11.52	11.54	11.70	11.46	
5	11.43	11.43	11.43	11.68	11.63	11.53	11.48	11.60	11.52	11.54	11.69	11.46	
6	11.43	11.43	11.43	11.68	11.61	11.53	11.48	11.60	11.51	11.53	11.67	11.46	
7	11.43	11.43	11.43	11.65	11.58	11.54	11.47	11.60	11.51	11.52	11.65	11.45	
8	11.43	11.43	11.43	11.64	11.56	11.53	11.47	11.59	11.56	11.52	11.61	11.45	
9	11.43	11.43	11.43	11.62	11.54	11.53	11.47	11.59	11.72	11.52	11.56	11.45	
10	11.43	11.43	11.43	11.60	11.55	11.52	11.46	11.59	11.73	11.51	11.55	11.46	
11	11.43	11.43	11.43	11.58	11.56	11.51	11.46	11.58	11.70	11.50	11.54	11.62	
12	11.43	11.43	11.43	11.58	11.57	11.51	11.48	11.58	11.67	11.49	11.52	11.67	
13	11.43	11.43	11.43	11.56	11.55	11.50	11.62	11.63	11.65	11.48	11.51	11.64	
14	11.43	11.43	11.43	11.55	11.54	11.50	11.66	11.66	11.65	11.47	11.50	11.62	
15	11.43	11.43	11.43	11.55	11.53	11.50	11.65	11.63	11.63	11.46	11.49	11.61	
16	11.43	11.43	11.43	11.54	11.53	11.49	11.63	11.62	11.62	11.46	11.48	11.58	
17	11.43	11.43	11.43	11.54	11.53	11.49	11.62	11.61	11.59	11.45	11.47	11.57	
18	11.43	11.43	11.43	11.53	11.56	11.48	11.60	11.60	11.55	11.45	11.52	11.55	
19	11.43	11.43	11.43	11.52	11.55	11.49	11.57	11.59	11.53	11.48	11.52	11.52	
20	11.43	11.43	11.43	11.51	11.55	11.49	11.54	11.58	11.52	11.48	11.51	11.51	
21	11.43	11.43	11.43	11.51	11.54	11.48	11.54	11.57	11.51	11.48	11.51	11.49	
22	11.43	11.43	11.43	11.50	11.54	11.48	11.54	11.57	11.51	11.47	11.50	11.47	
23	11.43	11.43	11.43	11.50	11.54	11.47	11.53	11.56	11.50	11.47	11.50	11.47	
24	11.43	11.43	11.43	11.59	11.54	11.47	11.53	11.56	11.50	11.46	11.49	11.47	
25	11.43	11.43	11.43	11.65	11.53	11.47	11.54	11.55	11.49	11.45	11.49	11.47	
26	11.43	11.43	11.43	11.61	11.53	11.48	11.72	11.55	11.48	11.45	11.48	11.46	
27	11.43	11.43	11.43	11.59	11.53	11.48	11.70	11.55	11.48	11.45	11.48	11.46	
28	11.43	11.43	11.43	11.57	11.53	11.48	11.69	11.54	11.47	11.44	11.48	11.46	
29	11.43	11.43	11.43	11.54	11.52	11.49	11.66	11.54	11.46	11.48	11.47	11.45	
30	11.43	11.43	11.43	11.55	11.52	11.49	11.64	11.53	11.45	11.49		11.45	
31		11.43		11.60	11.52		11.63		11.45	11.55		11.45	
Mean	11.43	11.43	11.43	11.58	11.56	11.50	11.56	11.59	11.55	11.48	11.54	11.50	
Max	11.43	11.43	11.43	11.69	11.69	11.54	11.72	11.66	11.73	11.55	11.70	11.67	11.73
Min	11.43	11.43	11.43	11.50	11.52	11.47	11.46	11.53	11.45	11.44	11.47	11.45	11.43
Annual Max Momentary Gage Height	11.74		m. (MSL.) ,		at 18.00 Hours , on Dec 9 , 2011								
Zero Gage at Bottom Elevation	10.87		m. (MSL.) ,		River Bed	11.35	m. (MSL)						
Left Bank Elevation	16.60		m. (MSL.) ,										
Right Bank Elevation	17.80		m. (MSL.) ,		Drainage Area	48	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.02	0.02	0.02	0.13	0.38	0.11	0.06	0.29	0.11	0.04	0.16	0.05	
2	0.02	0.02	0.02	0.11	0.52	0.11	0.06	0.29	0.11	0.03	0.32	0.05	
3	0.02	0.02	0.02	0.15	0.48	0.10	0.06	0.25	0.10	0.04	0.52	0.04	
4	0.02	0.02	0.02	0.52	0.42	0.10	0.06	0.25	0.10	0.13	0.55	0.04	
5	0.02	0.02	0.02	0.48	0.32	0.11	0.06	0.22	0.10	0.13	0.52	0.04	
6	0.02	0.02	0.02	0.48	0.25	0.11	0.06	0.22	0.09	0.11	0.45	0.04	
7	0.02	0.02	0.02	0.38	0.19	0.13	0.05	0.22	0.09	0.10	0.38	0.04	
8	0.02	0.02	0.02	0.35	0.16	0.11	0.05	0.20	0.16	0.10	0.25	0.04	
9	0.02	0.02	0.02	0.29	0.13	0.11	0.05	0.20	0.67	0.10	0.16	0.04	
10	0.02	0.02	0.02	0.22	0.15	0.10	0.04	0.20	0.73	0.09	0.15	0.04	
11	0.02	0.02	0.02	0.19	0.16	0.09	0.04	0.19	0.55	0.07	0.13	0.29	
12	0.02	0.02	0.02	0.19	0.17	0.09	0.06	0.19	0.45	0.06	0.10	0.45	
13	0.02	0.02	0.02	0.16	0.15	0.07	0.29	0.32	0.38	0.06	0.09	0.35	
14	0.02	0.02	0.02	0.15	0.13	0.07	0.42	0.42	0.38	0.05	0.07	0.29	
15	0.02	0.02	0.02	0.15	0.11	0.07	0.38	0.32	0.32	0.04	0.06	0.25	
16	0.02	0.02	0.02	0.13	0.11	0.06	0.32	0.29	0.29	0.04	0.06	0.19	
17	0.02	0.02	0.02	0.13	0.11	0.06	0.29	0.25	0.20	0.04	0.05	0.17	
18	0.02	0.02	0.02	0.11	0.16	0.06	0.22	0.22	0.15	0.04	0.10	0.15	
19	0.02	0.02	0.02	0.10	0.15	0.06	0.17	0.20	0.11	0.06	0.10	0.10	
20	0.02	0.02	0.02	0.09	0.15	0.06	0.13	0.19	0.10	0.06	0.09	0.09	
21	0.02	0.02	0.02	0.09	0.13	0.06	0.13	0.17	0.09	0.06	0.09	0.06	
22	0.02	0.02	0.02	0.07	0.13	0.06	0.13	0.17	0.09	0.05	0.07	0.05	
23	0.02	0.02	0.02	0.07	0.13	0.05	0.11	0.16	0.07	0.05	0.07	0.05	
24	0.02	0.02	0.02	0.20	0.13	0.05	0.11	0.16	0.07	0.04	0.06	0.05	
25	0.02	0.02	0.02	0.38	0.11	0.05	0.13	0.15	0.06	0.04	0.06	0.05	
26	0.02	0.02	0.02	0.25	0.11	0.06	0.67	0.15	0.06	0.04	0.06	0.04	
27	0.02	0.02	0.02	0.20	0.11	0.06	0.55	0.15	0.06	0.04	0.06	0.04	
28	0.02	0.02	0.02	0.17	0.11	0.06	0.52	0.13	0.05	0.03	0.06	0.04	
29	0.02	0.02	0.02	0.13	0.10	0.06	0.42	0.13	0.04	0.06	0.05	0.04	
30	0.02	0.02	0.02	0.15	0.10	0.06	0.35	0.11	0.04	0.06		0.04	
31		0.02		0.22	0.10		0.32		0.04	0.15		0.04	
Total	0.60	0.62	0.60	6.44	5.66	2.35	6.31	6.41	5.86	2.01	4.89	3.25	45.00 CMSDAY
Mean	0.02	0.02	0.02	0.21	0.18	0.08	0.20	0.21	0.19	0.06	0.17	0.10	0.12 CMS
Max	0.02	0.02	0.02	0.52	0.52	0.13	0.67	0.42	0.73	0.15	0.55	0.45	0.73 CMS
Min	0.02	0.02	0.02	0.07	0.10	0.05	0.04	0.11	0.04	0.03	0.05	0.04	0.02 CMS
Runoff	0.05	0.05	0.05	0.56	0.49	0.20	0.55	0.55	0.51	0.17	0.42	0.28	3.89 MCM
Momentary Peak	0.81 CMS. at 11.74 m. (MSL.) at 08.00 Hours , on Dec 9 , 2011												
Runoff Yield	2.56	Liters/Second/Square KM.			Momentary Peak Yield			16.875	Liters/Second/Square KM.				

WATER YEAR : 2011
WEST COAST - GULF BASIN

Huai Yang at Ban Huai Yang , Prachuap Khiri Khan (Gt.17)

Lat 11 - 36 - 48 N Long 99 - 40 - 09 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 349.

	Ban	Huai Yang	Amphoe	Thap Sakae	Changwat	Prachuap Khiri Khan
Drainage Area	48	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.619	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+6.367 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow effected by the local weir about 200 meters downstream from the gage site.					
	Stage-discharge relation defined by 41 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.32	1.32	1.32	1.56	1.96	1.42	1.41	1.69	1.35	1.27	1.32	1.24	
2	1.32	1.32	1.32	1.55	1.87	1.41	1.41	1.69	1.34	1.26	1.41	1.24	
3	1.32	1.32	1.32	1.58	1.81	1.41	1.40	1.68	1.33	1.26	1.48	1.23	
4	1.32	1.32	1.32	1.69	1.79	1.40	1.40	1.68	1.33	1.35	1.47	1.23	
5	1.32	1.32	1.32	1.68	1.77	1.40	1.40	1.68	1.32	1.36	1.43	1.22	
6	1.32	1.32	1.32	1.67	1.74	1.39	1.39	1.67	1.31	1.35	1.41	1.22	
7	1.32	1.32	1.32	1.67	1.71	1.40	1.39	1.67	1.31	1.35	1.37	1.22	
8	1.32	1.32	1.32	1.66	1.69	1.41	1.39	1.66	1.34	1.33	1.36	1.21	
9	1.32	1.32	1.32	1.65	1.65	1.40	1.39	1.66	1.49	1.32	1.35	1.21	
10	1.32	1.32	1.32	1.64	1.61	1.40	1.38	1.65	1.48	1.31	1.32	1.21	
11	1.32	1.32	1.32	1.64	1.58	1.39	1.38	1.65	1.47	1.30	1.31	1.32	
12	1.32	1.32	1.32	1.63	1.56	1.38	1.46	1.64	1.46	1.29	1.30	1.41	
13	1.32	1.32	1.32	1.62	1.55	1.38	1.97	1.63	1.45	1.28	1.29	1.39	
14	1.32	1.32	1.32	1.60	1.51	1.38	1.85	1.65	1.45	1.27	1.28	1.38	
15	1.32	1.32	1.32	1.56	1.49	1.37	1.82	1.58	1.43	1.26	1.27	1.36	
16	1.32	1.32	1.32	1.53	1.47	1.36	1.79	1.56	1.43	1.26	1.26	1.35	
17	1.32	1.32	1.32	1.50	1.45	1.36	1.77	1.53	1.41	1.26	1.25	1.33	
18	1.32	1.32	1.32	1.49	1.48	1.35	1.72	1.50	1.40	1.25	1.26	1.32	
19	1.32	1.32	1.32	1.48	1.47	1.36	1.70	1.48	1.40	1.34	1.30	1.29	
20	1.32	1.32	1.43	1.47	1.47	1.41	1.67	1.47	1.39	1.35	1.29	1.28	
21	1.32	1.32	1.42	1.46	1.46	1.41	1.67	1.46	1.38	1.34	1.28	1.26	
22	1.32	1.32	1.41	1.46	1.45	1.42	1.67	1.45	1.37	1.33	1.27	1.23	
23	1.32	1.32	1.40	1.45	1.45	1.43	1.66	1.44	1.36	1.32	1.26	1.22	
24	1.32	1.32	1.38	1.51	1.44	1.43	1.65	1.42	1.35	1.31	1.26	1.22	
25	1.32	1.32	1.36	1.60	1.44	1.43	1.70	1.41	1.34	1.30	1.25	1.22	
26	1.32	1.32	1.34	1.70	1.44	1.43	2.04	1.39	1.33	1.29	1.25	1.21	
27	1.32	1.32	1.32	1.66	1.43	1.42	1.96	1.38	1.32	1.28	1.25	1.21	
28	1.32	1.32	1.32	1.63	1.43	1.42	1.93	1.37	1.31	1.27	1.24	1.20	
29	1.32	1.32	1.32	1.60	1.43	1.42	1.89	1.36	1.30	1.27	1.24	1.20	
30	1.32	1.32	1.32	1.61	1.42	1.42	1.81	1.35	1.29	1.27		1.19	
31		1.32		1.75	1.42		1.72		1.28	1.33		1.19	
Mean	1.32	1.32	1.34	1.59	1.56	1.40	1.64	1.55	1.37	1.30	1.31	1.26	
Max	1.32	1.32	1.43	1.75	1.96	1.43	2.04	1.69	1.49	1.36	1.48	1.41	2.04
Min	1.32	1.32	1.32	1.45	1.42	1.35	1.38	1.35	1.28	1.25	1.24	1.19	1.19
Annual Max Momentary Gage Height	2.04		m. (MSL.) ,			at 06.00 Hours , on Oct 26 , 2011							
Zero Gage at Bottom Elevation	0.62		m. (MSL.) ,			River Bed	1.09	m. (MSL)					
Left Bank Elevation	5.24		m. (MSL.) ,										
Right Bank Elevation	6.37		m. (MSL.) ,			Drainage Area	48	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.05	0.05	0.05	0.32	2.28	0.11	0.10	0.70	0.07	0.03	0.05	0.03	
2	0.05	0.05	0.05	0.30	1.62	0.10	0.10	0.70	0.06	0.03	0.10	0.03	
3	0.05	0.05	0.05	0.36	1.26	0.10	0.09	0.66	0.06	0.03	0.18	0.03	
4	0.05	0.05	0.05	0.70	1.15	0.09	0.09	0.66	0.06	0.07	0.17	0.03	
5	0.05	0.05	0.05	0.66	1.06	0.09	0.09	0.66	0.05	0.07	0.12	0.02	
6	0.05	0.05	0.05	0.63	0.92	0.09	0.09	0.63	0.04	0.07	0.10	0.02	
7	0.05	0.05	0.05	0.63	0.78	0.09	0.09	0.63	0.04	0.07	0.08	0.02	
8	0.05	0.05	0.05	0.60	0.70	0.10	0.09	0.60	0.06	0.06	0.07	0.02	
9	0.05	0.05	0.05	0.56	0.56	0.09	0.09	0.60	0.19	0.05	0.07	0.02	
10	0.05	0.05	0.05	0.53	0.43	0.09	0.08	0.56	0.18	0.04	0.05	0.02	
11	0.05	0.05	0.05	0.53	0.36	0.09	0.08	0.56	0.17	0.04	0.04	0.05	
12	0.05	0.05	0.05	0.50	0.32	0.08	0.16	0.53	0.16	0.04	0.04	0.10	
13	0.05	0.05	0.05	0.47	0.30	0.08	2.36	0.50	0.15	0.04	0.04	0.09	
14	0.05	0.05	0.05	0.40	0.22	0.08	1.50	0.56	0.15	0.03	0.04	0.08	
15	0.05	0.05	0.05	0.32	0.19	0.08	1.32	0.36	0.12	0.03	0.03	0.07	
16	0.05	0.05	0.05	0.26	0.17	0.07	1.15	0.32	0.12	0.03	0.03	0.07	
17	0.05	0.05	0.05	0.20	0.15	0.07	1.06	0.26	0.10	0.03	0.03	0.06	
18	0.05	0.05	0.05	0.19	0.18	0.07	0.82	0.20	0.09	0.03	0.03	0.05	
19	0.05	0.05	0.05	0.18	0.17	0.07	0.73	0.18	0.09	0.06	0.04	0.04	
20	0.05	0.05	0.12	0.17	0.17	0.10	0.63	0.17	0.09	0.07	0.04	0.04	
21	0.05	0.05	0.11	0.16	0.16	0.10	0.63	0.16	0.08	0.06	0.04	0.03	
22	0.05	0.05	0.10	0.16	0.15	0.11	0.63	0.15	0.08	0.06	0.03	0.03	
23	0.05	0.05	0.09	0.15	0.15	0.12	0.60	0.13	0.07	0.05	0.03	0.02	
24	0.05	0.05	0.08	0.22	0.13	0.12	0.56	0.11	0.07	0.04	0.03	0.02	
25	0.05	0.05	0.07	0.40	0.13	0.12	0.73	0.10	0.06	0.04	0.03	0.02	
26	0.05	0.05	0.06	0.73	0.13	0.12	2.95	0.09	0.06	0.04	0.03	0.02	
27	0.05	0.05	0.05	0.60	0.12	0.11	2.28	0.08	0.05	0.04	0.03	0.02	
28	0.05	0.05	0.05	0.50	0.12	0.11	2.04	0.08	0.04	0.03	0.03	0.02	
29	0.05	0.05	0.05	0.40	0.12	0.11	1.74	0.07	0.04	0.03	0.03	0.02	
30	0.05	0.05	0.05	0.43	0.11	0.11	1.26	0.07	0.04	0.03		0.02	
31		0.05		0.97	0.11		0.82		0.04	0.06		0.02	
Total	1.50	1.55	1.78	13.23	14.42	2.87	24.96	11.08	2.68	1.40	1.63	1.13	78.23 CMSDAY
Mean	0.05	0.05	0.06	0.43	0.47	0.10	0.81	0.37	0.09	0.05			

WATER YEAR : 2011

WEST COAST - GULF BASIN

Khlong Cha Kra at Ban Cha Kra Bon , Prachuap Khiri Khan (Gt.18)

Lat 11 - 26 - 48 N Long 99 - 34 - 09 E

Location : on left bank at the bridge of Phet Kasem Highway.

	Ban	Cha Kra Bon	Amphoe	Thap Sakae	Changwat	Prachuap Khiri Khan
Drainage Area	88	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+11.715	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+17.228 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1987 to date					
Rated by Flot	-					
Rated by Current Meter	1987 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 49 discharge measurements made in 1911.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.70	12.57	12.64	12.84	13.31	12.75	12.76	12.79	12.69	12.66	12.77	12.66	
2	12.69	12.57	12.76	12.95	13.09	12.75	12.74	12.78	12.68	12.65	12.79	12.66	
3	12.68	12.57	12.79	13.03	13.01	12.74	12.73	12.78	12.67	12.71	12.77	12.66	
4	12.67	12.57	12.77	12.94	12.95	12.74	12.73	12.77	12.67	12.76	12.75	12.66	
5	12.66	12.57	12.77	12.90	12.92	12.74	12.72	12.76	12.66	12.74	12.72	12.67	
6	12.66	12.57	12.75	12.90	12.89	12.73	12.75	12.73	12.67	12.72	12.72	12.67	
7	12.67	12.57	12.73	12.86	12.87	12.74	12.77	12.72	12.67	12.71	12.70	12.67	
8	12.66	12.59	12.72	12.84	12.84	12.77	12.78	12.72	12.74	12.70	12.69	12.66	
9	12.66	12.62	12.68	12.84	12.80	12.76	12.77	12.71	12.93	12.69	12.69	12.66	
10	12.65	12.68	12.67	12.82	12.79	12.75	12.76	12.70	12.92	12.68	12.68	12.65	
11	12.65	12.70	12.66	12.84	12.81	12.77	12.80	12.69	12.82	12.68	12.69	12.65	
12	12.65	12.71	12.70	12.80	12.85	12.78	12.86	12.68	12.77	12.68	12.69	12.68	
13	12.64	12.71	12.66	12.77	12.82	12.78	13.07	12.75	12.75	12.68	12.70	12.68	
14	12.64	12.72	12.65	12.76	12.81	12.77	12.95	12.93	12.71	12.67	12.70	12.67	
15	12.63	12.73	12.66	12.74	12.80	12.78	12.92	12.82	12.70	12.67	12.70	12.67	
16	12.62	12.72	12.70	12.72	12.79	12.79	12.91	12.80	12.69	12.67	12.69	12.68	
17	12.62	12.73	12.76	12.81	12.78	12.78	12.90	12.79	12.69	12.66	12.69	12.67	
18	12.61	12.74	12.83	12.74	12.76	12.79	12.93	12.78	12.68	12.66	12.69	12.67	
19	12.57	12.75	12.90	12.64	12.75	12.81	12.87	12.77	12.70	12.67	12.70	12.66	
20	12.57	12.75	12.98	12.63	12.74	12.81	12.83	12.76	12.71	12.67	12.70	12.66	
21	12.57	12.73	12.92	12.62	12.77	12.80	12.82	12.74	12.70	12.67	12.70	12.65	
22	12.57	12.71	12.88	12.65	12.77	12.81	12.82	12.72	12.69	12.66	12.69	12.65	
23	12.57	12.71	12.82	12.67	12.76	12.80	12.83	12.71	12.68	12.66	12.69	12.65	
24	12.57	12.69	12.80	12.69	12.75	12.81	12.84	12.70	12.65	12.66	12.69	12.64	
25	12.57	12.67	12.79	12.71	12.75	12.80	12.84	12.69	12.59	12.65	12.68	12.64	
26	12.57	12.63	12.78	12.75	12.74	12.81	12.86	12.68	12.60	12.66	12.68	12.63	
27	12.57	12.61	12.77	12.78	12.76	12.82	12.87	12.67	12.62	12.67	12.68	12.62	
28	12.57	12.60	12.82	12.79	12.74	12.81	12.93	12.69	12.68	12.67	12.67	12.62	
29	12.57	12.61	12.85	12.78	12.76	12.78	12.87	12.71	12.68	12.68	12.66	12.62	
30	12.57	12.63	12.95	12.79	12.77	12.77	12.82	12.71	12.67	12.68		12.62	
31		12.64		12.87	12.75		12.81		12.66	12.71		12.61	
Mean	12.62	12.66	12.77	12.79	12.83	12.78	12.83	12.74	12.70	12.68	12.70	12.65	
Max	12.70	12.75	12.98	13.03	13.31	12.82	13.07	12.93	12.93	12.76	12.79	12.68	13.31
Min	12.57	12.57	12.64	12.62	12.74	12.73	12.72	12.67	12.59	12.65	12.66	12.61	12.57
Annual Max Momentary Gage Height	13.40		m. (MSL.) , at 18.00 Hours , on Aug 1 , 2011										
Zero Gage at Bottom Elevation	11.72		m. (MSL.) , River Bed 12.21 m. (MSL)										
Left Bank Elevation	16.18		m. (MSL.) ,										
Right Bank Elevation	17.22		m. (MSL.) , Drainage Area 88 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.01	0.09	0.83	6.52	0.38	0.41	0.51	0.18	0.13	0.45	0.13	
2	0.18	0.01	0.41	1.70	3.19	0.38	0.34	0.48	0.16	0.11	0.51	0.13	
3	0.16	0.01	0.51	2.50	2.27	0.34	0.30	0.48	0.15	0.24	0.45	0.13	
4	0.15	0.01	0.45	1.61	1.70	0.34	0.30	0.45	0.15	0.41	0.38	0.13	
5	0.13	0.01	0.45	1.24	1.42	0.34	0.27	0.41	0.13	0.34	0.27	0.15	
6	0.13	0.01	0.38	1.24	1.17	0.30	0.38	0.30	0.15	0.27	0.27	0.15	
7	0.15	0.01	0.30	0.96	1.03	0.34	0.45	0.27	0.15	0.24	0.20	0.15	
8	0.13	0.02	0.27	0.83	0.83	0.45	0.48	0.27	0.34	0.20	0.18	0.13	
9	0.13	0.06	0.16	0.83	0.55	0.41	0.45	0.24	1.52	0.18	0.18	0.13	
10	0.11	0.16	0.15	0.69	0.51	0.38	0.41	0.20	1.42	0.16	0.16	0.11	
11	0.11	0.20	0.13	0.83	0.62	0.45	0.55	0.18	0.69	0.16	0.18	0.11	
12	0.11	0.24	0.20	0.55	0.90	0.48	0.96	0.16	0.45	0.16	0.18	0.16	
13	0.09	0.24	0.13	0.45	0.69	0.48	2.96	0.38	0.38	0.16	0.20	0.16	
14	0.09	0.27	0.11	0.41	0.62	0.45	1.70	1.52	0.24	0.15	0.20	0.15	
15	0.07	0.30	0.13	0.34	0.55	0.48	1.42	0.69	0.20	0.15	0.20	0.15	
16	0.06	0.27	0.20	0.27	0.51	0.51	1.33	0.55	0.18	0.15	0.18	0.16	
17	0.06	0.30	0.41	0.62	0.48	0.48	1.24	0.51	0.18	0.13	0.18	0.15	
18	0.04	0.34	0.76	0.34	0.41	0.51	1.52	0.48	0.16	0.13	0.18	0.15	
19	0.01	0.38	1.24	0.09	0.38	0.62	1.03	0.45	0.20	0.15	0.20	0.13	
20	0.01	0.38	1.98	0.07	0.34	0.62	0.76	0.41	0.24	0.15	0.20	0.13	
21	0.01	0.30	1.42	0.06	0.45	0.55	0.69	0.34	0.20	0.15	0.20	0.11	
22	0.01	0.24	1.10	0.11	0.45	0.62	0.69	0.27	0.18	0.13	0.18	0.11	
23	0.01	0.24	0.69	0.15	0.41	0.55	0.76	0.24	0.16	0.13	0.18	0.11	
24	0.01	0.18	0.55	0.18	0.38	0.62	0.83	0.20	0.11	0.13	0.18	0.09	
25	0.01	0.15	0.51	0.24	0.38	0.55	0.83	0.18	0.02	0.11	0.16	0.09	
26	0.01	0.07	0.48	0.38	0.34	0.62	0.96	0.16	0.02	0.13	0.16	0.07	
27	0.01	0.04	0.45	0.48	0.41	0.69	1.03	0.15	0.06	0.15	0.16	0.06	
28	0.01	0.02	0.69	0.51	0.34	0.62	1.52	0.18	0.16	0.15	0.15	0.06	
29	0.01	0.04	0.90	0.48	0.41	0.48	1.03	0.24	0.16	0.16	0.13	0.06	
30	0.01	0.07	1.70	0.51	0.45	0.45	0.69	0.24	0.15	0.16		0.06	
31		0.09		1.03	0.38		0.62		0.13	0.24		0.04	
Total	2.22	4.67	16.95	20.53	29.09	14.49	26.91	11.14	8.62	5.41	6.45	3.65	150.13 CMSDAY
Mean	0.07	0.15	0.56	0.66	0.94	0.48	0.87	0.37	0.28	0.17			

WATER YEAR : 2011**WEST COAST - GULF BASIN****Khlong Ang Thong at Ban Ang Thong , Prachuap Khiri Khan (Gt.19)**

Lat 11 - 26 - 10 N Long 99 - 33 - 54 E

Location : on left bank at the bridge of Phet Kasem Highway near the guidepost 373.

	Ban	Ang Thong	Amphoe	Thap Sakae	Changwat	Prachuap Khiri Khan
Drainage Area	61	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+12.447	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+17.784 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1987 - 1988, 1993 to date					
Rated by Flot	-					
Rated by Current Meter	1987 - 1988, 1993 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 39 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.10	12.99	12.75	13.13	13.41	13.24	13.28	13.30	13.22	13.19	13.20	13.26	
2	13.10	12.97	12.78	13.20	13.43	13.24	13.27	13.30	13.22	13.20	13.24	13.25	
3	13.10	12.96	12.78	13.34	13.40	13.25	13.26	13.29	13.21	13.24	13.28	13.25	
4	13.10	12.95	12.77	13.30	13.38	13.25	13.26	13.29	13.21	13.27	13.27	13.25	
5	13.10	12.93	12.76	13.29	13.36	13.25	13.25	13.29	13.21	13.27	13.27	13.25	
6	13.10	12.92	12.76	13.32	13.33	13.26	13.25	13.28	13.21	13.25	13.27	13.24	
7	13.10	12.92	12.75	13.31	13.30	13.26	13.26	13.28	13.20	13.25	13.27	13.24	
8	13.10	12.91	12.75	13.30	13.26	13.26	13.29	13.28	13.25	13.24	13.27	13.24	
9	13.10	12.93	12.75	13.30	13.23	13.25	13.29	13.27	13.50	13.23	13.26	13.23	
10	13.10	12.95	12.76	13.29	13.23	13.25	13.28	13.27	13.48	13.23	13.26	13.23	
11	13.10	12.94	12.76	13.28	13.22	13.27	13.29	13.27	13.43	13.23	13.25	13.23	
12	13.10	12.92	12.76	13.28	13.25	13.29	13.31	13.27	13.43	13.23	13.25	13.25	
13	13.10	12.92	12.81	13.28	13.25	13.29	13.35	13.31	13.42	13.23	13.25	13.25	
14	13.10	12.92	12.81	13.28	13.25	13.29	13.33	13.47	13.41	13.23	13.25	13.25	
15	13.10	12.93	12.81	13.27	13.24	13.28	13.32	13.40	13.37	13.23	13.25	13.24	
16	13.10	12.93	12.83	13.27	13.23	13.28	13.32	13.38	13.33	13.23	13.24	13.24	
17	13.10	12.93	12.87	13.26	13.21	13.28	13.31	13.37	13.32	13.23	13.24	13.24	
18	13.10	12.94	12.90	13.25	13.21	13.29	13.30	13.33	13.30	13.23	13.24	13.24	
19	13.10	12.94	12.95	13.24	13.20	13.29	13.29	13.32	13.27	13.23	13.24	13.23	
20	13.10	12.93	13.28	13.24	13.20	13.29	13.27	13.31	13.25	13.22	13.27	13.23	
21	13.10	12.92	13.22	13.24	13.27	13.30	13.27	13.31	13.25	13.20	13.30	13.22	
22	13.10	12.92	13.17	13.24	13.27	13.30	13.27	13.30	13.24	13.20	13.29	13.22	
23	13.10	12.91	13.16	13.24	13.27	13.30	13.26	13.29	13.24	13.19	13.29	13.22	
24	13.10	12.90	13.15	13.25	13.26	13.30	13.27	13.29	13.23	13.18	13.29	13.22	
25	13.10	12.89	13.14	13.28	13.26	13.30	13.28	13.29	13.23	13.18	13.29	13.22	
26	13.10	12.88	13.13	13.28	13.26	13.30	13.28	13.26	13.22	13.17	13.28	13.19	
27	13.10	12.81	13.11	13.28	13.25	13.31	13.29	13.25	13.21	13.17	13.27	13.16	
28	13.10	12.75	13.11	13.29	13.25	13.30	13.33	13.24	13.21	13.17	13.27	13.12	
29	13.10	12.75	13.12	13.29	13.26	13.29	13.30	13.23	13.20	13.16	13.26	13.10	
30	13.10	12.75	13.16	13.31	13.25	13.29	13.30	13.23	13.20	13.15		13.10	
31		12.76		13.34	13.25		13.29		13.19	13.16		13.10	
Mean	13.10	12.90	12.93	13.27	13.27	13.28	13.29	13.30	13.28	13.21	13.26	13.22	
Max	13.10	12.99	13.28	13.34	13.43	13.31	13.35	13.47	13.50	13.27	13.30	13.26	13.50
Min	13.10	12.75	12.75	13.13	13.20	13.24	13.25	13.23	13.19	13.15	13.20	13.10	12.75
Annual Max Momentary Gage Height	13.53		m. (MSL.) ,		at 12.00 Hours , on Dec 9 , 2011								
Zero Gage at Bottom Elevation	12.45		m. (MSL.) ,		River Bed	12.89		m. (MSL)					
Left Bank Elevation	16.87		m. (MSL.) ,										
Right Bank Elevation	16.58		m. (MSL.) ,		Drainage Area	61		Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.01	0.27	0.04	0.07	0.08	0.03	0.02	0.02	0.06		
2	0.00	0.00	0.00	0.02	0.34	0.04	0.06	0.08	0.03	0.02	0.04	0.05		
3	0.00	0.00	0.00	0.14	0.24	0.05	0.06	0.07	0.03	0.04	0.07	0.05		
4	0.00	0.00	0.00	0.08	0.21	0.05	0.06	0.07	0.03	0.06	0.06	0.05		
5	0.00	0.00	0.00	0.07	0.18	0.05	0.05	0.07	0.03	0.06	0.06	0.05		
6	0.00	0.00	0.00	0.11	0.13	0.06	0.05	0.07	0.03	0.05	0.06	0.04		
7	0.00	0.00	0.00	0.10	0.08	0.06	0.06	0.07	0.02	0.05	0.06	0.04		
8	0.00	0.00	0.00	0.08	0.06	0.06	0.07	0.07	0.05	0.04	0.06	0.04		
9	0.00	0.00	0.00	0.08	0.04	0.05	0.07	0.06	0.56	0.04	0.06	0.04		
10	0.00	0.00	0.00	0.07	0.04	0.05	0.07	0.06	0.50	0.04	0.06	0.04		
11	0.00	0.00	0.00	0.07	0.03	0.06	0.07	0.06	0.34	0.04	0.05	0.04		
12	0.00	0.00	0.00	0.07	0.05	0.07	0.10	0.06	0.34	0.04	0.05	0.05		
13	0.00	0.00	0.00	0.07	0.05	0.07	0.16	0.10	0.30	0.04	0.05	0.05		
14	0.00	0.00	0.00	0.07	0.05	0.07	0.13	0.46	0.27	0.04	0.05	0.05		
15	0.00	0.00	0.00	0.06	0.04	0.07	0.11	0.24	0.19	0.04	0.05	0.04		
16	0.00	0.00	0.00	0.06	0.04	0.07	0.11	0.21	0.13	0.04	0.04	0.04		
17	0.00	0.00	0.00	0.06	0.03	0.07	0.10	0.19	0.11	0.04	0.04	0.04		
18	0.00	0.00	0.00	0.05	0.03	0.07	0.08	0.13	0.08	0.04	0.04	0.04		
19	0.00	0.00	0.00	0.04	0.02	0.07	0.07	0.11	0.06	0.04	0.04	0.04		
20	0.00	0.00	0.07	0.04	0.02	0.07	0.06	0.10	0.05	0.03	0.06	0.04		
21	0.00	0.00	0.03	0.04	0.06	0.08	0.06	0.10	0.05	0.02	0.08	0.03		
22	0.00	0.00	0.01	0.04	0.06	0.08	0.06	0.08	0.04	0.02	0.07	0.03		
23	0.00	0.00	0.01	0.04	0.06	0.08	0.06	0.07	0.04	0.02	0.07	0.03		
24	0.00	0.00	0.01	0.05	0.06	0.08	0.06	0.07	0.04	0.02	0.07	0.03		
25	0.00	0.00	0.01	0.07	0.06	0.08	0.07	0.07	0.04	0.02	0.07	0.03		
26	0.00	0.00	0.01	0.07	0.06	0.08	0.07	0.06	0.03	0.01	0.07	0.02		
27	0.00	0.00	0.00	0.07	0.05	0.10	0.07	0.05	0.03	0.01	0.06	0.01		
28	0.00	0.00	0.00	0.07	0.05	0.08	0.13	0.04	0.03	0.01	0.06	0.00		
29	0.00	0.00	0.00	0.07	0.06	0.07	0.08	0.04	0.02	0.01	0.06	0.00		
30	0.00	0.00	0.01	0.10	0.05	0.07	0.08	0.04	0.02	0.01		0.00		
31		0.00		0.14	0.05		0.07		0.02	0.01		0.00		
Total	0.00	0.00	0.16	2.11	2.57	2.00	2.42	2.98	3.54	0.97	1.63	1.07	19.45	CMSDAY
Mean	0.00	0.00	0.01	0.07	0.08	0.07	0.08	0.10	0.11	0.03				

WATER YEAR : 2011**KUI BURI RIVER BASIN****Kui Buri River at Ban Thung Faek , Prachuap Khiri Khan (Ky.3)**

Lat 12 - 05 - 46 N Long 99 - 47 - 26 E

Location : on left bank at Bunchuai Bamrungrat Bridge near Wat Udom Wararam.

	Ban	Thung Faek	Amphoe	Kui Buri	Changwat	Prachuap Khiri Khan
Drainage Area	537	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+19.789	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 1 meter from the top staff gage.				Elevation	+25.925 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1997 to date					
Rating Operation						
Period of Rating	1997 to date					
Rated by Flot	-					
Rated by Current Meter	1997 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records gool. Stage-discharge relation defined by 43 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.62	21.59	21.67	21.69	21.66	21.62	21.60	21.63	21.62	21.61	21.59	21.62	
2	21.62	21.60	21.68	21.70	21.68	21.63	21.60	21.62	21.61	21.61	21.59	21.62	
3	21.62	21.60	21.69	21.71	21.68	21.64	21.60	21.62	21.61	21.60	21.58	21.64	
4	21.64	21.60	21.70	21.69	21.67	21.63	21.61	21.63	21.62	21.61	21.59	21.64	
5	21.63	21.60	21.70	21.68	21.66	21.64	21.62	21.64	21.62	21.62	21.58	21.64	
6	21.64	21.61	21.68	21.68	21.64	21.63	21.62	21.64	21.62	21.62	21.59	21.65	
7	21.63	21.60	21.69	21.68	21.64	21.63	21.65	21.64	21.62	21.64	21.59	21.64	
8	21.63	21.59	21.68	21.67	21.63	21.62	21.68	21.64	21.63	21.63	21.60	21.64	
9	21.63	21.61	21.67	21.66	21.63	21.61	21.69	21.63	21.65	21.63	21.62	21.63	
10	21.63	21.62	21.66	21.64	21.64	21.62	21.69	21.64	21.66	21.62	21.63	21.64	
11	21.63	21.64	21.65	21.65	21.65	21.64	21.69	21.75	21.66	21.62	21.63	21.64	
12	21.62	21.67	21.65	21.67	21.65	21.64	21.68	21.73	21.66	21.61	21.62	21.64	
13	21.62	21.69	21.66	21.67	21.65	21.61	21.72	21.72	21.66	21.62	21.63	21.64	
14	21.62	21.71	21.68	21.68	21.65	21.59	21.74	21.72	21.66	21.62	21.64	21.63	
15	21.62	21.71	21.66	21.68	21.66	21.60	21.73	21.71	21.66	21.62	21.64	21.63	
16	21.62	21.69	21.66	21.68	21.65	21.60	21.71	21.69	21.66	21.62	21.64	21.63	
17	21.61	21.68	21.67	21.67	21.64	21.60	21.71	21.68	21.66	21.62	21.63	21.63	
18	21.60	21.68	21.67	21.67	21.63	21.60	21.67	21.67	21.66	21.61	21.63	21.62	
19	21.60	21.67	21.69	21.66	21.65	21.60	21.65	21.67	21.66	21.62	21.63	21.62	
20	21.68	21.68	21.67	21.65	21.64	21.61	21.65	21.66	21.65	21.62	21.63	21.62	
21	21.68	21.69	21.66	21.65	21.63	21.61	21.65	21.66	21.65	21.62	21.64	21.62	
22	21.64	21.68	21.67	21.65	21.63	21.61	21.65	21.65	21.64	21.62	21.63	21.62	
23	21.63	21.67	21.68	21.65	21.64	21.61	21.64	21.65	21.64	21.60	21.65	21.61	
24	21.62	21.66	21.69	21.66	21.62	21.61	21.64	21.64	21.63	21.59	21.64	21.62	
25	21.61	21.65	21.68	21.66	21.63	21.60	21.64	21.64	21.62	21.59	21.65	21.62	
26	21.60	21.65	21.67	21.67	21.64	21.60	21.64	21.64	21.62	21.59	21.64	21.62	
27	21.60	21.66	21.67	21.66	21.63	21.60	21.64	21.65	21.62	21.59	21.63	21.62	
28	21.59	21.68	21.66	21.65	21.63	21.60	21.63	21.64	21.62	21.58	21.63	21.62	
29	21.59	21.67	21.66	21.64	21.62	21.59	21.63	21.63	21.62	21.59	21.62	21.62	
30	21.59	21.67	21.66	21.66	21.62	21.59	21.63	21.62	21.61	21.58		21.62	
31		21.68		21.66	21.62		21.64		21.61	21.59		21.62	
Mean	21.62	21.65	21.67	21.67	21.64	21.61	21.66	21.66	21.64	21.61	21.62	21.63	
Max	21.68	21.71	21.70	21.71	21.68	21.64	21.74	21.75	21.66	21.64	21.65	21.65	21.75
Min	21.59	21.59	21.65	21.64	21.62	21.59	21.60	21.62	21.61	21.58	21.58	21.61	21.58
Annual Max Momentary Gage Height	21.78		m. (MSL.) ,		at 14.00 Hours , on May 15 , 2011								
Zero Gage at Bottom Elevation	19.79		m. (MSL.) ,		River Bed	19.87		m. (MSL)					
Left Bank Elevation	25.86		m. (MSL.) ,										
Right Bank Elevation	25.92		m. (MSL.) ,		Drainage Area	537		Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.39	0.27	0.60	0.69	0.56	0.39	0.30	0.43	0.39	0.34	0.27	0.39		
2	0.39	0.30	0.64	0.73	0.64	0.43	0.30	0.39	0.34	0.34	0.27	0.39		
3	0.39	0.30	0.69	0.78	0.64	0.47	0.30	0.39	0.34	0.30	0.24	0.47		
4	0.47	0.30	0.73	0.69	0.60	0.43	0.34	0.43	0.39	0.34	0.27	0.47		
5	0.43	0.30	0.73	0.64	0.56	0.47	0.39	0.47	0.39	0.39	0.24	0.47		
6	0.47	0.34	0.64	0.64	0.47	0.43	0.39	0.47	0.39	0.39	0.27	0.51		
7	0.43	0.30	0.69	0.64	0.47	0.43	0.51	0.47	0.39	0.47	0.27	0.47		
8	0.43	0.27	0.64	0.60	0.43	0.39	0.64	0.47	0.43	0.43	0.30	0.47		
9	0.43	0.34	0.60	0.56	0.43	0.34	0.69	0.43	0.51	0.43	0.39	0.43		
10	0.43	0.39	0.56	0.47	0.47	0.39	0.69	0.47	0.56	0.39	0.43	0.47		
11	0.43	0.47	0.51	0.51	0.51	0.47	0.69	1.00	0.56	0.39	0.43	0.47		
12	0.39	0.60	0.51	0.60	0.51	0.47	0.64	0.89	0.56	0.34	0.39	0.47		
13	0.39	0.69	0.56	0.60	0.51	0.34	0.84	0.84	0.56	0.39	0.43	0.47		
14	0.39	0.78	0.64	0.64	0.51	0.27	0.95	0.84	0.56	0.39	0.47	0.43		
15	0.39	0.78	0.56	0.64	0.56	0.30	0.89	0.78	0.56	0.39	0.47	0.43		
16	0.39	0.69	0.56	0.64	0.51	0.30	0.78	0.69	0.56	0.39	0.47	0.43		
17	0.34	0.64	0.60	0.60	0.47	0.30	0.78	0.64	0.56	0.39	0.43	0.43		
18	0.30	0.64	0.60	0.60	0.43	0.30	0.60	0.60	0.56	0.34	0.43	0.39		
19	0.30	0.60	0.69	0.56	0.51	0.30	0.51	0.60	0.56	0.39	0.43	0.39		
20	0.64	0.64	0.60	0.51	0.47	0.34	0.51	0.56	0.51	0.39	0.43	0.39		
21	0.64	0.69	0.56	0.51	0.43	0.34	0.51	0.56	0.51	0.39	0.47	0.39		
22	0.47	0.64	0.60	0.51	0.43	0.34	0.51	0.51	0.47	0.39	0.43	0.39		
23	0.43	0.60	0.64	0.51	0.47	0.34	0.47	0.51	0.47	0.30	0.51	0.34		
24	0.39	0.56	0.69	0.56	0.39	0.34	0.47	0.47	0.43	0.27	0.47	0.39		
25	0.34	0.51	0.64	0.56	0.43	0.30	0.47	0.47	0.39	0.27	0.51	0.39		
26	0.30	0.51	0.60	0.60	0.47	0.30	0.47	0.47	0.39	0.27	0.47	0.39		
27	0.30	0.56	0.60	0.56	0.43	0.30	0.47	0.51	0.39	0.27	0.43	0.39		
28	0.27	0.64	0.56	0.51	0.43	0.30	0.43	0.47	0.39	0.24	0.43	0.39		
29	0.27	0.60	0.56	0.47	0.39	0.27	0.43	0.43	0.39	0.27	0.39	0.39		
30	0.27	0.60	0.56	0.56	0.39	0.27	0.43	0.39	0.34	0.24		0.39		
31		0.64		0.56	0.39		0.47		0.34	0.27		0.39		
Total	11.90	16.19	18.36	18.25	14.91	10.66	16.87	16.65	14.19	10.80	11.44	13.08	173.30	CMSDAY
Mean	0.40	0.52	0.61	0.59	0.48	0.36	0.54	0.56	0.46					

WATER YEAR : 2011

SOUTHERN PENINSULA EAST COAST

Khlong Chumphon at Ban Wang Phai , Chumphon (X.53A)

Lat 10 - 30 - 20 N Long 99 - 07 - 15 E

Location : on left bank about 9.50 kilometers downstream from X.53 station.

	Ban	Wang Phai	Amphoe	Mueang	Changwat	Chumphon
Drainage Area	296	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 3.30 meters from the top staff gage.				Elevation	+10.271 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1991 to date					
Rating Operation						
Period of Rating	1991 to date					
Rated by Flot	-					
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 34 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.92	2.46	2.49	2.97	4.96	4.01	4.78	2.69	2.36	2.20	3.84	2.30	
2	3.37	2.42	2.48	3.59	4.06	3.60	5.30	2.59	2.35	2.39	4.41	2.30	
3	3.14	2.53	2.46	3.03	3.54	3.51	6.94	2.56	2.35	7.13	3.51	2.30	
4	2.89	2.40	2.45	2.75	3.25	3.61	6.35	2.58	2.37	6.53	3.11	2.34	
5	3.72	2.56	2.44	2.63	3.04	3.22	6.09	2.50	2.37	5.11	2.73	2.35	
6	3.26	2.55	2.44	2.55	2.90	3.06	4.96	2.50	2.36	2.90	2.57	2.32	
7	3.78	2.55	2.45	2.50	2.79	3.08	4.38	2.52	2.34	2.68	2.49	2.31	
8	3.05	2.92	2.48	2.45	2.68	2.89	3.87	2.46	2.33	2.54	2.45	2.31	
9	2.82	3.15	2.43	2.42	2.67	2.96	3.62	2.45	2.35	2.47	2.43	2.35	
10	2.71	5.44	2.54	2.42	2.63	3.42	3.35	2.46	2.37	2.42	2.41	2.33	
11	2.66	5.53	2.66	2.43	2.90	4.39	3.30	2.44	2.34	2.39	2.40	2.32	
12	2.61	4.43	2.98	2.42	3.77	5.69	3.38	2.49	2.33	2.37	2.39	2.31	
13	2.58	3.98	2.74	2.42	2.96	5.41	3.04	3.55	2.32	2.36	2.38	2.31	
14	2.56	3.30	2.80	2.46	2.72	4.38	2.95	3.08	2.31	2.34	2.37	2.30	
15	2.54	3.03	2.65	2.50	2.61	3.74	2.92	2.95	2.30	2.34	2.36	2.29	
16	2.53	2.86	2.87	2.73	2.56	3.50	2.77	3.21	2.30	2.34	2.36	2.28	
17	2.52	3.09	2.86	2.84	2.53	3.20	2.71	2.76	2.29	2.33	2.35	2.28	
18	2.50	3.20	3.05	2.57	2.50	3.10	2.65	2.60	2.29	2.32	2.35	2.29	
19	2.61	3.47	3.85	2.48	2.46	4.00	2.63	2.52	2.28	2.32	2.40	2.28	
20	2.60	3.62	3.80	2.43	2.54	4.97	2.74	2.48	2.28	2.32	2.38	2.27	
21	2.52	3.14	3.27	2.41	2.53	4.82	2.95	2.45	2.28	2.32	2.36	2.26	
22	2.49	2.86	3.18	2.44	2.49	5.49	2.74	2.44	2.28	2.31	2.35	2.24	
23	2.50	2.68	2.94	2.72	2.47	4.56	2.75	2.42	2.27	2.29	2.34	2.23	
24	2.52	2.59	2.81	3.54	2.49	5.76	2.68	2.54	2.27	2.28	2.33	2.22	
25	2.52	2.65	2.68	5.05	2.46	5.21	2.84	2.64	2.27	2.28	2.32	2.21	
26	2.51	2.83	2.63	4.57	3.12	4.75	3.25	2.44	2.27	2.31	2.32	2.23	
27	2.42	2.61	2.64	4.21	3.39	4.59	3.07	2.41	2.27	2.33	2.31	2.26	
28	2.37	2.53	2.56	4.38	6.03	6.39	2.86	2.39	2.25	2.32	2.31	2.23	
29	2.36	2.52	2.60	4.29	7.91	5.56	2.76	2.38	2.24	2.34	2.31	2.22	
30	2.40	2.51	2.79	4.94	6.51	5.09	2.77	2.37	2.24	2.35		2.22	
31		2.48		5.75	4.84		2.76		2.24	3.27		2.22	
Mean	2.77	3.06	2.77	3.13	3.36	4.27	3.55	2.60	2.31	2.78	2.57	2.28	
Max	3.92	5.53	3.85	5.75	7.91	6.39	6.94	3.55	2.37	7.13	4.41	2.	

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.48	5.52	5.88	11.83	39.40	25.74	36.71	8.33	4.32	2.40	23.36	3.60	
2	16.82	5.04	5.76	19.86	26.44	20.00	44.70	7.08	4.20	4.68	31.34	3.60	
3	13.95	6.36	5.52	12.57	19.16	18.74	77.06	6.72	4.20	81.88	18.74	3.60	
4	10.83	4.80	5.40	9.08	15.32	20.14	64.07	6.96	4.44	67.83	13.57	4.08	
5	21.68	6.72	5.28	7.58	12.70	14.95	58.86	6.00	4.44	41.71	8.83	4.20	
6	15.45	6.60	5.28	6.60	10.95	12.95	39.40	6.00	4.32	10.95	6.84	3.84	
7	22.52	6.60	5.40	6.00	9.57	13.20	30.92	6.24	4.08	8.20	5.88	3.72	
8	12.82	11.20	5.76	5.40	8.20	10.83	23.78	5.52	3.96	6.48	5.40	3.72	
9	9.95	14.08	5.16	5.04	8.08	11.70	20.28	5.40	4.20	5.64	5.16	4.20	
10	8.58	46.98	6.48	5.04	7.58	17.48	16.57	5.52	4.44	5.04	4.92	3.96	
11	7.95	48.51	7.95	5.16	10.95	31.06	15.95	5.28	4.08	4.68	4.80	3.84	
12	7.32	31.63	11.95	5.04	22.38	51.32	16.95	5.88	3.96	4.44	4.68	3.72	
13	6.96	25.32	8.95	5.04	11.70	46.47	12.70	19.30	3.84	4.32	4.56	3.72	
14	6.72	15.95	9.70	5.52	8.70	30.92	11.58	13.20	3.72	4.08	4.44	3.60	
15	6.48	12.57	7.83	6.00	7.32	21.96	11.20	11.58	3.60	4.08	4.32	3.48	
16	6.36	10.45	10.57	8.83	6.72	18.60	9.33	14.82	3.60	4.08	4.32	3.36	
17	6.24	13.32	10.45	10.20	6.36	14.70	8.58	9.20	3.48	3.96	4.20	3.36	
18	6.00	14.70	12.82	6.84	6.00	13.45	7.83	7.20	3.48	3.84	4.20	3.48	
19	7.32	18.18	23.50	5.76	5.52	25.60	7.58	6.24	3.36	3.84	4.80	3.36	
20	7.20	20.28	22.80	5.16	6.48	39.55	8.95	5.76	3.36	3.84	4.56	3.24	
21	6.24	13.95	15.57	4.92	6.36	37.30	11.58	5.40	3.36	3.84	4.32	3.12	
22	5.88	10.45	14.45	5.28	5.88	47.83	8.95	5.28	3.36	3.72	4.20	2.88	
23	6.00	8.20	11.45	8.70	5.64	33.52	9.08	5.04	3.24	3.48	4.08	2.76	
24	6.24	7.08	9.82	19.16	5.88	52.58	8.20	6.48	3.24	3.36	3.96	2.64	
25	6.24	7.83	8.20	40.78	5.52	43.26	10.20	7.70	3.24	3.36	3.84	2.52	
26	6.12	10.07	7.58	33.67	13.70	36.27	15.32	5.28	3.24	3.72	3.84	2.76	
27	5.04	7.32	7.70	28.54	17.07	33.96	13.07	4.92	3.24	3.96	3.72	3.12	
28	4.44	6.36	6.72	30.92	57.69	64.89	10.45	4.68	3.00	3.84	3.72	2.76	
29	4.32	6.24	7.20	29.66	105.85	49.02	9.20	4.56	2.88	4.08	3.72	2.64	
30	4.80	6.12	9.57	39.10	67.41	41.40	9.33	4.44	2.88	4.20		2.64	
31		5.76		52.40	37.60		9.20		2.88	15.57		2.64	
Total	280.95	414.19	280.70	445.68	578.13	899.39	637.58	216.01	113.64	3			

WATER YEAR : 2011
SOUTHERN PENINSULA EAST COAST
Khlong Tha Sae at Ban Tha Sae , Chumphon (X.64)

Lat 10 - 39 - 51 N Long 99 - 10 - 26 E

Location : on left bank near the Land Cooperation Office.

	Ban	Tha Sae	Amphoe	Tha Sae	Changwat	Chumphon
Drainage Area	946	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 6 meters from the top staff gage.				Elevation	+19.207 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1973 to date					
Rating Operation						
Period of Rating	1974 - 1975 , 1982 to date					
Rated by Flot	-					
Rated by Current Meter	1974 - 1975 , 1982 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.80	7.86	7.86	8.97	11.11	9.04	9.07	8.49	8.12	7.85	9.39	7.87	
2	8.55	7.85	7.84	10.99	10.88	8.80	8.85	8.46	8.11	7.86	9.17	7.86	
3	8.49	7.85	7.83	9.77	9.73	8.66	9.15	8.41	8.10	10.43	9.77	7.86	
4	8.34	7.85	7.80	9.48	9.08	8.86	9.05	8.32	8.09	9.37	9.03	7.85	
5	8.24	8.29	7.80	9.28	8.79	8.66	9.01	8.26	8.10	8.43	8.54	7.85	
6	8.15	8.00	7.91	8.87	8.61	8.48	8.75	8.23	8.09	8.25	8.37	7.87	
7	8.36	8.28	8.00	8.57	8.48	8.39	8.60	8.34	8.08	8.14	8.22	7.90	
8	8.34	8.43	8.02	8.41	8.39	8.37	8.74	8.26	8.07	8.06	8.14	7.87	
9	8.20	8.91	8.05	8.32	8.35	8.44	8.77	8.18	8.10	8.00	8.04	7.82	
10	8.11	9.16	8.02	8.25	8.32	8.40	8.54	8.17	8.16	8.00	8.04	7.82	
11	8.08	9.29	8.03	8.21	8.45	8.42	8.66	8.15	8.16	7.99	8.13	7.85	
12	8.05	8.97	8.16	8.26	8.75	9.04	8.99	8.20	8.12	7.98	8.12	8.26	
13	8.02	8.57	8.35	8.26	9.04	10.02	8.65	9.06	8.09	7.96	8.00	8.02	
14	8.00	8.33	8.41	8.21	8.67	9.18	8.51	10.23	8.07	7.93	8.02	8.03	
15	8.00	8.19	8.33	8.19	8.58	8.84	8.42	9.18	8.02	7.92	8.00	7.93	
16	8.00	8.26	8.22	8.26	8.43	8.60	8.38	8.78	7.95	7.91	8.00	7.87	
17	7.99	8.19	8.43	8.46	8.34	8.49	8.33	8.51	7.94	7.90	7.99	7.85	
18	7.98	8.38	8.51	8.32	8.38	8.42	8.32	8.37	7.92	7.90	7.98	8.01	
19	8.01	8.55	8.77	8.27	8.32	8.49	8.31	8.29	7.90	7.92	8.04	8.02	
20	8.00	8.27	11.50	8.19	8.28	8.50	8.29	8.25	7.90	7.92	8.14	7.89	
21	8.00	8.25	11.18	8.14	8.66	8.65	10.11	8.21	7.90	7.94	8.07	7.85	
22	7.99	8.11	9.47	8.17	8.43	9.07	9.42	8.18	7.89	7.95	8.02	7.84	
23	7.99	8.02	8.90	8.19	8.33	8.70	9.79	8.17	7.89	7.93	7.96	7.82	
24	7.98	7.98	8.58	8.27	8.22	8.65	8.83	8.16	7.88	7.92	7.93	7.82	
25	7.98	7.97	8.41	8.70	8.19	9.04	8.60	8.15	7.88	7.92	7.90	7.80	
26	7.97	7.96	8.31	9.72	8.17	8.78	9.25	8.15	7.87	8.02	7.90	7.80	
27	7.90	7.95	8.26	9.36	8.28	8.59	10.08	8.14	7.87	7.97	7.88	7.78	
28	7.88	7.93	8.29	9.01	9.38	9.99	9.54	8.14	7.87	7.93	7.90	7.80	
29	7.88	7.91	8.21	8.78	11.46	10.41	8.96	8.13	7.86	7.95	7.90	7.80	
30	7.87	7.90	9.18	9.40	10.85	9.41	8.74	8.13	7.86	7.97		7.79	
31		7.88		10.10	9.64		8.62		7.85	8.47		7.84	
Mean	8.11	8.24	8.49	8.75	8.92	8.85	8.88	8.39	7.99	8.12	8.23	7.88	
Max	8.80	9.29	11.50	10.99	11.46	10.41	10.11	10.23	8.16	10.43	9.77	8.26	11.50
Min	7.87	7.85	7.80	8.14	8.17	8.37	8.29	8.13	7.85	7.85	7.88	7.78	7.78
Annual Max Momentary Gage Height	12.70		m. (MSL.) ,				at 18.00 Hours , on Jun 20 , 2011						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	6.52	m. (MSL)					
Left Bank Elevation		19.25	m. (MSL.) ,										
Right Bank Elevation		18.88	m. (MSL.) ,			Drainage Area	946	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.50	2.40	2.40	25.33	79.52	26.90	27.57	14.52	6.90	2.25	35.25	2.55	
2	15.88	2.25	2.10	76.22	73.20	21.50	22.63	13.85	6.70	2.40	29.83	2.40	
3	14.52	2.25	1.95	44.75	43.75	18.35	29.37	12.73	6.50	61.25	44.75	2.40	
4	11.30	2.25	1.50	37.50	27.80	22.85	27.13	10.90	6.30	34.75	26.67	2.25	
5	9.30	10.30	1.50	32.50	21.27	18.35	26.23	9.70	6.50	13.18	15.65	2.25	
6	7.50	4.50	3.15	23.07	17.22	14.30	20.37	9.10	6.30	9.50	11.90	2.55	
7	11.70	10.10	4.50	16.32	14.30	12.30	17.00	11.30	6.10	7.30	8.90	3.00	
8	11.30	13.18	4.90	12.73	12.30	11.90	20.15	9.70	5.90	5.70	7.30	2.55	
9	8.50	23.97	5.50	10.90	11.50	13.40	20.83	8.10	6.50	4.50	5.30	1.80	
10	6.70	29.60	4.90	9.50	10.90	12.50	15.65	7.90	7.70	4.50	5.30	1.80	
11	6.10	32.75	5.10	8.70	13.63	12.95	18.35	7.50	7.70	4.35	7.10	2.25	
12	5.50	25.33	7.70	9.70	20.37	26.90	25.77	8.50	6.90	4.20	6.90	9.70	
13	4.90	16.32	11.50	9.70	26.90	51.00	18.12	27.35	6.30	3.90	4.50	4.90	
14	4.50	11.10	12.73	8.70	18.57	30.05	14.98	56.25	5.90	3.45	4.90	5.10	
15	4.50	8.30	11.10	8.30	16.55	22.40	12.95	30.05	4.90	3.30	4.50	3.45	
16	4.50	9.70	8.90	9.70	13.18	17.00	12.10	21.05	3.75	3.15	4.50	2.55	
17	4.35	8.30	13.18	13.85	11.30	14.52	11.10	14.98	3.60	3.00	4.35	2.25	
18	4.20	12.10	14.98	10.90	12.10	12.95	10.90	11.90	3.30	3.00	4.20	4.70	
19	4.70	15.88	20.83	9.90	10.90	14.52	10.70	10.30	3.00	3.30	5.30	4.90	
20	4.50	9.90	90.25	8.30	10.10	14.75	10.30	9.50	3.00	3.30	7.30	2.85	
21	4.50	9.50	81.45	7.30	18.35	18.12	53.25	8.70	3.00	3.60	5.90	2.25	
22	4.35	6.70	37.25	7.90	13.18	27.57	36.00	8.10	2.85	3.75	4.90	2.10	
23	4.35	4.90	23.75	8.30	11.10	19.25	45.25	7.90	2.85	3.45	3.90	1.80	
24	4.20	4.20	16.55	9.90	8.90	18.12	22.17	7.70	2.70	3.30	3.45	1.80	
25	4.20	4.05	12.73	19.25	8.30	26.90	17.00	7.50	2.70	3.30	3.00	1.50	
26	4.05	3.90	10.70	43.50	7.90	21.05	31.75	7.50	2.55	4.90	3.00	1.50	
27	3.00	3.75	9.70	34.50	10.10	16.77	52.50	7.30	2.55	4.05	2.70	1.20	
28	2.70	3.45	10.30	26.23	35.00	50.25	39.00	7.30	2.55	3.45	3.00	1.50	
29	2.70	3.15	8.70	21.05	89.15	60.75	25.10	7.10	2.40	3.75	3.00	1.50	
30	2.55	3.00	30.05	35.50	72.38	35.75	20.15	7.10	2.40	4.05		1.35	
31		2.70		53.00	41.50		17.45		2.25	14.08		2.10	
Total	202.55	299.78	469.85	653.00	781.22	683.92							

	Ban	-	Amphoe	Sungai Kolok	Changwat	Narathiwat
Drainage Area	1358	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank in front of gage observer's house.				Elevation	+10.000 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1988 to date					
Rating Operation						
Period of Rating	1988 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 59 discharge measurements made in 2011.					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.46	3.77	4.33	4.83	4.25	5.14	4.21	6.01	8.89	7.91	5.41	4.29	
2	6.85	3.92	4.18	4.64	4.12	5.53	4.06	5.87	8.23	9.55	5.89	4.25	
3	6.78	3.97	4.44	5.05	4.12	5.07	4.18	5.46	7.30	9.17	6.70	5.85	
4	6.43	3.81	4.47	5.03	4.12	4.86	4.14	5.64	6.61	8.48	6.84	6.46	
5	5.94	3.77	4.41	5.57	4.06	5.28	4.24	5.40	7.13	7.55	6.04	6.04	
6	5.77	3.81	4.99	5.25	4.00	5.21	4.14	5.55	8.06	6.61	5.55	6.43	
7	5.56	3.93	4.83	4.87	3.97	6.08	4.20	5.32	7.85	6.10	5.22	6.30	
8	5.21	3.85	5.09	5.08	4.09	6.29	5.62	5.07	6.90	5.76	4.96	5.33	
9	4.97	4.13	5.43	5.35	4.18	5.97	6.91	4.84	6.23	5.93	4.77	4.83	
10	5.50	4.70	5.97	5.18	4.07	5.88	6.64	4.68	6.62	5.89	4.61	4.54	
11	6.48	4.46	6.04	4.72	4.03	5.69	6.56	4.56	7.16	6.42	4.48	4.41	
12	6.06	4.28	5.68	4.48	4.49	5.37	6.30	4.47	7.15	6.98	4.51	4.43	
13	5.64	4.45	5.61	4.83	4.89	5.04	6.04	4.56	6.87	8.41	5.19	5.03	
14	5.33	4.28	6.61	6.01	4.52	5.26	5.70	4.87	6.47	8.71	4.76	4.64	
15	5.03	4.21	6.67	5.65	5.29	5.12	5.38	5.10	6.20	8.89	4.45	4.45	
16	4.76	4.65	6.24	5.21	6.28	5.45	5.93	5.35	6.73	8.89	4.34	4.28	
17	4.53	4.43	5.77	4.99	5.74	5.29	5.62	4.98	7.43	8.31	4.33	4.18	
18	4.78	4.35	5.36	5.22	5.07	4.97	5.25	5.03	7.74	7.74	4.54	4.26	
19	4.75	5.10	5.41	4.95	5.12	5.38	5.00	4.77	7.54	7.81	5.22	4.10	
20	4.45	5.25	5.27	4.92	5.44	5.02	4.75	4.81	7.68	8.44	4.81	3.99	
21	4.24	5.20	5.09	4.69	5.02	5.01	4.88	5.50	7.59	9.38	4.58	3.99	
22	4.10	4.98	4.96	5.12	4.68	4.82	4.93	6.86	7.56	9.17	4.34	4.22	
23	3.99	5.01	4.87	5.08	4.81	4.58	4.60	8.56	7.83	8.32	4.21	4.58	
24	3.91	5.05	4.65	4.82	5.22	4.42	4.44	9.82	7.89	7.15	4.14	5.61	
25	3.88	5.22	4.45	5.73	5.56	4.32	4.33	9.94	7.40	6.31	4.08	5.04	
26	3.84	5.10	4.44	5.50	5.35	4.38	4.42	9.86	6.78	5.86	4.03	4.53	
27	3.82	4.82	4.74	5.41	5.18	4.25	4.52	9.85	6.32	5.53	3.98	5.39	
28	3.88	4.59	5.45	5.25	4.86	4.10	4.76	9.75	6.15	5.32	4.11	5.25	
29	3.81	4.43	5.10	4.83	5.02	4.07	4.61	9.53	5.99	5.18	4.17	4.63	
30	3.80	4.39	4.78	4.59	4.83	4.34	4.67	9.24	5.70	5.44		4.38	
31		4.43		4.41	4.60		5.68		5.82	5.40		4.59	
Mean	5.05	4.46	5.18	5.07	4.74	5.07	5.06	6.38	7.09	7.31	4.84	4.85	
Max	7.46	5.25	6.67	6.01	6.28	6.29	6.91	9.94	8.89	9.55	6.84	6.	

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	170.90	14.25	29.90	47.05	27.50	58.60	26.30	95.45	289.45	202.25	69.40	28.70	
2	136.75	18.00	25.40	40.40	23.60	74.20	21.80	89.15	227.55	364.00	90.05	27.50	
3	132.90	19.25	33.40	55.00	23.60	55.80	25.40	71.40	161.50	319.70	128.50	88.25	
4	114.50	15.25	34.45	54.20	23.60	48.10	24.20	78.80	123.55	249.20	136.20	116.00	
5	92.30	14.25	32.35	75.80	21.80	64.20	27.20	69.00	152.15	176.75	96.80	96.80	
6	84.65	15.25	52.65	63.00	20.00	61.40	24.20	75.00	213.80	123.55	75.00	114.50	
7	75.40	18.25	47.05	48.45	19.25	98.60	26.00	65.80	197.75	99.50	61.80	108.50	
8	61.40	16.25	56.60	56.20	22.70	108.05	77.90	55.80	139.50	84.20	51.60	66.20	
9	51.95	23.90	70.20	67.00	25.40	93.65	140.05	47.40	105.35	91.85	44.95	47.05	
10	73.00	42.50	93.65	60.20	22.10	89.60	125.20	41.80	124.10	90.05	39.35	36.90	
11	117.00	34.10	96.80	43.20	20.90	81.05	121.00	37.60	153.80	114.00	34.80	32.35	
12	97.70	28.40	80.60	34.80	35.15	67.80	108.50	34.45	153.25	143.90	35.85	33.05	
13	78.80	33.75	77.45	47.05	49.15	54.60	96.80	37.60	137.85	242.90	60.60	54.20	
14	66.20	28.40	123.55	95.45	36.20	63.40	81.50	48.45	116.50	271.00	44.60	40.40	
15	54.20	26.30	126.85	79.25	64.60	57.80	68.20	57.00	104.00	289.45	33.75	33.75	
16	44.60	40.75	105.80	61.40	107.60	71.00	91.85	67.00	130.15	289.45	30.20	28.40	
17	36.55	33.05	84.65	52.65	83.30	64.60	77.90	52.30	168.95	234.35	29.90	25.40	
18	45.30	30.50	67.40	61.80	55.80	51.95	63.00	54.20	189.80	189.80	36.90	27.80	
19	44.25	57.00	69.40	51.25	57.80	68.20	53.00	44.95	176.10	194.75	61.80	23.00	
20	33.75	63.00	63.80	50.20	70.60	53.80	44.25	46.35	185.60	245.60	46.35	19.75	
21	27.20	61.00	56.60	42.15	53.80	53.40	48.80	73.00	179.35	343.70	38.30	19.75	
22	23.00	52.30	51.60	57.80	41.80	46.70	50.55	137.30	177.40	319.70	30.20	26.60	
23	19.75	53.40	48.45	56.20	46.35	38.30	39.00	256.40	196.25	235.20	26.30	38.30	
24	17.75	55.00	40.75	46.70	61.80	32.70	33.40	397.50	200.75	153.25	24.20	77.45	
25	17.00	61.80	33.75	82.85	75.40	29.60	29.90	412.50	167.00	108.95	22.40	54.60	
26	16.00	57.00	33.40	73.00	67.00	31.40	32.70	402.50	132.90	88.70	20.90	36.55	
27	15.50	46.70	43.90	69.40	60.20	27.50	36.20	401.25	109.40	74.20	19.50	68.60	
28	17.00	38.65	71.00	63.00	48.10	23.00	44.60	388.75	101.75	65.80	23.30	63.00	
29	15.25	33.05	57.00	47.05	53.80	22.10	39.35	361.60	94.55	60.20	25.10	40.05	
30	15.00	31.7											

WATER YEAR : 2011

SOUTHERN PENINSULA EAST COAST

Khlong Tha Taphao at Ban Wang Khrok , Chumphon (X.158)

Lat 10 - 35 - 34 N Long 99 - 08 - 43 E

Location : on right bank at the bridge on Chumphon - Prachuap Khiri Khan Highway.

	Ban	Wang Khrok	Amphoe	Tha Sae	Changwat	Chumphon
Drainage Area	1,814	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 1 meters from the top staff gage.				Elevation	+11.796 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1990 to date					
Rated by Flot	-					
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 32 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.41	3.37	3.44	4.22	6.49	5.01	4.98	3.97	3.54	3.36	4.78	3.37	
2	4.05	3.34	3.46	4.66	6.07	4.56	4.83	3.89	3.54	3.34	4.59	3.32	
3	3.92	3.33	3.50	5.10	5.26	4.41	6.16	3.87	3.53	5.66	4.58	3.29	
4	3.80	3.45	3.50	4.74	4.60	4.57	5.87	3.83	3.53	5.14	4.22	3.28	
5	3.75	3.57	3.47	4.35	4.02	4.35	5.86	3.74	3.52	4.18	3.90	3.30	
6	3.75	3.59	3.47	4.13	4.19	4.18	5.13	3.70	3.53	3.85	3.78	3.33	
7	4.77	3.58	3.47	3.93	4.10	4.12	4.76	3.70	3.53	3.68	3.67	3.38	
8	3.94	3.61	3.49	3.83	4.00	4.09	4.58	3.70	3.53	3.60	3.62	3.33	
9	3.74	4.27	3.50	3.76	4.04	4.06	4.57	3.70	3.56	3.56	3.59	3.30	
10	3.64	4.73	3.51	3.90	4.28	4.17	4.43	3.71	3.69	3.54	3.58	3.30	
11	3.61	5.54	3.77	3.78	4.41	4.78	4.52	3.70	3.62	3.50	3.56	3.34	
12	3.57	5.27	3.84	3.77	4.71	5.62	4.65	3.75	3.54	3.48	3.51	3.56	
13	3.54	4.33	3.95	3.77	5.00	5.73	4.33	4.72	3.52	3.47	3.49	3.53	
14	3.52	3.97	3.95	3.76	4.63	5.08	4.18	5.37	3.51	3.46	3.48	3.45	
15	3.51	3.82	3.93	3.78	4.30	4.85	4.13	4.45	3.48	3.42	3.45	3.39	
16	3.51	3.80	3.82	4.32	3.97	4.55	4.02	4.21	3.51	3.39	3.45	3.33	
17	3.47	3.76	3.88	4.22	3.93	4.23	3.98	3.97	3.49	3.39	3.44	3.50	
18	3.45	3.86	4.06	4.03	3.96	4.14	3.97	3.87	3.45	3.38	3.64	3.48	
19	3.50	4.07	4.80	3.88	3.91	4.19	3.93	3.81	3.43	3.38	3.80	3.44	
20	3.52	3.92	6.69	3.76	3.84	4.52	3.92	3.77	3.42	3.38	3.62	3.36	
21	3.51	3.80	6.60	3.73	3.99	4.85	5.26	3.74	3.40	3.45	3.54	3.30	
22	3.46	3.67	5.14	3.87	3.91	5.09	4.78	3.72	3.40	3.45	3.50	3.29	
23	3.40	3.59	4.35	4.05	3.78	4.86	5.04	3.70	3.40	3.48	3.47	3.27	
24	3.39	3.54	4.10	4.22	3.76	4.93	4.51	3.66	3.39	3.46	3.45	3.24	
25	3.37	3.52	3.94	4.45	3.75	5.22	4.34	3.63	3.39	3.44	3.42	3.20	
26	3.36	3.55	3.87	4.70	3.92	4.78	4.75	3.59	3.39	3.50	3.40	3.18	
27	3.35	3.53	3.89	4.96	4.10	4.79	4.81	3.57	3.38	3.42	3.40	3.17	
28	3.34	3.50	3.84	4.84	5.63	6.68	4.66	3.57	3.38	3.42	3.40	3.16	
29	3.32	3.50	3.77	4.79	8.16	6.23	4.27	3.54	3.37	3.45	3.38	3.15	
30	3.32	3.46	4.00	5.75	7.57	5.44	4.15	3.54	3.37	3.46		3.15	
31		3.45		6.44	5.80		4.02		3.36	4.23		3.14	
Mean	3.63	3.82	4.03	4.31	4.65	4.80	4.63	3.86	3.47	3.64	3.68	3.32	
Max	4.77	5.54	6.69	6.44	8.16	6.68	6.16	5.37	3.69	5.66	4.78	3.	

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	63.65	8.50	12.00	53.10	210.20	103.70	101.60	39.35	17.00	8.00	87.70	8.50	
2	43.75	7.00	13.00	79.90	178.25	73.40	91.10	34.95	17.00	7.00	75.35	6.00	
3	36.60	6.50	15.00	110.00	121.20	63.65	185.00	33.85	16.50	149.20	74.70	4.50	
4	30.00	12.50	15.00	85.10	76.00	74.05	163.90	31.65	16.50	112.80	53.10	4.00	
5	27.50	18.50	13.50	60.25	42.10	60.25	163.20	27.00	16.00	50.90	35.50	5.00	
6	27.50	19.50	13.50	48.15	51.45	50.90	112.10	25.00	16.50	32.75	29.00	6.50	
7	87.05	19.00	13.50	37.15	46.50	47.60	86.40	25.00	16.50	24.00	23.50	9.00	
8	37.70	20.50	14.50	31.65	41.00	45.95	74.70	25.00	16.50	20.00	21.00	6.50	
9	27.00	55.85	15.00	28.00	43.20	44.30	74.05	25.00	18.00	18.00	19.50	5.00	
10	22.00	84.45	15.50	35.50	56.40	50.35	64.95	25.50	24.50	17.00	19.00	5.00	
11	20.50	140.80	28.50	29.00	63.65	87.70	70.80	25.00	21.00	15.00	18.00	7.00	
12	18.50	121.90	32.20	28.50	83.15	146.40	79.25	27.50	17.00	14.00	15.50	18.00	
13	17.00	59.15	38.25	28.50	103.00	154.10	59.15	83.80	16.00	13.50	14.50	16.50	
14	16.00	39.35	38.25	28.00	77.95	108.60	50.90	128.90	15.50	13.00	14.00	12.50	
15	15.50	31.10	37.15	29.00	57.50	92.50	48.15	66.25	14.00	11.00	12.50	9.50	
16	15.50	30.00	31.10	58.60	39.35	72.75	42.10	52.55	15.50	9.50	12.50	6.50	
17	13.50	28.00	34.40	53.10	37.15	53.65	39.90	39.35	14.50	9.50	12.00	15.00	
18	12.50	33.30	44.30	42.65	38.80	48.70	39.35	33.85	12.50	9.00	22.00	14.00	
19	15.00	44.85	89.00	34.40	36.05	51.45	37.15	30.55	11.50	9.00	30.00	12.00	
20	16.00	36.60	226.20	28.00	32.20	70.80	36.60	28.50	11.00	9.00	21.00	8.00	
21	15.50	30.00	219.00	26.50	40.45	92.50	121.20	27.00	10.00	12.50	17.00	5.00	
22	13.00	23.50	112.80	33.85	36.05	109.30	87.70	26.00	10.00	12.50	15.00	4.50	
23	10.00	19.50	60.25	43.75	29.00	93.20	105.80	25.00	10.00	14.00	13.50	3.50	
24	9.50	17.00	46.50	53.10	28.00	98.10	70.15	23.00	9.50	13.00	12.50	2.00	
25	8.50	16.00	37.70	66.25	27.50	118.40	59.70	21.50	9.50	12.00	11.00	0.00	
26	8.00	17.50	33.85	82.50	36.60	87.70	85.75	19.50	9.50	15.00	10.00	0.00	
27	7.50	16.50	34.95	100.20	46.50	88.35	89.70	18.50	9.00	11.00	10.00	0.00	
28	7.00	15.00	32.20	91.80	147.10	225.40	79.90	18.50	9.00	11.00	10.00	0.00	
29	6.00	15.00	28.50	88.35	347.60	190.25	55.85	17.00	8.50	12.50	9.00	0.00	
30	6.00	13.00	41.00	155.50	297.45	133.80	49.25	17.00	8.50	13.00			

WATER YEAR : 2011
SOUTHERN PENINSULA EAST COAST

Upper Khlong Chumphon at Ban Tha Mai Lai , Chumphon (X.201A)

Lat 10 - 30 - 12 N Long 98 - 57 - 52 E

Location : on right bank at the bridge.

	Ban	Tha Mai Lai	Amphoe	Mueang	Changwat	Chumphon
Drainage Area	122	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+42.444 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.46	37.07	37.25	37.40	38.19	37.77	38.31	37.34	37.17	37.05	37.26	36.99	
2	37.40	37.12	37.24	37.58	37.95	37.84	38.75	37.29	37.17	37.25	37.25	36.99	
3	37.32	37.12	37.22	37.61	37.74	37.83	38.65	37.29	37.16	39.02	37.22	36.99	
4	37.28	37.08	37.20	37.43	37.72	37.76	38.81	37.29	37.17	37.45	37.17	36.99	
5	37.62	37.17	37.19	37.34	37.64	37.69	38.52	37.28	37.16	37.33	37.12	37.00	
6	37.51	37.20	37.18	37.31	37.56	37.63	38.18	37.26	37.16	37.22	37.09	36.99	
7	37.50	37.42	37.17	37.29	37.54	37.60	37.98	37.25	37.15	37.18	37.08	36.98	
8	37.38	37.45	37.15	37.28	37.50	37.58	37.87	37.24	37.15	37.16	37.07	36.99	
9	37.31	37.65	37.21	37.26	37.53	37.64	37.80	37.29	37.16	37.15	37.06	36.99	
10	37.26	38.30	37.34	37.27	37.50	38.11	37.77	37.26	37.16	37.14	37.06	37.00	
11	37.28	37.95	37.44	37.29	37.52	38.35	37.73	37.25	37.16	37.14	37.05	37.00	
12	37.22	37.82	37.59	37.29	37.66	38.64	37.74	37.29	37.15	37.12	37.05	36.98	
13	37.19	37.62	37.62	37.28	37.48	38.23	37.64	37.35	37.15	37.10	37.05	36.98	
14	37.18	37.53	37.44	37.32	37.45	38.03	37.62	37.29	37.15	37.09	37.05	36.98	
15	37.16	37.45	37.42	37.39	37.42	37.91	37.57	37.31	37.13	37.09	37.05	36.98	
16	37.16	37.42	37.56	37.49	37.39	37.81	37.53	37.31	37.14	37.09	37.06	36.98	
17	37.14	37.41	37.47	37.52	37.39	37.73	37.50	37.26	37.13	37.08	37.06	36.97	
18	37.14	37.41	37.57	37.39	37.37	37.74	37.48	37.24	37.12	37.08	37.17	36.98	
19	37.12	37.39	37.77	37.33	37.35	38.47	37.46	37.23	37.11	37.07	37.09	36.98	
20	37.11	37.47	37.66	37.27	37.35	38.43	37.43	37.22	37.10	37.07	37.08	36.95	
21	37.10	37.42	37.58	37.28	37.32	38.57	37.45	37.21	37.10	37.07	37.06	36.94	
22	37.10	37.35	37.58	37.44	37.30	38.30	37.50	37.20	37.10	37.07	37.04	36.94	
23	37.11	37.31	37.52	37.41	37.30	38.50	37.45	37.20	37.10	37.06	37.03	36.94	
24	37.10	37.29	37.44	38.19	37.35	38.49	37.43	37.43	37.10	37.06	37.03	36.94	
25	37.09	37.28	37.40	38.08	37.48	38.37	37.44	37.29	37.11	37.06	37.02	36.93	
26	37.07	37.35	37.38	38.03	37.64	38.27	37.53	37.24	37.09	37.05	37.02	36.98	
27	37.05	37.34	37.40	38.02	38.62	38.79	37.45	37.22	37.09	37.06	37.01	36.95	
28	37.05	37.29	37.37	38.38	40.16	38.67	37.39	37.21	37.08	37.06	37.00	36.94	
29	37.04	37.27	37.34	38.06	39.11	38.45	37.37	37.21	37.08	37.07	37.00	36.94	
30	37.11	37.26	37.34	38.81	38.58	38.31	37.36	37.19	37.08	37.06		36.93	
31	37.24		38.34	38.18			37.34		37.07	37.38		36.94	
Mean	37.22	37.40	37.40	37.59	37.75	38.12	37.74	37.26	37.13	37.19	37.08	36.97	
Max	37.62	38.30	37.77	38.81	40.16	38.79	38.81	37.43	37.17	39.02	37.26	37.00	40.16
Min	37.04	37.07	37.15	37.26	37.30	37.58	37.34	37.19	37.07	37.05	37.00	36.93	36.93
Annual Max Momentary Gage Height	40.47		m. (MSL.) ,			at 18.00 Hours , on Sep 27 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	36.35	m. (MSL)					
Left Bank Elevation	42.50		m. (MSL.) ,										
Right Bank Elevation	42.54		m. (MSL.) ,			Drainage Area	122	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.19	1.56	3.25	5.20	21.73	11.65	25.03	4.42	2.36	1.40	3.38	0.95		
2	5.20	1.96	3.12	8.17	15.50	13.08	38.95	3.77	2.36	3.25	3.25	0.95		
3	4.16	1.96	2.86	8.69	11.09	12.86	35.45	3.77	2.28	49.49	2.86	0.95		
4	3.64	1.64	2.60	5.69	10.72	11.46	41.10	3.77	2.36	6.03	2.36	0.95		
5	8.87	2.36	2.52	4.42	9.24	10.16	31.22	3.64	2.28	4.29	1.96	1.00		
6	7.01	2.60	2.44	4.03	7.84	9.06	21.46	3.38	2.28	2.86	1.72	0.95		
7	6.85	5.53	2.36	3.77	7.51	8.50	16.16	3.25	2.20	2.44	1.64	0.90		
8	4.94	6.03	2.20	3.64	6.85	8.17	13.74	3.12	2.20	2.28	1.56	0.95		
9	4.03	9.43	2.73	3.38	7.34	9.24	12.20	3.77	2.28	2.20	1.48	0.95		
10	3.38	24.75	4.42	3.51	6.85	19.57	11.65	3.38	2.28	2.12	1.48	1.00		
11	3.64	15.50	5.86	3.77	7.18	26.12	10.91	3.25	2.28	2.12	1.40	1.00		
12	2.86	12.64	8.34	3.77	9.61	35.10	11.09	3.77	2.20	1.96	1.40	0.90		
13	2.52	8.87	8.87	3.64	6.52	22.82	9.24	4.55	2.20	1.80	1.40	0.90		
14	2.44	7.34	5.86	4.16	6.03	17.41	8.87	3.77	2.20	1.72	1.40	0.90		
15	2.28	6.03	5.53	5.07	5.53	14.62	8.01	4.03	2.04	1.72	1.40	0.90		
16	2.28	5.53	7.84	6.69	5.07	12.42	7.34	4.03	2.12	1.72	1.48	0.90		
17	2.12	5.36	6.36	7.18	5.07	10.91	6.85	3.38	2.04	1.64	1.48	0.85		
18	2.12	5.36	8.01	5.07	4.81	11.09	6.52	3.12	1.96	1.64	2.36	0.90		
19	1.96	5.07	11.65	4.29	4.55	29.67	6.19	2.99	1.88	1.56	1.72	0.90		
20	1.88	6.36	9.61	3.51	4.55	28.43	5.69	2.86	1.80	1.56	1.64	0.75		
21	1.80	5.53	8.17	3.64	4.16	32.77	6.03	2.73	1.80	1.56	1.48	0.70		
22	1.80	4.55	8.17	5.86	3.90	24.75	6.85	2.60	1.80	1.56	1.32	0.70		
23	1.88	4.03	7.18	5.36	3.90	30.60	6.03	2.60	1.80	1.48	1.24	0.70		
24	1.80	3.77	5.86	21.73	4.55	30.29	5.69	5.69	1.80	1.48	1.24	0.70		
25	1.72	3.64	5.20	18.76	6.52	26.67	5.86	3.77	1.88	1.48	1.16	0.65		
26	1.56	4.55	4.94	17.41	9.24	23.92	7.34	3.12	1.72	1.40	1.16	0.90		
27	1.40	4.42	5.20	17.14	34.40	40.35	6.03	2.86	1.72	1.48	1.08	0.75		
28	1.40	3.77	4.81	26.95	108.36	36.15	5.07	2.73	1.64	1.48	1.00	0.70		
29	1.32	3.51	4.42	18.22	53.50	29.05	4.81	2.73	1.64	1.56	1.00	0.70		
30	1.88	3.38	4.42	41.10	33.08	25.03	4.68	2.52	1.64	1.48		0.65		
31		3.12		25.85	21.46		4.42		1.56	4.94		0.70		
Total	94.93	180.15	164.80	299.67	446.66	621.92	390.48	103.37	62.60	113.70	48.05	26.30	2552.63	CMSDAY
Mean	3.16													

WATER YEAR : 2011
SOUTHERN PENINSULA EAST COAST

Khlong Tha Sae at Ban Wang Maprang , Chumphon (X.247)

Lat 10 - 43 - 58 N Long 99 - 10 - 42 E

Location : on left bank at Ban Wang Maprang.

	Ban	Wang Maprang	Amphoe	Tha Sae	Changwat	Chumphon
Drainage Area	656	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+12.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+23.427 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.93	12.36	12.39	13.94	14.08	13.12	13.13	12.71	12.23	12.05	13.41	12.03	
2	12.75	12.35	12.38	15.01	13.85	12.90	12.95	12.66	12.23	12.06	13.23	12.03	
3	12.69	12.35	12.37	14.30	13.37	12.85	13.21	12.61	12.22	14.36	13.02	12.03	
4	12.68	12.35	12.36	13.66	13.28	12.94	13.15	12.53	12.21	13.33	12.87	12.02	
5	12.67	12.72	12.36	13.45	13.19	12.81	13.07	12.46	12.20	12.53	12.74	12.02	
6	12.65	12.50	12.42	13.17	13.01	12.69	12.86	12.42	12.20	12.31	12.57	12.04	
7	12.86	12.77	12.50	12.91	12.97	12.61	12.71	12.54	12.19	12.15	12.42	12.09	
8	12.84	12.84	12.52	12.82	12.85	12.57	12.85	12.46	12.18	12.10	12.34	12.07	
9	12.70	13.09	12.56	12.78	12.75	12.62	12.83	12.38	12.17	12.09	12.24	12.01	
10	12.61	13.30	12.58	12.75	12.72	12.60	12.71	12.36	12.17	12.09	12.24	12.01	
11	12.58	13.41	12.63	12.73	12.84	12.66	12.81	12.35	12.16	12.09	12.33	12.01	
12	12.55	13.17	12.66	12.75	13.15	13.38	13.15	12.40	12.15	12.08	12.32	12.37	
13	12.52	12.77	12.85	12.76	13.38	14.10	12.76	13.14	12.15	12.07	12.20	12.17	
14	12.50	12.63	12.91	12.71	13.07	13.26	12.61	14.19	12.14	12.04	12.22	12.17	
15	12.50	12.49	12.83	12.69	12.98	12.93	12.57	13.16	12.13	12.04	12.20	12.08	
16	12.50	12.56	12.72	12.76	12.83	12.81	12.53	12.84	12.12	12.03	12.19	12.07	
17	12.49	12.49	12.93	12.96	12.74	12.71	12.49	12.61	12.12	12.03	12.19	12.05	
18	12.48	12.58	13.00	12.82	12.78	12.64	12.48	12.55	12.11	12.02	12.18	12.15	
19	12.51	12.78	13.27	12.71	12.77	12.70	12.47	12.50	12.10	12.02	12.23	12.19	
20	12.50	12.57	15.29	12.69	12.74	12.70	12.45	12.45	12.09	12.02	12.34	12.04	
21	12.50	12.55	14.30	12.64	13.06	12.85	14.08	12.43	12.08	12.03	12.24	12.01	
22	12.47	12.48	13.95	12.67	12.81	13.13	13.40	12.42	12.08	12.05	12.14	12.01	
23	12.42	12.47	13.41	12.69	12.75	12.84	13.76	12.41	12.07	12.06	12.13	12.01	
24	12.40	12.46	13.14	12.77	12.65	12.74	12.89	12.40	12.06	12.10	12.14	12.01	
25	12.39	12.45	12.90	13.21	12.62	13.10	12.83	12.38	12.05	12.14	12.13	12.01	
26	12.37	12.45	12.80	14.12	12.57	12.88	13.16	12.26	12.05	12.18	12.13	12.01	
27	12.35	12.44	12.74	13.63	12.68	12.71	14.04	12.24	12.04	12.16	12.13	12.01	
28	12.34	12.43	12.79	13.26	13.78	13.96	13.49	12.24	12.04	12.14	12.12	12.01	
29	12.33	12.42	12.72	13.08	14.48	14.37	13.05	12.23	12.04	12.14	12.12	12.00	
30	12.33	12.40	13.15	13.60	13.99	13.37	12.84	12.23	12.03	12.16		12.00	
31		12.39	14.30	13.45			12.72		12.03	12.47		12.00	
Mean	12.55	12.61	12.91	13.17	13.10	12.99	12.97	12.55	12.12	12.23	12.37	12.06	
Max	12.93	13.41	15.29	15.01	14.48	14.37	14.08	14.19	12.23	14.36	13.41	12.37	15.29
Min	12.33	12.35	12.36	12.64	12.57	12.57	12.45	12.23	12.03	12.02	12.12	12.00	12.00
Annual Max Momentary Gage Height	15.48		m. (MSL.) ,			at 06.00 Hours , on Jun 20 , 2011							
Zero Gage at Bottom Elevation	12.00		m. (MSL.) ,		River Bed	11.08	m. (MSL)						
Left Bank Elevation	25.21		m. (MSL.) ,										
Right Bank Elevation	25.16		m. (MSL.) ,		Drainage Area	656	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.30	7.60	8.05	46.90	52.20	22.62	22.86	13.83	5.65	3.18	30.29	2.90	
2	14.57	7.45	7.90	93.00	43.75	17.65	18.72	12.91	5.65	3.31	25.32	2.90	
3	13.46	7.45	7.75	61.15	29.18	16.58	24.78	11.98	5.50	63.64	20.27	2.90	
4	13.28	7.45	7.60	37.66	26.70	18.51	23.32	10.54	5.35	28.08	17.00	2.77	
5	13.09	14.02	7.60	31.45	24.26	15.72	21.44	9.28	5.20	10.54	14.39	2.77	
6	12.72	10.00	8.56	23.80	20.04	13.46	16.79	8.56	5.20	6.85	11.26	3.04	
7	16.79	14.95	10.00	17.86	19.16	11.98	13.83	10.72	5.06	4.52	8.56	3.72	
8	16.36	16.36	10.36	15.93	16.58	11.26	16.58	9.28	4.93	3.85	7.30	3.44	
9	13.65	21.92	11.08	15.13	14.57	12.17	16.14	7.90	4.80	3.72	5.80	2.64	
10	11.98	27.25	11.44	14.57	14.02	11.80	13.83	7.60	4.80	3.72	5.80	2.64	
11	11.44	30.29	12.35	14.20	16.36	12.91	15.72	7.45	4.66	3.72	7.15	2.64	
12	10.90	23.80	12.91	14.57	23.32	29.45	23.32	8.20	4.52	3.58	7.00	7.75	
13	10.36	14.95	16.58	14.76	29.45	53.00	14.76	23.09	4.52	3.44	5.20	4.80	
14	10.00	12.35	17.86	13.83	21.44	26.15	11.98	56.60	4.39	3.04	5.50	4.80	
15	10.00	9.82	16.14	13.46	19.37	18.30	11.26	23.56	4.26	3.04	5.20	3.58	
16	10.00	11.08	14.02	14.76	16.14	15.72	10.54	16.36	4.12	2.90	5.06	3.44	
17	9.82	9.82	18.30	18.94	14.39	13.83	9.82	11.98	4.12	2.90	5.06	3.18	
18	9.64	11.44	19.80	15.93	15.13	12.54	9.64	10.90	3.98	2.77	4.93	4.52	
19	10.18	15.13	26.43	13.83	14.95	13.65	9.46	10.00	3.85	2.77	5.65	5.06	
20	10.00	11.26	107.23	13.46	14.39	13.65	9.10	9.10	3.72	2.77	7.30	3.04	
21	10.00	10.90	61.15	12.54	21.21	16.58	52.20	8.74	3.58	2.90	5.80	2.64	
22	9.46	9.64	47.25	13.09	15.72	22.86	30.00	8.56	3.58	3.18	4.39	2.64	
23	8.56	9.46	30.29	13.46	14.57	16.36	40.76	8.38	3.44	3.31	4.26	2.64	
24	8.20	9.28	23.09	14.95	12.72	14.39	17.44	8.20	3.31	3.85	4.39	2.64	
25	8.05	9.10	17.65	24.78	12.17	22.15	16.14	7.90	3.18	4.39	4.26	2.64	
26	7.75	9.10	15.50	53.80	11.26	17.22	23.56	6.10	3.18	4.93	4.26	2.64	
27	7.45	8.92	14.39	36.73	13.28	13.83	50.60	5.80	3.04	4.66	4.26	2.64	
28	7.30	8.74	15.31	26.15	41.38	47.60	32.61	5.80	3.04	4.39	4.12	2.64	
29	7.15	8.56	14.02	21.68	68.78	64.06	20.98	5.65	3.04	4.39	4.12	2.50	
30	7.15	8.20	23.32	35.80	48.65	29.18	16.36	5.65	2.90	4.66		2.50	
31		8.05		61.15	31.45		14.02		2.90	9.46		2.50	
Total	327.61	384.34	613										

WATER YEAR : 2011

SOUTHERN PENINSULA EAST COAST

Khlong Rap Ro at Ban Hat Nai , Chumphon (X.248)

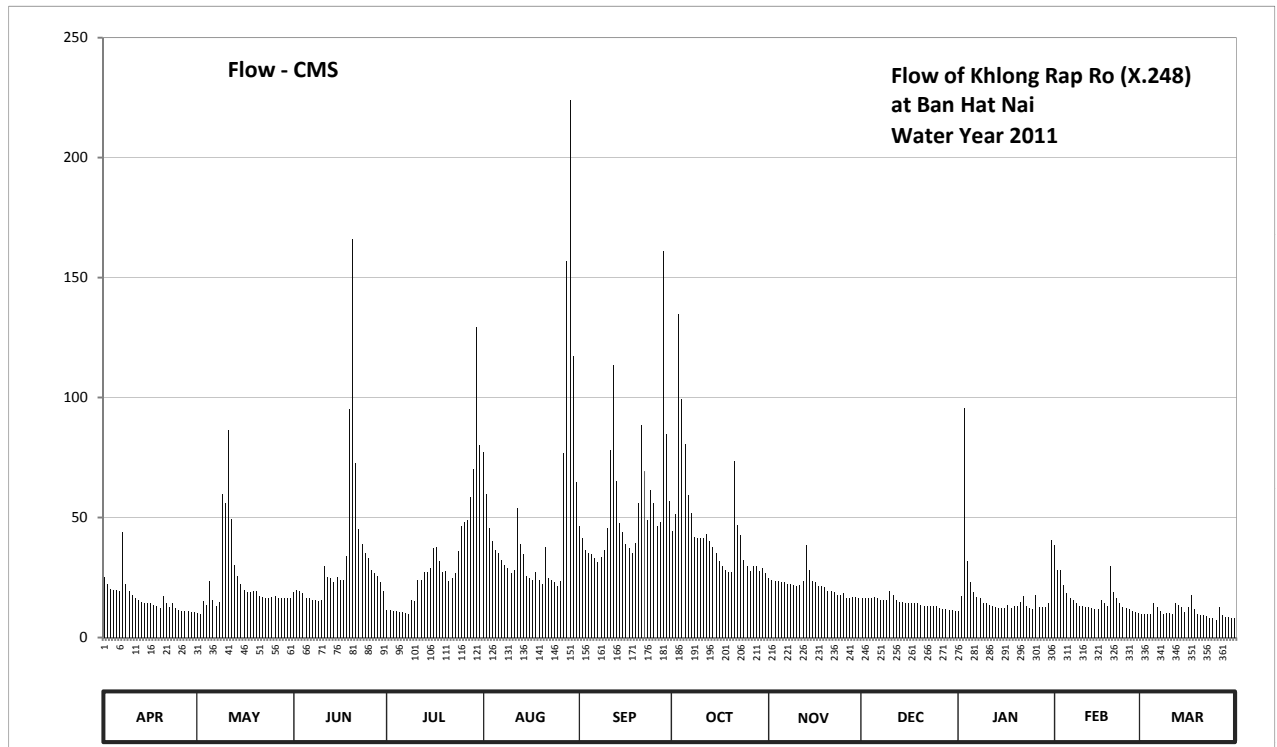
Lat 10 - 38 - 16 N Long 99 - 03 - 01 E

Location : on left bank at Ban Hat Nai.

	Ban	Hat Nai	Amphoe	Tha Sae	Changwat	Chumphon
Drainage Area	691	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+16.734	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+27.734 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2006 to date					
Rating Operation						
Period of Rating	2006 to date					
Rated by Flot	-					
Rated by Current Meter	2006 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.44	18.14	18.32	18.17	19.28	18.81	18.78	18.43	18.27	18.16	18.68	18.13	
2	18.39	18.13	18.34	18.17	19.02	18.73	18.89	18.42	18.27	18.29	18.50	18.12	
3	18.35	18.25	18.33	18.16	18.80	18.65	20.06	18.41	18.27	19.54	18.50	18.12	
4	18.34	18.22	18.31	18.16	18.71	18.63	19.59	18.41	18.27	18.57	18.38	18.13	
5	18.34	18.41	18.27	18.15	18.65	18.62	19.33	18.40	18.28	18.40	18.31	18.23	
6	18.33	18.26	18.27	18.15	18.63	18.59	19.01	18.40	18.27	18.32	18.27	18.20	
7	18.77	18.21	18.26	18.14	18.58	18.56	18.90	18.39	18.26	18.28	18.26	18.16	
8	18.39	18.24	18.26	18.13	18.54	18.60	18.74	18.39	18.26	18.27	18.23	18.13	
9	18.33	19.02	18.25	18.26	18.51	18.65	18.73	18.38	18.26	18.23	18.21	18.14	
10	18.30	18.96	18.26	18.25	18.47	18.80	18.73	18.37	18.33	18.23	18.21	18.14	
11	18.27	19.41	18.53	18.42	18.50	19.29	18.73	18.38	18.30	18.22	18.20	18.13	
12	18.26	18.86	18.44	18.42	18.93	19.78	18.76	18.41	18.26	18.21	18.20	18.23	
13	18.24	18.54	18.43	18.48	18.69	19.10	18.71	18.68	18.24	18.20	18.19	18.22	
14	18.23	18.45	18.40	18.48	18.62	18.83	18.67	18.50	18.24	18.19	18.18	18.20	
15	18.23	18.39	18.44	18.51	18.45	18.77	18.63	18.41	18.23	18.19	18.18	18.15	
16	18.23	18.34	18.42	18.66	18.43	18.69	18.57	18.40	18.23	18.19	18.26	18.20	
17	18.22	18.32	18.42	18.67	18.42	18.66	18.53	18.37	18.23	18.22	18.23	18.30	
18	18.21	18.32	18.61	18.57	18.48	18.63	18.50	18.37	18.23	18.19	18.21	18.18	
19	18.19	18.33	19.53	18.48	18.42	18.70	18.48	18.36	18.23	18.21	18.53	18.13	
20	18.29	18.33	20.44	18.49	18.39	18.96	18.48	18.33	18.22	18.21	18.32	18.11	
21	18.23	18.29	19.21	18.41	18.67	19.44	19.22	18.33	18.21	18.24	18.27	18.11	
22	18.20	18.28	18.79	18.43	18.43	19.16	18.82	18.32	18.21	18.29	18.23	18.10	
23	18.23	18.27	18.69	18.47	18.42	18.85	18.75	18.30	18.21	18.21	18.20	18.08	
24	18.19	18.27	18.63	18.64	18.40	19.04	18.58	18.30	18.21	18.19	18.19	18.08	
25	18.17	18.28	18.59	18.81	18.37	18.96	18.53	18.31	18.21	18.18	18.18	18.06	
26	18.16	18.29	18.50	18.84	18.41	18.81	18.49	18.27	18.19	18.30	18.16	18.20	
27	18.16	18.27	18.47	18.85	19.27	18.84	18.53	18.27	18.18	18.20	18.15	18.11	
28	18.16	18.27	18.45	19.00	20.33	20.38	18.53	18.28	18.18	18.20	18.14	18.09	
29	18.15	18.27	18.40	19.17	21.12	19.39	18.49	18.28	18.17	18.20	18.13	18.09	
30	18.15	18.27	18.33	19.99	19.83	18.97	18.51	18.27	18.17	18.23		18.08	
31		18.27		19.32	19.09		18.47		18.16	18.72		18.08	
Mean	18.27	18.39	18.55	18.54	18.80	18.93	18.77	18.37	18.23	18.30	18.27	18.14	
Max	18.77	19.41	20.44	19.99	21.12	20.38	20.06	18.68	18.33	19.54	18.68	18.30	21.12
Min	18.15	18.13	18.25	18.13	18.37	18.56	18.47	18.27	18.16	18.16	18.13	18.06	18.06
Annual Max Momentary Gage Height		21.30	m. (MSL.) ,		at 06.00 Hours , on Aug 29 , 2011								
Zero Gage at Bottom Elevation		16.73	m. (MSL.) ,		River Bed	16.53	m. (MSL)						
Left Bank Elevation		27.36	m. (MSL.) ,										
Right Bank Elevation		27.35	m. (MSL.) ,		Drainage Area	691	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.10	10.32	18.84	11.46	77.40	46.25	44.39	24.58	16.24	11.08	38.34	9.94	
2	22.48	9.94	19.88	11.46	59.94	41.36	51.45	24.05	16.24	17.28	28.25	9.56	
3	20.40	15.20	19.36	11.08	45.60	36.52	134.80	23.53	16.24	95.65	28.25	9.56	
4	19.88	13.64	18.32	11.08	40.15	35.31	99.27	23.53	16.24	31.92	21.96	9.94	
5	19.88	23.53	16.24	10.70	36.52	34.71	80.77	23.00	16.76	23.00	18.32	14.16	
6	19.36	15.72	16.24	10.70	35.31	32.97	59.27	23.00	16.24	18.84	16.24	12.60	
7	43.79	13.12	15.72	10.32	32.45	31.40	52.10	22.48	15.72	16.76	15.72	11.08	
8	22.48	14.68	15.72	9.94	30.35	33.50	41.97	22.48	15.72	16.24	14.16	9.94	
9	19.36	59.94	15.20	15.72	28.78	36.52	41.36	21.96	15.72	14.16	13.12	10.32	
10	17.80	56.00	15.72	15.20	26.67	45.60	41.36	21.44	19.36	14.16	13.12	10.32	
11	16.24	86.23	29.83	24.05	28.25	78.08	41.36	21.96	17.80	13.64	12.60	9.94	
12	15.72	49.50	25.10	24.05	54.05	113.50	43.18	23.53	15.72	13.12	12.60	14.16	
13	14.68	30.35	24.58	27.20	38.95	65.30	40.15	38.34	14.68	12.60	12.22	13.64	
14	14.16	25.63	23.00	27.20	34.71	47.55	37.74	28.25	14.68	12.22	11.84	12.60	
15	14.16	22.48	25.10	28.78	25.63	43.79	35.31	23.53	14.16	12.22	11.84	10.70	
16	14.16	19.88	24.05	37.13	24.58	38.95	31.92	23.00	14.16	12.22	15.72	12.60	
17	13.64	18.84	24.05	37.74	24.05	37.13	29.83	21.44	14.16	13.64	14.16	17.80	
18	13.12	18.84	34.11	31.92	27.20	35.31	28.25	21.44	14.16	12.22	13.12	11.84	
19	12.22	19.36	94.93	27.20	24.05	39.55	27.20	20.92	14.16	13.12	29.83	9.94	
20	17.28	19.36	165.80	27.72	22.48	56.00	27.20	19.36	13.64	13.12	18.84	9.18	
21	14.16	17.28	72.67	23.53	37.74	88.40	73.35	19.36	13.12	14.68	16.24	9.18	
22	12.60	16.76	45.00	24.58	24.58	69.32	46.90	18.84	13.12	17.28	14.16	8.80	
23	14.16	16.24	38.95	26.67	24.05	48.85	42.58	17.80	13.12	13.12	12.60	8.04	
24	12.22	16.24	35.31	35.92	23.00	61.28	32.45	17.80	13.12	12.22	12.22	8.04	
25	11.46	16.76	32.97	46.25	21.44	56.00	29.83	18.32	13.12	11.84	11.84	7.28	
26	11.08	17.28	28.25	48.20	23.53	46.25	27.72	16.24	12.22	17.80	11.08	12.60	
27	11.08	16.24	26.67	48.85	76.73	48.20	29.83	16.24	11.84	12.60	10.70	9.18	
28	11.08	16.24	25.63	58.60	156.72	160.85	29.83	16.76	11.84	12.60	10.32	8.42	
29	10.70	16.24	23.00	69.99	224.00	84.82	27.72	16.76	11.46	12.60	9.94	8.42	
30	10.70	16.24	19.36	129.25	117.25	56.65	28.78	16.24	11.46	14.16		8.04	
31		16.24		80.10	64.63		26.67		11.08	40.76		8.04	
Total	495.15	724.32	989.60	1002.59	1510.79	1649.92	1384.54	646.18	447.30	566.87	469.35	325.86	10212.47 CMSDAY
Mean	16.50	23.37	32.99	32.34	48.74	55.00	44.66	21.54	14.43	18.29	16.18	10.51	27.90 CMS
Max	43.79	86.23	165.80	129.25	224.00	160.85	134.80	38.34	19.36	95.65	38.34	17.80	224.00 CMS
Min	10.70	9.94	15.20	9.94	21.44	31.40	26.67	16.24	11.08	11.08	9.94	7.28	7.28 CMS
Runoff	42.78	62.58	85.50	86.62	130.53	142.55	119.62	55.83	38.65	48.98	40.55	28.15	882.36 MCM
Momentary Peak	239.50 CMS. at 21.30 m. (MSL.) at 06.00 Hours , on Aug 29 , 2011												
Runoff Yield	40.37	Liters/Second/Square KM.			Momentary Peak Yield			346.499	Liters/Second/Square KM.				

WATER YEAR : 2011

SOUTHERN PENINSULA EAST COAST

Lower Khlong Tako at Ban Nong Chik , Chumphon (X.270)

Lat 09 - 57 - 15 N Long 99 - 04 - 47 E

Location : on left bank at Ban Nong Chik.

	Ban	Nong Chik	Amphoe	Thung Tako	Changwat	Chumphon
Drainage Area	68	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank downstream at the footpath.				Elevation	+9.930 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.77	2.37	2.36	3.32	2.56	2.49	2.63	2.78	2.61	2.50	3.29	2.28	
2	3.37	2.35	2.36	3.03	2.44	2.43	2.83	2.97	2.55	6.97	2.96	2.27	
3	3.14	2.36	2.36	2.85	2.37	2.39	2.94	2.78	2.52	7.83	2.84	2.27	
4	3.02	2.37	2.36	2.76	2.34	2.42	2.85	2.68	2.61	4.83	2.79	2.27	
5	3.04	2.36	2.36	2.60	2.29	2.38	2.73	2.58	2.58	3.73	2.68	2.29	
6	3.05	2.60	2.36	2.50	2.27	2.36	2.61	2.51	2.49	3.46	2.61	2.29	
7	3.08	2.53	2.35	2.43	2.24	2.35	2.52	2.48	2.45	3.23	2.57	2.28	
8	2.91	2.69	2.35	2.38	2.21	2.35	2.47	2.42	2.42	3.12	2.53	2.25	
9	2.80	3.38	2.35	2.36	2.20	2.35	2.43	2.39	2.54	3.05	2.51	2.31	
10	2.71	3.62	2.35	2.36	2.23	2.64	2.40	2.37	2.97	3.00	2.48	2.29	
11	2.64	3.56	2.38	2.36	2.25	4.23	2.40	2.38	2.73	2.95	2.46	2.27	
12	2.59	3.00	2.36	2.35	2.30	5.27	2.43	2.86	2.60	2.90	2.46	2.25	
13	2.55	2.78	2.35	2.36	2.27	3.51	2.37	4.46	2.53	2.84	2.45	2.27	
14	2.52	2.62	2.35	2.35	2.23	3.04	2.35	4.68	2.48	2.79	2.45	2.26	
15	2.49	2.56	2.35	2.35	2.20	2.85	2.34	3.43	2.45	2.77	2.44	2.23	
16	2.46	2.73	2.35	2.33	2.18	2.70	2.33	3.06	2.42	2.74	2.44	2.22	
17	2.42	2.73	2.34	2.27	2.16	2.60	2.31	2.89	2.41	2.69	2.43	2.23	
18	2.41	2.89	2.34	2.27	2.15	2.54	2.24	2.76	2.40	2.66	2.43	2.31	
19	2.42	3.49	2.36	2.21	2.15	2.50	2.32	2.66	2.39	2.67	2.51	2.27	
20	2.76	3.43	2.41	2.20	2.25	2.53	2.51	2.59	2.38	2.64	2.57	2.33	
21	2.47	2.99	2.35	2.17	2.54	2.52	2.64	2.59	2.37	2.69	2.45	2.26	
22	2.41	2.69	2.35	2.21	2.25	2.59	2.67	2.53	2.37	2.61	2.44	2.22	
23	2.39	2.58	2.37	2.28	2.20	2.52	2.89	2.74	2.37	2.57	2.43	2.20	
24	2.38	2.55	2.44	2.25	2.15	2.59	2.86	5.23	2.52	2.55	2.42	2.19	
25	2.38	2.49	2.37	2.34	2.15	2.65	2.69	4.55	4.17	2.53	2.42	2.17	
26	2.37	2.45	2.37	2.37	2.49	2.88	3.17	3.27	3.07	2.51	2.41	2.15	
27	2.36	2.41	2.35	2.35	2.70	2.72	3.28	3.01	2.83	2.49	2.41	2.22	
28	2.36	2.39	2.35	2.34	3.30	2.63	2.92	2.87	2.72	2.48	2.41	2.20	
29	2.35	2.38	2.35	2.34	3.14	2.59	2.83	2.77	2.62	2.46	2.41	2.18	
30	2.38	2.40	2.77	2.51	2.82	2.66	2.84	2.67	2.56	2.54		2.17	
31		2.39		2.53	2.61		2.78		2.51	3.89		2.17	
Mean	2.67	2.71	2.37	2.43	2.38	2.74	2.63	3.00	2.60	3.18	2.54	2.24	
Max	3.77	3.62	2.77	3.32	3.30	5.27	3.28	5.23	4.17	7.83	3.29	2.33	7.83
Min	2.35	2.35	2.34	2.17	2.15	2.35	2.24	2.37	2.37	2.46	2.41	2.15	2.15
Annual Max Momentary Gage Height	8.55	m. (MSL.) , at 18.00 Hours , on Jan 2 , 2011											
Zero Gage at Bottom Elevation	0.00	m. (MSL.) , River Bed 1.75 m. (MSL)											
Left Bank Elevation	9.91	m. (MSL.) ,											
Right Bank Elevation	9.92	m. (MSL.) , Drainage Area 68 Square Kilometers											

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.42	1.09	1.06	7.28	1.84	1.56	2.15	2.90	2.05	1.60	7.01	0.78		
2	7.73	1.02	1.06	4.75	1.36	1.32	3.22	4.28	1.80	67.52	4.20	0.74		
3	5.69	1.06	1.06	3.37	1.09	1.17	4.05	2.90	1.68	104.65	3.30	0.74		
4	4.67	1.09	1.06	2.80	0.99	1.28	3.37	2.40	2.05	24.42	2.95	0.74		
5	4.84	1.06	1.06	2.00	0.81	1.13	2.65	1.92	1.92	11.04	2.40	0.81		
6	4.92	2.00	1.06	1.60	0.74	1.06	2.05	1.64	1.56	8.54	2.05	0.81		
7	5.18	1.72	1.02	1.32	0.64	1.02	1.68	1.52	1.40	6.47	1.88	0.78		
8	3.83	2.45	1.02	1.13	0.53	1.02	1.48	1.28	1.28	5.52	1.72	0.67		
9	3.00	7.82	1.02	1.06	0.50	1.02	1.32	1.17	1.76	4.92	1.64	0.88		
10	2.55	9.99	1.02	1.06	0.60	2.20	1.20	1.09	4.28	4.50	1.52	0.81		
11	2.20	9.44	1.13	1.06	0.67	16.38	1.20	1.13	2.65	4.13	1.44	0.74		
12	1.96	4.50	1.06	1.02	0.85	31.12	1.32	3.45	2.00	3.75	1.44	0.67		
13	1.80	2.90	1.02	1.06	0.74	8.99	1.09	19.31	1.72	3.30	1.40	0.74		
14	1.68	2.10	1.02	1.02	0.60	4.84	1.02	22.32	1.52	2.95	1.40	0.71		
15	1.56	1.84	1.02	1.02	0.50	3.37	0.99	8.27	1.40	2.85	1.36	0.60		
16	1.44	2.65	1.02	0.95	0.45	2.50	0.95	5.01	1.28	2.70	1.36	0.57		
17	1.28	2.65	0.99	0.74	0.40	2.00	0.88	3.68	1.24	2.45	1.32	0.60		
18	1.24	3.68	0.99	0.74	0.38	1.76	0.64	2.80	1.20	2.30	1.32	0.88		
19	1.28	8.81	1.06	0.53	0.38	1.60	0.92	2.30	1.17	2.35	1.64	0.74		
20	2.80	8.27	1.24	0.50	0.67	1.72	1.64	1.96	1.13	2.20	1.88	0.95		
21	1.48	4.43	1.02	0.43	1.76	1.68	2.20	1.96	1.09	2.45	1.40	0.71		
22	1.24	2.45	1.02	0.53	0.67	1.96	2.35	1.72	1.09	2.05	1.36	0.57		
23	1.17	1.92	1.09	0.78	0.50	1.68	3.68	2.70	1.09	1.88	1.32	0.50		
24	1.13	1.80	1.36	0.67	0.38	1.96	3.45	30.48	1.68	1.80	1.28	0.48		
25	1.13	1.56	1.09	0.99	0.38	2.25	2.45	20.53	15.67	1.72	1.28	0.43		
26	1.09	1.40	1.09	1.09	1.56	3.60	5.95	6.83	5.09	1.64	1.24	0.38		
27	1.06	1.24	1.02	1.02	2.50	2.60	6.92	4.59	3.22	1.56	1.24	0.57		
28	1.06	1.17	1.02	0.99	7.10	2.15	3.90	3.52	2.60	1.52	1.24	0.50		
29	1.02	1.13	1.02	0.99	5.69	1.96	3.22	2.85	2.10	1.44	1.24	0.45		
30	1.13	1.20	2.85	1.64	3.15	2.30	3.30	2.35	1.84	1.76		0.43		
31		1.17		1.72	2.05		2.90		1.64	12.65		0.43		
Total	82.58	95.61	33.57	45.86	40.48	109.20	74.14	168.86	72.20	298.63	54.83	20.41	1096.37	CMSDAY
Mean	2.75	3.08	1.12	1.48	1.31	3.64	2.39							

WATER YEAR : 2011**TAPI RIVER BASIN****Khlong Phum Duang at Ban Tha Khanon , Surat Thani (X.36)**

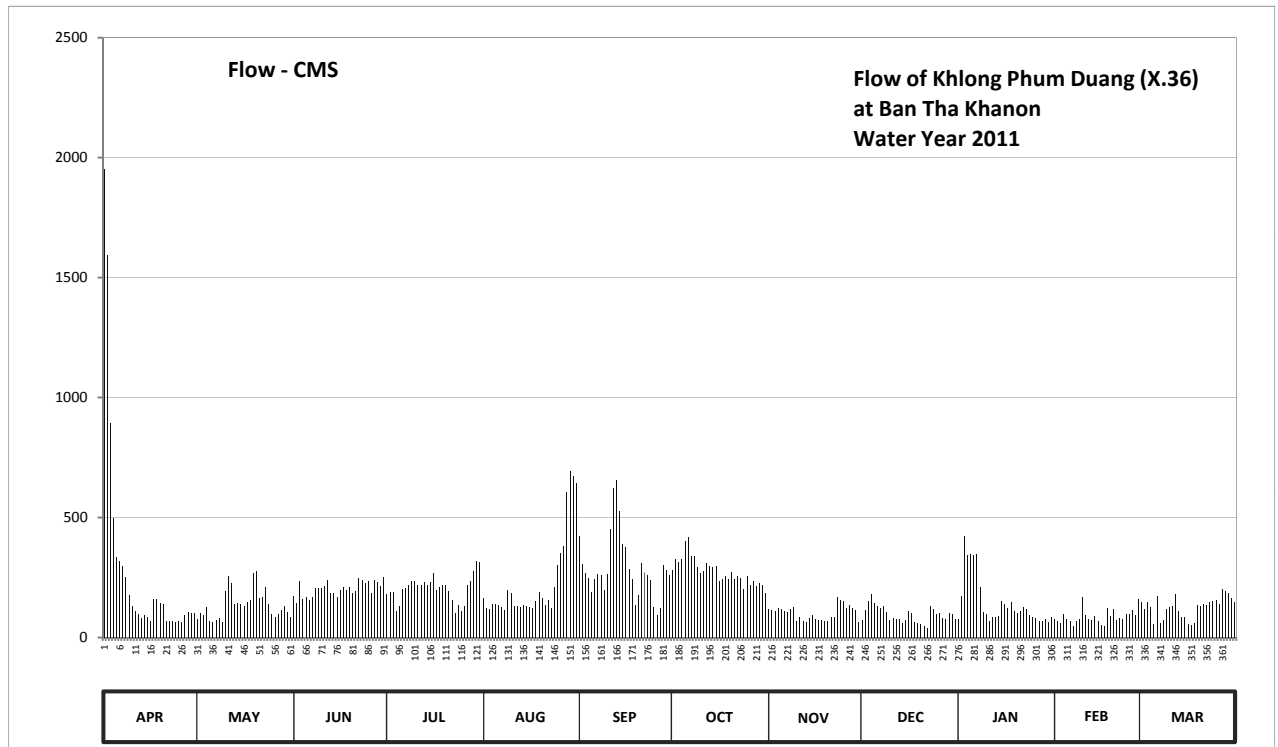
Lat 09 - 01 - 44 N Long 98 - 58 - 00 E

Location : on left bank at Ban Tha Khanon.

	Ban	Tha Khanon	Amphoe	Khiri Ratnikhom	Changwat	Surat Thani
Drainage Area	2,968	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the sixth staff gage.				Elevation	+10.520 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1963 to date					
Rating Operation						
Period of Rating	1989 to date					
Rated by Flot	-					
Rated by Current Meter	1989 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +12.110 m.(MSL.),records are channel flow only.					
General Description	Records good. Flow regulated by Ratcha Prapha Dam.					
	Stage-discharge relation defined by 25 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.06	2.05	3.39	3.48	3.25	6.05	4.56	2.65	2.04	2.06	2.09	3.08	
2	11.98	2.43	3.01	3.55	2.75	4.86	5.06	2.61	2.62	3.37	1.92	2.65	
3	9.37	2.30	4.06	3.55	2.68	4.42	4.96	2.54	3.12	6.05	1.84	3.08	
4	6.75	2.79	3.23	2.54	2.98	4.19	5.07	2.74	3.46	5.23	2.36	2.81	
5	5.14	1.93	3.31	2.83	2.98	3.56	5.80	2.69	3.03	5.28	2.07	1.76	
6	5.00	1.89	3.19	3.68	2.90	4.18	5.97	2.56	2.83	5.25	1.92	3.35	
7	4.77	2.02	3.32	3.76	2.80	4.38	5.21	2.49	2.73	5.27	1.63	1.82	
8	4.26	2.12	3.73	3.90	2.62	4.36	5.18	2.66	2.84	3.80	1.97	2.02	
9	3.41	1.91	3.75	4.06	3.63	3.66	4.74	2.80	2.48	2.47	2.06	2.66	
10	2.83	3.59	3.75	4.05	3.50	4.40	4.45	1.92	2.03	2.37	3.33	2.79	
11	2.57	4.29	3.84	3.87	2.84	6.33	4.55	2.16	2.12	1.98	2.29	2.83	
12	2.38	3.98	4.13	3.91	2.82	7.74	4.91	1.97	2.05	2.16	2.09	3.47	
13	2.10	2.94	3.49	4.03	2.79	7.99	4.76	1.88	2.06	2.16	2.02	2.52	
14	2.31	2.99	3.50	3.90	2.91	6.99	4.71	2.12	1.81	2.23	2.27	2.20	
15	2.20	2.95	3.32	4.02	2.86	5.70	4.76	2.28	2.04	3.09	1.95	2.17	
16	1.92	2.85	3.64	4.43	2.77	5.58	4.05	2.06	2.54	2.94	1.71	1.74	
17	3.22	3.08	3.80	3.64	2.75	4.62	4.17	2.00	2.43	2.71	1.65	1.70	
18	3.23	3.20	3.66	3.77	3.10	4.16	4.30	2.01	1.88	3.08	2.72	1.85	
19	3.00	4.46	3.80	3.90	3.55	2.90	4.17	1.94	1.83	2.56	2.26	2.88	
20	2.96	4.55	3.51	3.90	3.27	3.42	4.49	1.98	1.79	2.40	2.67	2.84	
21	1.95	3.26	3.58	3.60	2.91	4.90	4.15	2.17	1.65	2.53	1.99	2.95	
22	1.92	3.32	4.20	3.16	3.15	4.46	4.29	2.21	1.48	2.78	2.12	2.90	
23	1.94	3.81	4.12	2.46	2.72	4.36	4.20	3.34	2.86	2.67	2.08	3.04	
24	1.86	2.94	3.98	2.89	3.81	4.14	3.72	3.20	2.69	2.31	2.39	3.09	
25	1.92	2.35	4.05	2.56	4.83	2.78	4.29	3.14	2.39	2.17	2.39	3.19	
26	1.90	2.19	3.49	2.84	5.31	2.31	3.86	2.71	2.41	2.10	2.60	2.94	
27	2.33	2.37	4.11	3.87	5.61	2.75	4.05	2.91	2.15	1.95	2.28	3.70	
28	2.49	2.60	4.02	4.07	7.60	4.79	3.85	2.72	2.07	1.97	3.22	3.60	
29	2.46	2.85	3.83	4.55	8.23	4.58	3.96	2.62	2.44	2.08	4.39	3.53	
30	2.42	2.47	4.25	5.00	8.09	4.36	3.88	1.88	2.38	1.89		3.26	
31		2.20		4.96	7.89		3.50		2.07	2.17		3.05	
Mean	3.79	2.86	3.70	3.70	3.87	4.63	4.50	2.43	2.33	2.94	2.29	2.76	
Max	13.06	4.55	4.25	5.00	8.23	7.99	5.97	3.34	3.46	6.05	4.39	3.70	13.06
Min	1.86	1.89	3.01	2.46	2.62	2.31	3.50	1.88	1.48	1.89	1.63	1.70	1.48
Annual Max Momentary Gage Height	13.14		m. (MSL.) ,		at 03.00 Hours , on Apr 1 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	-0.95	m. (MSL)						
Left Bank Elevation			12.10		m. (MSL.) ,								
Right Bank Elevation		12.11		m. (MSL.) ,		Drainage Area	2968	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1951.00	75.50	174.80	182.70	162.40	425.00	279.40	117.50	74.80	76.20	78.30	149.00		
2	1594.00	102.10	143.80	188.90	124.50	306.70	326.00	114.70	115.40	173.00	66.40	117.50		
3	894.00	93.00	234.40	188.90	119.60	266.80	316.20	109.80	152.00	425.00	60.80	149.00		
4	499.20	127.30	160.60	109.80	141.50	246.10	327.00	123.80	181.00	343.00	97.20	128.80		
5	334.00	67.10	167.70	130.30	141.50	189.80	400.00	120.30	145.30	348.00	76.90	55.60		
6	320.00	64.30	157.30	200.40	135.50	245.20	417.00	111.20	130.30	345.00	66.40	171.20		
7	298.30	73.40	168.60	207.50	128.00	263.20	341.00	106.30	123.10	347.00	47.80	59.40		
8	252.40	80.40	204.80	220.00	115.40	261.40	338.00	118.20	131.00	211.00	69.90	73.40		
9	176.60	65.70	206.60	234.40	196.00	198.60	295.60	128.00	105.60	104.90	76.20	118.20		
10	130.30	192.50	206.60	233.50	184.50	265.00	269.50	66.40	74.10	97.90	169.50	127.30		
11	111.90	255.10	214.60	217.30	131.00	453.00	278.50	83.20	80.40	70.60	92.30	130.30		
12	98.60	227.20	240.70	220.90	129.50	622.20	311.40	69.90	75.50	83.20	78.30	181.90		
13	79.00	138.50	183.60	231.70	127.30	656.60	297.40	63.60	76.20	83.20	73.40	108.40		
14	93.70	142.30	184.50	220.00	136.30	526.80	292.90	80.40	58.70	88.10	90.90	86.00		
15	86.00	139.30	168.60	230.80	132.50	390.00	297.40	91.60	74.80	149.80	68.50	83.90		
16	66.40	131.80	196.90	267.70	125.90	378.00	233.50	76.20	109.80	138.50	52.60	54.40		
17	159.80	149.00	211.00	196.90	124.50	284.80	244.30	72.00	102.10	121.70	49.00	52.00		
18	160.60	158.00	198.60	208.40	150.50	243.40	256.00	72.70	63.60	149.00	122.40	61.50		
19	143.00	270.40	211.00	220.00	188.90	135.50	244.30	67.80	60.10	111.20	90.20	134.00		
20	140.00	278.50	185.40	220.00	164.20	177.40	273.10	70.60	57.40	100.00	118.90	131.00		
21	68.50	163.30	191.60	193.30	136.30	310.50	242.50	83.90	49.00	109.10	71.30	139.30		
22	66.40	168.60	247.00	155.00	154.30	270.40	255.10	86.70	39.40	126.60	80.40	135.50		
23	67.80	211.90	239.80	104.20	122.40	261.40	247.00	170.40	132.50	118.90	77.60	146.00		
24	62.20	138.50	227.20	134.80	211.90	241.60	203.90	158.00	120.30	93.70	99.30	149.80		
25	66.40	96.50	233.50	111.20	303.80	126.60	255.10	153.50	99.30	83.90	99.30	157.30		
26	65.00	85.30	183.60	131.00	351.00	93.70	216.40	121.70	100.70	79.00	114.00	138.50		
27	95.10	97.90	238.90	217.30	381.00	124.50	233.50	136.30	82.50	68.50	91.60	202.20		
28	106.30	114.00	230.80	235.30	604.00	300.10	215.50	122.40	76.90	69.90	159.80	193.30		
29	104.20	131.80	213.70	278.50	692.80	281.20	225.40	115.40	102.80	77.60	264.10	187.10		
30	101.40	104.90	251.50	320.00	671.50	261.40	218.20	63.60	98.60	64.30		163.30		
31		86.00		316.20	642.60		184.50		76.90	83.90		146.80		
Total	8392.10	4230.10	6077.70	6326.90	7131.10	8806.90	8535.60	3076.10	2970.10	4541.70	2703.30	3931.90	66723.50	CMSDAY
Mean	279.70	136.50	202.60	204.10	230.00	293.60	275.30	102.50	95.80	146.50	93.20	126.80	182.30	CMS
Max	1951.00	278.50	251.50	320.00	692.80	656.60	417.00	170.40	181.00	425.00	264.10	202.20	1951.00	CMS
Min	62.20	64.30	143.80	104.20	115.40	93.70	184.50	63.60	39.40	64.30	47.80	52.00	39.40	CMS
Runoff	725.08	365.48	525.11	546.64	616.13	760.92	737.48	265.78	256.62	392.40	233.57	339.72	5764.91	MCM
Momentary Peak	1979.00 CMS. at 13.14 m. (MSL.) at 03.00 Hours , on Apr 1, 2011													
Runoff Yield	61.42	Liters/Second/Square KM.			Momentary Peak Yield		666.721	Liters/Second/Square KM.						

WATER YEAR : 2011**TAPI RIVER BASIN****Tapi River at Ban Yan Din Daeng , Surat Thani (X.37A)**

Lat 08 - 34 - 03 N Long 99 - 15 - 15 E

Location : on left bank at Tambon Yan Din Daeng.

	Ban	Yan Din Daeng	Amphoe	Phrasaeng	Changwat	Surat Thani
Drainage Area	5,383	sq.km.				
Type of Gage	Water - stage recorder.					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the automatic gage building.				Elevation	+10.240 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1969 to date					
Rating Operation						
Period of Rating	1969 to date					
Rated by Flot	-					
Rated by Current Meter	1969 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +12.440 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 26 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.38	7.40	7.07	6.35	8.71	9.86	9.50	8.06	9.36	7.58	8.24	6.11	
2	12.84	7.59	7.64	6.30	8.59	9.89	9.66	7.94	9.12	7.78	8.38	6.07	
3	12.32	7.62	7.85	6.26	8.44	9.77	9.78	7.72	9.11	9.07	8.22	6.02	
4	11.93	7.63	7.90	6.26	8.19	9.56	9.86	7.69	9.25	9.69	7.94	5.99	
5	11.60	7.83	7.74	6.21	7.70	9.26	9.88	7.86	9.44	10.04	7.64	5.97	
6	11.32	8.00	7.57	6.14	7.21	8.85	9.86	8.03	9.62	10.28	7.41	6.27	
7	11.05	7.92	7.38	6.07	6.87	8.37	9.87	7.97	9.67	10.29	7.28	6.52	
8	10.88	7.78	7.23	6.01	6.65	8.00	9.91	7.84	9.57	10.12	7.11	7.09	
9	10.77	7.59	7.32	5.96	6.49	7.72	9.91	7.78	9.29	9.84	6.97	7.64	
10	10.64	7.67	7.35	5.92	6.37	7.63	9.86	7.73	8.92	9.47	6.85	7.85	
11	10.46	8.00	7.28	5.91	6.32	8.41	9.78	7.74	8.64	9.02	6.75	7.80	
12	10.27	8.13	7.43	5.92	6.38	9.16	9.68	7.60	8.52	8.57	6.66	7.46	
13	10.15	8.02	7.65	6.13	6.51	9.52	9.63	7.69	8.44	8.24	6.58	6.82	
14	9.99	7.82	7.61	6.99	6.73	9.93	9.71	8.08	8.21	8.17	6.53	6.42	
15	9.79	7.65	7.43	8.02	6.87	10.27	9.71	8.24	7.81	8.34	6.46	6.28	
16	9.57	7.40	7.29	8.60	7.10	10.26	9.60	8.26	7.70	8.85	6.40	6.24	
17	9.34	7.22	7.29	8.82	7.35	10.11	9.40	8.20	8.26	9.13	6.35	6.09	
18	9.09	7.32	7.28	8.79	7.22	9.91	9.12	7.88	8.65	9.36	6.46	6.12	
19	8.93	7.65	7.63	8.43	7.13	9.66	8.82	7.51	8.72	9.47	6.95	6.37	
20	8.94	7.98	8.04	8.01	7.19	9.50	8.58	7.09	8.67	9.58	7.69	6.67	
21	8.94	8.23	7.84	7.57	7.45	9.51	8.25	6.91	8.41	9.74	8.06	6.68	
22	8.86	8.22	7.40	7.02	7.63	9.53	8.17	7.05	8.04	9.86	7.70	6.56	
23	8.62	7.99	7.06	6.67	8.14	9.47	8.07	7.73	7.89	9.90	7.06	6.22	
24	8.31	7.58	6.94	6.65	8.48	9.25	7.84	8.41	8.07	9.84	6.68	5.95	
25	8.04	7.32	7.23	6.81	8.59	8.99	7.60	8.76	8.34	9.66	6.52	5.82	
26	7.82	7.19	7.08	7.15	8.49	8.85	7.50	9.04	8.79	9.43	6.37	5.80	
27	7.77	7.24	6.76	7.58	8.53	8.77	7.64	9.15	8.83	9.14	6.19	5.93	
28	7.77	7.10	6.57	7.68	8.96	8.79	7.90	9.27	8.69	8.71	6.10	6.03	
29	7.59	6.94	6.45	8.02	9.35	9.01	8.02	9.40	8.44	8.19	6.09	6.20	
30	7.39	6.79	6.38	8.57	9.59	9.29	7.98	9.49	8.09	7.90		6.17	
31		6.79		8.77	9.72		8.01		7.77	8.00		6.17	
Mean	9.81	7.60	7.32	7.08	7.71	9.24	9.00	8.07	8.66	9.14	7.02	6.43	
Max	13.38	8.23	8.04	8.82	9.72	10.27	9.91	9.49	9.67	10.29	8.38	7.85	13.38
Min	7.39	6.79	6.38	5.91	6.32	7.63	7.50	6.91	7.70	7.58	6.09	5.80	5.80
Annual Max Momentary Gage Height	13.59		m. (MSL.) ,			at 01.00 Hours , on Apr 1 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	2.94	m. (MSL)					
Left Bank Elevation			12.43			m. (MSL.) ,							
Right Bank Elevation		12.59				m. (MSL.) ,		Drainage Area	5383	Square Kilometers			

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1032.80	130.00	110.20	71.75	225.90	349.20	307.00	172.80	291.60	140.80	187.20	60.95	
2	857.60	141.40	144.40	69.50	215.20	352.80	325.20	163.80	266.00	152.80	198.40	59.15	
3	735.20	143.20	157.50	67.70	203.20	338.40	339.60	149.20	265.00	261.00	185.60	56.90	
4	656.70	143.80	161.00	67.70	183.20	313.60	349.20	147.40	279.50	328.80	163.80	55.65	
5	598.00	156.10	150.40	65.45	148.00	280.60	351.60	158.20	300.40	370.80	144.40	54.95	
6	551.80	168.00	140.20	62.30	118.60	239.00	349.20	170.40	320.40	400.40	130.60	68.15	
7	508.00	162.40	128.80	59.15	98.20	197.60	350.40	165.90	326.40	401.70	122.80	80.00	
8	482.00	152.80	119.80	56.45	86.50	168.00	355.20	156.80	314.70	380.40	112.60	111.40	
9	465.80	141.40	125.20	54.60	78.50	149.20	355.20	152.80	283.90	346.80	104.20	144.40	
10	447.60	146.20	127.00	53.20	72.65	143.80	349.20	149.80	246.00	303.70	97.00	157.50	
11	423.80	168.00	122.80	52.85	70.40	200.80	339.60	150.40	219.60	256.00	91.50	154.00	
12	399.10	178.40	131.80	53.20	73.10	270.00	327.60	142.00	209.60	213.60	87.00	133.60	
13	384.00	169.60	145.00	61.85	79.50	309.20	321.60	147.40	203.20	187.20	83.00	95.20	
14	364.80	155.40	142.60	105.40	90.50	357.60	331.20	174.40	184.80	181.60	80.50	75.00	
15	340.80	145.00	131.80	169.60	98.20	399.10	331.20	187.20	154.70	195.20	77.00	68.60	
16	314.70	130.00	123.40	216.00	112.00	397.80	318.00	188.80	148.00	239.00	74.00	66.80	
17	289.40	119.20	123.40	236.00	127.00	379.20	296.00	184.00	188.80	267.00	71.75	60.05	
18	263.00	125.20	122.80	233.10	119.20	355.20	266.00	159.60	220.50	291.60	77.00	61.40	
19	247.00	145.00	143.80	202.40	113.80	325.20	236.00	136.60	226.80	303.70	103.00	72.65	
20	248.00	166.60	171.20	168.80	117.40	307.00	214.40	111.40	222.30	315.80	147.40	87.50	
21	248.00	186.40	156.80	140.20	133.00	308.10	188.00	100.60	200.80	334.80	172.80	88.00	
22	240.00	185.60	130.00	107.20	143.80	310.30	181.60	109.00	171.20	349.20	148.00	82.00	
23	217.80	167.30	109.60	87.50	179.20	303.70	173.60	149.80	160.30	354.00	109.60	65.90	
24	192.80	140.80	102.40	86.50	206.40	279.50	156.80	200.80	173.60	346.80	88.00	54.25	
25	171.20	125.20	119.80	94.60	215.20	253.00	142.00	230.40	195.20	325.20	80.00	49.70	
26	155.40	117.40	110.80	115.00	207.20	239.00	136.00	258.00	233.10	299.30	72.65	49.00	
27	152.20	120.40	92.00	140.80	210.40	231.30	144.40	269.00	237.00	268.00	64.55	53.55	
28	152.20	112.00	82.50	146.80	250.00	233.10	161.00	281.70	224.10				

WATER YEAR : 2011**TAPI RIVER BASIN****Tapi River at Ban Tha Pho , Nakhon Si Thammarat (X.195)**

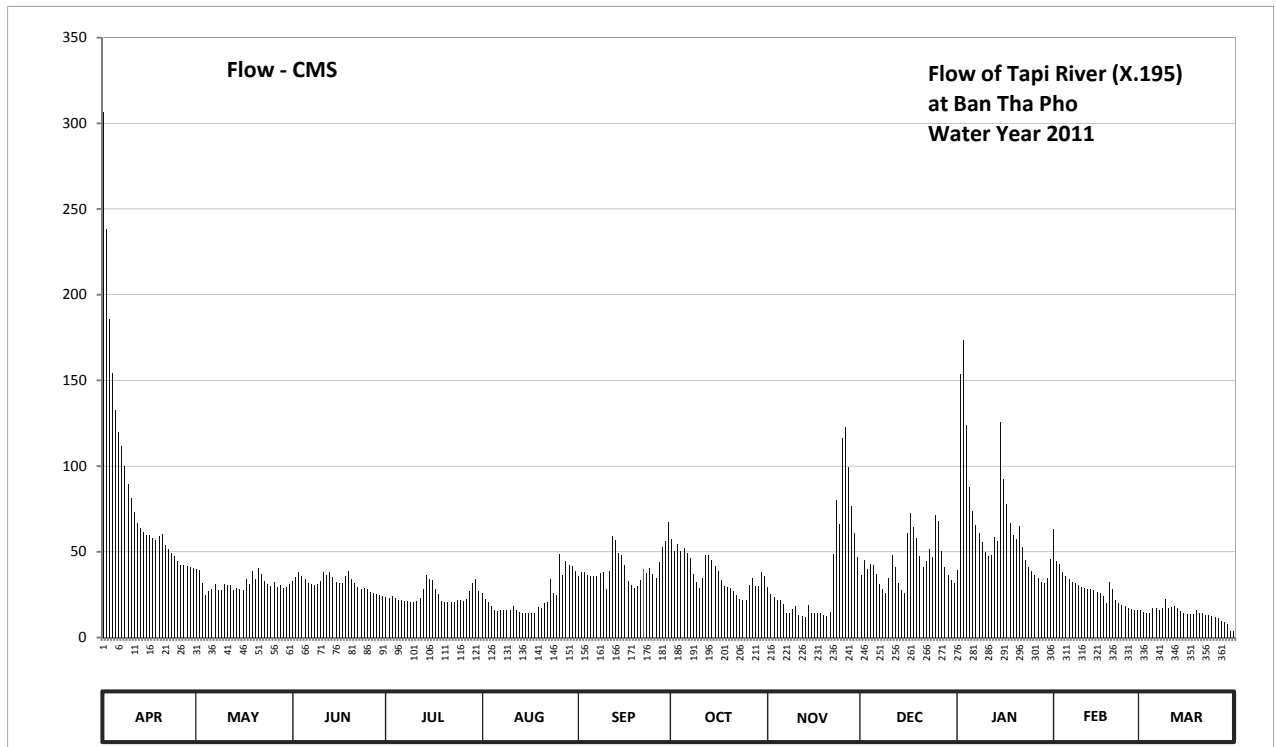
Lat 08 - 30 - 24 N Long 99 - 30 - 39 E

Location : on left bank at Ban Tha Pho.

	Ban	Tha Pho	Amphoe	Chawang	Changwat	Nakhon Si Thammarat
Drainage Area	488	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the top staff gage.				Elevation	+40.509 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1998 - 2006, 2011 to date					
Rating Operation						
Period of Rating	1998 - 2006, 2011 to date					
Rated by Flot	-					
Rated by Current Meter	1998 - 2006, 2011 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.16	34.33	34.20	34.01	34.06	34.25	34.63	34.13	34.26	34.32	34.73	33.84	
2	37.27	34.32	34.24	34.00	33.99	34.29	34.51	34.05	34.42	36.11	34.41	33.82	
3	36.56	34.18	34.29	34.02	33.95	34.29	34.58	34.01	34.33	36.39	34.38	33.81	
4	36.12	34.03	34.25	34.00	33.90	34.26	34.51	33.98	34.38	35.68	34.29	33.80	
5	35.81	34.08	34.22	33.98	33.85	34.25	34.54	33.98	34.37	35.13	34.25	33.87	
6	35.63	34.11	34.18	33.98	33.83	34.25	34.49	33.92	34.27	34.91	34.22	33.87	
7	35.50	34.16	34.16	33.96	33.85	34.25	34.44	33.80	34.16	34.78	34.19	33.85	
8	35.32	34.09	34.15	33.96	33.85	34.28	34.27	33.80	34.10	34.70	34.17	33.87	
9	35.16	34.09	34.16	33.95	33.85	34.29	34.19	33.86	34.06	34.60	34.15	33.99	
10	35.04	34.16	34.20	33.95	33.85	34.11	34.12	33.90	34.23	34.50	34.13	33.87	
11	34.90	34.15	34.29	33.96	33.90	34.31	34.23	33.77	34.47	34.46	34.12	33.88	
12	34.80	34.15	34.26	34.00	33.85	34.66	34.47	33.75	34.35	34.47	34.10	33.90	
13	34.75	34.09	34.29	34.10	33.82	34.62	34.47	33.73	34.18	34.65	34.11	33.87	
14	34.71	34.12	34.24	34.26	33.80	34.49	34.42	33.91	34.09	34.61	34.09	33.83	
15	34.67	34.10	34.19	34.22	33.80	34.47	34.36	33.80	34.06	35.71	34.07	33.81	
16	34.67	34.09	34.18	34.21	33.80	34.37	34.30	33.80	34.69	35.21	34.06	33.79	
17	34.64	34.22	34.18	34.11	33.80	34.20	34.21	33.80	34.89	34.98	34.02	33.78	
18	34.62	34.16	34.25	34.05	33.80	34.15	34.14	33.80	34.76	34.80	33.93	33.78	
19	34.66	34.30	34.31	33.96	33.88	34.12	34.13	33.77	34.64	34.67	34.19	33.84	
20	34.68	34.22	34.22	33.95	33.87	34.14	34.12	33.75	34.46	34.63	34.11	33.81	
21	34.57	34.34	34.17	33.95	33.93	34.21	34.08	33.82	34.35	34.77	33.98	33.81	
22	34.53	34.27	34.13	33.95	33.95	34.33	34.04	34.48	34.41	34.55	33.93	33.77	
23	34.49	34.20	34.11	33.95	34.22	34.28	33.99	35.02	34.53	34.42	33.91	33.77	
24	34.46	34.16	34.12	33.97	34.06	34.34	33.98	34.79	34.45	34.35	33.89	33.75	
25	34.41	34.14	34.10	33.97	34.04	34.27	33.98	35.57	34.87	34.30	33.87	33.74	
26	34.37	34.19	34.07	33.96	34.48	34.23	34.15	35.67	34.82	34.26	33.86	33.72	
27	34.37	34.13	34.06	33.99	34.26	34.40	34.23	35.31	34.51	34.23	33.85	33.65	
28	34.36	34.15	34.05	34.08	34.41	34.55	34.14	34.96	34.35	34.19	33.84	33.63	
29	34.35	34.12	34.03	34.17	34.37	34.61	34.14	34.70	34.26	34.17	33.84	33.60	
30	34.34	34.13	34.02	34.22	34.36	34.81	34.29	34.45	34.21	34.23		33.45	
31		34.16		34.08	34.31		34.25		34.17	34.43		33.45	
Mean	35.06	34.17	34.18	34.03	33.99	34.34	34.27	34.20	34.39	34.75	34.09	33.78	
Max	38.16	34.34	34.31	34.26	34.48	34.81	34.63	35.67	34.89	36.39	34.73	33.99	38.16
Min	34.34	34.03	34.02	33.95	33.80	34.11	33.98	33.73	34.06	34.17	33.84	33.45	33.45
Annual Max Momentary Gage Height	38.50		m. (MSL.) ,			at 01.00 Hours , on Apr 1 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	32.35	m. (MSL)					
Left Bank Elevation		40.75		m. (MSL.) ,									
Right Bank Elevation		40.78		m. (MSL.) ,		Drainage Area	488	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	306.40	40.15	33.00	23.50	26.00	35.75	57.23	29.50	36.30	39.60	62.98	15.80		
2	238.25	39.60	35.20	23.00	22.55	37.95	50.32	25.50	45.15	153.70	44.57	14.90		
3	185.60	32.00	37.95	24.00	20.75	37.95	54.35	23.50	40.15	173.30	42.90	14.45		
4	154.40	24.50	35.75	23.00	18.50	36.30	50.32	22.10	42.90	123.60	37.95	14.00		
5	132.70	27.00	34.10	22.10	16.25	35.75	52.05	22.10	42.35	87.45	35.75	17.15		
6	120.10	28.50	32.00	22.10	15.35	35.75	49.18	19.40	36.85	73.60	34.10	17.15		
7	111.50	31.00	31.00	21.20	16.25	35.75	46.30	14.00	31.00	65.85	32.50	16.25		
8	99.80	27.50	30.50	21.20	16.25	37.40	36.85	14.00	28.00	61.25	31.50	17.15		
9	89.40	27.50	31.00	20.75	16.25	37.95	32.50	16.70	26.00	55.50	30.50	22.55		
10	81.60	31.00	33.00	20.75	16.25	28.50	29.00	18.50	34.65	49.75	29.50	17.15		
11	73.00	30.50	37.95	21.20	18.50	39.05	34.65	13.10	48.03	47.45	29.00	17.60		
12	67.00	30.50	36.30	23.00	16.25	58.95	48.03	12.50	41.25	48.03	28.00	18.50		
13	64.13	27.50	37.95	28.00	14.90	56.65	48.03	11.90	32.00	58.38	28.50	17.15		
14	61.83	29.00	35.20	36.30	14.00	49.18	45.15	18.95	27.50	56.08	27.50	15.35		
15	59.52	28.00	32.50	34.10	14.00	48.03	41.80	14.00	26.00	125.70	26.50	14.45		
16	59.52	27.50	32.00	33.55	14.00	42.35	38.50	14.00	60.67	92.65	26.00	13.70		
17	57.80	34.10	32.00	28.50	14.00	33.00	33.55	14.00	72.40	77.80	24.00	13.40		
18	56.65	31.00	35.75	25.50	14.00	30.50	30.00	14.00	64.70	67.00	19.85	13.40		
19	58.95	38.50	39.05	21.20	17.60	29.00	29.50	13.10	57.80	59.52	32.50	15.80		
20	60.10	34.10	34.10	20.75	17.15	30.00	29.00	12.50	47.45	57.23	28.50	14.45		
21	53.78	40.70	31.50	20.75	19.85	33.55	27.00	14.90	41.25	65.28	22.10	14.45		
22	51.47	36.85	29.50	20.75	20.75	40.15	25.00	48.60	44.57	52.63	19.85	13.10		
23	49.18	33.00	28.50	20.75	34.10	37.40	22.55	80.30	51.47	45.15	18.95	13.10		
24	47.45	31.00	29.00	21.65	26.00	40.70	22.10	66.43	46.88	41.25	18.05	12.50		
25	44.57	30.00	28.00	21.65	25.00	36.85	22.10	116.05	71.20	38.50	17.15	12.20		
26	42.35	32.50	26.50	21.20	48.60	34.65	30.50	122.90	68.20	36.30	16.70	11.60		
27	42.35	29.50	26.00	22.55	36.30	44.00	34.65	99.15	50.32	34.65	16.25	9.50		
28	41.80	30.50	25.50	27.00	44.57	52.63	30.00	76.60	41.25	32.50	15.80	8.90		
29	41.25	29.00	24.50	31.50	42.35	56.08	30.00	61.25	36.30	31.50	15.80	8.00		
30	40.70	29.50	24.00	34.10	41.80	67.60	37.95	46.88	33.55	34.65		3.50		
31		31.00		27.00	39.05		35.75		31.50	45.72		3.50		
Total	2593.15	973.00	959.30	762.60	717.17	1219.37	1153.91	1076.41	1357.64	2031.57	813.25	430.70	14088.07	CMSDAY
Mean	86.44	31.39	31.98	24.60	23.13	40.65	37.22	35.88	43.79	65.53	28.04	13.89	38.49	CMS
Max	306.40	40.70	39.05	36.30	48.60	67.60	57.23	122.90	72.40	173.30	62.98	22.55	306.40	CMS
Min	40.70	24.50	24.00	20.75	14.00	28.50	22.10	11.90	26.00	31.50	15.80	3.50	3.50	CMS
Runoff	224.05	84.07	82.88	65.89	61.96	105.35	99.70	93.00	117.30	175.53	70.27	37.21	1217.21	MCM
Momentary Peak	332.75	CMS, at 38.50 m. (MSL), at 01.00 Hours, on Apr 1, 2011												
Runoff Yield	78.88	Liters/Second/Square KM.			Momentary Peak Yield		681.865	Liters/Second/Square KM.						

WATER YEAR : 2011**TAPI RIVER BASIN****Khlong Sin Pun at Ban Bang Rup , Surat Thani (X.198)**

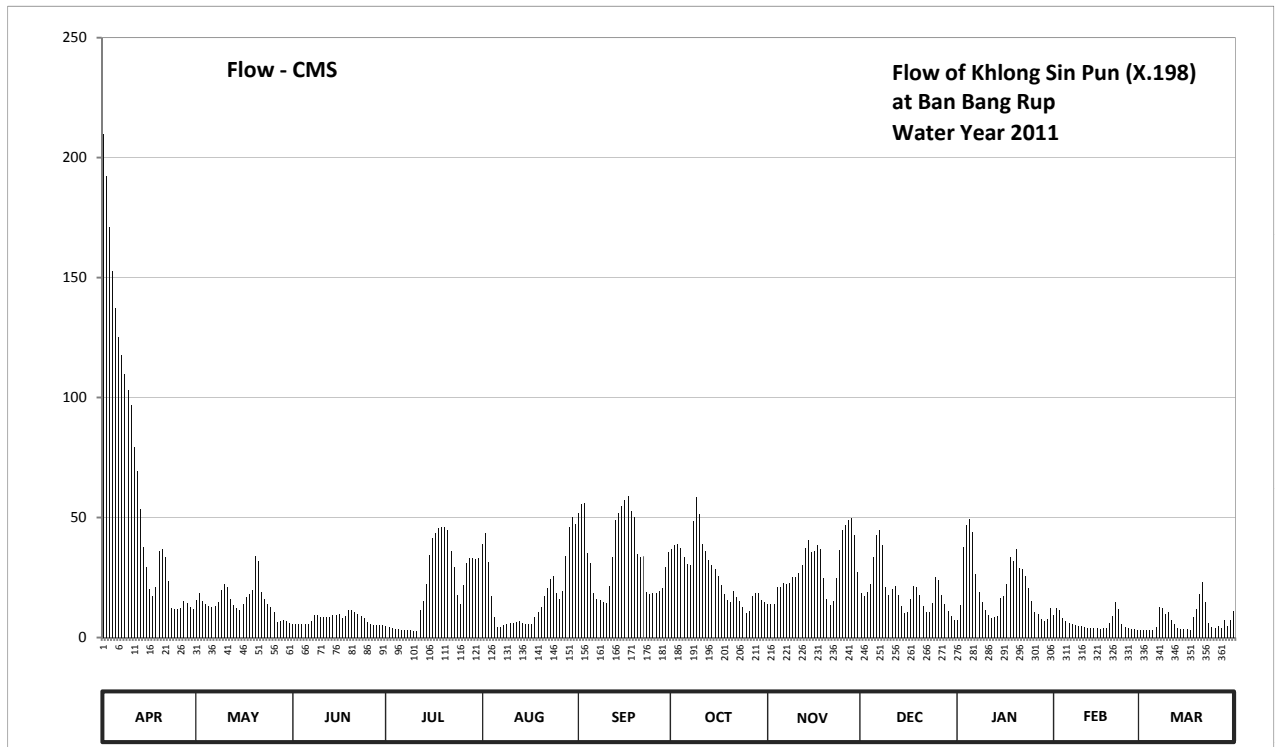
Lat 08 - 24 - 24 N Long 99 - 15 - 05 E

Location : on right bank at Ban Bang Rup.

	Ban	Bang Rup	Amphoe	Phrasaeng	Changwat	Surat Thani
Drainage Area	866	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the footpath of the bridge.				Elevation	+19.259 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.36	12.36	11.20	11.05	13.95	14.57	13.84	12.20	12.63	11.45	11.69	10.75	
2	18.07	12.64	11.20	11.00	14.18	14.73	13.92	12.20	12.52	12.17	12.02	10.74	
3	17.71	12.32	11.20	10.86	13.55	14.75	13.95	12.18	12.65	13.88	11.90	10.74	
4	17.37	12.19	11.20	10.80	12.52	13.76	13.87	12.83	12.92	14.35	11.56	10.73	
5	17.06	12.12	11.20	10.80	11.60	13.51	13.67	12.83	13.67	14.47	11.35	10.71	
6	16.80	12.06	11.20	10.75	11.00	12.64	13.50	12.95	14.14	14.19	11.25	10.99	
7	16.63	12.08	11.39	10.70	11.00	12.42	13.47	12.94	14.23	13.24	11.17	12.07	
8	16.44	12.26	11.70	10.70	11.15	12.35	14.42	12.96	13.93	12.66	11.10	11.99	
9	16.27	12.74	11.68	10.69	11.23	12.28	14.85	13.13	12.83	12.27	11.06	11.74	
10	16.11	12.94	11.60	10.65	11.25	12.25	14.55	13.15	12.54	11.93	11.02	11.81	
11	15.58	12.84	11.60	10.63	11.28	12.85	13.95	13.27	12.75	11.69	10.97	11.44	
12	15.24	12.41	11.60	11.91	11.30	13.67	13.81	13.46	12.86	11.54	10.93	11.18	
13	14.64	12.15	11.60	12.30	11.35	14.45	13.60	13.86	12.55	11.57	10.91	10.92	
14	13.88	11.99	11.70	12.94	11.25	14.58	13.47	14.03	12.10	11.65	10.90	10.80	
15	13.42	11.93	11.70	13.70	11.22	14.70	13.37	13.78	11.78	12.44	10.86	10.77	
16	12.75	12.19	11.73	14.08	11.20	14.80	13.18	13.81	11.83	12.52	10.83	10.76	
17	12.51	12.47	11.53	14.18	11.20	14.86	12.90	13.92	12.40	12.93	10.88	10.74	
18	12.82	12.59	11.65	14.28	11.61	14.62	12.60	13.85	12.85	13.67	10.93	11.61	
19	13.81	12.73	11.90	14.30	11.82	14.50	12.36	13.10	12.84	13.58	11.24	11.97	
20	13.85	13.68	11.90	14.30	12.05	13.74	12.26	12.39	12.55	13.85	11.66	12.59	
21	13.66	13.56	11.82	14.23	12.50	13.66	12.69	12.17	12.08	13.39	12.28	12.99	
22	13.01	12.67	11.73	13.81	12.80	13.68	12.47	12.30	11.82	13.37	11.96	12.27	
23	12.03	12.40	11.64	13.42	13.09	12.66	12.31	13.10	11.83	13.18	11.23	11.25	
24	11.95	12.19	11.56	12.56	13.16	12.60	12.07	13.83	12.24	12.81	10.97	10.94	
25	11.95	12.05	11.33	12.20	12.62	12.62	11.76	14.23	13.13	12.30	10.88	10.91	
26	12.02	11.83	11.23	12.90	12.40	12.64	11.87	14.35	13.05	11.82	10.83	11.04	
27	12.30	11.31	11.13	13.53	12.68	12.68	12.52	14.44	12.56	11.74	10.78	10.93	
28	12.24	11.36	11.12	13.63	13.69	12.81	12.64	14.48	12.19	11.49	10.75	11.42	
29	12.06	11.42	11.11	13.64	14.30	13.41	12.62	14.14	11.88	11.35	10.91	11.08	
30	11.95	11.35	11.10	13.61	14.51	13.77	12.37	13.28	11.64	11.47		11.43	
31		11.27		13.63	14.37		12.29		11.46	12.00		11.88	
Mean	14.42	12.26	11.47	12.51	12.32	13.55	13.13	13.31	12.60	12.61	11.20	11.33	
Max	18.36	13.68	11.90	14.30	14.51	14.86	14.85	14.48	14.23	14.47	12.28	12.99	18.36
Min	11.95	11.27	11.10	10.63	11.00	12.25	11.76	12.17	11.46	11.35	10.75	10.71	10.63
Annual Max Momentary Gage Height	18.51		m. (MSL.) ,			at 01.00 Hours , on Apr 1 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	9.44	m. (MSL)					
Left Bank Elevation	18.90		m. (MSL.) ,										
Right Bank Elevation	18.89		m. (MSL.) ,			Drainage Area	866	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	209.60	15.60	5.60	4.78	39.00	51.74	36.80	14.00	18.56	7.40	9.41	3.25		
2	192.20	18.68	5.60	4.50	43.60	55.52	38.40	14.00	17.32	13.73	12.38	3.20		
3	171.16	15.20	5.60	3.80	31.55	56.00	39.00	13.82	18.80	37.60	11.30	3.20		
4	152.84	13.91	5.60	3.50	17.32	35.28	37.40	20.99	22.16	47.00	8.28	3.15		
5	137.14	13.28	5.60	3.50	8.60	30.87	33.66	20.99	33.66	49.54	6.65	3.05		
6	125.00	12.74	5.60	3.25	4.50	18.68	30.70	22.55	42.80	43.80	5.95	4.45		
7	117.52	12.92	6.93	3.00	4.50	16.22	30.19	22.42	44.60	26.60	5.44	12.83		
8	109.64	14.60	9.50	3.00	5.32	15.50	48.44	22.68	38.60	18.92	5.05	12.11		
9	102.93	19.88	9.32	2.95	5.81	14.80	58.50	25.02	20.99	14.70	4.83	9.86		
10	96.96	22.42	8.60	2.75	5.95	14.50	51.30	25.30	17.54	11.57	4.61	10.49		
11	79.38	21.12	8.60	2.65	6.16	21.25	39.00	27.05	20.00	9.41	4.35	7.32		
12	69.16	16.11	8.60	11.39	6.30	33.66	36.20	30.02	21.38	8.12	4.15	5.49		
13	53.36	13.55	8.60	15.00	6.65	49.10	32.40	37.20	17.65	8.36	4.05	4.10		
14	37.60	12.11	9.50	22.42	5.95	51.96	30.19	40.60	13.10	9.05	4.00	3.50		
15	29.34	11.57	9.50	34.20	5.74	54.80	28.55	35.64	10.22	16.44	3.80	3.35		
16	20.00	13.91	9.77	41.60	5.60	57.20	25.72	36.20	10.67	17.32	3.65	3.30		
17	17.21	16.77	8.04	43.60	5.60	58.76	21.90	38.40	16.00	22.29	3.90	3.20		
18	20.86	18.09	9.05	45.60	8.69	52.88	18.20	37.00	21.25	33.66	4.15	8.69		
19	36.20	19.76	11.30	46.00	10.58	50.20	15.60	24.60	21.12	32.06	5.88	11.93		
20	37.00	33.84	11.30	46.00	12.65	34.92	14.60	15.90	17.65	37.00	9.14	18.09		
21	33.48	31.72	10.58	44.60	17.10	33.48	19.28	13.73	12.92	28.85	14.80	23.07		
22	23.34	19.04	9.77	36.20	20.60	33.84	16.77	15.00	10.58	28.55	11.84	14.70		
23	12.47	16.00	8.96	29.34	24.46	18.92	15.10	24.60	10.67	25.72	5.81	5.95		
24	11.75	13.91	8.28	17.76	25.44	18.20	12.83	36.60	14.40	20.73	4.35	4.20		
25	11.75	12.65	6.51	14.00	18.44	18.44	10.04	44.60	25.02	15.00	3.90	4.05		
26	12.38	10.67	5.81	21.90	16.00	18.68	11.03	47.00	23.90	10.58	3.65	4.72		
27	15.00	6.37	5.22	31.21	19.16	19.16	17.32	48.88	17.76	9.86	3.40	4.15		
28	14.40	6.72	5.16	32.94	34.02	20.73	18.68	49.76	13.91	7.72	3.25	7.16		
29	12.74	7.16	5.10	33.12	46.00	29.17	18.44	42.80	11.12	6.65	4.05	4.94		
30	11.75	6.65	5.05	32.58	50.42	35.46	15.70	27.20	8.96	7.56		7.24		
31		6.09		32.94	47.40		14.90		7.48	12.20		11.12		
Total	1974.16	473.04	232.65	670.08	559.11	1019.92	836.84	874.55	600.79	637.99	176.02	225.86	8281.01	CMSDAY
Mean	65.81	15.26	7.76	21.62	18.04	34.00	26.99	29.15	19.38	20.58	6.07	7.29	22.63	CMS
Max	209.60	33.84	11.30	46.00	50.42	58.76	58.50	49.76	44.60	49.54	14.80	23.07	209.60	CMS
Min	11.75	6.09	5.05	2.65	4.50	14.50	10.04	13.73	7.48	6.65	3.25	3.05	2.65	CMS
Runoff	170.57	40.87	20.10	57.90	48.31	88.12	72.30	75.56	51.91	55.12	15.21	19.51	715.48	MCM
Momentary Peak	218.60	CMS, at 18.51 m. (MSL), at 01.00 Hours, on Apr 1, 2011												
Runoff Yield	26.13	Liters/Second/Square KM.				Momentary Peak Yield		252.425	Liters/Second/Square KM.					

WATER YEAR : 2011

TAPI RIVER BASIN

Khlong Chandee at Ban Pak Min , Nakhon Si Thammarat (X.257)

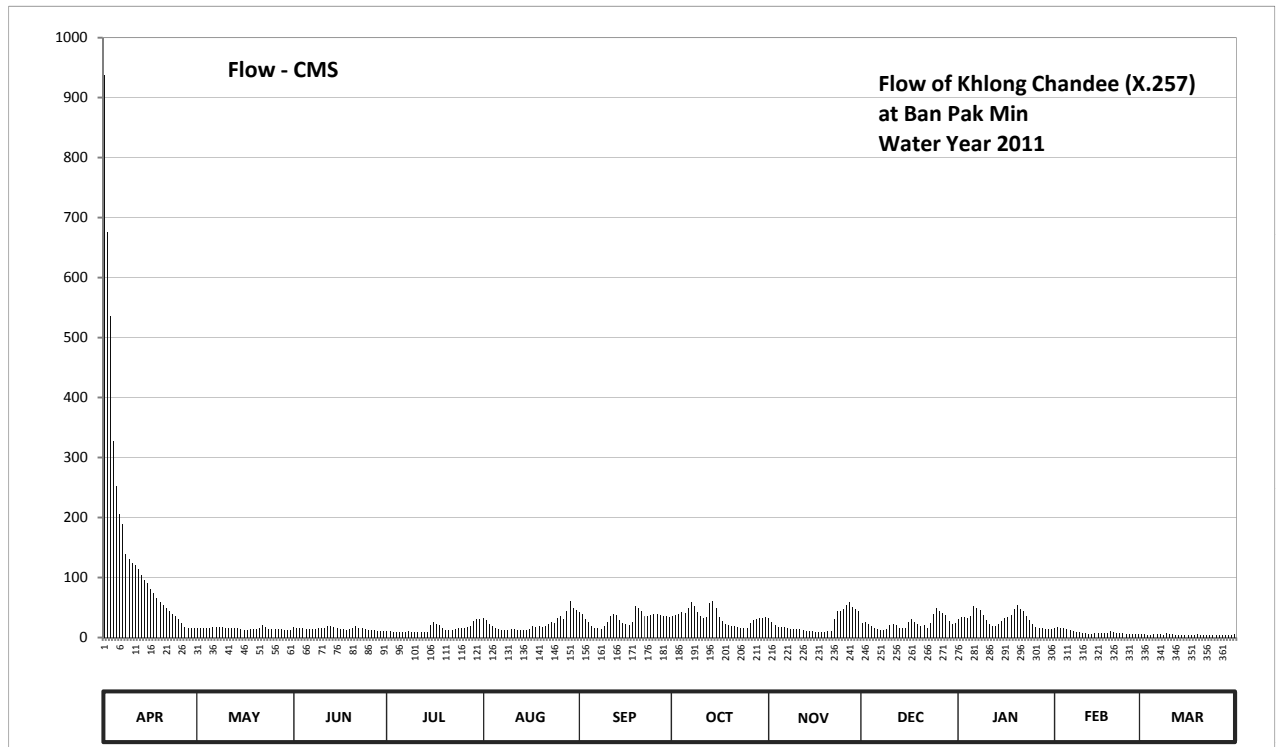
Lat 08 - 33 - 34 N Long 99 - 32 - 11 E

Location : on left bank at Ban Pak Min.

	Ban	Pak Min	Amphoe	Chawang	Changwat	Nakhon Si Thammarat
Drainage Area	510	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the footpath of the bridge.				Elevation	+29.438 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	28.72	23.88	23.98	23.55	24.75	25.09	24.84	24.73	24.37	24.66	23.93	23.10		
2	28.36	23.88	23.96	23.54	24.60	24.98	24.89	24.40	24.42	24.83	23.98	23.09		
3	28.12	23.90	23.90	23.52	24.30	24.70	24.96	24.18	24.26	24.83	23.92	23.07		
4	27.72	23.92	23.88	23.50	24.07	24.40	25.08	24.02	24.12	24.72	23.87	23.06		
5	27.53	23.97	23.86	23.48	23.92	24.09	25.00	24.00	23.92	24.86	23.77	23.10		
6	27.36	24.00	23.84	23.46	23.82	23.96	25.32	24.05	23.77	25.41	23.71	23.14		
7	27.27	24.06	23.82	23.44	23.73	23.90	25.56	23.94	23.67	25.30	23.63	23.09		
8	26.92	24.02	23.80	23.54	23.70	23.81	25.39	23.85	23.74	25.20	23.52	23.08		
9	26.84	23.98	23.88	23.50	23.68	24.07	25.10	23.80	23.83	24.91	23.45	23.30		
10	26.78	23.93	23.89	23.44	23.79	24.47	24.86	23.80	24.20	24.62	23.36	23.21		
11	26.74	23.90	23.96	23.46	23.76	24.84	24.74	23.78	24.26	24.26	23.26	23.13		
12	26.66	23.88	24.14	23.48	23.74	24.96	24.82	23.69	24.17	24.08	23.15	23.08		
13	26.51	23.90	24.12	23.46	23.72	24.90	25.54	23.62	23.97	24.08	23.10	23.05		
14	26.39	23.91	24.02	23.45	23.70	24.60	25.62	23.60	23.87	24.24	23.40	23.02		
15	26.30	23.84	23.94	24.16	23.70	24.36	25.32	23.56	23.94	24.52	23.39	23.01		
16	26.12	23.70	23.86	24.40	23.84	24.26	24.81	23.52	24.44	24.73	23.37	22.99		
17	25.94	23.74	23.76	24.24	24.08	24.17	24.56	23.52	24.66	24.83	23.35	22.97		
18	25.73	23.79	23.70	24.16	24.06	24.41	24.26	23.52	24.40	24.93	23.32	23.01		
19	25.58	23.77	23.77	23.96	24.07	25.39	24.16	23.52	24.26	25.27	23.58	23.10		
20	25.45	23.76	23.90	23.74	24.06	25.28	24.14	23.54	24.14	25.44	23.48	23.04		
21	25.30	23.89	24.07	23.70	24.10	25.16	24.07	23.60	24.15	25.26	23.35	23.06		
22	25.14	24.22	23.95	23.68	24.24	24.86	23.98	24.68	23.96	25.12	23.29	23.01		
23	24.95	24.03	23.88	23.76	24.40	24.85	23.92	25.16	24.32	24.88	23.26	22.97		
24	24.84	23.84	23.82	23.91	24.35	24.92	23.90	25.16	24.98	24.60	23.23	22.94		
25	24.66	23.80	23.74	23.90	24.74	24.95	23.92	25.22	25.30	24.30	23.21	22.94		
26	24.39	23.78	23.70	23.94	24.87	24.98	24.37	25.44	25.16	24.04	23.18	22.99		
27	24.01	23.76	23.65	24.00	24.70	24.89	24.57	25.58	25.01	23.91	23.15	23.01		
28	23.92	23.75	23.59	24.14	25.13	24.84	24.65	25.38	24.93	23.89	23.14	22.99		
29	23.91	23.74	23.57	24.49	25.62	24.85	24.73	25.25	24.48	23.80	23.13	22.96		
30	23.90	23.72	23.56	24.66	25.31	24.77	24.75	25.12	24.25	23.84		22.99		
31		23.71		24.64	25.18		24.81		24.33	23.83		23.23		
Mean	26.07	23.87	23.85	23.82	24.25	24.66	24.73	24.24	24.30	24.62	23.43	23.06		
Max	28.72	24.22	24.14	24.66	25.62	25.39	25.62	25.58	25.30	25.44	23.98	23.30	28.72	
Min	23.90	23.70	23.56	23.44	23.68	23.81	23.90	23.52	23.67	23.80	23.10	22.94	22.94	
Annual Max Momentary Gage Height		28.86	m. (MSL.) , at 06.00 Hours , on Apr 1 , 2011											
Zero Gage at Bottom Elevation		0.00	m. (MSL.) , River Bed 21.38 m. (MSL)											
Left Bank Elevation			29.32	m. (MSL.) ,										
Right Bank Elevation			29.33	m. (MSL.) , Drainage Area 510 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	937.60	15.20	16.70	10.25	32.75	42.70	35.20	32.25	24.40	30.50	15.95	5.00	
2	676.00	15.20	16.40	10.10	29.00	39.40	36.70	25.00	25.40	34.90	16.70	4.90	
3	535.20	15.50	15.50	9.80	23.00	31.50	38.80	20.60	22.20	34.90	15.80	4.70	
4	327.20	15.80	15.20	9.50	18.40	25.00	42.40	17.40	19.40	32.00	15.05	4.60	
5	251.70	16.55	14.90	9.20	15.80	18.80	40.00	17.00	15.80	35.80	13.55	5.00	
6	206.40	17.00	14.60	8.90	14.30	16.40	49.60	18.00	13.55	52.40	12.65	5.40	
7	189.30	18.20	14.30	8.60	12.95	15.50	58.40	16.10	12.05	49.00	11.45	4.90	
8	139.20	17.40	14.00	10.10	12.50	14.15	51.70	14.75	13.10	46.00	9.80	4.80	
9	130.40	16.70	15.20	9.50	12.20	18.40	43.00	14.00	14.45	37.30	8.75	7.00	
10	124.40	15.95	15.35	8.60	13.85	26.40	35.80	14.00	21.00	29.50	7.60	6.10	
11	121.20	15.50	16.40	8.90	13.40	35.20	32.50	13.70	22.20	22.20	6.60	5.30	
12	114.80	15.20	19.80	9.20	13.10	38.80	34.60	12.35	20.40	18.60	5.50	4.80	
13	103.70	15.50	19.40	8.90	12.80	37.00	57.60	11.30	16.55	18.60	5.00	4.50	
14	95.40	15.65	17.40	8.75	12.50	29.00	60.80	11.00	15.05	21.80	8.00	4.20	
15	90.00	14.60	16.10	20.20	12.50	24.20	49.60	10.40	16.10	27.40	7.90	4.10	
16	80.80	12.50	14.90	25.00	14.60	22.20	34.30	9.80	25.80	32.25	7.70	3.90	
17	73.60	13.10	13.40	21.80	18.60	20.40	28.20	9.80	30.50	34.90	7.50	3.70	
18	65.20	13.85	12.50	20.20	18.20	25.20	22.20	9.80	25.00	37.90	7.20	4.10	
19	59.20	13.55	13.55	16.40	18.40	51.70	20.20	9.80	22.20	48.10	10.70	5.00	
20	54.00	13.40	15.50	13.10	18.20	48.40	19.80	10.10	19.80	53.60	9.20	4.40	
21	49.00	15.35	18.40	12.50	19.00	44.80	18.40	11.00	20.00	47.80	7.50	4.60	
22	44.20	21.40	16.25	12.20	21.80	35.80	16.70	31.00	16.40	43.60	6.90	4.10	
23	38.50	17.60	15.20	13.40	25.00	35.50	15.80	44.80	23.40	36.40	6.60	3.70	
24	35.20	14.60	14.30	15.65	24.00	37.60	15.50	44.80	39.40	29.00	6.30	3.40	
25	30.50	14.00	13.10	15.50	32.50	38.50	15.80	46.60	49.00	23.00	6.10	3.40	
26	24.80	13.70	12.50	16.10	36.10	39.40	24.40	53.60	44.80	17.80	5.80	3.90	
27	17.20	13.40	11.75	17.00	31.50	36.70	28.40	59.20	40.30	15.65	5.50	4.10	
28	15.80	13.25	10.85	19.80	43.90	35.20	30.25	51.40	37.90	15.35	5.40	3.90	
29	15.65	13.10	10.55	26.80	60.80	35.50	32.25	47.50	26.60	14.00	5.30	3.60	
30	15.50	12.80	10.40	30.50	49.30	33.25	32.75	43.60	22.00	14.60		3.90	
31		12.65	</										

WATER YEAR : 2011**TAPI RIVER BASIN****Khlong Trom at Ban Trom , Surat Thani (X.259)**

Lat 08 - 32 - 24 N Long 99 - 05 - 58 E

Location : on right bank at Ban Trom.

	Ban	Trom	Amphoe	Chai Buri	Changwat	Surat Thani
Drainage Area	818	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank downstream at the footpath				Elevation	+62.353 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +62.040 m.(MSL.), records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	62.62	54.98	54.74	54.14	54.35	55.95	57.05	54.29	54.53	54.23	55.34	54.25	
2	61.77	54.72	54.66	54.02	54.14	54.78	57.01	54.23	56.66	55.97	54.84	54.00	
3	60.93	54.40	54.82	54.05	54.08	54.42	56.72	54.87	57.66	58.91	54.56	54.09	
4	60.14	54.28	54.47	54.04	54.04	54.40	56.46	54.50	58.08	58.82	54.41	53.96	
5	59.46	54.25	54.30	54.00	54.00	54.64	56.58	55.14	57.35	58.24	54.31	54.90	
6	58.87	54.22	54.17	53.99	53.98	54.24	56.81	54.87	56.17	56.72	54.27	54.74	
7	58.24	54.21	54.22	53.96	53.95	54.14	56.97	54.31	55.28	55.43	54.20	55.09	
8	57.74	54.35	54.21	53.94	53.95	54.13	56.14	54.77	54.72	54.84	54.16	57.12	
9	57.61	54.24	54.21	53.92	53.88	54.03	55.97	54.67	54.53	54.61	54.13	55.75	
10	56.79	54.32	54.12	53.91	53.81	54.76	55.50	54.88	54.48	54.49	54.08	56.12	
11	55.83	54.89	54.09	53.90	53.87	57.75	55.63	54.91	54.53	54.42	54.05	55.60	
12	55.82	54.76	54.10	53.92	53.90	59.00	55.89	54.82	54.53	54.40	54.02	54.54	
13	55.81	54.43	54.12	54.35	54.16	59.00	56.11	55.78	55.07	54.48	54.01	54.29	
14	55.41	54.40	54.05	55.24	54.12	58.51	55.67	56.64	54.46	54.63	53.99	54.14	
15	55.45	54.44	54.01	55.96	54.01	57.62	54.97	56.86	54.30	55.42	53.97	54.57	
16	55.35	54.17	54.11	56.16	54.06	56.41	54.68	56.73	54.56	54.92	53.96	54.13	
17	54.92	54.35	54.27	55.88	54.36	55.40	54.54	54.99	54.68	54.53	54.05	54.05	
18	54.74	55.28	54.46	54.61	53.94	55.00	55.65	54.55	54.49	54.60	54.25	54.28	
19	54.74	55.05	55.44	54.27	53.99	55.77	55.10	54.35	54.27	54.99	56.69	54.79	
20	54.98	55.37	54.82	54.14	54.39	57.65	54.88	54.31	54.20	57.73	56.79	54.17	
21	55.65	55.02	54.27	54.08	54.28	57.18	55.32	54.63	54.15	58.15	55.08	54.05	
22	55.10	54.41	54.11	54.04	54.16	55.98	54.90	54.71	54.32	57.25	54.40	53.96	
23	54.64	54.47	54.12	54.01	54.62	55.01	54.63	55.12	54.78	56.10	54.21	53.92	
24	54.54	54.36	55.50	54.10	55.06	54.84	54.44	55.25	54.64	55.64	54.20	53.89	
25	54.45	54.33	54.76	54.20	54.66	54.79	54.51	55.81	55.80	55.67	54.16	53.87	
26	54.36	54.44	54.24	54.33	54.11	54.78	54.37	55.27	55.22	55.45	54.06	53.98	
27	54.36	54.20	54.11	54.46	54.45	54.76	54.34	54.78	54.53	54.77	54.01	54.06	
28	54.38	54.11	54.06	54.47	56.68	55.49	54.33	54.85	54.47	54.46	53.98	54.04	
29	54.39	54.06	54.05	55.19	57.75	56.49	54.24	55.09	54.24	54.35	54.21	54.13	
30	54.44	54.04	54.07	55.33	58.07	56.98	54.21	54.87	54.25	54.74		53.94	
31		54.17		54.80	57.61		54.42		54.35	55.87		53.88	
Mean	56.45	54.47	54.36	54.43	54.59	55.80	55.42	55.03	55.01	55.64	54.43	54.46	
Max	62.62	55.37	55.50	56.16	58.07	59.00	57.05	56.86	58.08	58.91	56.79	57.12	62.62
Min	54.36	54.04	54.01	53.90	53.81	54.03	54.21	54.23	54.15	54.23	53.96	53.87	53.81
Annual Max Momentary Gage Height	62.95		m. (MSL.) ,				at 01.00 Hours , on Apr 1 , 2011						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	53.06	m. (MSL)					
Left Bank Elevation		62.07		m. (MSL.) ,									
Right Bank Elevation		62.03		m. (MSL.) ,		Drainage Area	818	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	365.95	15.34	12.22	6.32	8.15	28.25	49.00	7.61	9.77	7.07	20.02	7.25	
2	286.38	11.96	11.18	5.36	6.32	12.74	48.20	7.07	41.20	28.55	13.52	5.20	
3	218.25	8.60	13.26	5.60	5.84	8.78	42.40	13.91	63.00	103.40	10.04	5.92	
4	164.40	7.52	9.23	5.52	5.52	8.60	37.20	9.50	74.40	99.80	8.69	4.88	
5	127.35	7.25	7.70	5.20	5.20	10.92	39.60	17.42	55.37	79.40	7.79	14.30	
6	101.80	6.98	6.56	5.12	5.04	7.16	44.20	13.91	31.55	42.40	7.43	12.22	
7	79.40	6.89	6.98	4.88	4.80	6.32	47.40	7.79	19.24	21.17	6.80	16.77	
8	65.00	8.15	6.89	4.72	4.80	6.24	31.10	12.61	11.96	13.52	6.48	50.40	
9	61.75	7.16	6.89	4.56	4.24	5.44	28.55	11.31	9.77	10.53	6.24	25.33	
10	43.80	7.88	6.16	4.48	3.68	12.48	22.05	14.04	9.32	9.41	5.84	30.80	
11	26.45	14.17	5.92	4.40	4.16	65.25	23.71	14.43	9.77	8.78	5.60	23.30	
12	26.30	12.48	6.00	4.56	4.40	107.00	27.35	13.26	9.77	8.60	5.36	9.86	
13	26.15	8.87	6.16	8.15	6.48	107.00	30.65	25.73	16.51	9.32	5.28	7.61	
14	20.92	8.60	5.60	18.72	6.16	88.85	24.24	40.80	9.14	10.79	5.12	6.32	
15	21.42	8.96	5.28	28.40	5.28	62.00	15.21	45.20	7.70	21.05	4.96	10.13	
16	20.15	6.56	6.08	31.40	5.68	36.20	11.44	42.60	10.04	14.56	4.88	6.24	
17	14.56	8.15	7.43	27.20	8.24	20.80	9.86	15.47	11.44	9.77	5.60	5.60	
18	12.22	19.24	9.14	10.53	4.72	15.60	23.98	9.95	9.41	10.40	7.25	7.52	
19	12.22	16.25	21.30	7.43	5.12	25.60	16.90	8.15	7.43	15.47	41.80	12.87	
20	15.34	20.41	13.26	6.32	8.51	62.75	14.04	7.79	6.80	64.75	43.80	6.56	
21	23.98	15.86	7.43	5.84	7.52	51.60	19.76	10.79	6.40	76.50	16.64	5.60	
22	16.90	8.69	6.08	5.52	6.48	28.70	14.30	11.83	7.88	53.12	8.60	4.88	
23	10.92	9.23	6.16	5.28	10.66	15.73	10.79	17.16	12.74	30.50	6.89	4.56	
24	9.86	8.24	22.05	6.00	16.38	13.52	8.96	18.85	10.92	23.84	6.80	4.32	
25	9.05	7.97	12.48	6.80	11.18	12.87	9.59	26.15	26.00	24.24	6.48	4.16	
26	8.24	8.96	7.16	7.97	6.08	12.74	8.33	19.11	18.46	21.42	5.68	5.04	
27	8.24	6.80	6.08	9.14	9.05	12.48	8.06	12.74	9.77	12.61	5.28	5.68	
28	8.42	6.08	5.68	9.23	41.60	21.93	7.97	13.65	9.23	9.14	5.04	5.52	
29	8.51	5.68	5.60	18.07	65.25	37.80	7.16	16.77	7.16	8.15	6.89	6.24	
30	8.96	5.52	5.76	19.89	74.10	47.60	6.89	13.91	7.25	12.22		4.72	
31		6.56		13.00	61.75		8.78		8.15	27.05		4.24	
Total	1822.89	301.01	257.72	305.61</									

WATER YEAR : 2011**TAPI RIVER BASIN****Lower Khlong I - Pan at Ban Arpart , Surat Thani (X.260)**

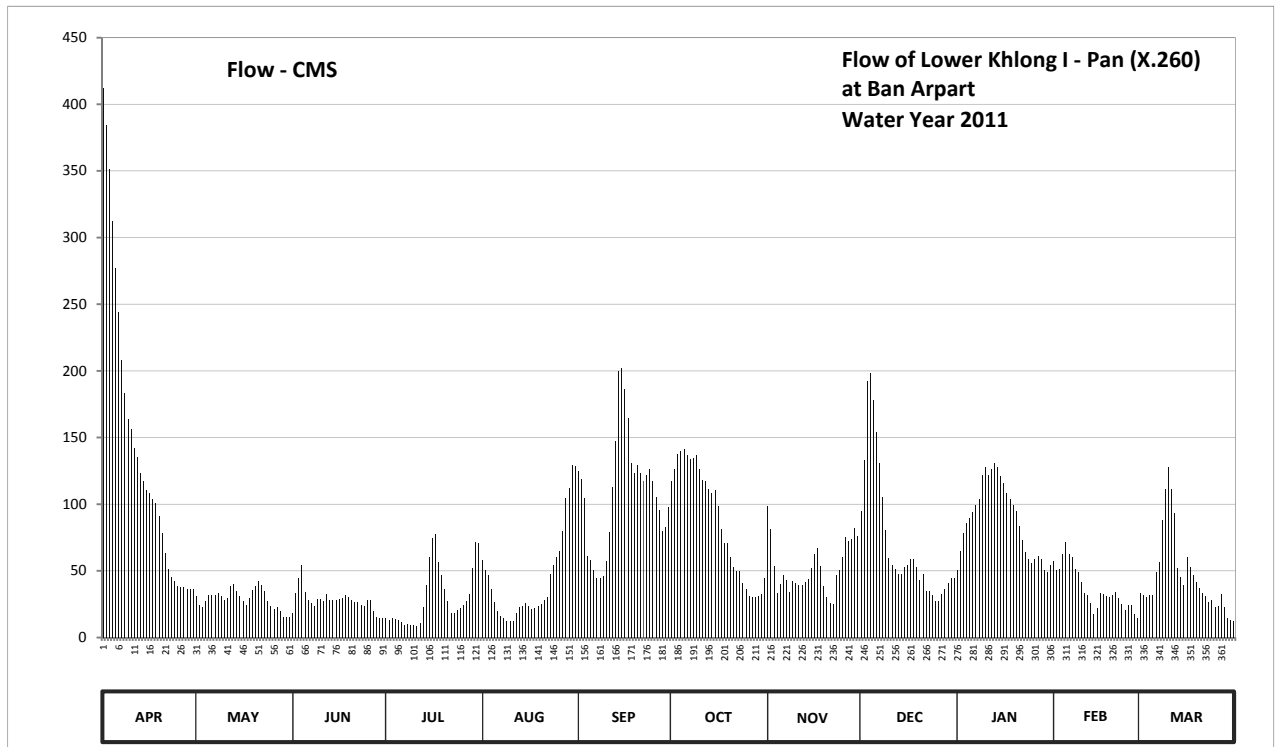
Lat 08 - 32 - 28 N Long 99 - 13 - 25 E

Location : on left bank at Ban Arpart.

	Ban	Arpart	Amphoe	Phrasaeng	Changwat	Surat Thani
Drainage Area	2,076	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+13.658 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	Overbank flow starts at elevation +13.600 m.(MSL.), records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.68	7.75	7.00	6.65	8.74	10.29	10.15	9.74	9.67	8.53	8.73	7.85	
2	14.31	7.36	7.86	6.56	8.52	10.17	10.33	9.35	10.46	8.94	8.53	7.78	
3	13.87	7.30	8.29	6.65	8.40	9.88	10.55	8.61	11.52	9.28	8.55	7.73	
4	13.35	7.57	8.63	6.62	7.97	8.83	10.60	7.87	11.62	9.46	8.87	7.80	
5	12.85	7.80	7.88	6.50	7.52	8.75	10.62	8.13	11.28	9.54	9.12	7.80	
6	12.34	7.80	7.60	6.39	7.11	8.51	10.54	8.40	10.87	9.64	8.87	8.47	
7	11.79	7.79	7.45	6.16	6.85	8.30	10.48	8.24	10.41	9.76	8.80	8.70	
8	11.37	7.84	7.33	6.22	6.65	8.30	10.49	7.88	9.90	9.87	8.55	9.52	
9	11.05	7.77	7.63	6.12	6.46	8.36	10.53	8.20	9.34	10.23	8.46	10.02	
10	10.91	7.59	7.64	6.15	6.46	8.73	10.33	8.14	8.79	10.36	8.17	10.35	
11	10.64	7.68	7.58	6.11	6.44	9.31	10.16	8.10	8.63	10.23	7.86	10.02	
12	10.50	8.07	7.82	6.30	7.00	10.06	10.15	8.08	8.55	10.32	7.78	9.63	
13	10.27	8.12	7.62	7.27	7.28	10.75	10.02	8.17	8.41	10.42	7.48	8.57	
14	10.15	7.91	7.59	8.10	7.32	11.65	9.97	8.28	8.42	10.36	6.93	8.34	
15	10.01	7.74	7.62	8.80	7.45	11.68	10.01	8.57	8.60	10.22	7.24	8.10	
16	9.96	7.54	7.66	9.19	7.32	11.42	9.74	8.87	8.64	10.12	7.85	8.82	
17	9.86	7.37	7.67	9.27	7.19	11.06	9.35	9.01	8.77	9.97	7.83	8.59	
18	9.79	7.67	7.79	8.71	7.25	10.41	9.10	8.62	8.77	9.87	7.75	8.38	
19	9.58	7.95	7.73	8.40	7.32	10.27	9.10	8.06	8.60	9.76	7.73	8.17	
20	9.28	8.06	7.59	7.97	7.41	10.38	8.80	7.70	8.25	9.66	7.79	8.00	
21	8.89	8.21	7.52	7.54	7.60	10.27	8.60	7.46	8.43	9.42	7.89	7.86	
22	8.54	8.11	7.50	7.00	7.72	10.15	8.50	7.40	7.91	9.15	7.68	7.77	
23	8.33	7.92	7.37	6.98	8.42	10.24	8.50	8.39	7.92	8.92	7.42	7.52	
24	8.20	7.57	7.34	7.14	8.65	10.33	8.15	8.53	7.79	8.77	7.12	7.62	
25	8.06	7.33	7.62	7.24	8.81	10.14	7.97	8.80	7.57	8.68	7.37	7.30	
26	8.04	7.18	7.60	7.38	8.94	9.90	7.77	9.20	7.56	8.76	7.39	7.31	
27	8.04	7.26	7.07	7.56	9.33	9.68	7.70	9.14	7.83	8.84	6.92	7.83	
28	7.99	7.10	6.73	7.82	9.88	9.32	7.72	9.17	7.98	8.76	6.66	7.26	
29	7.99	6.79	6.68	8.58	10.04	9.39	7.76	9.37	8.15	8.51	6.59	6.68	
30	7.98	6.77	6.68	9.12	10.38	9.73	7.83	9.23	8.29	8.48		6.50	
31		6.76		9.10	10.37		8.30		8.31	8.65		6.46	
Mean	10.29	7.60	7.54	7.41	7.96	9.88	9.35	8.49	8.94	9.47	7.86	8.15	
Max	14.68	8.21	8.63	9.27	10.38	11.68	10.62	9.74	11.62	10.42	9.12	10.35	14.68
Min	7.98	6.76	6.68	6.11	6.44	8.30	7.70	7.40	7.56	8.48	6.59	6.46	6.11
Annual Max Momentary Gage Height	14.83		m. (MSL.) ,			at 01.00 Hours , on Apr 1 , 2011							
Zero Gage at Bottom Elevation		0.00	m. (MSL.) ,			River Bed	3.91	m. (MSL)					
Left Bank Elevation		13.60	m. (MSL.) ,										
Right Bank Elevation		13.61	m. (MSL.) ,			Drainage Area	2076	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	412.40	31.00	18.40	14.30	57.90	124.50	117.50	98.30	95.15	50.90	57.55	33.25	
2	384.25	24.16	33.50	13.40	50.60	118.50	126.50	81.00	133.00	64.90	50.90	31.60	
3	351.25	23.20	44.25	14.30	47.00	104.60	137.50	53.35	192.20	78.20	51.50	30.60	
4	312.25	27.52	54.05	14.00	36.25	61.05	140.00	33.75	198.20	85.70	62.45	32.00	
5	277.25	32.00	34.00	12.80	26.72	58.25	141.00	40.25	177.80	89.30	71.80	32.00	
6	244.10	32.00	28.00	11.70	20.16	50.30	137.00	47.00	153.85	93.80	62.45	49.10	
7	208.40	31.80	25.60	9.40	16.45	44.50	134.00	43.00	130.50	99.20	60.00	56.50	
8	183.20	33.00	23.68	10.00	14.30	44.50	134.50	34.00	105.50	104.15	51.50	88.40	
9	164.00	31.40	28.60	9.00	12.40	46.00	136.50	42.00	80.60	121.50	48.80	111.00	
10	156.05	27.84	28.80	9.30	12.40	57.55	126.50	40.50	59.65	128.00	41.25	127.50	
11	142.00	29.60	27.68	8.90	12.20	79.40	118.00	39.50	54.05	121.50	33.50	111.00	
12	135.00	38.75	32.50	10.80	18.40	113.00	117.50	39.00	51.50	126.00	31.60	93.35	
13	123.50	40.00	28.40	22.72	22.88	147.50	111.00	41.25	47.30	131.00	26.08	52.10	
14	117.50	34.75	27.84	39.50	23.52	200.00	108.65	44.00	47.60	128.00	17.49	45.50	
15	110.50	30.80	28.40	60.00	25.60	201.80	110.50	52.10	53.00	121.00	22.24	39.50	
16	108.20	27.04	29.20	74.60	23.52	186.20	98.30	62.45	54.40	116.00	33.25	60.70	
17	103.70	24.32	29.40	77.80	21.44	164.60	81.00	67.40	58.95	108.65	32.75	52.70	
18	100.55	29.40	31.80	56.85	22.40	130.50	71.00	53.70	58.95	104.15	31.00	46.50	
19	91.10	35.75	30.60	47.00	23.52	123.50	71.00	38.50	53.00	99.20	30.60	41.25	
20	78.20	38.50	27.84	36.25	24.96	129.00	60.00	30.00	43.25	94.70	31.80	37.00	
21	63.15	42.25	26.72	27.04	28.00	123.50	53.00	25.76	47.90	83.90	34.25	33.50	
22	51.20	39.75	26.40	18.40	30.40	117.50	50.00	24.80	34.75	73.00	29.60	31.40	
23	45.25	35.00	24.32	18.14	47.60	122.00	50.00	46.75	35.00	64.20	25.12	26.72	
24	42.00	27.52	23.84	20.64	54.75	126.50	40.75	50.90	31.80	58.95	20.32	28.40	
25	38.50	23.68	28.40	22.24	60.35	117.00	36.25	60.00	27.52	55.80	24.32	23.20	
26	38.00	21.28	28.00	24.48	64.90	105.50	31.40	75.00	27.36	58.60	24.64	23.36	
27	38.00	22.56	19.52	27.36	80.20	95.60	30.00	72.60	32.75	61.40	17.36	32.75	
28	36.75	20.00	15.10	32.50	104.60	79.80	30.40	73.80	36.50	58.60	14.40	22.56	
29	36.75	15.70	14.60	52.40	112.00	82.60	31.20	81.80	40.75	50.30	13.70	14.60	
30	36.50	15.50											

WATER YEAR : 2011**THALE SAP SONGKHLA****Khlong U - Taphao at Ban Hat Yai Nai , Songkhla (X.44)**

Lat 07 - 00 - 02 N Long 100 - 27 - 32 E

Location : on left bank at the bridge of Hat Yai - Rattaphum Highway.

	Ban	Hat Yai Nai	Amphoe	Hat Yai	Changwat	Songkhla
Drainage Area	1,720	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 200 meters from the top staff gage.				Elevation	+7.439 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1967 to date					
Rating Operation						
Period of Rating	1967 - 1972 , 1983 - 1988 , 1999 to date					
Rated by Flot	-					
Rated by Current Meter	1967 - 1972 , 1983 - 1988 , 1999 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 36 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	0.50	0.28	0.10	0.07	0.50	0.27	1.11	1.58	4.04	0.93	0.46	
2	0.62	0.44	0.23	0.08	0.18	0.23	0.60	0.83	1.19	6.90	0.80	0.49	
3	0.64	0.51	0.14	0.13	0.12	0.19	0.17	0.80	1.08	5.80	0.85	0.51	
4	0.70	0.46	0.09	0.23	0.12	0.18	0.15	0.72	1.22	3.94	0.87	0.47	
5	0.62	0.51	0.07	0.34	0.14	0.22	0.14	0.62	1.88	2.72	0.85	0.38	
6	0.56	0.51	0.07	0.32	0.07	0.18	0.14	0.72	1.93	2.02	0.77	0.79	
7	0.58	0.50	0.06	0.26	0.00	0.10	0.30	0.78	1.72	1.90	0.66	0.95	
8	0.60	0.49	0.09	0.20	-0.04	0.08	0.37	0.93	1.54	1.66	0.55	1.27	
9	0.55	0.47	0.12	0.16	0.02	0.10	0.44	0.81	1.25	1.43	0.60	0.99	
10	0.52	0.39	0.15	0.06	-0.08	0.10	0.37	0.46	1.14	1.86	0.69	1.13	
11	0.60	0.35	0.21	0.03	0.10	0.95	0.25	0.66	1.14	2.21	0.54	1.42	
12	0.54	0.32	0.25	0.03	0.10	1.97	0.21	0.68	1.24	2.10	0.67	1.34	
13	0.50	0.31	0.25	0.03	0.08	2.58	0.20	0.65	1.86	4.77	0.75	1.09	
14	0.55	0.29	0.25	0.02	0.15	2.43	0.28	0.62	1.81	5.20	0.60	0.82	
15	0.52	0.31	0.23	0.04	0.18	1.74	0.38	0.69	1.40	3.80	0.44	0.58	
16	0.48	0.38	0.22	0.07	0.25	0.99	0.36	0.73	1.77	2.82	0.46	0.52	
17	0.50	0.43	0.21	0.06	0.29	0.59	0.45	0.60	2.61	1.92	0.47	0.58	
18	0.49	0.47	0.19	0.06	0.45	0.35	0.48	0.60	2.54	1.43	0.48	0.51	
19	0.54	0.51	0.18	0.07	0.25	0.32	0.46	0.55	2.08	1.45	0.57	0.44	
20	0.60	0.67	0.17	0.10	0.25	0.18	0.50	0.64	1.76	2.27	0.50	0.38	
21	0.55	0.76	0.16	0.00	0.23	0.10	0.45	1.93	1.23	2.91	0.51	0.41	
22	0.54	0.68	0.15	-0.03	0.24	0.07	0.57	3.05	1.33	2.44	0.55	0.53	
23	0.48	0.57	0.14	0.09	0.20	0.14	0.55	2.96	1.29	1.95	0.49	0.35	
24	0.45	0.49	0.13	0.04	0.28	0.18	0.55	3.59	1.11	1.74	0.42	0.31	
25	0.56	0.45	0.12	0.03	0.25	0.19	0.54	3.74	1.11	1.60	0.36	0.45	
26	0.48	0.38	0.11	0.06	0.12	0.12	0.61	3.18	1.06	1.53	0.38	0.60	
27	0.50	0.31	0.11	0.04	0.11	0.15	0.64	2.65	1.05	1.50	0.43	0.58	
28	0.52	0.33	0.10	0.04	0.23	0.12	0.61	2.44	1.02	1.15	0.45	0.52	
29	0.46	0.34	0.09	0.02	0.36	0.16	0.64	2.50	0.95	1.00	0.41	0.48	
30	0.39	0.33	0.08	0.05	0.62	0.19	0.72	2.12	1.03	0.92		0.45	
31		0.32		0.04	0.72		0.94		1.31	0.93		0.43	
Mean	0.54	0.44	0.16	0.09	0.20	0.51	0.43	1.41	1.46	2.51	0.59	0.65	
Max	0.70	0.76	0.28	0.34	0.72	2.58	0.94	3.74	2.61	6.90	0.93	1.42	6.90
Min	0.39	0.29	0.06	-0.03	-0.08	0.07	0.14	0.46	0.95	0.92	0.36	0.31	-0.08
Annual Max Momentary Gage Height	7.05		m. (MSL.) ,		at 10.00 Hours , on Jan 2 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed		-2.59		m. (MSL)				
Left Bank Elevation	8.93		m. (MSL.) ,										
Right Bank Elevation	8.94		m. (MSL.) ,		Drainage Area		1720		Square Kilometers				

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.00	20.50	14.00	9.50	8.75	20.50	13.75	43.40	63.10	203.00	36.20	19.10	
2	24.70	18.40	12.75	9.00	11.50	12.75	24.00	32.20	46.60	510.00	31.00	20.15	
3	25.40	20.85	10.50	10.25	10.00	11.75	11.25	31.00	42.20	366.00	33.00	20.85	
4	27.50	19.10	9.25	12.75	10.00	11.50	10.75	28.20	47.80	195.80	33.80	19.45	
5	24.70	20.85	8.75	15.50	10.50	12.50	10.50	24.70	78.00	122.60	33.00	16.50	
6	22.60	20.85	8.75	15.00	8.75	11.50	10.50	28.20	80.50	85.00	29.95	30.65	
7	23.30	20.50	8.50	13.50	7.00	9.50	14.50	30.30	70.00	79.00	26.10	37.00	
8	24.00	20.15	9.25	12.00	6.20	9.00	16.25	36.20	61.30	67.00	22.25	49.80	
9	22.25	19.45	10.00	11.00	7.50	9.50	18.40	31.40	49.00	56.35	24.00	38.60	
10	21.20	16.75	10.75	8.50	5.40	9.50	16.25	19.10	44.60	77.00	27.15	44.20	
11	24.00	15.75	12.25	7.75	9.50	37.00	13.25	26.10	44.60	94.55	21.90	55.90	
12	21.90	15.00	13.25	7.75	9.50	82.50	12.25	26.80	48.60	89.00	26.45	52.60	
13	20.50	14.75	13.25	7.75	9.00	114.90	12.00	25.75	77.00	260.45	29.25	42.60	
14	22.25	14.25	13.25	7.50	10.75	106.65	14.00	24.70	74.50	302.00	24.00	31.80	
15	21.20	14.75	12.75	8.00	11.50	71.00	16.50	27.15	55.00	186.00	18.40	23.30	
16	19.80	16.50	12.50	8.75	13.25	38.60	16.00	28.55	72.50	128.10	19.10	21.20	
17	20.50	18.05	12.25	8.50	14.25	23.65	18.75	24.00	116.55	80.00	19.45	23.30	
18	20.15	19.45	11.75	8.50	18.75	15.75	19.80	24.00	112.70	56.35	19.80	20.85	
19	21.90	20.85	11.50	8.75	13.25	15.00	19.10	22.25	88.00	57.25	22.95	18.40	
20	24.00	26.45	11.25	9.50	13.25	11.50	20.50	25.40	72.00	97.85	20.50	16.50	
21	22.25	29.60	11.00	7.00	12.75	9.50	18.75	80.50	48.20	133.05	20.85	17.35	
22	21.90	26.80	10.75	6.40	13.00	8.75	22.95	141.00	52.20	107.20	22.25	21.55	
23	19.80	22.95	10.50	9.25	12.00	10.50	22.25	135.80	50.60	81.50	20.15	15.75	
24	18.75	20.15	10.25	8.00	14.00	11.50	22.25	173.40	43.40	71.00	17.70	14.75	
25	22.60	18.75	10.00	7.75	13.25	11.75	21.90	182.40	43.40	64.00	16.00	18.75	
26	19.80	16.50	9.75	8.50	10.00	10.00	24.35	148.80	41.40	60.85	16.50	24.00	
27	20.50	14.75	9.75	8.00	9.75	10.75	25.40	118.75	41.00	59.50	18.05	23.30	
28	21.20	15.25	9.50	8.00	12.75	10.00	24.35	107.20	39.80	45.00	18.75	21.20	
29	19.10	15.50	9.25	7.50	16.00	11.00	25.40	110.50	37.00	39.00	17.35	19.80	
30	16.75	15.25	9.00	8.25	24.70	11.75	28.20	90.00	40.20	35.80		18.75	

WATER YEAR : 2011**THALE SAP SONGKHLA****Khlong Ratthaphum at Ban Nasithong , Songkhla (X.67A)**

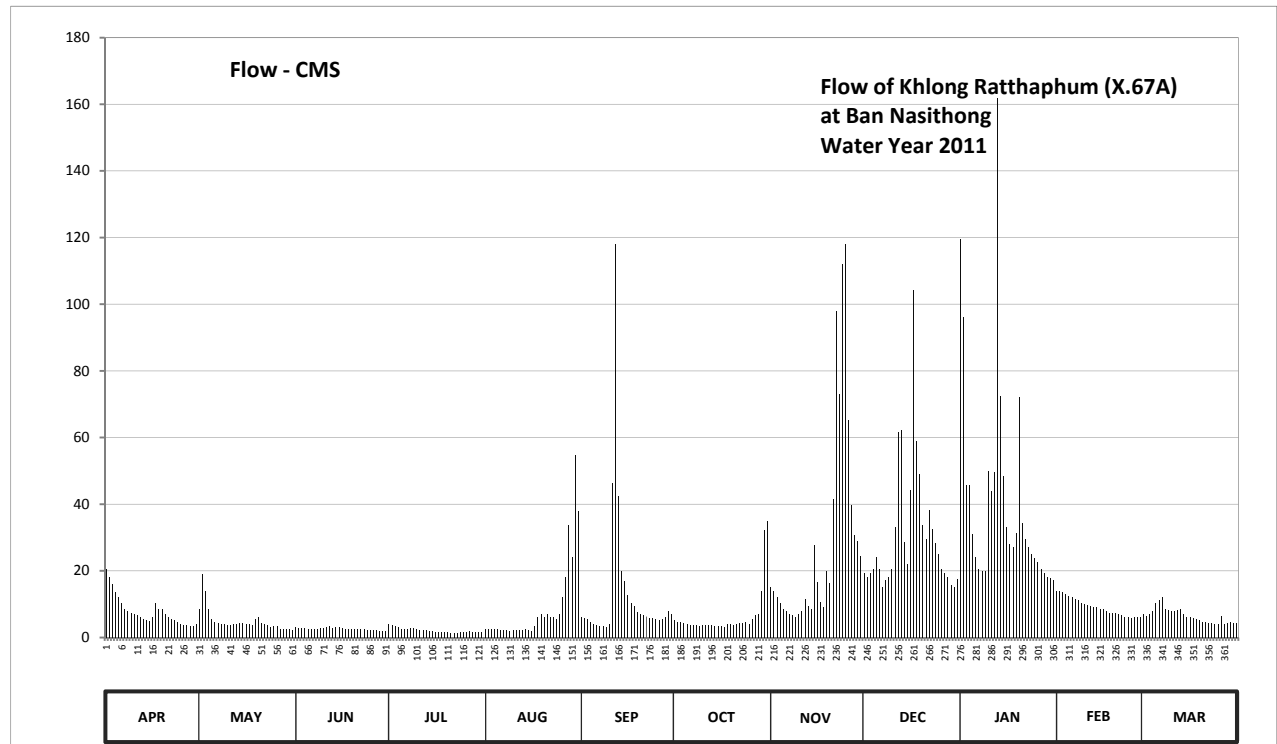
Lat 07 - 06 - 50 N Long 100 - 12 - 15 E

Location : on right bank at Ban Kampheang Phet.

	Ban	Nasithong	Amphoe	Ratthaphum	Changwat	Songkhla
Drainage Area	248	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the gage site.				Elevation	+5.845 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2006 to date					
Rating Operation						
Period of Rating	2006 to date					
Rated by Flot	-					
Rated by Current Meter	2006 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 2011.					

Gage Height in Meter (A.D.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	0.40	0.04	0.10	0.00	0.25	0.18	0.75	0.95	3.79	0.70	0.29	
2	0.90	0.94	0.03	0.08	0.01	0.22	0.15	0.70	0.90	3.30	0.69	0.26	
3	0.80	0.70	0.03	0.06	0.00	0.20	0.14	0.60	0.95	1.96	0.68	0.30	
4	0.68	0.40	0.02	0.05	0.00	0.15	0.12	0.50	1.00	1.96	0.65	0.35	
5	0.60	0.20	0.01	0.00	-0.01	0.10	0.10	0.40	1.16	1.46	0.62	0.50	
6	0.50	0.15	0.00	0.00	-0.02	0.08	0.09	0.35	1.00	1.16	0.60	0.55	
7	0.40	0.12	0.00	0.01	-0.03	0.07	0.09	0.30	0.75	1.00	0.58	0.60	
8	0.35	0.11	0.01	0.02	-0.05	0.06	0.08	0.28	0.85	0.98	0.55	0.40	
9	0.32	0.10	0.02	0.03	-0.06	0.05	0.07	0.25	0.90	0.97	0.50	0.37	
10	0.30	0.08	0.03	-0.01	-0.05	0.10	0.08	0.30	1.00	2.10	0.48	0.35	
11	0.27	0.09	0.05	-0.02	-0.05	1.98	0.08	0.35	1.53	1.90	0.46	0.36	
12	0.25	0.10	0.06	-0.03	-0.04	3.76	0.09	0.57	2.44	2.09	0.45	0.37	
13	0.20	0.11	0.03	-0.04	-0.03	1.85	0.08	0.44	2.46	4.59	0.43	0.38	
14	0.19	0.12	0.05	-0.07	-0.01	0.98	0.07	0.38	1.36	2.73	0.42	0.30	
15	0.17	0.13	0.04	-0.09	-0.05	0.84	0.07	1.32	1.07	2.05	0.40	0.25	
16	0.25	0.11	0.03	-0.10	-0.07	0.63	0.06	0.83	1.91	1.53	0.38	0.23	
17	0.50	0.10	0.01	-0.10	0.07	0.50	0.05	0.51	3.48	1.34	0.35	0.22	
18	0.40	0.09	-0.01	-0.11	0.24	0.45	0.10	0.42	2.37	1.30	0.32	0.20	
19	0.40	0.20	0.00	-0.12	0.30	0.34	0.10	0.98	2.07	1.47	0.32	0.18	
20	0.30	0.25	0.00	-0.13	0.25	0.30	0.09	0.82	1.55	2.72	0.31	0.15	
21	0.25	0.13	0.00	-0.14	0.30	0.28	0.10	1.82	1.40	1.58	0.30	0.14	
22	0.20	0.10	0.00	-0.14	0.25	0.25	0.12	3.34	1.71	1.40	0.28	0.13	
23	0.18	0.08	-0.01	-0.15	0.25	0.22	0.13	2.75	1.51	1.30	0.25	0.12	
24	0.15	0.05	-0.02	-0.13	0.20	0.22	0.15	3.64	1.35	1.20	0.23	0.11	
25	0.10	0.06	-0.03	-0.13	0.30	0.20	0.10	3.76	1.20	1.15	0.22	0.10	
26	0.09	0.07	-0.04	-0.12	0.60	0.19	0.21	2.54	1.00	1.10	0.23	0.26	
27	0.08	0.01	-0.05	-0.09	0.90	0.21	0.27	1.76	0.95	1.00	0.23	0.11	
28	0.07	0.00	-0.06	-0.10	1.55	0.23	0.30	1.45	0.90	0.95	0.25	0.12	
29	0.07	-0.01	-0.07	-0.11	1.16	0.35	0.70	1.38	0.79	0.90	0.26	0.14	
30	0.10	-0.01	-0.07	-0.11	2.25	0.30	1.50	1.18	0.75	0.88		0.13	
31		-0.02		-0.10	1.70		1.60		0.87	0.85		0.12	
Mean	0.34	0.16	0.00	-0.06	0.32	0.51	0.23	1.16	1.36	1.70	0.42	0.26	
Max	1.00	0.94	0.06	0.10	2.25	3.76	1.60	3.76	3.48	4.59	0.70	0.60	4.59
Min	0.07	-0.02	-0.07	-0.15	-0.07	0.05	0.05	0.25	0.75	0.85	0.22	0.10	-0.15
Annual Max Momentary Gage Height	5.60		m. (A.D.) ,			at 05.00 Hours , on Jan 13 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (A.D.) ,			River Bed	-1.39	m. (A.D.)					
Left Bank Elevation	6.28		m. (A.D.) ,										
Right Bank Elevation	6.29		m. (A.D.) ,			Drainage Area	248	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	20.50	8.70	3.10	4.00	2.50	6.30	5.20	15.00	19.37	119.50	14.00	6.94		
2	18.25	19.15	2.95	3.70	2.65	5.82	4.75	14.00	18.25	96.00	13.80	6.46		
3	16.00	14.00	2.95	3.40	2.50	5.50	4.60	12.00	19.37	45.80	13.60	7.10		
4	13.60	8.70	2.80	3.25	2.50	4.75	4.30	10.35	20.50	45.80	13.00	7.90		
5	12.00	5.50	2.65	2.50	2.43	4.00	4.00	8.70	24.10	31.15	12.40	10.35		
6	10.35	4.75	2.50	2.50	2.35	3.70	3.85	7.90	20.50	24.10	12.00	11.18		
7	8.70	4.30	2.50	2.65	2.28	3.55	3.85	7.10	15.00	20.50	11.67	12.00		
8	7.90	4.15	2.65	2.80	2.13	3.40	3.70	6.78	17.12	20.05	11.18	8.70		
9	7.42	4.00	2.80	2.95	2.05	3.25	3.55	6.30	18.25	19.82	10.35	8.22		
10	7.10	3.70	2.95	2.43	2.13	4.00	3.70	7.10	20.50	50.00	10.02	7.90		
11	6.62	3.85	3.25	2.35	2.13	46.40	3.70	7.90	33.08	44.00	9.69	8.06		
12	6.30	4.00	3.40	2.28	2.20	118.00	3.85	11.51	61.50	49.70	9.52	8.22		
13	5.50	4.15	2.95	2.20	2.28	42.50	3.70	9.36	62.25	161.95	9.19	8.38		
14	5.35	4.30	3.25	1.98	2.43	20.05	3.55	8.38	28.60	72.37	9.03	7.10		
15	5.05	4.45	3.10	1.83	2.13	16.90	3.55	27.70	22.07	48.50	8.70	6.30		
16	6.30	4.15	2.95	1.75	1.98	12.60	3.40	16.67	44.30	33.08	8.38	5.98		
17	10.35	4.00	2.65	1.75	3.55	10.35	3.25	10.51	104.30	28.15	7.90	5.82		
18	8.70	3.85	2.43	1.68	6.14	9.52	4.00	9.03	58.95	27.25	7.42	5.50		
19	8.70	5.50	2.50	1.60	7.10	7.74	4.00	20.05	49.10	31.43	7.42	5.20		
20	7.10	6.30	2.50	1.53	6.30	7.10	3.85	16.45	33.63	72.00	7.26	4.75		
21	6.30	4.45	2.50	1.45	7.10	6.78	4.00	41.60	29.50	34.45	7.10	4.60		
22	5.50	4.00	2.50	1.45	6.30	6.30	4.30	97.80	38.30	29.50	6.78	4.45		
23	5.20	3.70	2.43	1.38	6.30	5.82	4.45	73.12	32.53	27.25	6.30	4.30		
24	4.75	3.25	2.35	1.53	5.50	5.82	4.75	112.00	28.37	25.00	5.98	4.15		
25	4.00	3.40	2.28	1.53	7.10	5.50	4.00	118.00	25.00	23.87	5.82	4.00		
26	3.85	3.55	2.20	1.60	12.00	5.35	5.66	65.25	20.50	22.75	5.98	6.46		
27	3.70	2.65	2.13	1.83	18.25	5.66	6.62	39.80	19.37	20.50	5.98	4.15		
28	3.55	2.50	2.05	1.75	33.63	5.98	7.10	30.88	18.25	19.37	6.30	4.30		
29	3.55	2.43	1.98	1.68	24.10	7.90	14.00	29.05	15.80	18.25	6.46	4.60		
30	4.00	2.43	1.98	1.68	54.75	7.10	32.25	24.55	15.00	17.80		4.45		
31		2.35		1.75	38.00		35.00		17.57	17.12		4.30		
Total	236.19	156.21	79.23	66.76	272.79	397.64	200.48	864.84	950.93	1297.01	263.23	201.82	4987.13	CMSDAY
Mean	7.87	5.04	2.64	2.15	8.80	13.25	6.47	28.83	30.68	41.84	9.08	6.51	13.63	CMS
Max	20.50	19.15	3.40	4.00	54.75	118.00	35.00	118.00	104.30	161.95	14.00	12.00	161.95	CMS
Min	3.55	2.35	1.98	1.38	1.98	3.25	3.25	6.30	15.00	17.12	5.82	4.00	1.38	CMS
Runoff	20.41	13.50	6.85	5.77	23.57	34.36	17.32	74.72	82.16	112.06	22.74	17.44	430.89	MCM
Momentary Peak	223.70 CMS. at 5.60 m. (A.D.) at 05:00 Hours , on Jan 13 , 2011													
Runoff Yield	54.78	Liters/Second/Square KM.		Momentary Peak Yield		899,297	Liters/Second/Square KM.							

WATER YEAR : 2011

THALE SAP SONGKHLA

Khlong Tha Khae at Ban Tha Khae , Phatthalung (X.68)

Lat 07 - 34 - 01 N Long 100 - 03 - 05 E

Location : on left bank downstream side of the bridge of Phatthalung - Hat Yai Highway.

	Ban	Tha Khae	Amphoe	Mueang	Changwat	Phatthalung
Drainage Area	302	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage observer's house.				Elevation	+15.966 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1967 to date					
Rating Operation						
Period of Rating	1967 - 1972 , 1983 to date					
Rated by Flot	-					
Rated by Current Meter	1967 - 1972 , 1983 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Flow regulated by Tha Khae Weir.					
	Stage-discharge relation defined by 32 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.13	13.19	13.00	12.90	12.95	12.93	13.27	13.90	13.77	14.64	14.49	13.34	
2	14.15	13.19	13.04	12.92	12.92	12.88	13.28	13.73	13.68	15.56	13.84	13.30	
3	14.12	13.17	13.08	12.95	12.91	12.85	13.20	13.48	13.60	15.37	13.85	13.33	
4	13.89	13.19	13.03	13.00	12.88	12.83	13.25	13.38	13.63	14.25	13.73	13.35	
5	13.82	13.20	13.01	12.95	12.85	12.83	13.34	13.45	13.53	13.92	13.68	13.50	
6	13.84	13.22	13.00	12.90	12.83	12.81	13.33	13.40	13.47	13.80	13.66	13.66	
7	13.80	13.35	12.98	12.90	12.84	12.80	13.19	13.26	13.42	13.72	13.65	13.44	
8	13.71	13.14	12.98	12.87	12.84	12.80	13.11	13.16	13.35	13.68	13.63	13.36	
9	13.67	13.09	12.99	12.85	12.79	12.78	13.17	13.14	13.65	13.64	13.61	13.37	
10	13.63	13.07	12.97	12.82	12.76	12.86	13.05	13.09	13.62	13.68	13.59	13.39	
11	13.60	13.10	12.98	12.80	12.77	13.85	13.09	13.13	13.81	13.76	13.57	13.29	
12	13.57	13.10	13.00	12.91	12.83	14.26	13.01	13.16	13.94	13.86	13.54	13.21	
13	13.55	13.09	13.02	13.02	12.83	13.75	13.00	13.16	13.79	13.96	13.56	13.20	
14	13.53	13.07	13.14	13.03	12.79	13.48	12.94	13.77	13.60	13.97	13.50	13.17	
15	13.49	13.05	13.05	13.25	12.81	13.29	12.94	13.84	13.59	15.23	13.44	13.14	
16	13.44	13.09	13.13	13.39	12.79	13.15	12.99	14.00	14.57	14.08	13.41	13.13	
17	13.41	13.10	13.02	13.07	12.81	13.07	12.94	13.63	14.88	13.94	13.37	13.12	
18	13.45	13.10	12.99	12.94	12.82	13.03	12.94	13.53	14.32	13.97	13.33	13.14	
19	13.50	13.09	12.97	12.88	12.79	13.02	12.90	13.36	14.11	13.93	13.43	13.13	
20	13.51	13.11	12.97	12.80	12.81	13.11	13.00	13.57	13.99	14.11	13.37	13.08	
21	13.42	13.17	12.96	12.75	12.96	13.19	12.97	13.74	13.87	13.82	13.34	13.12	
22	13.36	13.16	12.95	12.80	13.08	13.03	12.97	14.82	13.89	13.78	13.28	13.08	
23	13.32	13.04	12.93	12.85	13.04	12.99	12.96	15.11	13.79	13.68	13.26	13.02	
24	13.30	13.00	12.90	12.92	12.95	12.96	12.94	15.22	13.82	13.62	13.23	13.02	
25	13.26	13.00	12.88	12.96	12.90	12.95	13.04	15.27	14.03	13.57	13.20	13.01	
26	13.22	13.00	12.89	12.98	13.15	13.00	13.09	14.62	14.24	13.57	13.19	13.00	
27	13.20	13.01	12.90	13.00	13.20	13.19	13.25	14.32	14.03	13.59	13.14	13.24	
28	13.19	13.00	12.87	12.98	13.61	13.16	13.16	14.10	13.86	13.56	13.36	13.44	
29	13.18	13.01	12.86	13.01	13.58	13.28	13.43	13.96	13.77	13.51	13.59	13.14	
30	13.17	13.00	12.99	13.11	13.35	13.39	13.83	13.86	13.86	13.57		13.07	
31		13.00		13.04	13.03		13.82		13.82	13.89		13.08	
Mean	13.55	13.10	12.98	12.95	12.95	13.12	13.14	13.81	13.85	13.98	13.51	13.22	
Max	14.15	13.35	13.14	13.39	13.61	14.26	13.83	15.27	14.88	15.56	14.49	13.66	15.56
Min	13.17	13.00	12.86	12.75	12.76	12.78	12.90	13.09	13.35	13.51	13.14	13.00	12.75
Annual Max Momentary Gage Height	16.19		m. (MSL.) ,		at 03.00 Hours , on Jan 3 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	11.43	m. (MSL)						
Left Bank Elevation	18.34		m. (MSL.) ,										
Right Bank Elevation	18.58		m. (MSL.) ,		Drainage Area	302	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.78	5.10	3.20	2.40	2.80	2.64	5.97	14.85	12.75	28.34	25.30	6.74	
2	19.12	5.10	3.60	2.56	2.56	2.24	6.08	12.15	11.40	52.30	13.86	6.30	
3	18.60	4.90	4.00	2.80	2.48	2.00	5.20	8.52	10.20	46.63	14.03	6.63	
4	14.69	5.10	3.50	3.20	2.24	1.84	5.75	7.18	10.65	20.88	12.15	6.85	
5	13.53	5.20	3.30	2.80	2.00	1.84	6.74	8.10	9.22	15.18	11.40	8.80	
6	13.86	5.42	3.20	2.40	1.84	1.68	6.63	7.40	8.38	13.20	11.10	11.10	
7	13.20	6.85	3.04	2.40	1.92	1.60	5.10	5.86	7.68	12.00	10.95	7.96	
8	11.85	4.60	3.04	2.16	1.92	1.60	4.30	4.80	6.85	11.40	10.65	6.96	
9	11.25	4.10	3.12	2.00	1.55	1.51	4.90	4.60	10.95	10.80	10.35	7.07	
10	10.65	3.90	2.96	1.76	1.42	2.08	3.70	4.10	10.50	11.40	10.06	7.29	
11	10.20	4.20	3.04	1.60	1.47	14.03	4.10	4.50	13.37	12.60	9.78	6.19	
12	9.78	4.20	3.20	2.48	1.84	21.05	3.30	4.80	15.51	14.19	9.36	5.31	
13	9.50	4.10	3.40	3.40	1.84	12.45	3.20	4.80	13.05	15.84	9.64	5.20	
14	9.22	3.90	4.60	3.50	1.55	8.52	2.72	12.75	10.20	16.01	8.80	4.90	
15	8.66	3.70	3.70	5.75	1.68	6.19	2.72	13.86	10.06	42.57	7.96	4.60	
16	7.96	4.10	4.50	7.29	1.55	4.70	3.12	16.50	26.90	17.90	7.54	4.50	
17	7.54	4.20	3.40	3.90	1.68	3.90	2.72	10.65	33.62	15.51	7.07	4.40	
18	8.10	4.20	3.12	2.72	1.76	3.50	2.72	9.22	22.10	16.01	6.63	4.60	
19	8.80	4.10	2.96	2.24	1.55	3.40	2.40	6.96	18.42	15.35	7.82	4.50	
20	8.94	4.30	2.96	1.60	1.68	4.30	3.20	9.78	16.33	18.42	7.07	4.00	
21	7.68	4.90	2.88	1.37	2.88	5.10	2.96	12.30	14.35	13.53	6.74	4.40	
22	6.96	4.80	2.80	1.60	4.00	3.50	2.96	32.18	14.69	12.90	6.08	4.00	
23	6.52	3.60	2.64	2.00	3.60	3.12	2.88	39.36	13.05	11.40	5.86	3.40	
24	6.30	3.20	2.40	2.56	2.80	2.88	2.72	42.28	13.53	10.50	5.53	3.40	
25	5.86	3.20	2.24	2.88	2.40	2.80	3.60	43.73	17.02	9.78	5.20	3.30	
26	5.42	3.20	2.32	3.04	4.70	3.20	4.10	27.92	20.70	9.78	5.10	3.20	
27	5.20	3.30	2.40	3.20	5.20	5.10	5.75	22.10	17.02	10.06	4.60	5.64	
28	5.10	3.20	2.16	3.04	10.35	4.80	4.80	18.25	14.19	9.64	6.96	7.96	
29	5.00	3.30	2.08	3.30	9.92	6.08	7.82	15.84	12.75	8.94	10.06	4.60	
30	4.90	3.20	3.12	4.30	6.85	7.29	13.69	14.19	14.19	9.78		3.90	
31		3.20		3.60	3.50		13.53		13.53	14.69		4.00	
Total	293.17	130.37	92.88	89.85	93.53	144.94	149.38	439.53	443.16	527.53	267.65	171.70	

WATER YEAR : 2011**THALE SAP SONGKHLA****Khlong U - Taphao at Ban Bang Sala , Songkhla (X.90)**

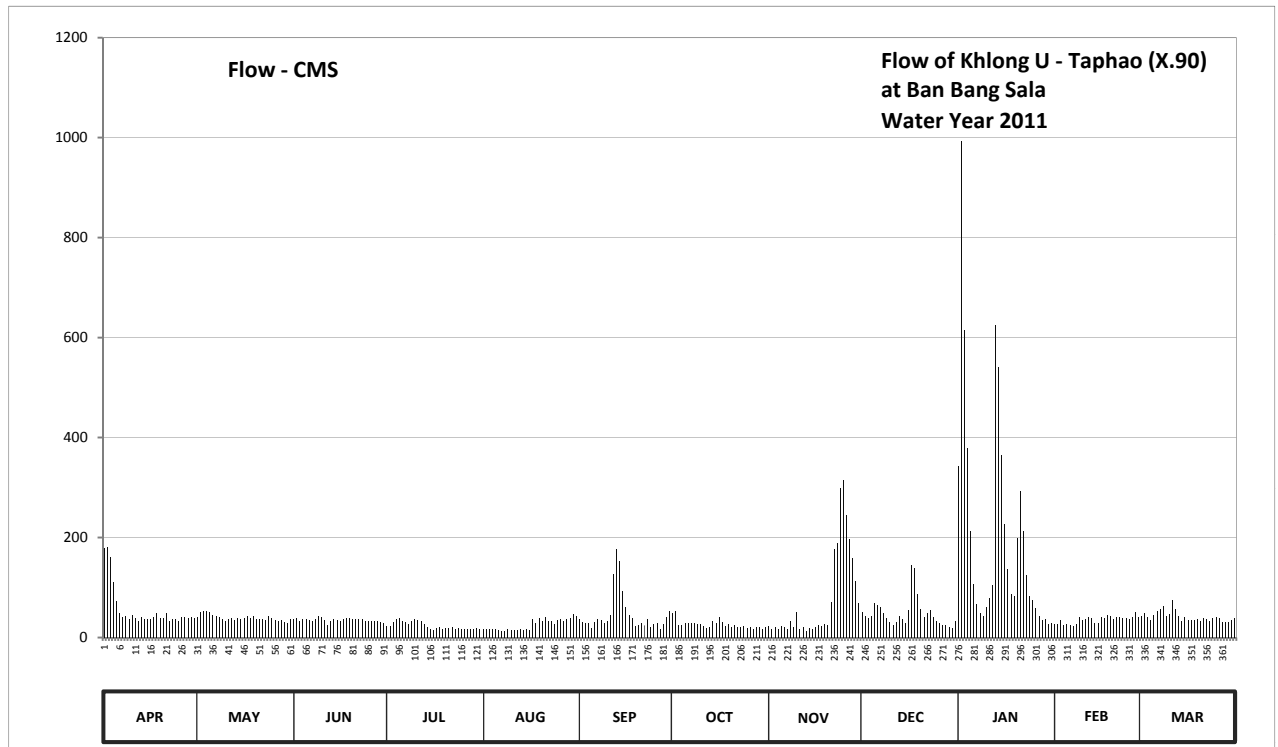
Lat 06 - 55 - 39 N Long 100 - 26 - 37 E

Location : on left bank at the bridge near Wat Bang Sala, Tambon Thung Lan.

	Ban	Bang Sala	Amphoe	Khlong Hoi Khong	Changwat	Songkhla
Drainage Area	1,547	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 20 meters from the top staff gage.				Elevation	+11.254 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1971 to date					
Rating Operation						
Period of Rating	1971 - 1972 , 1979 to date					
Rated by Flot	-					
Rated by Current Meter	1971 - 1972 , 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 39 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.34	3.18	3.05	2.74	2.57	3.08	3.37	2.72	3.38	6.96	2.83	3.22	
2	5.36	3.41	3.12	2.74	2.56	2.93	3.42	2.59	3.22	9.74	2.82	3.36	
3	5.11	3.43	2.96	2.91	2.53	2.87	2.80	2.68	3.12	8.50	3.04	3.16	
4	4.42	3.43	3.09	3.09	2.53	2.85	2.77	2.55	3.21	7.22	2.80	3.04	
5	3.82	3.41	3.06	3.11	2.55	2.64	2.88	2.70	3.73	5.73	2.83	3.25	
6	3.35	3.25	3.03	2.95	2.49	2.92	2.87	2.69	3.69	4.38	2.79	3.44	
7	3.19	3.22	2.96	2.92	2.42	3.07	2.87	2.60	3.61	3.71	2.74	3.50	
8	3.24	3.18	3.09	2.81	2.41	3.01	2.88	2.99	3.34	3.36	2.82	3.64	
9	3.07	3.05	3.21	2.98	2.56	2.86	2.82	2.69	3.12	3.21	3.17	3.22	
10	3.25	2.99	3.20	3.05	2.47	2.95	2.81	3.39	2.94	3.58	3.03	3.31	
11	3.11	3.09	3.02	3.04	2.50	3.26	2.72	2.59	2.76	3.92	3.09	3.85	
12	2.99	3.13	2.80	2.97	2.48	4.66	2.62	2.67	2.92	4.34	3.17	3.50	
13	3.18	3.01	2.97	2.84	2.53	5.32	2.65	2.46	3.23	8.54	3.10	3.21	
14	3.05	3.10	3.05	2.66	2.49	5.02	2.95	2.63	3.09	8.17	2.85	2.99	
15	3.05	3.08	3.03	2.58	2.57	4.17	2.85	2.59	2.86	7.13	2.88	3.15	
16	3.05	3.14	2.95	2.51	2.52	3.60	3.16	2.65	3.47	5.90	3.17	3.03	
17	3.15	3.22	3.06	2.62	3.06	3.28	2.90	2.77	4.91	4.80	3.10	3.02	
18	3.35	3.13	3.11	2.66	2.88	3.11	2.73	2.72	4.82	4.08	3.26	3.03	
19	3.10	3.22	3.11	2.57	3.12	2.73	2.82	2.84	4.08	4.00	3.24	3.09	
20	3.11	3.05	3.05	2.61	2.99	2.77	2.66	2.76	3.53	5.58	3.07	3.00	
21	3.33	3.07	3.06	2.61	3.19	2.89	2.76	3.77	3.19	6.55	3.18	3.12	
22	3.00	3.08	3.07	2.67	2.96	2.76	2.69	5.31	3.33	5.74	3.20	3.08	
23	3.05	3.02	3.06	2.56	2.99	3.06	2.69	5.45	3.46	4.63	3.13	2.96	
24	3.09	3.21	3.00	2.62	2.83	2.68	2.70	6.60	3.19	4.01	3.10	3.10	
25	3.00	3.12	2.95	2.60	3.03	2.84	2.63	6.74	2.96	3.86	3.07	3.15	
26	3.17	3.04	2.98	2.59	3.07	2.85	2.67	6.08	2.87	3.57	3.20	3.10	
27	3.20	2.97	2.99	2.60	3.00	2.58	2.59	5.55	2.79	3.24	3.38	2.94	
28	3.13	3.03	2.96	2.54	3.06	2.82	2.65	5.09	2.76	3.04	3.18	2.93	
29	3.19	2.92	2.90	2.54	3.14	3.18	2.68	4.46	2.65	3.05	3.06	2.94	
30	3.10	2.89	2.86	2.61	3.29	3.44	2.59	3.75	2.64	2.83		3.04	
31		3.05		2.58	3.24		2.67		2.97	2.86		3.12	
Mean	3.42	3.13	3.03	2.74	2.78	3.21	2.80	3.57	3.29	5.04	3.04	3.18	
Max	5.36	3.43	3.21	3.11	3.29	5.32	3.42	6.74	4.91	9.74	3.38	3.85	9.74
Min	2.99	2.89	2.80	2.51	2.41	2.58	2.59	2.46	2.64	2.83	2.74	2.93	2.41
Annual Max Momentary Gage Height	10.00		m. (MSL.) ,		at 02.00 Hours , on Jan 2 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed		-0.80		m. (MSL)				
Left Bank Elevation	11.28		m. (MSL.) ,										
Right Bank Elevation	11.28		m. (MSL.) ,		Drainage Area		1547		Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	178.90	41.20	36.00	23.60	17.10	37.20	49.65	22.80	50.10	342.00	27.20	42.90		
2	180.60	51.50	38.80	23.60	16.80	31.20	52.00	17.70	42.90	992.40	26.80	49.20		
3	160.25	52.50	32.40	30.40	15.90	28.80	26.00	21.20	38.80	614.50	35.60	40.40		
4	110.40	52.50	37.60	37.60	15.90	28.00	24.80	16.50	42.45	378.00	26.00	35.60		
5	73.10	51.50	36.40	38.40	16.50	19.60	29.20	22.00	68.15	212.05	27.20	44.25		
6	48.75	44.25	35.20	32.00	14.70	30.80	28.80	21.60	65.95	107.60	25.60	53.00		
7	41.60	42.90	32.40	30.80	12.60	36.80	28.80	18.00	61.55	67.05	23.60	56.00		
8	43.80	41.20	37.60	26.40	12.30	34.40	29.20	33.60	48.30	49.20	26.80	63.20		
9	36.80	36.00	42.45	33.20	16.80	28.40	26.80	21.60	38.80	42.45	40.80	42.90		
10	44.25	33.60	42.00	36.00	14.10	32.00	26.40	50.55	31.60	60.00	35.20	46.95		
11	38.40	37.60	34.80	35.60	15.00	44.70	22.80	17.70	24.40	78.60	37.60	74.75		
12	33.60	39.20	26.00	32.80	14.40	127.20	18.80	20.80	30.80	104.80	40.80	56.00		
13	41.20	34.40	32.80	27.60	15.90	177.20	20.00	13.80	43.35	623.90	38.00	42.45		
14	36.00	38.00	36.00	20.40	14.70	153.50	32.00	19.20	37.60	541.00	28.00	33.60		
15	36.00	37.20	35.20	17.40	17.10	93.20	28.00	17.70	28.40	365.20	29.20	40.00		
16	36.00	39.60	32.00	15.30	15.60	61.00	40.40	20.00	54.50	227.50	40.80	35.20		
17	40.00	42.90	36.40	18.80	36.40	45.60	30.00	24.80	145.25	137.00	38.00	34.80		
18	48.75	39.20	38.40	20.40	29.20	38.40	23.20	22.80	138.50	87.80	44.70	35.20		
19	38.00	42.90	38.40	17.10	38.80	23.20	26.80	27.60	87.80	83.00	43.80	37.60		
20	38.40	36.00	36.00	18.40	33.60	24.80	20.40	24.40	57.50	199.30	36.80	34.00		
21	47.85	36.80	36.40	18.40	41.60	29.60	24.40	70.35	41.60	292.50	41.20	38.80		
22	34.00	37.20	36.80	20.80	32.40	24.40	21.60	176.35	47.85	212.90	42.00	37.20		
23	36.00	34.80	36.40	16.80	33.60	36.40	21.60	188.25	54.00	125.10	39.20	32.40		
24	37.60	42.45	34.00	18.80	27.20	21.20	22.00	298.00	41.60	83.60	38.00	38.00		
25	34.00	38.80	32.00	18.00	35.20	27.60	19.20	314.80	32.40	75.30	36.80	40.00		
26	40.80	35.60	33.20	17.70	36.80	28.00	20.80	244.20	28.80	59.50	42.00	38.00		
27	42.00	32.80	33.60	18.00	34.00	17.40	17.70	196.75	25.60	43.80	50.10	31.60		
28	39.20	35.20	32.40	16.20	36.40	26.80	20.00	158.75	24.40	35.60	41.20	31.20		
29	41.60	30.80	30.00	16.20	39.60	41.20	21.20	113.20	20.00	36.00	36.40	31.60		
30	38.00	29.60	28.40	18.40	46.05	53.00	17.70	69.25	19.60	27.20		35.60		
31		36.00		17.40	43.80		20.80		32.80	28.40		38.80		
Total	1695.85	1224.20	1050.05	732.50	790.05	1401.60	811.05	2284.25	1505.35	6333.25	1039.40	1291.20	20158.75	CMSDAY
Mean	56.53	39.49	35.00	23.63	25.49	46.72	26.16	76.14	48.56	204.30	35.84	41.65	55.08	CMS
Max	180.60	52.50	42.45	38.40	46.05	177.20	52.00	314.80	145.25	992.40	50.10	74.75	992.40	CMS
Min	33.60	29.60	26.00	15.30	12.30	17.40	17.70	13.80	19.60	27.20	23.60	31.20	12.30	CMS
Runoff	146.52	105.77	90.72	63.29	68.26	121.10	70.08	197.36	130.06	547.19	89.80	111.56	1741.72	MCM
Momentary Peak	1090.00 CMS. at 10.00 m. (MSL.) at 02.00 Hours , on Jan 2 , 2011													
Runoff Yield	35.60	Liters/Second/Square KM.		Momentary Peak Yield		704.590	Liters/Second/Square KM.							

WATER YEAR : 2011**THALE SAP SONGKHLA****Khlong Sadao at Ban Takian Pao , Songkhla (X.112)**

Lat 06 - 42 - 11 N Long 100 - 26 - 10 E

Location : on right bank at Ban Takian Pao.

	Ban	Takian Pao	Amphoe	Sadao	Changwat	Songkhla
Drainage Area	493	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the top staff gage.				Elevation	+24.840 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1979 - 1996 , 2006 to date					
Rating Operation						
Period of Rating	1979 - 1996 , 2006 to date					
Rated by Flot	-					
Rated by Current Meter	1979 - 1996 , 2006 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +26.130 m.(MSL.), records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 37 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.72	22.04	21.14	21.50	21.38	21.43	23.08	21.14	21.63	26.16	22.05	21.10	
2	24.44	23.76	21.30	21.80	21.35	21.10	23.01	20.99	21.47	25.60	21.64	20.89	
3	24.09	23.78	21.45	21.83	21.35	21.00	23.18	20.95	21.39	24.91	21.90	20.91	
4	23.70	23.60	21.36	22.54	21.33	20.94	23.00	20.91	22.63	24.50	22.53	20.92	
5	23.00	23.61	21.25	22.03	21.33	20.93	23.00	21.27	23.88	24.08	21.72	21.03	
6	22.74	23.55	21.19	21.64	21.32	20.87	22.99	21.16	24.24	23.25	21.39	23.45	
7	22.56	23.39	21.11	21.55	21.30	20.83	22.89	21.42	23.70	22.30	21.26	23.46	
8	22.56	22.52	21.70	21.51	21.28	21.18	22.64	22.46	22.40	21.78	21.18	23.31	
9	22.32	21.87	21.45	21.56	21.27	21.57	22.87	22.46	21.64	21.65	21.12	23.55	
10	21.81	21.70	21.38	21.47	21.26	21.11	22.68	21.48	21.48	21.64	21.09	24.24	
11	21.69	21.63	21.45	21.44	21.25	22.54	22.36	21.34	21.34	22.07	21.06	23.44	
12	21.62	21.70	21.24	21.42	21.27	25.09	22.15	21.39	21.28	22.86	21.04	22.21	
13	21.54	21.81	21.60	21.43	21.26	24.93	21.96	21.22	21.24	24.50	21.02	21.63	
14	21.48	21.61	21.44	21.42	21.25	24.43	21.78	20.99	21.19	24.42	21.00	21.53	
15	21.40	21.46	21.18	21.41	21.47	23.91	21.66	20.91	21.12	24.26	20.95	21.25	
16	21.37	21.66	21.14	21.38	21.38	23.26	21.60	20.90	21.64	23.78	20.92	21.14	
17	21.74	22.34	21.13	21.37	21.30	22.82	21.57	20.94	21.89	23.20	20.90	21.05	
18	21.50	21.93	21.13	21.36	21.56	22.58	21.56	20.89	21.67	22.66	20.95	21.00	
19	22.11	22.16	21.14	21.34	21.55	22.50	21.77	20.80	21.42	22.78	21.08	21.02	
20	22.73	22.72	21.15	21.35	21.29	22.57	21.68	21.86	21.37	24.39	20.96	20.96	
21	21.66	22.00	21.08	21.35	20.81	22.76	21.71	23.08	21.26	23.94	20.91	21.08	
22	21.52	21.52	21.04	21.33	20.80	22.68	22.46	23.46	21.34	24.13	20.85	21.31	
23	21.72	21.40	21.04	21.36	20.77	22.47	22.08	23.40	21.32	24.69	20.82	21.16	
24	21.36	22.04	21.20	21.35	21.02	21.93	21.63	24.38	21.13	24.03	20.81	21.04	
25	21.69	21.87	21.19	21.36	21.27	21.35	21.74	24.82	21.10	23.20	21.88	21.36	
26	21.36	21.56	21.48	21.42	21.42	22.33	21.60	24.40	21.00	22.20	21.32	21.12	
27	21.42	21.44	21.45	21.39	21.48	24.04	21.79	23.87	20.95	21.80	20.94	21.04	
28	21.60	21.33	21.46	21.39	21.15	24.24	21.68	23.26	20.85	21.64	20.96	21.68	
29	21.29	21.26	21.46	21.60	21.75	24.08	21.05	22.42	20.84	21.52	21.44	21.32	
30	21.19	21.21	21.45	21.47	22.58	23.86	21.00	21.86	20.87	21.47		21.15	
31		21.18		21.42	22.73		21.12		20.92	21.47		21.25	
Mean	22.13	22.12	21.29	21.51	21.37	22.51	22.11	22.01	21.62	23.25	21.23	21.66	
Max	24.72	23.78	21.70	22.54	22.73	25.09	23.18	24.82	24.24	26.16	22.53	24.24	26.16
Min	21.19	21.18	21.04	21.33	20.77	20.83	21.00	20.80	20.84	21.47	20.81	20.89	20.77
Annual Max Momentary Gage Height	26.20		m. (MSL.) ,			at 12.00 Hours , on Jan 1 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	19.69	m. (MSL)					
Left Bank Elevation		26.18		m. (MSL.) ,									
Right Bank Elevation		26.12		m. (MSL.) ,		Drainage Area	493	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.40	7.44	3.36	4.80	4.32	4.52	14.64	3.36	5.32	138.20	7.50	3.20	
2	31.50	21.08	4.00	6.00	4.20	3.20	14.08	2.76	4.68	86.50	5.36	2.36	
3	25.17	21.29	4.60	6.18	4.20	2.80	15.44	2.60	4.36	46.68	6.60	2.44	
4	20.45	19.40	4.24	10.58	4.12	2.56	14.00	2.44	11.22	33.00	10.51	2.48	
5	14.00	19.51	3.80	7.38	4.12	2.52	14.00	3.88	22.50	25.04	5.68	2.92	
6	12.05	18.92	3.56	5.36	4.08	2.28	13.92	3.44	27.38	16.07	4.36	17.98	
7	10.72	17.40	3.24	5.00	4.00	2.12	13.17	4.48	20.45	9.00	3.84	18.07	
8	10.72	10.44	5.60	4.84	3.92	3.52	11.30	10.02	9.60	5.92	3.52	16.64	
9	9.12	6.42	4.60	5.04	3.88	5.08	13.03	10.02	5.36	5.40	3.28	18.92	
10	6.06	5.60	4.32	4.68	3.84	3.24	11.60	4.72	4.72	5.36	3.16	27.38	
11	5.56	5.32	4.60	4.56	3.80	10.58	9.36	4.16	4.16	7.62	3.04	17.88	
12	5.28	5.60	3.76	4.48	3.88	55.45	8.10	4.36	3.92	12.95	2.96	8.46	
13	4.96	6.06	5.20	4.52	3.84	47.53	6.96	3.68	3.76	33.00	2.88	5.32	
14	4.72	5.24	4.56	4.48	3.80	31.25	5.92	2.76	3.56	31.00	2.80	4.92	
15	4.40	4.64	3.52	4.44	4.68	22.88	5.44	2.44	3.28	27.77	2.60	3.80	
16	4.28	5.44	3.36	4.32	4.32	16.17	5.20	2.40	5.36	21.29	2.48	3.36	
17	5.76	9.24	3.32	4.28	4.00	12.65	5.08	2.56	6.54	15.60	2.40	3.00	
18	4.80	6.78	3.32	4.24	5.04	10.86	5.04	2.36	5.48	11.45	2.60	2.80	
19	7.86	8.16	3.36	4.16	5.00	10.30	5.88	2.00	4.48	12.35	3.12	2.88	
20	11.97	11.90	3.40	4.20	3.96	10.79	5.52	6.36	4.28	30.30	2.64	2.64	
21	5.44	7.20	3.12	4.20	2.04	12.20	5.64	14.64	3.84	23.25	2.44	3.12	
22	4.88	4.88	2.96	4.12	2.00	11.60	10.02	18.07	4.16	25.69	2.20	4.04	
23	5.68	4.40	2.96	4.24	1.93	10.09	7.68	17.50	4.08	38.43	2.08	3.44	
24	4.24	7.44	3.60	4.20	2.88	6.78	5.32	30.11	3.32	24.39	2.04	2.96	
25	5.56	6.42	3.56	4.24	3.88	4.20	5.76	42.85	3.20	15.60	6.48	4.24	
26	4.24	5.04	4.72	4.48	4.48	9.18	5.20	30.50	2.80	8.40	4.08	3.28	
27	4.48	4.56	4.60	4.36	4.72	24.52	5.96	22.38	2.60	6.00	2.56	2.96	
28	5.20	4.12	4.64	4.36	3.40	27.38	5.52	16.17	2.20	5.36	2.64	5.52	
29	3.96	3.84	4.64	5.20	5.80	25.04	3.00	9.74	2.16	4.88	4.56	4.08	
30	3.56	3.64	4.60	4.68	10.86	22.25	2.80	6.36	2.28	4.68		3.40	
31		3.52		4.48	11.97		3.28		2.48	4.68		3.80	
Total	286.02	270.94	119.12	152.10	136.96	413.54	257.86	289.12	193.53	735.86	110.41	208.29	31

WATER YEAR : 2011

THALE SAP SONGKHLA

Khlong La Pang at Ban Thung Prap , Songkhla (X.113)

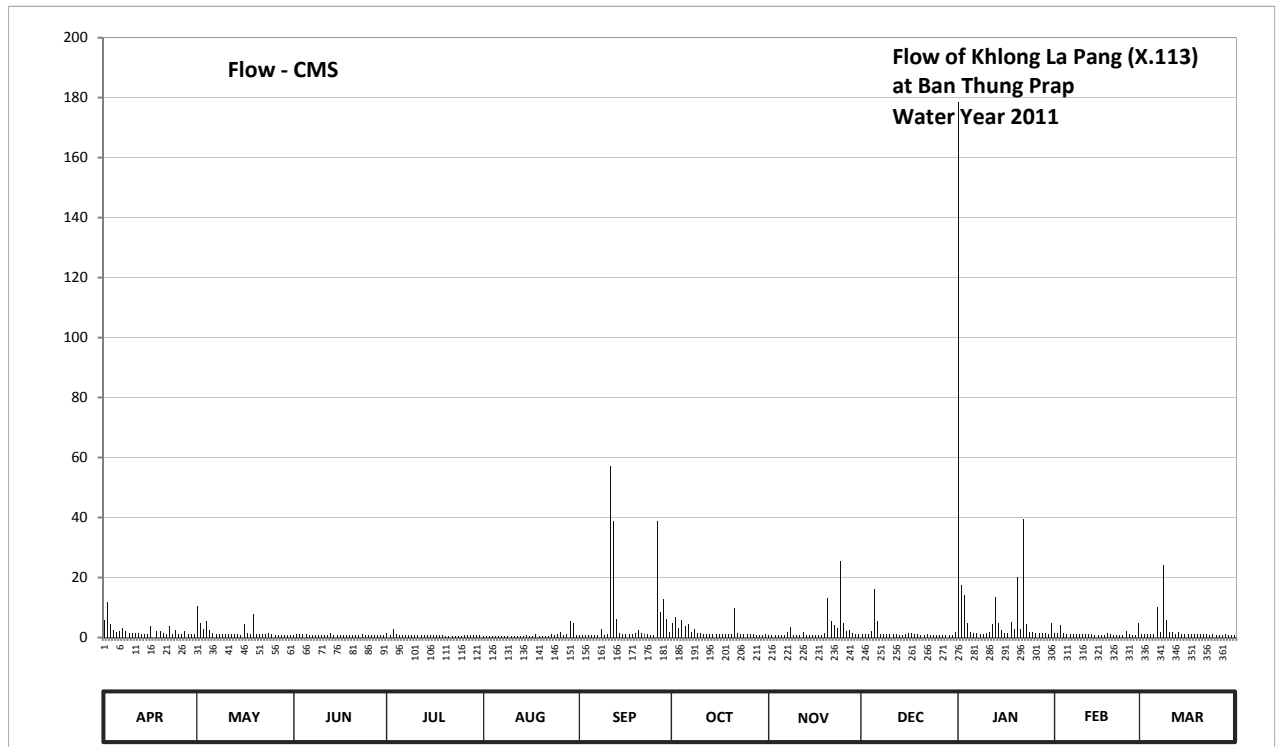
Lat 06 - 37 - 59 N Long 100 - 23 - 46 E

Location : on right bank at Ban Thung Prap.

	Ban Thung Prap	Amphoe Sadao	Changwat Songkhla
Drainage Area	118	sq.km.	
Type of Gage	Staff gage		
Zero Gage at Bottom	+0.000	m. (MSL.)	
Bench Mark	B.M.-H.D.		
Location BM	About 15 meters from the gage observer's house.		Elevation +37.552 m. (MSL.)
Gage Reading Frequency	13-time daily readings at 06.00 - 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 13 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1979 to date		
Rated by Flot	-		
Rated by Current Meter	1979 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 35 discharge measurements made in 2011.		

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	33.66	34.20	32.07	32.35	31.92	32.02	33.37	32.06	32.14	36.83	32.39	32.16	
2	34.29	33.39	32.14	32.05	31.91	31.98	33.78	32.03	32.12	34.59	32.25	32.10	
3	33.31	32.81	32.20	32.82	31.91	31.97	32.93	32.03	32.15	34.43	33.21	32.18	
4	32.73	33.60	32.10	32.17	31.91	31.96	33.63	32.01	32.62	33.36	32.28	32.09	
5	32.55	32.74	32.14	32.02	31.90	31.95	33.15	32.04	34.53	32.48	32.20	32.23	
6	32.68	32.33	32.04	31.98	31.89	31.93	33.35	32.07	33.55	32.34	32.17	34.14	
7	32.89	32.21	32.02	31.97	31.89	31.96	32.44	32.46	32.24	32.28	32.15	32.52	
8	32.67	32.16	32.03	31.97	31.89	32.82	32.88	33.00	32.17	32.24	32.13	34.83	
9	32.40	32.13	32.03	31.97	31.88	31.99	32.43	32.08	32.19	32.23	32.13	33.64	
10	32.33	32.12	32.05	31.96	31.88	32.14	32.29	32.07	32.13	32.29	32.12	32.59	
11	32.30	32.24	32.03	31.95	31.88	35.50	32.22	32.06	32.12	32.45	32.10	32.48	
12	32.25	32.22	32.03	31.93	31.88	35.15	32.21	32.49	32.09	33.29	32.09	32.24	
13	32.22	32.22	32.34	31.93	31.88	33.67	32.18	32.04	32.07	34.40	32.09	32.45	
14	32.20	32.11	32.03	31.94	31.87	32.42	32.15	32.01	32.06	33.41	32.07	32.19	
15	32.15	32.08	32.02	31.94	31.93	32.24	32.12	32.02	32.10	32.71	32.07	32.15	
16	33.12	33.34	32.04	31.93	31.88	32.15	32.11	32.01	32.31	32.39	32.07	32.12	
17	30.03	32.38	32.05	31.93	31.88	32.21	32.10	32.01	32.25	32.32	32.06	32.10	
18	32.61	32.23	32.04	31.93	32.14	32.17	32.10	32.00	32.10	33.54	32.43	32.09	
19	32.66	33.89	32.04	31.93	31.92	32.40	32.13	32.43	32.11	32.82	32.09	32.09	
20	32.33	32.24	32.02	31.92	31.90	32.72	32.09	34.36	32.06	34.69	32.07	32.18	
21	32.17	32.15	32.00	31.91	31.90	32.42	34.13	33.58	32.06	32.88	32.06	32.10	
22	33.09	32.11	31.99	31.91	31.89	32.28	32.26	33.22	32.12	35.17	32.05	32.22	
23	32.17	32.16	32.14	31.91	32.12	32.13	32.13	32.97	32.05	33.27	32.04	32.08	
24	32.75	32.42	32.02	31.91	32.08	32.07	32.10	34.86	32.03	32.57	32.65	32.09	
25	32.18	32.12	32.01	31.91	32.16	32.04	32.11	33.43	32.02	32.44	32.13	32.06	
26	32.11	32.08	32.00	31.96	32.54	35.15	32.09	32.62	32.01	32.36	32.07	32.05	
27	32.65	32.08	32.01	31.93	32.04	34.00	32.13	32.70	32.00	32.31	32.05	32.06	
28	32.15	32.07	31.99	31.97	32.14	34.35	32.06	32.34	31.99	32.27	33.39	32.10	
29	32.10	32.05	31.99	32.00	33.56	33.70	32.04	32.24	31.98	32.25	32.48	32.07	
30	32.17	32.04	31.98	31.93	33.44	32.51	32.05	32.19	32.01	32.24		32.04	
31		32.03		31.93	32.07		32.18		32.46	33.44		32.02	
Mean	32.50	32.45	32.05	32.00	32.07	32.73	32.48	32.51	32.25	33.11	32.24	32.37	
Max	34.29	34.20	32.34	32.82	33.56	35.50	34.13	34.86	34.53	36.83	33.39	34.83	36.83
Min	30.03	32.03	31.98	31.91	31.87	31.93	32.04	32.00	31.98	32.23	32.04	32.02	30.03
Annual Max Momentary Gage Height	37.26		m. (MSL.) ,		at 11.00 Hours , on Jan 1 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	31.35	m. (MSL)						
Left Bank Elevation	37.89		m. (MSL.) ,										
Right Bank Elevation	37.89		m. (MSL.) ,		Drainage Area	118	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.95	10.60	0.94	1.50	0.64	0.84	4.69	0.92	1.08	178.35	1.58	1.12	
2	11.95	4.76	1.08	0.90	0.62	0.76	6.85	0.86	1.04	17.40	1.30	1.00	
3	4.49	2.74	1.20	2.77	0.62	0.74	3.16	0.86	1.10	14.20	4.13	1.16	
4	2.46	5.50	1.00	1.14	0.62	0.72	5.73	0.82	2.07	4.66	1.36	0.98	
5	1.90	2.49	1.08	0.84	0.60	0.70	3.93	0.88	16.20	1.76	1.20	1.26	
6	2.28	1.46	0.88	0.76	0.58	0.66	4.62	0.94	5.33	1.48	1.14	10.00	
7	3.01	1.22	0.84	0.74	0.58	0.72	1.68	1.72	1.28	1.36	1.10	1.84	
8	2.24	1.12	0.86	0.74	0.58	2.77	2.98	3.40	1.14	1.28	1.06	24.29	
9	1.60	1.06	0.86	0.74	0.56	0.78	1.66	0.96	1.18	1.26	1.06	5.80	
10	1.46	1.04	0.90	0.72	0.56	1.08	1.38	0.94	1.06	1.38	1.04	1.98	
11	1.40	1.28	0.86	0.70	0.56	57.00	1.24	0.92	1.04	1.70	1.00	1.76	
12	1.30	1.24	0.86	0.66	0.56	38.65	1.22	1.78	0.98	4.41	0.98	1.28	
13	1.24	1.24	1.48	0.66	0.56	6.02	1.16	0.88	0.94	13.60	0.98	1.70	
14	1.20	1.02	0.86	0.68	0.54	1.64	1.10	0.82	0.92	4.83	0.94	1.18	
15	1.10	0.96	0.84	0.68	0.66	1.28	1.04	0.84	1.00	2.39	0.94	1.10	
16	3.82	4.59	0.88	0.66	0.56	1.10	1.02	0.82	1.42	1.58	0.94	1.04	
17	0.00	1.56	0.90	0.66	0.56	1.22	1.00	0.82	1.30	1.44	0.92	1.00	
18	2.04	1.26	0.88	0.66	1.08	1.14	1.00	0.80	1.00	5.29	1.66	0.98	
19	2.21	7.72	0.88	0.66	0.64	1.60	1.06	1.66	1.02	2.77	0.98	0.98	
20	1.46	1.28	0.84	0.64	0.60	2.42	0.98	13.00	0.92	20.03	0.94	1.16	
21	1.14	1.10	0.80	0.62	0.60	1.64	9.90	5.43	0.92	2.98	0.92	1.00	
22	3.71	1.02	0.78	0.62	0.58	1.36	1.32	4.17	1.04	39.59	0.90	1.24	
23	1.14	1.12	1.08	0.62	1.04	1.06	1.06	3.30	0.90	4.34	0.88	0.96	
24	2.53	1.64	0.84	0.62	0.96	0.94	1.00	25.58	0.86	1.94	2.18	0.98	
25	1.16	1.04	0.82	0.62	1.12	0.88	1.02	4.90	0.84	1.68	1.06	0.92	
26	1.02	0.96	0.80	0.72	1.88	38.65	0.98	2.07	0.82	1.52	0.94	0.90	
27	2.18	0.96	0.82	0.66	0.88	8.60	1.06	2.35	0.80	1.42	0.90	0.92	
28	1.10	0.94	0.78	0.74	1.08	12.85	0.92	1.48	0.78	1.34	4.76	1.00	
29	1.00	0.90	0.78	0.80	5.36	6.25	0.88	1.28	0.76	1.30	1.76	0.94	
30	1.14	0.88	0.76	0.66	4.94	1.82	0.90	1.18	0.82	1.28		0.88	
31		0.86		0.66	0.94		1.16		1.72	4.94		0.84	
Total	69.23	65.56	27.18	24.85	31.66	195.89	67.70	86.38	52.28	343.50	39.55	72.19	1075.97 CMSDAY
Mean	2.31	2.11	0.91	0.80	1.02	6.53	2.18	2.88	1.69	11.08	1.36	2.33	2.94 CMS
Max	11.95	10.60	1.48	2.77	5.36	57.00	9.90	25.58	16.20	178.35	4.76	24.29	178.35 CMS
Min	0.00	0.86	0.76	0.62	0.54	0.66	0.88	0.80	0.76	1.26	0.88	0.84	0.00 CMS
Runoff	5.98	5.66	2.35	2.15	2.74	16.93	5.85	7.46	4.52	29.68	3.42	6.24	92.96 MCM
Momentary Peak	247.70	CMS. at 37.26 m. (MSL.) at 11.00 Hours , on Jan 1, 2011											
Runoff Yield	24.82	Liters/Second/Square KM.				Momentary Peak Yield	2091.178	Liters/Second/Square KM.					

WATER YEAR : 2011**THALE SAP SONGKHLA****Khlong Lam at Ban Khlong Lam , Phatthalung (X.170)**

Lat 07 - 33 - 22 N Long 99 - 59 - 31 E

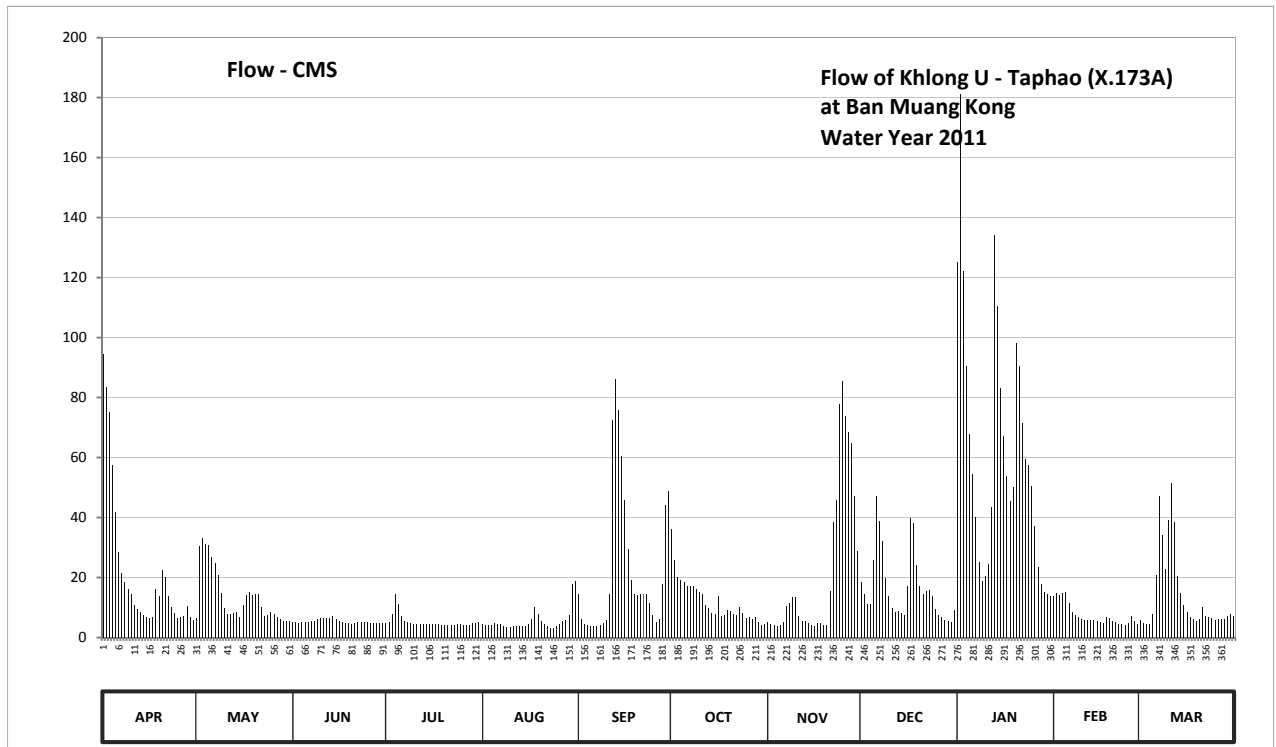
Location : on left bank at the bridge.

	Ban	Khlong Lam	Amphoe	Srinagarindra	Changwat	Phatthalung
Drainage Area	258	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 21 meters from the top staff gage.				Elevation	+27.274 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1987 to date					
Rating Operation						
Period of Rating	1989 to date					
Rated by Flot	-					
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 32 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.66	20.47	20.37	20.36	20.34	20.39	20.51	21.31	20.96	22.43	21.59	20.42	
2	21.55	20.46	20.41	20.34	20.33	20.37	20.51	20.85	20.73	23.14	20.97	20.40	
3	21.50	20.45	20.43	20.35	20.35	20.35	20.53	20.68	20.80	22.74	20.82	20.40	
4	21.25	20.51	20.40	20.38	20.33	20.39	20.50	20.62	20.81	21.72	20.81	20.40	
5	21.11	20.46	20.38	20.35	20.33	20.36	20.52	20.68	20.74	21.27	20.82	20.70	
6	21.01	20.46	20.37	20.34	20.33	20.33	20.51	20.62	20.69	21.07	20.71	20.69	
7	20.99	20.47	20.36	20.34	20.32	20.33	20.47	20.54	20.66	20.95	20.64	20.46	
8	20.92	20.44	20.37	20.33	20.32	20.33	20.44	20.50	20.63	20.89	20.60	20.46	
9	20.83	20.43	20.36	20.33	20.31	20.33	20.47	20.48	20.75	20.82	20.57	20.45	
10	20.77	20.43	20.36	20.33	20.30	20.33	20.42	20.47	20.63	21.06	20.54	20.47	
11	20.74	20.43	20.43	20.32	20.30	21.42	20.44	20.51	20.93	20.94	20.53	20.44	
12	20.70	20.43	20.37	20.36	20.35	21.68	20.41	20.51	21.02	21.20	20.52	20.42	
13	20.67	20.43	20.42	20.38	20.33	20.76	20.40	20.48	20.94	21.21	20.51	20.40	
14	20.63	20.42	20.42	20.35	20.31	20.57	20.39	21.18	20.75	21.66	20.50	20.39	
15	20.62	20.41	20.38	20.37	20.31	20.50	20.37	21.12	20.74	23.16	20.48	20.37	
16	20.61	20.45	20.42	20.42	20.30	20.46	20.37	21.06	22.15	21.45	20.47	20.36	
17	20.58	20.45	20.38	20.36	20.32	20.43	20.37	20.76	22.49	21.29	20.45	20.36	
18	20.57	20.42	20.37	20.35	20.32	20.43	20.36	20.67	21.85	21.08	20.45	20.36	
19	20.63	20.42	20.37	20.33	20.31	20.43	20.36	20.61	21.44	21.14	20.54	20.36	
20	20.62	20.43	20.37	20.33	20.35	20.50	20.38	20.72	21.32	21.44	20.45	20.36	
21	20.56	20.49	20.37	20.33	20.46	20.44	20.37	21.48	21.05	21.06	20.44	20.36	
22	20.53	20.43	20.36	20.33	20.40	20.47	20.38	22.37	21.13	21.00	20.44	20.35	
23	20.51	20.40	20.36	20.33	20.40	20.42	20.36	22.77	20.95	20.85	20.43	20.35	
24	20.51	20.40	20.35	20.41	20.35	20.40	20.39	23.14	21.01	20.77	20.43	20.35	
25	20.49	20.39	20.35	20.36	20.33	20.38	20.39	23.26	21.31	20.71	20.42	20.34	
26	20.49	20.39	20.35	20.37	20.46	20.47	20.60	22.20	21.50	20.67	20.41	20.34	
27	20.49	20.40	20.28	20.36	20.48	20.53	20.53	21.80	21.26	20.64	20.40	20.50	
28	20.48	20.38	20.34	20.35	20.55	20.45	20.68	21.42	21.04	20.60	20.51	20.43	
29	20.48	20.38	20.35	20.39	20.62	20.54	20.68	21.21	20.91	20.59	20.65	20.36	
30	20.49	20.37	20.36	20.36	20.51	20.55	21.22	21.07	21.04	20.70		20.35	
31		20.37		20.34	20.42		21.24		21.12	21.33		20.35	
Mean	20.77	20.43	20.37	20.35	20.37	20.51	20.50	21.17	21.08	21.28	20.59	20.41	
Max	21.66	20.51	20.43	20.42	20.62	21.68	21.24	23.26	22.49	23.16	21.59	20.70	23.26
Min	20.48	20.37	20.28	20.32	20.30	20.33	20.36	20.47	20.63	20.59	20.40	20.34	20.28
Annual Max Momentary Gage Height	24.56		m. (MSL.) ,			at 04.00 Hours , on Jan 15 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	18.58	m. (MSL)					
Left Bank Elevation	28.85		m. (MSL.) ,										
Right Bank Elevation	29.06		m. (MSL.) ,			Drainage Area	258	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	62.04	6.75	4.25	4.00	3.50	4.75	7.75	41.61	25.20	119.70	57.60	5.50	
2	55.20	6.50	5.25	3.50	3.25	4.25	7.75	20.25	15.20	187.00	25.65	5.00	
3	52.20	6.25	5.75	3.75	3.75	3.75	8.25	13.20	18.00	147.60	18.90	5.00	
4	38.55	7.75	5.00	4.50	3.25	4.75	7.50	10.80	18.45	65.88	18.45	5.00	
5	31.95	6.50	4.50	3.75	3.25	4.00	8.00	13.20	15.60	39.57	18.90	14.00	
6	27.45	6.50	4.25	3.50	3.25	3.25	7.75	10.80	13.60	30.15	14.40	13.60	
7	26.55	6.75	4.00	3.50	3.00	3.25	6.75	8.50	12.40	24.75	11.60	6.50	
8	23.40	6.00	4.25	3.25	3.00	3.25	6.00	7.50	11.20	22.05	10.00	6.50	
9	19.35	5.75	4.00	3.25	2.75	3.25	6.75	7.00	16.00	18.90	9.25	6.25	
10	16.80	5.75	4.00	3.25	2.50	3.25	5.50	6.75	11.20	29.70	8.50	6.75	
11	15.60	5.75	5.75	3.00	2.50	47.40	6.00	7.75	23.85	24.30	8.25	6.00	
12	14.00	5.75	4.25	4.00	3.75	63.32	5.25	7.75	27.90	36.00	8.00	5.50	
13	12.80	5.75	5.50	4.50	3.25	16.40	5.00	7.00	24.30	36.51	7.75	5.00	
14	11.20	5.50	5.50	3.75	2.75	9.25	4.75	35.10	16.00	62.04	7.50	4.75	
15	10.80	5.25	4.50	4.25	2.75	7.50	4.25	32.40	15.60	189.00	7.00	4.25	
16	10.40	6.25	5.50	5.50	2.50	6.50	4.25	29.70	97.20	49.20	6.75	4.00	
17	9.50	6.25	4.50	4.00	3.00	5.75	4.25	16.40	125.10	40.59	6.25	4.00	
18	9.25	5.50	4.25	3.75	3.00	5.75	4.00	12.80	74.70	30.60	6.25	4.00	
19	11.20	5.50	4.25	3.25	2.75	5.75	4.00	10.40	48.60	33.30	8.50	4.00	
20	10.80	5.75	4.25	3.25	3.75	7.50	4.50	14.80	42.12	48.60	6.25	4.00	
21	9.00	7.25	4.25	3.25	6.50	6.00	4.25	51.00	29.25	29.70	6.00	4.00	
22	8.25	5.75	4.00	3.25	5.00	6.75	4.50	114.60	32.85	27.00	6.00	3.75	
23	7.75	5.00	4.00	3.25	5.00	5.50	4.00	150.30	24.75	20.25	5.75	3.75	
24	7.75	5.00	3.75	5.25	3.75	5.00	4.75	187.00	27.45	16.80	5.75	3.75	
25	7.25	4.75	3.75	4.00	3.25	4.50	4.75	199.30	41.61	14.40	5.50	3.50	
26	7.25	4.75	3.75	4.25	6.50	6.75	10.00	101.00	52.20	12.80	5.25	3.50	
27	7.25	5.00	2.00	4.00	7.00	8.25	8.25	71.00	39.06	11.60	5.00	7.50	
28	7.00	4.50	3.50	3.75	8.75	6.25	13.20	47.40	28.80	10.00	7.75	5.75	
29	7.00	4.50	3.75	4.75	10.80	8.50	13.20	36.51	22.95	9.75	12.00	4.00	
30	7.25	4.25	4.00	4.00	7.75	8.75	37.02	30.15	28.80	14.00		3.75	
31		4.25		3.50	5.50		38.04		32.40	42.63		3.75	
Total	544.79	176.75	130.25	118.75	131.30	279.12	260.21	1301.97	101				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	94.35	6.56	5.25	4.75	4.40	14.35	36.00	5.05	18.50	125.00	13.75	5.75	
2	83.55	30.48	5.00	5.00	4.30	6.00	25.93	4.60	14.60	181.25	14.75	4.85	
3	75.00	33.00	4.95	7.88	4.15	4.50	20.00	4.10	11.10	122.00	14.25	4.40	
4	57.30	31.20	5.25	14.60	4.25	4.00	19.20	3.90	11.20	90.30	14.85	4.45	
5	41.75	30.65	5.00	11.20	4.70	3.75	18.40	4.15	25.75	67.80	15.10	7.88	
6	28.55	26.80	5.00	7.28	4.50	3.75	17.30	5.20	47.25	54.30	11.40	20.90	
7	21.63	24.87	5.30	5.60	4.35	3.85	17.00	10.60	39.00	40.00	8.46	47.25	
8	18.60	20.80	5.60	5.25	3.90	4.05	17.10	11.40	32.00	25.05	7.36	34.20	
9	16.00	14.80	6.16	4.95	3.60	4.80	16.20	13.55	19.90	18.90	6.72	22.75	
10	14.40	9.80	6.40	4.50	3.50	5.75	15.25	13.60	13.80	20.40	6.24	39.25	
11	10.80	7.88	6.40	4.55	3.70	14.55	14.35	7.04	9.70	24.53	5.90	51.50	
12	9.50	7.79	6.56	4.50	3.90	72.60	11.00	5.50	8.46	43.50	5.90	38.60	
13	8.46	8.08	6.40	4.50	3.95	86.25	9.80	5.35	8.84	133.95	5.75	20.60	
14	7.60	8.46	7.12	4.50	3.90	75.90	8.17	4.70	8.26	110.50	5.70	14.65	
15	6.96	6.72	6.24	4.45	3.85	60.35	7.70	4.15	7.44	83.10	5.40	10.70	
16	6.40	11.00	5.40	4.35	4.55	46.00	13.75	3.90	17.20	67.00	5.15	8.46	
17	6.72	14.20	5.00	4.35	6.16	29.42	7.20	4.70	39.75	53.75	4.95	6.96	
18	16.30	15.20	4.85	4.35	10.30	19.10	7.52	4.75	38.20	45.50	6.64	6.08	
19	13.80	14.15	4.75	4.30	7.79	14.55	9.12	4.00	24.00	50.00	6.40	5.60	
20	22.50	14.35	4.65	4.10	5.50	14.25	8.93	4.00	17.10	97.95	5.55	6.08	
21	20.30	14.60	4.80	4.05	4.45	14.40	7.79	15.50	14.40	90.30	5.00	10.00	
22	13.70	10.00	5.10	4.05	3.70	14.45	7.44	38.60	15.35	71.40	4.65	7.28	
23	10.10	7.04	5.20	4.25	3.05	14.40	10.20	46.00	15.80	59.40	4.45	6.80	
24	8.08	7.52	5.25	4.40	3.15	11.50	7.98	77.70	13.75	57.30	4.20	6.40	
25	6.48	8.36	5.10	4.35	3.70	7.60	6.56	85.35	9.31	50.50	4.70	5.95	
26	6.80	7.79	4.80	4.25	4.50	5.00	6.64	73.80	7.60	37.20	7.04	6.00	
27	7.04	6.96	4.75	4.25	5.50	6.00	6.08	68.60	6.64	23.50	5.35	6.24	
28	10.60	6.24	4.70	4.25	5.70	17.80	6.80	64.90	5.85	17.70	4.50	6.16	
29	6.96	5.60	4.70	4.70	7.36	44.00	5.20	47.25	5.45	15.30	4.85	7.28	
30	5.75	5.45	4.75	4.80	17.70	48.75	4.15	28.72	5.15	14.35		7.88	
31		5.30		5.15	18.90		4.45		9.12	13.95		7.20	
Total	655.98	421.65	160.43	163.46	172.96	671.67	373.21	670.66	520.47	1905.68	214.96	438.10	6369.23 CMSDAY
Mean	21.87	13.60	5.35	5.27	5.58	22.39	12.04	22.36	16.79	61.47	7.41	14.13	17.40 CMS
Max	94.35	33.00	7.12	14.60	18.90	86.25	36.00	85.35	47.25	181.25	15.10	51.50	181.25 CMS
Min	5.75	5.30	4.65	4.05	3.05	3.75	4.15	3.90	5.15	13.95	4.20	4.40	3.05 CMS
Runoff	56.68	36.43	13.86	14.12	14.94	58.03	32.25	57.95	44.97	164.65	18.57	37.85	550.30 MCM
Momentary Peak	243.00	CMS. at 17.03 m. (MSL.) at 20.00 Hours , on Jan 1, 2011											
Runoff Yield	16.36	Liters/Second/Square KM.				Momentary Peak Yield	228.405	Liters/Second/Square KM.					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.20	3.20	4.40	3.40	1.80	4.00	3.60	17.80	15.40	192.95	10.80	5.00	
2	9.75	2.80	4.80	3.20	1.80	4.00	3.40	14.30	13.95	205.30	10.80	4.80	
3	9.05	2.60	4.80	3.40	1.60	3.60	3.20	12.90	12.55	75.40	10.45	5.00	
4	7.80	5.20	4.60	4.40	1.60	3.60	3.20	10.45	15.80	31.10	9.75	6.00	
5	7.20	9.75	5.20	3.80	1.60	3.60	3.40	11.15	27.95	25.25	9.05	8.35	
6	6.00	7.60	4.40	3.20	1.60	3.40	3.40	18.60	17.00	21.00	8.70	17.80	
7	5.40	6.20	4.60	3.00	1.60	3.20	3.60	19.40	14.30	19.00	8.00	11.50	
8	5.00	5.60	5.20	3.00	1.60	3.20	4.00	17.40	12.90	18.20	7.80	8.70	
9	5.00	4.20	5.20	2.80	1.60	3.00	4.00	12.90	11.15	18.60	7.80	8.00	
10	4.40	4.00	7.20	2.40	1.40	2.80	4.00	10.10	11.85	23.45	7.60	7.60	
11	4.00	4.20	7.60	2.40	1.40	12.55	4.80	9.05	12.90	22.60	7.40	7.20	
12	3.80	4.20	6.80	2.20	1.60	18.20	4.40	8.70	17.80	40.00	7.20	7.80	
13	3.60	4.00	6.20	2.00	1.60	12.20	4.40	7.80	39.00	80.80	7.00	7.20	
14	3.40	4.00	5.80	2.20	1.60	8.00	3.60	7.80	27.05	58.40	7.00	6.80	
15	3.20	4.80	5.40	1.80	6.80	6.60	3.00	8.70	22.60	32.50	6.80	6.60	
16	3.20	6.80	5.20	1.80	5.80	6.20	4.20	8.70	37.00	36.50	6.80	6.20	
17	3.00	7.40	4.80	1.60	3.40	5.80	3.80	7.80	48.05	30.65	6.60	6.00	
18	5.00	7.00	4.80	1.60	1.60	5.60	5.00	6.80	33.00	24.35	6.40	5.80	
19	8.00	6.00	4.60	1.60	2.60	5.40	6.40	7.00	25.70	22.20	6.40	5.60	
20	7.00	5.40	4.20	1.40	4.20	5.20	6.00	7.40	21.00	24.35	6.20	6.00	
21	5.80	5.60	4.00	1.40	6.60	4.40	5.80	54.20	21.00	21.40	6.20	6.80	
22	5.20	5.60	3.80	1.60	5.60	4.20	5.40	83.60	22.60	19.00	6.00	7.20	
23	4.80	7.40	3.40	2.80	4.40	4.00	4.60	66.95	19.80	17.40	5.80	6.60	
24	4.40	10.10	3.00	2.60	4.00	3.80	4.80	81.50	20.20	15.80	6.00	6.20	
25	4.00	7.80	2.80	2.20	4.00	3.60	4.80	48.60	17.40	14.65	4.60	6.00	
26	3.60	6.40	2.60	2.00	3.60	3.60	5.20	34.50	14.65	13.95	4.20	5.80	
27	3.20	5.80	2.60	1.80	4.00	4.00	6.80	30.65	12.90	12.90	5.00	5.60	
28	3.00	5.40	2.60	1.80	5.00	3.60	7.00	26.60	12.55	12.55	5.20	5.40	
29	2.80	5.00	2.60	1.80	5.00	4.00	6.20	21.80	11.50	11.85	5.20	5.40	
30	3.60	4.60	4.00	1.60	5.00	4.00	9.05	18.20	11.15	11.50		5.20	
31		4.40		1.60	5.00		16.20		14.30	10.80		5.20	
Total	151.40	173.05	137.20	72.40	99.00	159.35	157.25	691.35	615.00	1164.40	206.75	213.35	

WATER YEAR : 2011**THALE SAP SONGKHLA****Upper Khlong Wat at Ban Hu Rae , Songkhla (X.240)**

Lat 06 - 59 - 03 N Long 100 - 19 - 44 E

Location : on right bank at the bridge.

	Ban	Hu Rae	Amphoe	Hat Yai	Changwat	Songkhla
Drainage Area	127	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the top staff gage.				Elevation	+25.224 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.75	18.19	18.07	18.01	18.01	17.84	17.67	19.25	18.79	23.13	18.59	17.82	
2	20.33	18.57	18.15	18.01	18.00	17.72	17.66	18.80	18.66	21.93	18.50	17.82	
3	19.31	18.27	18.13	18.05	18.00	17.66	17.64	18.31	18.53	22.25	18.48	17.85	
4	18.73	18.25	18.10	18.03	18.03	17.63	17.63	18.22	18.49	20.12	18.43	18.06	
5	18.55	18.41	18.09	18.01	17.74	17.62	17.65	18.42	19.34	19.51	18.38	18.23	
6	18.54	18.26	18.09	18.01	17.42	17.59	17.65	18.55	18.69	19.19	18.34	18.06	
7	18.44	18.21	18.07	18.00	17.45	17.57	17.64	18.94	18.51	18.99	18.30	17.90	
8	18.36	18.18	18.09	18.00	17.45	17.60	17.62	18.17	18.39	18.84	18.27	17.87	
9	18.33	18.16	18.13	18.00	17.44	17.56	17.64	18.00	18.32	19.55	18.24	17.99	
10	18.30	18.15	18.08	17.99	17.44	17.55	17.62	17.89	18.30	21.26	18.20	18.01	
11	18.27	18.16	18.29	18.01	17.43	18.21	17.60	18.02	19.81	21.76	18.19	17.97	
12	18.26	18.14	18.15	18.01	17.44	20.49	17.60	18.01	19.33	21.05	18.16	18.00	
13	18.24	18.16	18.15	18.01	17.51	18.98	17.57	18.22	21.02	23.03	18.15	17.96	
14	18.23	18.12	18.16	18.00	17.46	18.34	17.60	17.97	19.74	21.61	18.13	17.92	
15	18.21	18.11	18.11	17.99	17.55	18.11	17.57	17.97	19.35	21.07	18.12	17.91	
16	18.28	18.17	18.09	18.01	17.63	18.00	17.82	18.18	21.68	20.04	18.13	17.84	
17	18.20	18.13	18.07	18.01	18.70	17.90	17.64	18.10	22.64	19.77	18.07	17.77	
18	18.27	18.20	18.15	18.00	17.85	17.84	17.61	18.32	20.99	19.51	18.04	17.75	
19	18.38	18.27	18.10	17.99	17.63	17.82	17.64	18.12	20.81	21.22	18.18	17.73	
20	18.54	18.17	18.07	17.99	17.61	17.83	17.72	18.00	19.74	22.34	18.07	17.72	
21	18.29	18.29	18.06	17.99	17.79	17.80	17.80	21.02	19.48	20.44	18.03	17.84	
22	18.23	18.16	18.05	17.99	17.61	17.76	17.94	21.80	21.18	20.03	17.98	17.75	
23	18.21	18.15	18.05	18.01	17.89	17.73	17.71	21.99	19.83	19.45	17.93	17.71	
24	18.19	18.13	18.04	18.00	17.60	17.72	17.65	22.89	19.49	19.19	17.89	17.69	
25	18.17	18.11	18.06	18.02	17.56	17.69	17.74	23.29	19.19	19.01	17.88	17.69	
26	18.16	18.11	18.04	18.03	17.80	17.70	17.67	21.12	19.00	18.85	17.88	17.68	
27	18.15	18.09	18.02	18.02	18.05	17.70	17.72	20.47	18.79	18.76	17.90	17.68	
28	18.15	18.08	18.01	18.01	18.20	17.71	17.66	19.97	18.69	18.67	17.90	17.70	
29	18.14	18.07	18.01	18.10	18.25	17.81	17.64	19.51	18.62	18.58	17.89	17.68	
30	18.18	18.12	18.00	18.10	18.17	17.71	17.81	19.04	18.70	18.55		17.66	
31		18.07		18.02	17.96		20.02		19.44	18.61		17.66	
Mean	18.41	18.18	18.09	18.01	17.76	17.91	17.75	19.22	19.47	20.20	18.15	17.84	
Max	20.33	18.57	18.29	18.10	18.70	20.49	20.02	23.29	22.64	23.13	18.59	18.23	23.29
Min	18.14	18.07	18.00	17.99	17.42	17.55	17.57	17.89	18.30	18.55	17.88	17.66	17.42
Annual Max Momentary Gage Height	23.90		m. (MSL.) ,		at 12.00 Hours , on Jan 1 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	17.18		m. (MSL)					
Left Bank Elevation	25.11		m. (MSL.) ,										
Right Bank Elevation	25.10		m. (MSL.) ,		Drainage Area	127		Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.25	2.45	1.85	1.55	1.55	2.80	1.95	10.90	8.14	96.48	6.94	2.70		
2	16.30	4.35	2.25	1.55	1.50	2.20	1.90	8.20	7.36	40.58	6.40	2.70		
3	8.71	2.85	2.15	1.75	1.50	1.90	1.80	5.26	6.58	51.75	6.28	2.85		
4	5.15	2.75	2.00	1.65	1.65	1.75	1.75	4.72	6.34	16.90	5.98	3.90		
5	4.25	3.55	1.95	1.55	0.20	1.70	1.85	5.92	11.44	12.52	5.68	4.78		
6	4.20	2.80	1.95	1.55	0.00	1.56	1.85	6.70	7.54	10.54	5.44	3.90		
7	3.70	2.55	1.85	1.50	1.00	1.48	1.80	9.04	6.46	9.34	5.20	3.10		
8	3.30	2.40	1.95	1.50	1.00	1.60	1.70	4.45	5.74	8.44	5.02	2.95		
9	3.15	2.30	2.15	1.50	0.96	1.44	1.80	3.60	5.32	12.77	4.84	3.55		
10	3.00	2.25	1.90	1.45	0.96	1.40	1.70	3.05	5.20	28.38	4.60	3.65		
11	2.85	2.30	2.95	1.55	0.92	4.66	1.60	3.70	14.58	36.24	4.55	3.45		
12	2.80	2.20	2.25	1.55	0.96	20.10	1.60	3.65	11.38	25.80	4.40	3.60		
13	2.70	2.30	2.25	1.55	1.24	9.28	1.48	4.72	25.44	90.04	4.35	3.40		
14	2.65	2.10	2.30	1.50	1.04	5.44	1.60	3.45	14.08	33.39	4.25	3.20		
15	2.55	2.05	2.05	1.45	1.40	4.15	1.48	3.45	11.50	26.04	4.20	3.15		
16	2.90	2.35	1.95	1.55	1.75	3.60	2.70	4.50	34.72	16.30	4.25	2.80		
17	2.50	2.15	1.85	1.55	7.60	3.10	1.80	4.10	68.84	14.29	3.95	2.45		
18	2.85	2.50	2.25	1.50	2.85	2.80	1.65	5.32	25.10	12.52	3.80	2.35		
19	3.40	2.85	2.00	1.45	1.75	2.70	1.80	4.20	23.30	27.86	4.50	2.25		
20	4.20	2.35	1.85	1.45	1.65	2.75	2.20	3.60	14.08	54.90	3.95	2.20		
21	2.95	2.95	1.80	1.45	2.55	2.60	2.60	25.44	12.32	19.60	3.75	2.80		
22	2.65	2.30	1.75	1.45	1.65	2.40	3.30	37.00	27.36	16.23	3.50	2.35		
23	2.55	2.25	1.75	1.55	3.05	2.25	2.15	42.22	14.73	12.13	3.25	2.15		
24	2.45	2.15	1.70	1.50	1.60	2.20	1.85	81.99	12.38	10.54	3.05	2.05		
25	2.35	2.05	1.80	1.60	1.44	2.05	2.30	107.53	10.54	9.46	3.00	2.05		
26	2.30	2.05	1.70	1.65	2.60	2.10	1.95	26.64	9.40	8.50	3.00	2.00		
27	2.25	1.95	1.60	1.60	3.85	2.10	2.20	19.90	8.14	7.96	3.10	2.00		
28	2.25	1.90	1.55	1.55	4.60	2.15	1.90	15.77	7.54	7.42	3.10	2.10		
29	2.20	1.85	1.55	2.00	4.90	2.65	1.80	12.52	7.12	6.88	3.05	2.00		
30	2.40	2.10	1.50	2.00	4.45	2.15	2.65	9.64	7.60	6.70		1.90		
31		1.85		1.60	3.40		16.15		12.06	7.06		1.90		
Total	110.76	74.80	58.40	48.60	65.57	99.06	74.86	481.18	442.33	737.56	127.38	86.23	2406.73	CMSDAY
Mean	3.69	2.41												

WATER YEAR : 2011

THALE SAP SONGKHLA

Khlong Pa Bon at Ban Lo Han , Phatthalung (X.266)

Lat 07 - 01 - 35 N Long 100 - 05 - 51 E

Location : on left bank at Ban Lo Han.

	Ban	Lo Han	Amphoe	Pa Bon	Changwat	Phatthalung
Drainage Area	38	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+7.165 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2011.					

Gage Height in Meter (A.D.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.92	0.08	0.30	0.26	0.15	0.30	1.08	0.80	0.79	0.70	0.12	
2	0.54	0.44	0.08	0.30	0.28	0.14	0.30	0.70	0.80	1.58	0.70	0.12	
3	0.42	0.40	0.08	0.30	0.28	0.14	0.30	0.70	0.80	1.50	0.68	0.10	
4	0.40	0.40	0.08	0.30	0.30	0.14	0.30	0.70	0.80	1.10	0.68	0.10	
5	0.32	0.32	0.08	0.30	0.30	0.14	0.30	0.70	0.80	1.10	0.60	0.20	
6	0.30	0.30	0.08	0.30	0.30	0.14	0.30	0.70	0.80	1.00	0.60	0.29	
7	0.30	0.30	0.08	0.30	0.30	0.14	0.30	0.70	0.70	0.70	0.60	0.60	
8	0.30	0.28	0.08	0.30	0.30	0.14	0.30	0.62	0.70	0.50	0.50	0.66	
9	0.40	0.18	0.08	0.27	0.26	0.14	0.30	0.53	0.80	0.50	0.10	0.68	
10	0.30	0.10	0.08	0.26	0.26	0.16	0.30	0.50	0.80	1.08	0.10	0.70	
11	0.30	0.11	0.08	0.26	0.26	0.32	0.30	0.42	0.80	1.20	0.10	0.80	
12	0.22	0.18	0.08	0.26	0.26	0.37	0.48	0.28	0.80	1.26	0.08	0.70	
13	0.14	0.18	0.13	0.26	0.26	0.30	0.59	0.10	0.99	2.28	0.08	0.60	
14	0.14	0.10	0.13	0.18	0.26	0.30	0.54	0.11	0.25	1.60	0.08	0.50	
15	0.14	0.08	0.10	0.18	0.12	0.30	0.50	0.12	0.82	1.48	0.08	0.30	
16	0.14	0.08	0.10	0.18	0.11	0.30	0.50	0.12	1.21	1.20	0.08	0.10	
17	0.14	0.08	0.10	0.18	0.10	0.30	0.48	0.12	1.62	1.40	0.08	0.10	
18	0.14	0.08	0.18	0.18	0.10	0.30	0.44	0.12	2.24	1.30	0.08	0.10	
19	0.17	0.08	0.30	0.18	0.10	0.30	0.40	0.12	1.69	1.10	0.08	0.10	
20	0.28	0.08	0.30	0.18	0.10	0.30	0.40	0.12	1.51	1.10	0.08	0.10	
21	0.20	0.08	0.30	0.18	0.10	0.30	0.40	0.27	1.40	1.10	0.08	0.10	
22	0.20	0.26	0.30	0.18	0.10	0.30	0.40	0.26	1.40	1.10	0.08	0.10	
23	0.20	0.21	0.30	0.18	0.10	0.30	0.40	0.25	1.40	0.90	0.08	0.10	
24	0.16	0.08	0.30	0.18	0.10	0.30	0.56	0.49	1.46	0.90	0.08	0.10	
25	0.10	0.08	0.30	0.18	0.10	0.30	0.56	0.33	1.39	0.90	0.08	0.10	
26	0.10	0.08	0.27	0.18	0.10	0.30	0.62	0.33	1.36	0.90	0.08	0.10	
27	0.10	0.10	0.32	0.23	0.10	0.30	0.69	0.36	1.30	0.90	0.11	0.12	
28	0.08	0.10	0.26	0.20	0.13	0.35	0.10	0.50	1.30	0.90	0.12	0.12	
29	0.08	0.10	0.29	0.20	0.15	0.35	0.10	0.68	1.34	0.73	0.12	0.14	
30	0.10	0.10	0.30	0.20	0.20	0.35	0.23	0.70	1.29	0.60		0.13	
31		0.10		0.20	0.20		0.77		0.60	0.60		0.12	
Mean	0.24	0.19	0.17	0.23	0.19	0.26	0.40	0.42	1.10	1.07	0.24	0.26	
Max	0.70	0.92	0.32	0.30	0.30	0.37	0.77	1.08	2.24	2.28	0.70	0.80	2.28
Min	0.08	0.08	0.08	0.18	0.10	0.14	0.10	0.10	0.25	0.50	0.08	0.10	0.08
Annual Max Momentary Gage Height	2.54		m. (A.D.) , at 06.00 Hours , on Jan 13 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (A.D.) , River Bed -0.05 m. (A.D.)										
Left Bank Elevation	7.11		m. (A.D.) ,										
Right Bank Elevation	7.01		m. (A.D.) , Drainage Area 38 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.45	3.80	0.12	0.65	0.51	0.23	0.65	4.92	3.00	2.95	2.45	0.18		
2	1.63	1.18	0.12	0.65	0.58	0.21	0.65	2.45	3.00	9.25	2.45	0.18		
3	1.09	1.00	0.12	0.65	0.58	0.21	0.65	2.45	3.00	8.47	2.34	0.15		
4	1.00	1.00	0.12	0.65	0.65	0.21	0.65	2.45	3.00	5.07	2.34	0.15		
5	0.72	0.72	0.12	0.65	0.65	0.21	0.65	2.45	3.00	5.07	1.90	0.30		
6	0.65	0.65	0.12	0.65	0.65	0.21	0.65	2.45	3.00	4.34	1.90	0.62		
7	0.65	0.65	0.12	0.65	0.65	0.21	0.65	2.45	2.45	2.45	1.90	1.90		
8	0.65	0.58	0.12	0.65	0.65	0.21	0.65	2.01	2.45	1.45	1.45	2.23		
9	1.00	0.27	0.12	0.55	0.51	0.21	0.65	1.58	3.00	1.45	0.15	2.34		
10	0.65	0.15	0.12	0.51	0.51	0.24	0.65	1.45	3.00	4.92	0.15	2.45		
11	0.65	0.17	0.12	0.51	0.51	0.72	0.65	1.09	3.00	5.80	0.15	3.00		
12	0.37	0.27	0.12	0.51	0.51	0.90	1.36	0.58	3.00	6.31	0.12	2.45		
13	0.21	0.27	0.19	0.51	0.51	0.65	1.85	0.15	4.27	19.46	0.12	1.90		
14	0.21	0.15	0.19	0.27	0.51	0.65	1.63	0.17	0.48	9.44	0.12	1.45		
15	0.21	0.12	0.15	0.27	0.18	0.65	1.45	0.18	3.13	8.28	0.12	0.65		
16	0.21	0.12	0.15	0.27	0.17	0.65	1.45	0.18	5.89	5.80	0.12	0.15		
17	0.21	0.12	0.15	0.27	0.15	0.65	1.36	0.18	9.67	7.50	0.12	0.15		
18	0.21	0.12	0.27	0.27	0.15	0.65	1.18	0.18	18.68	6.65	0.12	0.15		
19	0.26	0.12	0.65	0.27	0.15	0.65	1.00	0.18	10.48	5.07	0.12	0.15		
20	0.58	0.12	0.65	0.27	0.15	0.65	1.00	0.18	8.57	5.07	0.12	0.15		
21	0.30	0.12	0.65	0.27	0.15	0.65	1.00	0.55	7.50	5.07	0.12	0.15		
22	0.30	0.51	0.65	0.27	0.15	0.65	1.00	0.51	7.50	5.07	0.12	0.15		
23	0.30	0.33	0.65	0.27	0.15	0.65	1.00	0.48	7.50	3.67	0.12	0.15		
24	0.24	0.12	0.65	0.27	0.15	0.65	1.72	1.40	8.08	3.67	0.12	0.15		
25	0.15	0.12	0.65	0.27	0.15	0.65	1.72	0.76	7.42	3.67	0.12	0.15		
26	0.15	0.12	0.55	0.27	0.15	0.65	2.01	0.76	7.16	3.67	0.12	0.15		
27	0.15	0.15	0.72	0.41	0.15	0.65	2.40	0.86	6.65	3.67	0.17	0.18		
28	0.12	0.15	0.51	0.30	0.19	0.83	0.15	1.45	6.65	3.67	0.18	0.18		
29	0.12	0.15	0.62	0.30	0.23	0.83	0.15	2.34	6.99	2.62	0.18	0.21		
30	0.15	0.15	0.65	0.30	0.30	0.83	0.41	2.45	6.56	1.90		0.19		
31		0.15		0.30	0.30		2.83		1.90	1.90		0.18		
Total	15.59	13.65	10.14	12.91	11.00	16.01	33.82	39.29	169.98	163.38	19.51	22.54	527.82	CMSDAY
Mean	0.52	0.44	0.34	0.42	0.35	0.53	1.09	1.31						

WATER YEAR : 2011**THALE SAP SONGKHLA****Khlong Tamot at Ban Mae Khree , Phatthalung (X.267)**

Lat 07 - 20 - 18 N Long 100 - 06 - 36 E

Location : on left bank at Ban Mae Khree.

	Ban	Mae Khree	Amphoe	Tamot	Changwat	Phatthalung
Drainage Area	295	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+27.868 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.00	22.60	22.20	21.80	21.70	21.50	21.80	23.43	22.85	25.21	22.86	22.10	
2	23.30	22.60	22.20	21.80	21.70	21.50	21.80	22.82	22.70	25.43	22.73	22.10	
3	23.00	22.50	22.20	22.28	21.62	21.50	21.80	22.50	22.60	24.65	22.73	22.10	
4	22.80	22.70	22.20	22.10	21.50	21.50	21.80	22.40	22.60	24.50	22.60	22.10	
5	22.70	22.60	22.20	22.10	21.50	21.80	21.80	22.30	22.60	23.96	22.50	22.30	
6	22.50	22.40	22.20	22.04	21.50	21.80	21.80	22.30	22.60	23.18	22.50	22.40	
7	22.74	22.40	22.20	21.90	21.50	21.80	21.80	22.30	22.60	23.38	22.38	22.35	
8	22.70	22.40	22.20	21.90	21.50	21.80	21.70	22.30	22.60	23.80	22.36	22.23	
9	22.54	22.20	22.00	21.82	21.50	21.80	21.70	22.30	22.74	23.80	22.35	22.55	
10	22.40	22.20	22.00	21.80	21.42	21.80	21.70	22.30	23.06	23.00	22.35	22.30	
11	22.31	22.18	22.00	21.80	21.40	22.50	21.70	22.30	24.11	23.46	22.35	22.25	
12	22.35	22.17	22.00	21.79	21.40	23.93	21.96	22.25	24.50	23.98	22.35	22.20	
13	22.20	22.17	22.00	21.79	21.40	24.13	21.90	22.25	25.67	24.88	22.35	22.20	
14	22.00	22.15	22.04	21.78	21.48	23.30	21.90	22.66	24.67	24.92	22.30	22.20	
15	22.00	22.15	21.92	21.70	21.80	22.80	21.90	22.80	23.61	24.30	22.30	22.15	
16	21.80	22.15	21.90	21.70	21.75	22.80	21.90	22.60	24.44	23.55	22.25	22.10	
17	21.60	22.14	21.90	21.70	21.85	22.80	21.90	22.55	24.95	23.36	22.20	22.10	
18	21.67	22.14	21.90	21.70	21.90	22.80	21.90	22.47	24.52	23.72	22.20	22.10	
19	22.38	22.14	21.90	21.60	21.90	22.80	21.85	22.48	24.21	24.27	22.20	22.10	
20	22.72	22.13	21.90	21.60	21.90	22.70	21.80	22.48	23.72	24.24	22.20	22.10	
21	22.40	22.13	21.90	21.60	21.90	22.60	21.80	23.28	23.50	23.75	22.20	22.10	
22	22.40	22.12	21.90	21.60	21.85	22.50	21.90	25.30	23.40	23.44	22.20	22.10	
23	22.35	22.12	21.90	21.70	21.85	22.40	21.90	25.68	23.26	23.24	22.20	22.10	
24	22.28	22.11	21.90	21.70	21.81	22.30	22.00	25.48	23.44	23.03	22.20	22.15	
25	22.20	22.11	21.90	21.75	21.80	22.10	22.00	25.08	23.69	22.80	22.15	22.15	
26	22.20	22.10	21.90	21.75	21.80	22.05	22.32	25.00	23.46	22.71	22.15	22.17	
27	22.12	22.08	21.84	21.74	21.87	22.05	22.28	24.61	23.15	22.60	22.12	22.11	
28	22.20	22.08	21.80	21.74	21.94	22.01	22.30	24.00	23.00	22.60	22.15	22.16	
29	22.20	22.08	21.80	21.74	22.15	22.00	22.30	24.00	22.93	22.60	22.18	22.16	
30	22.20	22.08	21.80	21.74	22.10	22.00	22.71	23.86	23.15	22.81		22.15	
31		22.08		21.74	21.63		23.46		23.57	22.78		22.14	
Mean	22.41	22.23	21.99	21.79	21.71	22.31	21.98	23.20	23.48	23.68	22.33	22.18	
Max	24.00	22.70	22.20	22.28	22.15	24.13	23.46	25.68	25.67	25.43	22.86	22.55	25.68
Min	21.60	22.08	21.80	21.60	21.40	21.50	21.70	22.25	22.60	22.60	22.12	22.10	21.40
Annual Max Momentary Gage Height	26.14		m. (MSL.) ,		at 14.00 Hours , on Dec 13 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	21.04	m. (MSL)						
Left Bank Elevation		27.88		m. (MSL.) ,									
Right Bank Elevation		27.92		m. (MSL.) ,		Drainage Area	295	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.20	9.30	3.70	0.50	0.25	0.00	0.50	24.65	13.38	75.45	13.55	2.70	
2	21.85	9.30	3.70	0.50	0.25	0.00	0.50	12.85	10.90	85.65	11.38	2.70	
3	16.00	7.90	3.70	4.82	0.05	0.00	0.50	7.90	9.30	56.20	11.38	2.70	
4	12.50	10.90	3.70	2.70	0.00	0.00	0.50	6.50	9.30	51.85	9.30	2.70	
5	10.90	9.30	3.70	2.70	0.00	0.50	0.50	5.10	9.30	37.16	7.90	5.10	
6	7.90	6.50	3.70	2.10	0.00	0.50	0.50	5.10	9.30	19.33	7.90	6.50	
7	11.54	6.50	3.70	1.10	0.00	0.50	0.50	5.10	9.30	23.57	6.22	5.80	
8	10.90	6.50	3.70	1.10	0.00	0.50	0.25	5.10	9.30	33.00	5.94	4.12	
9	8.46	3.70	1.70	0.62	0.00	0.50	0.25	5.10	11.54	33.00	5.80	8.60	
10	6.50	3.70	1.70	0.50	0.00	0.50	0.25	5.10	17.11	16.00	5.80	5.10	
11	5.24	3.50	1.70	0.50	0.00	7.90	0.25	5.10	41.12	25.29	5.80	4.40	
12	5.80	3.40	1.70	0.48	0.00	36.38	1.46	4.40	51.85	37.68	5.80	3.70	
13	3.70	3.40	1.70	0.48	0.00	41.64	1.10	4.40	100.08	63.22	5.80	3.70	
14	1.70	3.20	2.10	0.45	0.00	21.85	1.10	10.26	56.80	64.48	5.10	3.70	
15	1.70	3.20	1.22	0.25	0.50	12.50	1.10	12.50	28.54	46.25	5.10	3.20	
16	0.50	3.20	1.10	0.25	0.38	12.50	1.10	9.30	50.14	27.22	4.40	2.70	
17	0.00	3.10	1.10	0.25	0.80	12.50	1.10	8.60	65.43	23.14	3.70	2.70	
18	0.18	3.10	1.10	0.25	1.10	12.50	1.10	7.48	52.42	31.12	3.70	2.70	
19	6.22	3.10	1.10	0.00	1.10	12.50	0.80	7.62	43.77	45.43	3.70	2.70	
20	11.22	3.00	1.10	0.00	1.10	10.90	0.50	7.62	31.12	44.60	3.70	2.70	
21	6.50	3.00	1.10	0.00	1.10	9.30	0.50	21.42	26.15	31.83	3.70	2.70	
22	6.50	2.90	1.10	0.00	0.80	7.90	1.10	79.50	24.00	24.86	3.70	2.70	
23	5.80	2.90	1.10	0.25	0.80	6.50	1.10	100.80	20.99	20.56	3.70	2.70	
24	4.82	2.80	1.10	0.25	0.56	5.10	1.70	88.40	24.86	16.56	3.70	3.20	
25	3.70	2.80	1.10	0.38	0.50	2.70	1.70	70.20	30.42	12.50	3.20	3.20	
26	3.70	2.70	1.10	0.38	0.50	2.20	5.38	67.00	25.29	11.06	3.20	3.40	
27	2.90	2.50	0.74	0.35	0.92	2.20	4.82	55.00	18.77	9.30	2.90	2.80	
28	3.70	2.50	0.50	0.35	1.34	1.80	5.10	38.20	16.00	9.30	3.20	3.30	
29	3.70	2.50	0.50	0.35	3.20	1.70	5.10	38.20	14.78	9.30	3.50	3.30	
30	3.70	2.50	0.50	0.35	2.70	1.70	11.06	34.56	18.77	12.68		3.20	
31		2.50		0.35	0.07		25.29		27.65	12.18		3.10	
Total	226.03	135.40	55.76	22.56	18.02	225.27	76.71	753.06	877.68	1009.77	162.77	111.82	367

WATER YEAR : 2011

THALE SAP SONGKHLA

Upper Khlong Tha Nae at Ban Khao Pu , Phatthalung (X.276)

Lat 07 - 42 - 25 N Long 99 - 50 - 29 E

Location : on right bank at the bridge.

	Ban	Khao Pu	Amphoe	Si Banphot	Changwat	Phatthalung
Drainage Area	47	sq.km.				
Type of Gage	Staff	gage				
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+57.060 m. (MSL.)
Gage Reading Frequency	3-time daily readings at 06.00, 12.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 3 readings					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.68	50.61	50.27	50.18	50.36	50.59	51.15	52.84	50.91	52.73	51.41	50.40	
2	51.76	50.59	50.33	50.16	50.37	50.56	50.87	51.16	50.86	52.13	51.39	50.38	
3	51.61	50.58	50.34	50.19	50.36	50.50	50.96	50.99	50.82	51.52	51.16	50.40	
4	51.33	50.61	50.29	50.17	50.34	50.57	50.77	50.89	50.87	51.27	50.98	50.39	
5	51.20	50.59	50.28	50.17	50.33	50.55	50.80	51.68	50.80	51.11	50.86	50.53	
6	51.12	50.57	50.26	50.16	50.31	50.50	50.75	50.86	50.81	51.00	50.77	50.52	
7	51.09	50.55	50.24	50.16	50.30	50.51	50.70	50.78	50.84	50.93	50.71	50.48	
8	51.02	50.57	50.24	50.15	50.30	50.46	50.68	50.76	50.73	50.88	50.67	50.52	
9	50.98	50.55	50.27	50.14	50.30	50.43	50.65	50.73	50.73	50.85	50.63	50.64	
10	50.95	50.55	50.22	50.14	50.29	50.46	50.62	50.70	50.86	50.85	50.61	50.72	
11	50.92	50.54	50.25	50.13	50.30	50.92	50.67	50.77	50.87	50.77	50.58	50.62	
12	50.88	50.56	50.25	50.28	50.33	51.25	50.61	50.71	50.90	51.21	50.56	50.57	
13	50.85	50.57	50.26	50.20	50.30	50.93	50.60	50.69	50.83	51.37	50.54	50.52	
14	50.84	50.55	50.36	50.25	50.39	50.65	50.64	50.72	50.78	52.45	50.53	50.50	
15	50.81	50.53	50.34	50.48	50.33	50.67	50.59	50.80	50.96	52.00	50.52	50.50	
16	50.79	50.68	50.26	50.21	50.32	50.65	50.57	50.76	52.75	51.35	50.51	50.49	
17	50.77	50.60	50.32	50.21	50.35	50.64	50.56	50.72	51.78	51.14	50.50	50.48	
18	50.77	50.55	50.27	50.17	50.33	50.61	50.55	50.85	51.35	51.25	50.48	50.47	
19	50.78	50.52	50.24	50.15	50.31	50.58	50.64	50.73	51.16	51.21	50.47	50.46	
20	50.75	50.49	50.23	50.14	50.32	50.70	50.64	50.68	51.04	52.19	50.46	50.45	
21	50.73	50.49	50.23	50.14	50.54	50.69	50.58	53.85	50.93	52.10	50.50	50.43	
22	50.72	50.48	50.21	50.14	50.81	50.64	50.65	51.84	51.04	51.32	50.49	50.45	
23	50.70	50.46	50.20	50.15	50.70	50.59	50.61	51.97	50.87	51.15	50.48	50.44	
24	50.68	50.44	50.19	50.16	50.60	50.57	50.75	52.04	50.90	50.99	50.47	50.43	
25	50.67	50.43	50.19	50.16	50.53	50.54	50.66	51.93	51.27	50.93	50.46	50.42	
26	50.66	50.42	50.19	50.16	50.60	50.62	51.05	51.35	51.38	50.89	50.45	50.41	
27	50.66	50.52	50.19	50.15	50.95	50.69	50.84	51.26	51.18	50.85	50.43	50.44	
28	50.65	50.46	50.18	50.36	50.86	50.70	50.80	51.16	51.08	50.79	50.51	50.40	
29	50.64	50.43	50.18	50.45	50.78	50.92	51.21	50.99	50.93	50.73	50.51	50.40	
30	50.64	50.43	50.17	50.42	50.72	50.78	51.85	50.91	50.89	50.75		50.39	
31		50.42		50.40	50.69		51.93		51.55	53.38		50.47	
Mean	50.92	50.53	50.25	50.21	50.46	50.65	50.80	51.20	51.05	51.36	50.64	50.47	
Max	51.76	50.68	50.36	50.48	50.95	51.25	51.93	53.85	52.75	53.38	51.41	50.72	53.85
Min	50.64	50.42	50.17	50.13	50.29	50.43	50.55	50.68	50.73	50.73	50.43	50.38	50.13
Annual Max Momentary Gage Height	54.93		m. (MSL.) , at 14.00 Hours , on Nov 21 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) , River Bed 49.73 m. (MSL)										
Left Bank Elevation	57.02		m. (MSL.) ,										
Right Bank Elevation	57.02		m. (MSL.) , Drainage Area 47 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.40	1.07	0.30	0.18	0.44	0.98	6.23	33.60	3.51	31.30	9.63	0.50		
2	14.60	0.98	0.40	0.16	0.45	0.90	3.07	6.34	2.96	20.35	9.36	0.47		
3	12.35	0.95	0.41	0.19	0.44	0.75	4.06	4.39	2.52	11.12	6.34	0.50		
4	8.56	1.07	0.33	0.17	0.41	0.93	2.11	3.29	3.07	7.74	4.28	0.48		
5	6.80	0.98	0.32	0.17	0.40	0.88	2.30	13.40	2.30	5.77	2.96	0.82		
6	5.88	0.93	0.29	0.16	0.37	0.75	1.98	2.96	2.41	4.50	2.11	0.80		
7	5.53	0.88	0.26	0.16	0.35	0.77	1.65	2.17	2.74	3.73	1.72	0.70		
8	4.73	0.93	0.26	0.15	0.35	0.65	1.52	2.04	1.85	3.18	1.45	0.80		
9	4.28	0.88	0.30	0.14	0.35	0.57	1.33	1.85	1.85	2.85	1.20	1.26		
10	3.95	0.88	0.23	0.14	0.33	0.65	1.13	1.65	2.96	2.85	1.07	1.78		
11	3.62	0.85	0.27	0.13	0.35	3.62	1.45	2.11	3.07	2.11	0.95	1.13		
12	3.18	0.90	0.27	0.32	0.40	7.47	1.07	1.72	3.40	6.93	0.90	0.93		
13	2.85	0.93	0.29	0.20	0.35	3.73	1.00	1.58	2.63	9.09	0.85	0.80		
14	2.74	0.88	0.44	0.27	0.48	1.33	1.26	1.78	2.17	25.77	0.82	0.75		
15	2.41	0.82	0.41	0.70	0.40	1.45	0.98	2.30	4.06	18.20	0.80	0.75		
16	2.24	1.52	0.29	0.21	0.38	1.33	0.93	2.04	31.70	8.82	0.77	0.73		
17	2.11	1.00	0.38	0.21	0.42	1.26	0.90	1.78	14.90	6.11	0.75	0.70		
18	2.11	0.88	0.30	0.17	0.40	1.07	0.88	2.85	8.82	7.47	0.70	0.68		
19	2.17	0.80	0.26	0.15	0.37	0.95	1.26	1.85	6.34	6.93	0.68	0.65		
20	1.98	0.73	0.24	0.14	0.38	1.65	1.26	1.52	4.96	21.33	0.65	0.63		
21	1.85	0.73	0.24	0.14	0.85	1.58	0.95	63.15	3.73	19.85	0.75	0.57		
22	1.78	0.70	0.21	0.14	2.41	1.26	1.33	15.80	4.96	8.42	0.73	0.63		
23	1.65	0.65	0.20	0.15	1.65	0.98	1.07	17.75	3.07	6.23	0.70	0.60		
24	1.52	0.60	0.19	0.16	1.00	0.93	1.98	18.86	3.40	4.39	0.68	0.57		
25	1.45	0.57	0.19	0.16	0.82	0.85	1.39	17.15	7.74	3.73	0.65	0.55		
26	1.39	0.55	0.19	0.16	1.00	1.13	5.07	8.82	9.23	3.29	0.63	0.52		
27	1.39	0.80	0.19	0.15	3.95	1.58	2.74	7.61	6.57	2.85	0.57	0.60		
28	1.33	0.65	0.18	0.44	2.96	1.65	2.30	6.34	5.42	2.24	0.77	0.50		
29	1.26	0.57	0.18	0.63	2.17	3.62	6.93	4.39	3.73	1.85	0.77	0.50		
30	1.26	0.57	0.17	0.55	1.78	2.17	15.95	3.51	3.29	1.98		0.48		
31		0.55		0.50	1.58		17.15		11.52	47.42		0.68		
Total	120.37	25.80	8.19	7.30	27.99	47.44	93.23	254.60	170.88	308.40	54.24	22.06	1140.50	CMSDAY
Mean	4.01	0.83	0.27	0.24	0.90	1.58</								

WATER YEAR : 2011

THALE SAP SONGKHLA

Lower Khlong Tha Nae at Ban Phikul Thong , Phatthalung (X.277)

Lat 07 - 44 - 25 N Long 99 - 58 - 48 E

Location : on right bank at the bridge.

	Ban	Phikul Thong	Amphoe	Khuan Khanun	Changwat	Phatthalung
Drainage Area	91	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+3.644 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 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 30 discharge measurements made in 2011.					

Gage Height in Meter (A.D.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	43.94	0.90	0.90	0.72	0.90	0.90	1.80	42.88	6.00	36.20	25.16	0.90		
2	46.14	1.62	0.90	0.72	0.90	0.90	3.90	13.00	4.32	51.31	19.23	0.90		
3	51.92	0.90	0.90	0.72	0.72	0.90	3.90	10.00	1.80	4.32	6.00	0.90		
4	49.56	1.17	0.90	0.63	0.72	1.80	1.80	8.50	1.80	19.23	13.00	0.90		
5	16.58	0.90	0.90	0.63	0.72	1.80	1.80	3.90	6.00	16.87	6.00	0.90		
6	6.00	0.90	0.90	0.72	0.72	0.90	1.80	1.62	4.32	10.00	3.48	0.90		
7	6.00	1.62	0.90	0.72	0.72	0.90	1.80	0.90	5.58	6.00	1.80	0.90		
8	7.00	0.81	0.90	0.72	0.72	0.90	0.90	0.90	4.95	6.00	1.80	1.62		
9	3.90	0.45	0.90	0.72	0.72	1.35	0.90	0.90	16.00	3.90	3.27	6.00		
10	5.16	0.90	0.90	0.72	0.45	0.90	0.90	1.26	1.53	3.90	2.85	1.08		
11	3.48	0.81	0.90	0.72	0.45	5.37	0.90	0.90	13.50	6.00	2.85	3.90		
12	4.11	0.45	0.90	0.72	0.45	35.95	0.90	0.90	16.00	2.43	2.85	3.06		
13	3.90	0.09	0.90	0.72	0.45	7.00	0.90	3.90	9.50	20.55	2.85	0.90		
14	3.06	0.90	0.81	0.72	0.90	1.80	0.90	3.06	10.50	20.88	2.43	0.90		
15	3.06	0.45	0.81	0.72	0.54	1.80	0.90	6.00	4.74	41.56	0.90	0.90		
16	1.80	3.90	0.81	0.72	0.72	1.80	0.90	1.80	48.71	16.58	0.90	0.90		
17	1.80	3.90	0.90	0.90	0.72	1.80	0.90	1.08	45.86	17.45	1.80	0.90		
18	6.00	2.22	0.72	0.81	0.72	0.90	0.90	2.85	29.05	34.70	3.48	0.90		
19	3.48	1.80	0.72	0.72	0.90	0.90	0.90	3.06	18.17	20.88	1.80	0.90		
20	1.35	2.85	0.72	0.72	0.90	1.80	0.90	1.80	13.00	48.42	2.64	0.90		
21	3.90	1.71	0.54	0.90	0.90	1.80	0.90	24.97	4.53	16.87	0.90	0.90		
22	0.90	1.26	0.72	0.90	1.80	1.80	0.90	30.33	3.90	21.21	1.08	1.44		
23	0.90	0.90	0.72	0.90	2.64	0.90	0.90	54.36	10.50	11.00	4.95	1.44		
24	0.90	0.90	0.72	0.81	0.90	0.90	0.90	54.36	6.50	11.00	0.90	0.90		
25	0.90	0.90	0.72	0.72	0.90	0.90	1.26	31.94	23.68	11.00	0.90	0.90		
26	0.90	0.90	0.72	0.72	1.44	0.90	3.90	17.45	23.68	3.90	0.90	0.90		
27	0.90	0.90	0.72	0.72	1.62	0.90	4.53	15.00	18.61	4.95	3.90	0.90		
28	0.90	0.90	0.72	0.90	5.58	0.90	4.53	17.88	19.89	3.90	1.44	0.90		
29	0.90	0.90	0.72	0.90	4.32	1.80	6.00	15.00	7.00	3.90	0.90	0.90		
30	0.90	0.90	0.72	1.80	1.26	1.80	26.32	5.16	3.48	3.90		0.90		
31		0.90		0.90	0.90		32.40		19.56	24.79		0.90		
Total	280.24	38.61	24.21	24.66	36.30	82.97	111.04	375.66	402.66	503.60	120.96	40.14	2041.05	CMSDAY
Mean	9.34	1.2												

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Trang River at Ban Tha Pradu , Trang (X.56)

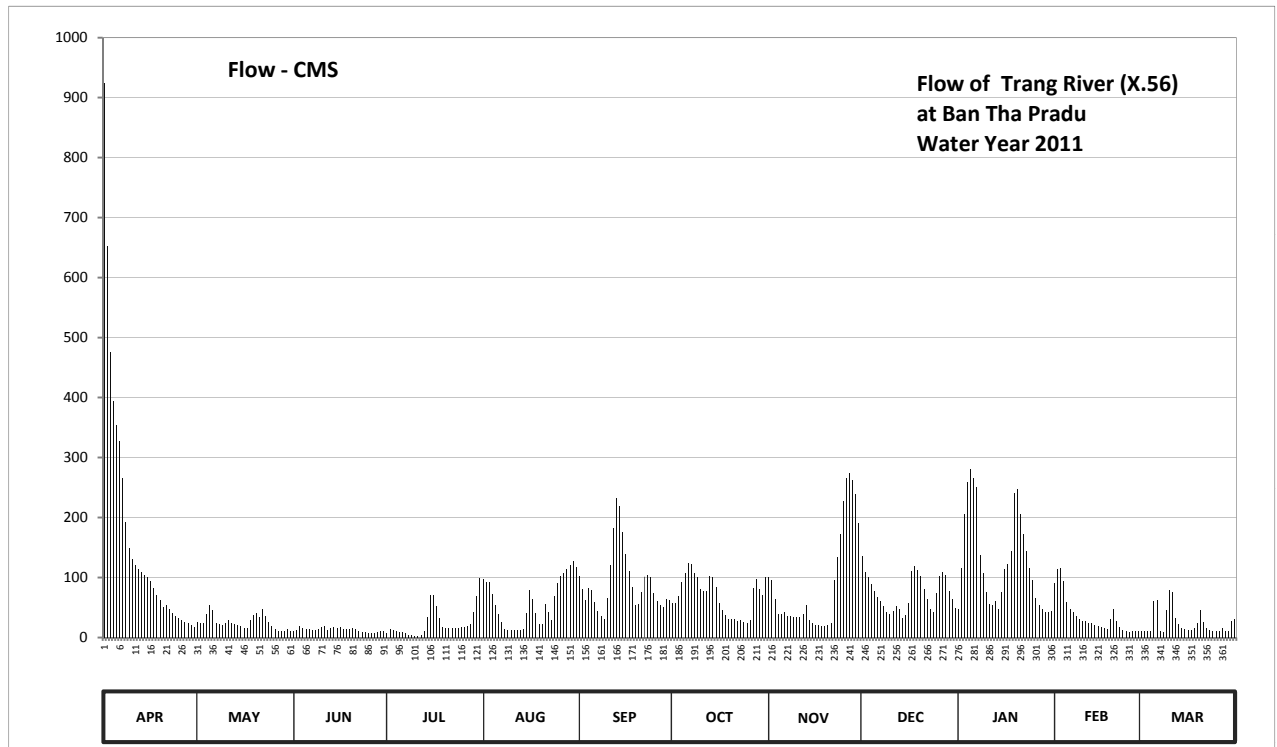
Lat 07 - 46 - 01 N Long 99 - 32 - 25 E

Location : on left bank at Ban Tha Pradu.

	Ban	Tha Pradu	Amphoe	Huai Yot	Changwat	Trang
Drainage Area	1,801	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+19.353 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.92	8.32	7.72	7.50	10.15	10.52	9.33	10.30	12.15	9.04	10.05	7.70	
2	15.37	8.30	7.74	7.83	10.08	9.87	9.33	10.14	10.99	11.31	11.30	7.67	
3	14.84	8.29	8.10	7.75	10.08	9.46	9.62	9.51	10.26	13.36	11.32	7.65	
4	14.51	8.78	7.97	7.67	9.69	9.89	10.08	8.82	10.01	13.78	10.10	7.68	
5	14.32	9.23	7.83	7.58	9.24	9.83	10.81	8.82	9.80	13.92	9.35	9.40	
6	14.18	8.97	7.86	7.51	8.78	9.35	11.74	8.92	9.60	13.82	9.02	9.48	
7	13.82	8.29	7.80	7.46	8.33	8.96	11.65	8.68	9.44	13.72	8.90	7.72	
8	13.22	8.21	7.75	7.17	7.89	8.70	10.86	8.67	9.17	12.16	8.70	7.51	
9	12.53	8.17	7.85	7.07	7.81	8.50	10.24	8.63	8.90	10.89	8.52	8.99	
10	11.97	8.29	8.02	7.01	7.75	9.53	9.87	8.62	8.81	9.75	8.43	9.82	
11	11.56	8.49	8.08	6.97	7.79	11.60	9.78	8.63	8.95	9.28	8.40	9.77	
12	11.24	8.30	7.82	7.05	7.76	13.09	9.80	8.79	9.18	9.21	8.29	8.58	
13	10.90	8.24	7.96	7.65	7.75	13.59	10.49	9.21	9.02	9.40	8.28	8.20	
14	10.60	8.15	8.00	8.61	7.89	13.47	10.35	8.47	8.59	9.02	8.14	7.97	
15	10.33	8.06	7.96	9.67	8.85	12.99	9.92	8.29	8.74	9.75	8.09	7.85	
16	10.09	7.92	8.02	9.67	9.81	12.23	9.31	8.18	9.32	11.23	8.04	7.78	
17	9.88	7.92	7.85	9.16	9.51	11.01	8.99	8.15	11.08	11.64	7.98	7.75	
18	9.67	8.49	7.91	8.59	8.87	9.91	8.76	8.11	11.54	12.41	7.88	7.98	
19	9.48	8.76	7.87	8.03	8.25	9.22	8.52	8.06	11.18	13.65	8.51	8.28	
20	9.12	8.85	7.92	7.97	8.21	9.30	8.54	8.14	10.40	13.70	9.03	9.00	
21	9.22	8.66	7.88	7.93	9.27	9.75	8.50	8.30	9.86	13.35	8.42	8.35	
22	9.03	9.03	7.73	7.93	8.92	10.33	8.41	10.14	9.52	12.93	8.03	7.97	
23	8.86	8.70	7.62	7.96	8.46	10.60	8.48	12.07	9.06	12.42	7.82	7.77	
24	8.70	8.34	7.55	7.98	9.63	10.21	8.36	12.95	8.89	11.35	7.68	7.67	
25	8.58	8.11	7.38	8.01	10.05	9.74	8.26	13.55	9.74	10.12	7.62	7.63	
26	8.48	7.89	7.46	8.04	10.40	9.40	8.45	13.82	10.47	9.53	7.64	7.66	
27	8.37	7.72	7.50	8.06	10.83	9.21	9.89	13.87	10.98	9.22	7.64	7.92	
28	8.28	7.63	7.56	8.22	11.25	9.14	10.17	13.80	10.56	9.04	7.64	7.72	
29	8.16	7.72	7.64	8.89	11.61	9.49	9.84	13.64	9.79	8.92	7.71	7.65	
30	8.04	7.85	7.69	9.61	11.83	9.48	9.65	13.21	9.51	8.88		8.40	
31		7.65		10.18	11.42		10.22		9.08	8.96		8.50	
Mean	10.98	8.30	7.80	8.09	9.30	10.28	9.62	10.02	9.83	11.15	8.57	8.19	
Max	15.92	9.23	8.10	10.18	11.83	13.59	11.74	13.87	12.15	13.92	11.32	9.82	15.92
Min	8.04	7.63	7.38	6.97	7.75	8.50	8.26	8.06	8.59	8.88	7.62	7.51	6.97
Annual Max Momentary Gage Height	16.05		m. (MSL.) ,			at 06.00 Hours , on Apr 1 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	5.28	m. (MSL)					
Left Bank Elevation			m. (MSL.) ,										
Right Bank Elevation		19.71	m. (MSL.) ,			Drainage Area	1801	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	924.00	25.00	11.30	8.25	97.00	103.20	57.55	101.00	136.50	47.40	91.00	11.00		
2	652.00	24.50	11.60	13.17	92.80	81.50	57.55	96.40	109.85	115.20	115.00	10.55		
3	475.20	24.25	19.50	11.75	92.80	62.40	69.00	64.40	100.60	206.00	115.40	10.25		
4	394.20	38.40	16.32	10.55	72.50	82.50	92.80	39.70	88.60	259.20	94.00	10.70		
5	354.00	54.05	13.17	9.25	54.40	79.50	107.15	39.70	78.00	281.20	58.25	60.00		
6	326.40	44.95	13.85	8.38	38.40	58.25	124.50	43.20	68.00	265.20	46.70	63.20		
7	265.20	24.25	12.50	7.75	25.25	44.60	122.25	35.40	61.60	250.80	42.50	11.30		
8	192.00	22.25	11.75	4.28	14.52	36.00	107.90	35.10	51.95	136.80	36.00	8.38		
9	149.20	21.25	13.62	3.53	12.72	30.00	100.40	33.90	42.50	108.35	30.60	45.65		
10	131.10	24.25	17.50	3.08	11.75	65.20	81.50	33.60	39.35	75.50	27.90	79.00		
11	120.20	29.70	19.00	2.77	12.35	121.00	77.00	33.90	44.25	55.80	27.00	76.50		
12	113.80	24.50	12.95	3.38	11.90	182.30	78.00	38.70	52.30	53.35	24.25	32.40		
13	108.50	23.00	16.10	10.25	11.75	232.80	102.90	53.35	46.70	60.00	24.00	22.00		
14	104.00	20.75	17.00	33.30	14.52	218.40	101.50	29.10	32.70	46.70	20.50	16.32		
15	101.30	18.50	16.10	71.50	40.75	175.40	84.00	24.25	37.20	75.50	19.25	13.62		
16	93.40	15.20	17.50	71.50	78.50	138.90	56.85	21.50	57.20	113.60	18.00	12.20		
17	82.00	15.20	13.62	51.60	64.40	110.15	45.65	20.75	111.20	122.00	16.55	11.75		
18	71.50	29.70	14.97	32.70	41.45	83.50	37.80	19.75	119.80	144.40	14.30	16.55		
19	63.20	37.80	14.07	17.75	23.25	53.70	30.60	18.50	112.70	241.00	30.30	24.00		
20	50.20	40.75	15.20	16.32	22.25	56.50	31.20	20.50	102.00	248.00	47.05	46.00		
21	53.70	34.80	14.30	15.42	55.45	75.50	30.00	24.50	81.00	205.00	27.60	25.75		
22	47.05	47.05	11.45	15.42	43.20	101.30	27.30	96.40	64.80	171.80	17.75	16.32		
23	41.10	36.00	9.80	16.10	28.80	104.00	29.40	134.10	48.10	144.80	12.95	12.05		
24	36.00	25.50	8.88	16.55	69.50	100.10	26.00	173.00	42.15	116.00	10.70	10.55		
25	32.40	19.75	6.75	17.25	91.00	75.00	23.50	228.00	75.00	95.20	9.80	9.95		
26	29.40	14.52	7.75	18.00	102.00	60.00	28.50	265.20	102.70	65.20	10.10	10.40		
27	26.25	11.30	8.25	18.50	107.45	53.35	82.50	273.20	109.70	53.70	10.10	15.20		
28	24.00	9.95	9.00	22.50	114.00	50.90	98.20	262.00	103.60	47.40	10.10	11.30		
29	21.00	11.30	10.10	42.15	121.25	63.60	80.00	239.60	77.50	43.20	11.15	10.25		
30	18.00	13.62	10.85	68.50	126.90	63.20	70.50	191.00	64.40	41.80		27.00		
31		10.25		98.80	117.40		100.20		48.80	44.60		30.00		
Total	5100.30	792.29	394.75	740.25	1810.21	2762.75	2162.20	2689.70	2310.75	3934.70	1018.80	760.14	24476.84	CMSDAY
Mean	170.01	25.56	13.16	23.88	58.39	92.09	69.75	89.66	74.54	126.93	35.13	24.52	66.88	CMS
Max	924.00	54.05	19.50	98.80	126.90	232.80	124.50	273.20	136.50	281.20	115.40	79.00	924.00	CMS
Min	18.00	9.95	6.75	2.77	11.75	30.00	23.50	18.50	32.70	41.80	9.80	8.38	2.77	CMS
Runoff	440.67	68.45	34.11	63.96	156.40	238.70	186.81	232.39	199.65	339.96	88.02	65.68	2114.80	MCM
Momentary Peak	1004.00 CMS. at 16.05 m. (MSL.) at 06.00 Hours , on Apr 1 , 2011													
Runoff Yield	37.13	Liters/Second/Square KM.				Momentary Peak Yield		557.468	Liters/Second/Square KM.					

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST

Khlong Nang Noi at Ban Thung Kling , Trang (X.128A)

Lat 07 - 35 - 28 N Long 99 - 44 - 13 E

Location : on right bank at Ban Thung Kling.

	Ban	Thung Kling	Amphoe	Na Yong	Changwat	Trang
Drainage Area	75	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the top staff gage.				Elevation	+40.999 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
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 36 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.87	35.75	35.70	35.70	35.82	36.13	36.59	38.04	36.24	38.12	36.38	35.84	
2	37.38	35.74	35.85	35.75	35.93	35.97	36.54	36.89	36.18	38.47	36.48	35.84	
3	37.01	35.73	35.96	35.89	35.91	35.87	37.23	36.51	36.16	37.09	36.28	35.83	
4	36.87	35.95	35.87	35.82	35.84	36.50	36.80	36.28	36.25	36.72	36.02	35.83	
5	36.77	35.86	35.81	35.77	35.79	36.27	36.59	36.20	36.27	36.52	35.97	36.10	
6	36.62	35.79	35.74	35.74	35.74	36.06	36.62	36.13	36.11	36.39	35.94	35.99	
7	36.51	35.77	35.70	35.71	35.73	36.03	36.53	36.29	36.05	36.25	35.92	35.89	
8	36.36	35.75	35.66	35.69	35.70	35.81	36.41	36.21	35.99	36.21	35.91	35.86	
9	36.26	35.73	35.66	35.67	35.66	35.87	36.34	36.15	35.98	36.20	35.90	35.87	
10	36.20	35.73	35.64	35.65	35.62	37.05	36.21	36.42	36.00	36.18	35.86	36.36	
11	36.12	35.73	35.66	35.67	35.60	38.95	36.26	36.41	36.02	36.19	35.95	36.13	
12	36.07	35.77	35.68	36.21	35.59	39.18	36.25	36.29	36.14	36.33	35.90	35.95	
13	36.01	35.75	35.66	36.07	35.57	37.11	36.22	36.20	35.93	36.51	35.86	35.96	
14	35.97	35.74	35.74	35.79	35.78	36.68	36.16	36.14	35.86	36.40	35.93	35.75	
15	35.95	35.74	35.78	35.90	36.14	36.29	36.08	36.22	35.93	36.42	35.92	35.74	
16	35.90	35.72	35.76	36.01	35.81	36.20	36.05	36.26	38.71	36.46	35.91	35.72	
17	35.87	35.78	35.69	36.02	36.48	36.11	37.41	36.21	37.96	36.50	35.87	35.67	
18	35.95	35.75	35.66	35.88	35.94	36.03	36.83	36.12	37.28	36.60	35.84	35.66	
19	35.91	35.87	35.65	35.78	35.79	36.14	36.71	36.08	36.65	36.78	35.82	35.77	
20	35.87	35.88	35.76	35.71	35.95	37.09	36.51	36.05	36.66	37.02	35.80	35.74	
21	35.85	35.85	35.71	35.64	36.13	36.90	36.18	38.41	36.43	37.12	35.79	35.73	
22	35.84	35.82	35.67	35.68	36.10	36.44	36.26	38.65	36.32	36.75	35.82	35.72	
23	35.83	35.80	35.65	35.86	36.16	36.25	36.14	38.23	36.23	36.48	35.84	35.70	
24	35.83	35.76	35.63	35.91	36.24	36.14	36.11	39.38	36.11	36.40	35.86	35.66	
25	35.82	35.72	35.66	36.02	36.09	36.13	36.07	38.42	36.45	36.22	35.86	35.64	
26	35.79	35.82	35.64	35.80	36.94	36.43	36.53	37.45	36.39	36.15	35.87	35.62	
27	35.76	35.84	35.63	35.80	37.36	36.23	36.27	36.89	36.16	36.02	35.88	35.61	
28	35.76	35.80	35.61	35.93	37.17	36.39	36.33	36.66	36.11	35.93	35.89	35.61	
29	35.76	35.74	35.63	36.04	37.17	37.01	36.45	36.48	36.10	36.02	35.89	35.61	
30	35.75	35.67	35.63	35.93	36.74	37.41	37.00	36.43	36.05	36.02		35.61	
31		35.65		35.89	36.35		38.33		36.24	36.14		35.61	
Mean	36.18	35.77	35.70	35.84	36.09	36.56	36.52	36.80	36.35	36.54	35.94	35.79	
Max	37.87	35.95	35.96	36.21	37.36	39.18	38.33	39.38	38.71	38.47	36.48	36.36	39.38
Min	35.75	35.65	35.61	35.64	35.57	35.81	36.05	36.05	35.86	35.93	35.79	35.61	35.57
Annual Max Momentary Gage Height	40.03		m. (MSL.) ,				at 16.00 Hours , on Nov 21 , 2011						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	35.04	m. (MSL)					
Left Bank Elevation	43.35		m. (MSL.) ,										
Right Bank Elevation	43.37		m. (MSL.) ,			Drainage Area	75	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.85	0.58	0.45	0.45	0.76	1.89	4.25	13.00	2.40	13.60	3.10	0.82		
2	8.78	0.55	0.85	0.58	1.09	1.21	3.97	5.89	2.11	16.30	3.64	0.82		
3	6.56	0.53	1.18	0.97	1.03	0.91	7.88	3.80	2.02	7.04	2.60	0.79		
4	5.78	1.15	0.91	0.76	0.82	3.75	5.40	2.60	2.45	4.96	1.39	0.79		
5	5.24	0.88	0.73	0.63	0.68	2.55	4.25	2.20	2.55	3.86	1.21	1.75		
6	4.41	0.68	0.55	0.55	0.55	1.57	4.41	1.89	1.80	3.15	1.12	1.27		
7	3.80	0.63	0.45	0.48	0.53	1.43	3.91	2.65	1.52	2.45	1.06	0.97		
8	3.00	0.58	0.35	0.42	0.45	0.73	3.25	2.25	1.27	2.25	1.03	0.88		
9	2.50	0.53	0.35	0.37	0.35	0.91	2.90	1.98	1.24	2.20	1.00	0.91		
10	2.20	0.53	0.30	0.33	0.25	6.80	2.25	3.31	1.30	2.11	0.88	3.00		
11	1.84	0.53	0.35	0.37	0.20	20.70	2.50	3.25	1.39	2.15	1.15	1.89		
12	1.61	0.63	0.40	2.25	0.18	23.09	2.45	2.65	1.93	2.85	1.00	1.15		
13	1.34	0.58	0.35	1.61	0.14	7.16	2.30	2.20	1.09	3.80	0.88	1.18		
14	1.21	0.55	0.55	0.68	0.65	4.74	2.02	1.93	0.88	3.20	1.09	0.58		
15	1.15	0.55	0.65	1.00	1.93	2.65	1.66	2.30	1.09	3.31	1.06	0.55		
16	1.00	0.50	0.60	1.34	0.73	2.20	1.52	2.50	18.39	3.53	1.03	0.50		
17	0.91	0.65	0.42	1.39	3.64	1.80	8.96	2.25	12.44	3.75	0.91	0.37		
18	1.15	0.58	0.35	0.94	1.12	1.43	5.57	1.84	8.18	4.30	0.82	0.35		
19	1.03	0.91	0.33	0.65	0.68	1.93	4.91	1.66	4.58	5.29	0.76	0.63		
20	0.91	0.94	0.60	0.48	1.15	7.04	3.80	1.52	4.63	6.62	0.70	0.55		
21	0.85	0.85	0.48	0.30	1.89	5.95	2.11	15.78	3.36	7.22	0.68	0.53		
22	0.82	0.76	0.37	0.40	1.75	3.42	2.50	17.85	2.80	5.13	0.76	0.50		
23	0.79	0.70	0.33	0.88	2.02	2.45	1.93	14.42	2.35	3.64	0.82	0.45		
24	0.79	0.60	0.28	1.03	2.40	1.93	1.80	25.73	1.80	3.20	0.88	0.35		
25	0.76	0.50	0.35	1.39	1.70	1.89	1.61	15.87	3.48	2.30	0.88	0.30		
26	0.68	0.76	0.30	0.70	6.17	3.36	3.91	9.20	3.15	1.98	0.91	0.25		
27	0.60	0.82	0.28	0.70	8.66	2.35	2.55	5.89	2.02	1.39	0.94	0.23		
28	0.60	0.70	0.23	1.09	7.52	3.15	2.85	4.63	1.80	1.09	0.97	0.23		
29	0.60	0.55	0.28	1.48	7.52	6.56	3.48	3.64	1.75	1.39	0.97	0.23		
30	0.58	0.37	0.28	1.09	5.07	8.96	6.50	3.36	1.52	1.39		0.23		
31		0.33		0.97	2.95		15.18		2.40	1.93		0.23		
Total	73.34	20.00	13.90	26.28	64.58	134.51	122.58	178.04	99.69	127.38	34.24	23.28	917.82	CMSDAY
Mean	2.44	0.65	0.46	0.85	2.08	4.48	3.95							

	Ban	Palian Nai	Amphoe	Palian	Changwat	Trang
Drainage Area	160	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (A.D.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutment of the bridge.				Elevation	+6.999 m. (A.D.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 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 2011.					

Gage Height in Meter (A.D.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.89	1.69	1.16	0.98	1.04	1.99	2.00	1.51	2.61	2.88	1.35	1.00	
2	1.80	1.08	1.41	0.98	1.00	1.51	1.68	1.56	2.82	2.91	1.29	0.93	
3	1.63	1.06	1.41	1.39	1.50	1.62	1.88	1.40	2.87	2.21	1.26	0.93	
4	1.47	1.40	1.19	1.20	1.25	1.56	2.00	1.39	3.73	1.80	1.19	1.22	
5	1.34	1.38	1.56	1.12	1.13	1.49	2.66	1.37	3.76	1.49	1.17	1.33	
6	1.29	1.71	1.35	1.19	1.06	1.40	2.56	1.46	2.80	1.50	1.16	1.46	
7	1.33	1.48	1.28	0.88	1.04	1.35	1.98	1.56	2.26	1.51	1.16	1.23	
8	1.19	1.31	1.35	0.98	1.01	1.34	1.97	1.32	2.17	1.46	1.18	1.12	
9	1.15	1.16	1.38	0.97	0.99	1.29	1.94	1.49	1.96	1.41	1.20	1.34	
10	1.13	1.13	1.17	0.95	0.99	1.75	1.81	1.43	1.77	1.61	1.21	1.26	
11	1.12	1.14	1.55	0.92	0.98	4.36	1.96	1.40	1.49	1.56	1.07	0.98	
12	1.11	1.15	1.55	1.26	0.97	4.51	2.03	1.33	1.98	1.84	1.10	0.97	
13	1.09	1.13	1.75	1.13	1.11	2.90	1.79	1.25	2.21	2.62	1.10	0.98	
14	0.97	1.07	1.73	1.16	0.97	2.47	1.71	1.24	1.43	1.74	1.07	0.94	
15	0.98	1.03	1.66	1.94	1.12	2.10	1.51	1.25	1.63	1.85	1.06	0.93	
16	0.97	1.02	1.47	1.61	0.99	1.99	1.59	1.23	2.30	1.49	1.04	0.91	
17	1.05	1.02	1.31	1.30	0.99	1.87	1.80	1.18	2.43	1.73	1.04	0.91	
18	1.17	1.05	1.23	1.20	0.99	2.07	1.51	1.18	2.00	1.60	1.03	0.98	
19	2.28	1.14	1.28	1.07	0.97	2.33	1.48	1.16	1.93	1.66	1.03	0.91	
20	1.40	1.35	1.24	1.06	1.00	2.39	1.35	1.15	1.68	2.24	1.01	0.90	
21	1.18	1.22	1.21	1.04	1.23	2.23	1.41	2.61	1.64	2.10	1.00	0.90	
22	1.11	1.13	1.20	1.02	1.32	2.06	1.43	2.82	1.65	1.65	0.97	0.89	
23	1.07	1.25	1.18	1.11	1.18	1.76	1.53	2.87	1.42	1.57	0.97	0.88	
24	1.03	1.26	1.12	1.05	1.35	1.73	1.35	3.73	1.69	1.50	0.96	0.87	
25	1.00	1.10	1.04	1.00	2.61	1.66	1.25	3.76	1.51	1.44	0.96	0.87	
26	0.98	1.08	1.03	1.02	3.58	1.76	1.59	2.80	1.46	1.40	0.95	0.87	
27	0.96	1.11	1.03	1.13	3.10	1.87	1.45	2.26	1.37	1.36	0.93	0.93	
28	0.95	1.08	1.01	1.10	3.76	1.82	1.16	2.17	1.35	1.31	0.97	0.88	
29	0.94	1.07	1.09	1.13	3.92	1.74	1.44	1.96	1.34	1.28	1.26	0.87	
30	1.32	1.07	1.01	1.18	3.09	2.02	1.94	1.77	1.37	1.47		0.92	
31		1.05		1.09	2.28		1.97		1.35	1.29		0.97	
Mean	1.23	1.19	1.30	1.13	1.57	2.03	1.73	1.79	2.00	1.73	1.09	1.00	
Max	2.28	1.71	1.75	1.94	3.92	4.51	2.66	3.76	3.76	2.91	1.35	1.46	4.51
Min	0.94	1.02	1.01	0.88	0.97	1.29	1.16	1.15	1.34	1.28	0.93	0.87	0.87
Annual Max Momentary Gage Height	5.25	m. (A.D.) , at 18.00 Hours , on Sep 11, 2011											
Zero Gage at Bottom Elevation	0.00	m. (A.D.) , River Bed -0.14 m. (A.D.)											
Left Bank Elevation	6.99	m. (A.D.) ,											
Right Bank Elevation	6.60	m. (A.D.) , Drainage Area 160 Square Kilometers											

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.42	12.72	6.30	4.53	5.10	16.76	16.90	10.38	26.67	31.40	8.43	4.70	
2	14.20	5.50	9.13	4.53	4.70	10.38	12.58	11.00	30.35	31.93	7.73	4.11	
3	11.90	5.30	9.13	8.89	10.25	11.77	15.28	9.00	31.22	19.86	7.39	4.11	
4	9.88	9.00	6.60	6.70	7.27	11.00	16.90	8.89	51.93	14.20	6.60	6.93	
5	8.31	8.77	11.00	5.90	6.00	10.13	27.55	8.65	52.90	10.13	6.40	8.20	
6	7.73	12.99	8.43	6.60	5.30	9.00	25.80	9.75	30.00	10.25	6.30	9.75	
7	8.20	10.00	7.62	3.68	5.10	8.43	16.63	11.00	20.69	10.38	6.30	7.04	
8	6.60	7.96	8.43	4.53	4.80	8.31	16.50	8.08	19.28	9.75	6.50	5.90	
9	6.20	6.30	8.77	4.45	4.62	7.73	16.09	10.13	16.36	9.13	6.70	8.31	
10	6.00	6.00	6.40	4.28	4.62	13.53	14.34	9.38	13.80	11.64	6.81	7.39	
11	5.90	6.10	10.87	4.02	4.53	89.04	16.36	9.00	10.13	11.00	5.40	4.53	
12	5.80	6.20	10.87	7.39	4.45	101.63	17.32	8.20	16.63	14.74	5.70	4.45	
13	5.60	6.00	13.53	6.00	5.80	31.75	14.06	7.27	19.86	26.85	5.70	4.53	
14	4.45	5.40	13.26	6.30	4.45	24.22	12.99	7.16	9.38	13.39	5.40	4.19	
15	4.53	5.00	12.31	16.09	5.90	18.30	10.38	7.27	11.90	14.88	5.30	4.11	
16	4.45	4.90	9.88	11.64	4.62	16.76	11.38	7.04	21.35	10.13	5.10	3.94	
17	5.20	4.90	7.96	7.85	4.62	15.15	14.20	6.50	23.52	13.26	5.10	3.94	
18	6.40	5.20	7.04	6.70	4.62	17.88	10.38	6.50	16.90	11.50	5.00	4.53	
19	21.02	6.10	7.62	5.40	4.45	21.84	10.00	6.30	15.95	12.31	5.00	3.94	
20	9.00	8.43	7.16	5.30	4.70	22.84	8.43	6.20	12.58	20.36	4.80	3.85	
21	6.50	6.93	6.81	5.10	7.04	20.19	9.13	26.67	12.04	18.30	4.70	3.85	
22	5.80	6.00	6.70	4.90	8.08	17.74	9.38	30.35	12.17	12.17	4.45	3.77	
23	5.40	7.27	6.50	5.80	6.50	13.66	10.63	31.22	9.25	11.13	4.45	3.68	
24	5.00	7.39	5.90	5.20	8.43	13.26	8.43	51.93	12.72	10.25	4.36	3.60	
25	4.70	5.70	5.10	4.70	26.67	12.31	7.27	52.90	10.38	9.50	4.36	3.60	
26	4.53	5.50	5.00	4.90	47.15	13.66	11.38	30.00	9.75	9.00	4.28	3.60	
27	4.36	5.80	5.00	6.00	35.50	15.15	9.63	20.69	8.65	8.54	4.11	4.11	
28	4.28	5.50	4.80	5.70	52.90	14.47	6.30	19.28	8.43	7.96	4.45	3.68	
29	4.19	5.40	5.60	6.00	60.20	13.39	9.50	16.36	8.31	7.62	7.39	3.60	
30	8.08	5.40	4.80	6.50	35.30	17.18	16.09	13.80	8.65	9.88		4.02	
31		5.20		5.60	21.02		16.50		8.43	7.73		4.45	
Total	219.63	208.86	238.52	191.18	414.69	617.46	418.31	460.90	560.				

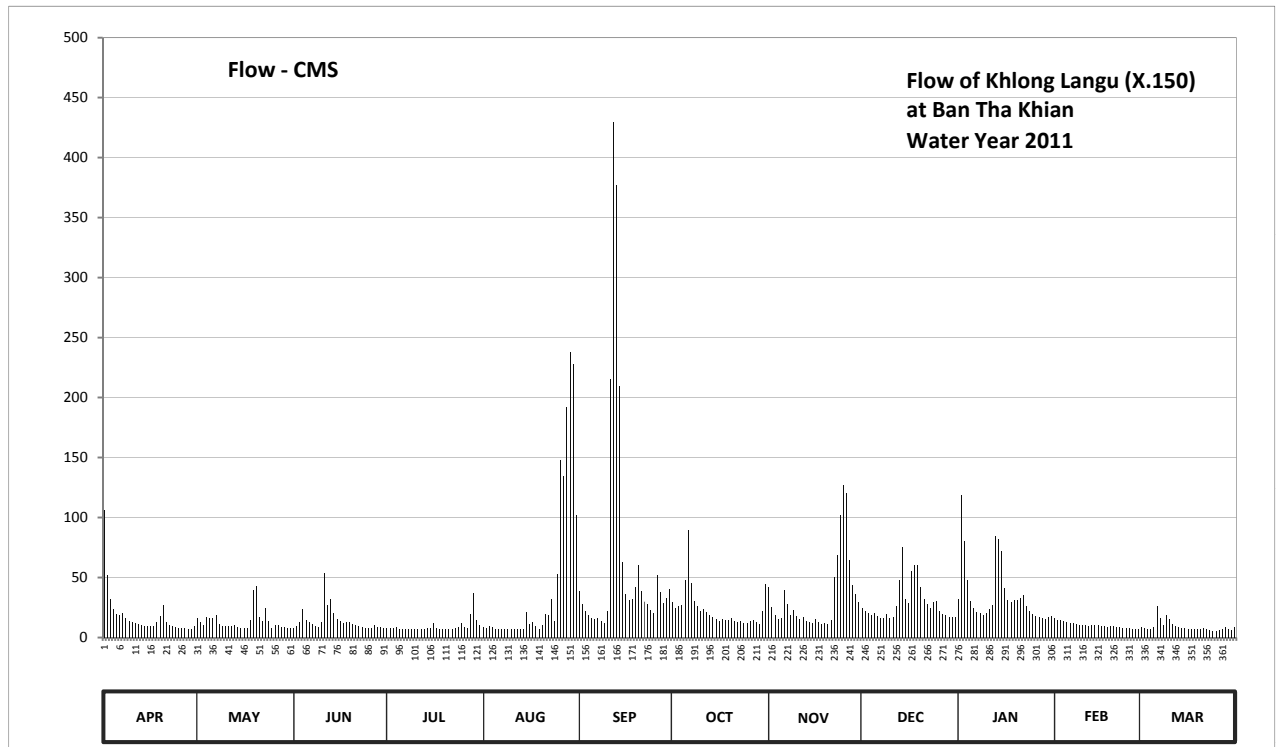
WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Khlomg Langu at Ban Tha Khian , Satun (X.150)
Lat 06 - 56 - 30 N Long 99 - 52 - 33 E

Location : on right bank at Ban Tha Khian.

	Ban	Tha Khian	Amphoe	Langu	Changwat	Satun
Drainage Area	480	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank about 5 meters from the top staff gage.				Elevation	+12.997 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	1984 to date					
Rating Operation						
Period of Rating	1984 to date					
Rated by Flot	-					
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 37 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.47	6.12	5.57	5.61	5.64	7.15	6.72	7.28	6.52	6.83	6.11	5.66	
2	7.70	5.91	5.70	5.61	5.57	6.68	6.50	6.54	6.40	9.76	6.03	5.57	
3	6.83	5.73	5.94	5.59	5.72	6.41	6.60	6.22	6.31	8.69	6.04	5.55	
4	6.48	6.14	6.49	5.63	5.67	6.24	6.61	6.08	6.24	7.53	5.95	5.55	
5	6.28	6.11	6.04	5.56	5.56	6.12	7.53	6.10	6.30	6.76	5.90	5.67	
6	6.22	6.09	5.93	5.55	5.54	6.07	9.01	7.18	6.19	6.52	5.87	6.59	
7	6.32	6.22	5.80	5.55	5.54	6.11	7.43	6.68	6.09	6.38	5.85	6.11	
8	6.09	5.82	5.71	5.54	5.54	5.95	6.77	6.24	6.09	6.31	5.84	5.74	
9	5.97	5.72	5.67	5.54	5.53	5.86	6.57	6.45	6.29	6.25	5.78	6.23	
10	5.90	5.71	5.94	5.54	5.53	6.39	6.41	6.18	6.09	6.31	5.74	6.08	
11	5.85	5.68	7.78	5.54	5.52	11.35	6.48	6.06	6.13	6.49	5.73	5.83	
12	5.80	5.71	6.64	5.53	5.53	13.43	6.37	6.15	6.58	6.64	5.72	5.72	
13	5.76	5.73	6.84	5.53	5.53	12.99	6.23	5.96	7.55	8.83	5.73	5.65	
14	5.72	5.65	6.31	5.57	5.54	11.27	6.15	5.90	8.53	8.74	5.74	5.61	
15	5.69	5.60	6.05	5.58	6.38	8.10	6.07	5.88	6.86	8.43	5.73	5.57	
16	5.68	5.57	5.95	5.88	5.82	7.02	6.00	6.08	6.69	7.25	5.71	5.54	
17	5.72	5.60	5.85	5.60	5.92	6.82	6.07	5.90	7.82	6.80	5.69	5.52	
18	5.92	6.02	5.91	5.54	5.68	6.85	6.01	5.84	8.02	6.74	5.67	5.56	
19	6.18	7.18	5.94	5.53	5.56	7.30	6.02	5.89	8.00	6.80	5.68	5.51	
20	6.64	7.34	5.84	5.54	5.73	8.00	6.12	5.83	7.30	6.81	5.68	5.56	
21	5.91	6.13	5.78	5.53	6.26	7.16	5.97	6.01	6.85	6.89	5.65	5.61	
22	5.76	6.00	5.69	5.53	6.23	6.75	5.94	7.65	6.66	6.99	5.64	5.51	
23	5.71	6.51	5.65	5.58	6.86	6.65	5.98	8.30	6.53	6.58	5.62	5.47	
24	5.67	5.97	5.62	5.64	6.00	6.42	5.88	9.36	6.73	6.39	5.58	5.45	
25	5.62	5.60	5.59	5.86	7.72	6.30	5.89	9.94	6.79	6.29	5.57	5.45	
26	5.58	5.77	5.57	5.64	10.36	7.70	5.99	9.80	6.41	6.21	5.55	5.48	
27	5.57	5.76	5.74	5.59	10.08	7.09	6.04	8.17	6.29	6.15	5.54	5.52	
28	5.56	5.67	5.65	6.26	11.04	6.69	5.90	7.38	6.24	6.10	5.56	5.66	
29	5.55	5.63	5.64	7.06	11.63	6.87	5.84	7.04	6.17	6.06	5.63	5.52	
30	5.72	5.60	5.61	6.01	11.51	7.21	6.41	6.72	6.13	6.15		5.48	
31		5.58		5.77	9.36		7.39		6.14	6.19		5.65	
Mean	6.10	5.93	5.95	5.68	6.78	7.50	6.42	6.83	6.68	6.93	5.74	5.67	
Max	9.47	7.34	7.78	7.06	11.63	13.43	9.01	9.94	8.53	9.76	6.11	6.59	13.43
Min	5.55	5.57	5.57	5.53	5.52	5.86	5.84	5.83	6.09	6.06	5.54	5.45	5.45
Annual Max Momentary Gage Height	13.53		m. (MSL.) ,			at 16.00 Hours , on Sep 12 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	4.64	m. (MSL)					
Left Bank Elevation	15.85		m. (MSL.) ,										
Right Bank Elevation	15.81		m. (MSL.) ,			Drainage Area	480	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.48	16.40	7.55	8.15	8.60	38.88	29.20	41.80	24.70	31.67	16.20	8.90	
2	52.00	12.65	9.50	8.15	7.55	28.30	24.25	25.15	22.00	118.80	14.60	7.55	
3	31.67	9.95	13.10	7.85	9.80	22.22	26.50	18.40	20.20	80.20	14.80	7.25	
4	23.80	16.80	24.02	8.45	9.05	18.80	26.73	15.60	18.80	47.75	13.25	7.25	
5	19.60	16.20	14.80	7.40	7.40	16.40	47.75	16.00	20.00	30.10	12.50	9.05	
6	18.40	15.80	12.95	7.25	7.10	15.40	89.85	39.55	17.80	24.70	12.05	26.28	
7	20.40	18.40	11.00	7.25	7.10	16.20	45.25	28.30	15.80	21.60	11.75	16.20	
8	15.80	11.30	9.65	7.10	7.10	13.25	30.32	18.80	15.80	20.20	11.60	10.10	
9	13.55	9.80	9.05	7.10	6.95	11.90	25.83	23.12	19.80	19.00	10.70	18.60	
10	12.50	9.65	13.10	7.10	6.95	21.80	22.22	17.60	15.80	20.20	10.10	15.60	
11	11.75	9.20	54.00	7.10	6.80	215.25	23.80	15.20	16.60	24.02	9.95	11.45	
12	11.00	9.65	27.40	6.95	6.95	429.90	21.40	17.00	26.05	27.40	9.80	9.80	
13	10.40	9.95	31.90	6.95	6.95	376.85	18.60	13.40	48.25	84.40	9.95	8.75	
14	9.80	8.75	20.20	7.55	7.10	209.25	17.00	12.50	75.40	81.70	10.10	8.15	
15	9.35	8.00	15.00	7.70	21.60	62.75	15.40	12.20	32.35	72.40	9.95	7.55	
16	9.20	7.55	13.25	12.20	11.30	35.95	14.00	15.60	28.53	41.13	9.65	7.10	
17	9.80	8.00	11.75	8.00	12.80	31.45	15.40	12.50	55.05	31.00	9.35	6.80	
18	12.80	14.40	12.65	7.10	9.20	32.12	14.20	11.60	60.55	29.65	9.05	7.40	
19	17.60	39.55	13.10	6.95	7.40	42.25	14.40	12.35	60.00	31.00	9.20	6.65	
20	27.40	43.15	11.60	7.10	9.95	60.00	16.40	11.45	42.25	31.22	9.20	7.40	
21	12.65	16.60	10.70	6.95	19.20	39.10	13.55	14.20	32.12	33.02	8.75	8.15	
22	10.40	14.00	9.35	6.95	18.60	29.87	13.10	50.75	27.85	35.27	8.60	6.65	
23	9.65	24.48	8.75	7.70	32.35	27.63	13.70	68.50	24.93	26.05	8.30	6.05	
24	9.05	13.55	8.30	8.60	14.00	22.45	12.20	102.10	29.42	21.80	7.70	5.75	
25	8.30	8.00	7.85	11.90	52.50	20.00	12.35	127.15	30.77	19.80	7.55	5.75	
26	7.70	10.55	7.55	8.60	148.00	52.00	13.85	120.50	22.22	18.20	7.25	6.20	
27	7.55	10.40	10.10	7.85	134.00	37.53	14.80	64.68	19.80	17.00	7.10	6.80	
28	7.40	9.05	8.75	19.20	192.00	28.53	12.50	44.05	18.80	16.00	7.40	8.90	
29	7.25	8.45	8.60	36.85	237.55	32.57	11.60	36.40	17.40	15.20	8.45	6.80	
30	9.80	8.00	8.15	14.20	227.80	40.23	22.22	29.20	16.60	17.00		6.20	
31		7.70		10.55	102.10		44.27		16.80	17.80		8.75	
Total	533.05	425.93	423.67	292.75	1355.75	2028.83	722.64	1035.65	892.44	1105.28	294.85	283.83	9394.67 CMSDAY
Mean	17.77	13.74	14.12	9.44	43.73	67.63	23.31	34.52	28.79	35.65	10.17	9.16	25.67 CMS
Max	106.48	43.15	54.00	36.85	237.55	429.90	89.85	127.15	75.40	118.80	16.20	26.28	429.90 CMS
Min	7.25	7.55	7.55	6.95	6.80	11.90	11.60	11.45	15.80	15.20	7.10	5.75	5.75 CMS
Runoff	46.06	36.80	36.61	25.29	117.14	175.29	62.44	89.48	77.11	95.50	25.48	24.52	811.70 MCM
Momentary Peak	442.90	CMS. at 13.53 m. (MSL.) at 16.00 Hours , on Sep 12 , 2011											
Runoff Yield	53.45	Liters/Second/Square KM.				Momentary Peak Yield	922.228	Liters/Second/Square KM.					

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST

Khlong Ta Kuaw Pa at Ban Hin Dan , Phang Nga (X.187)

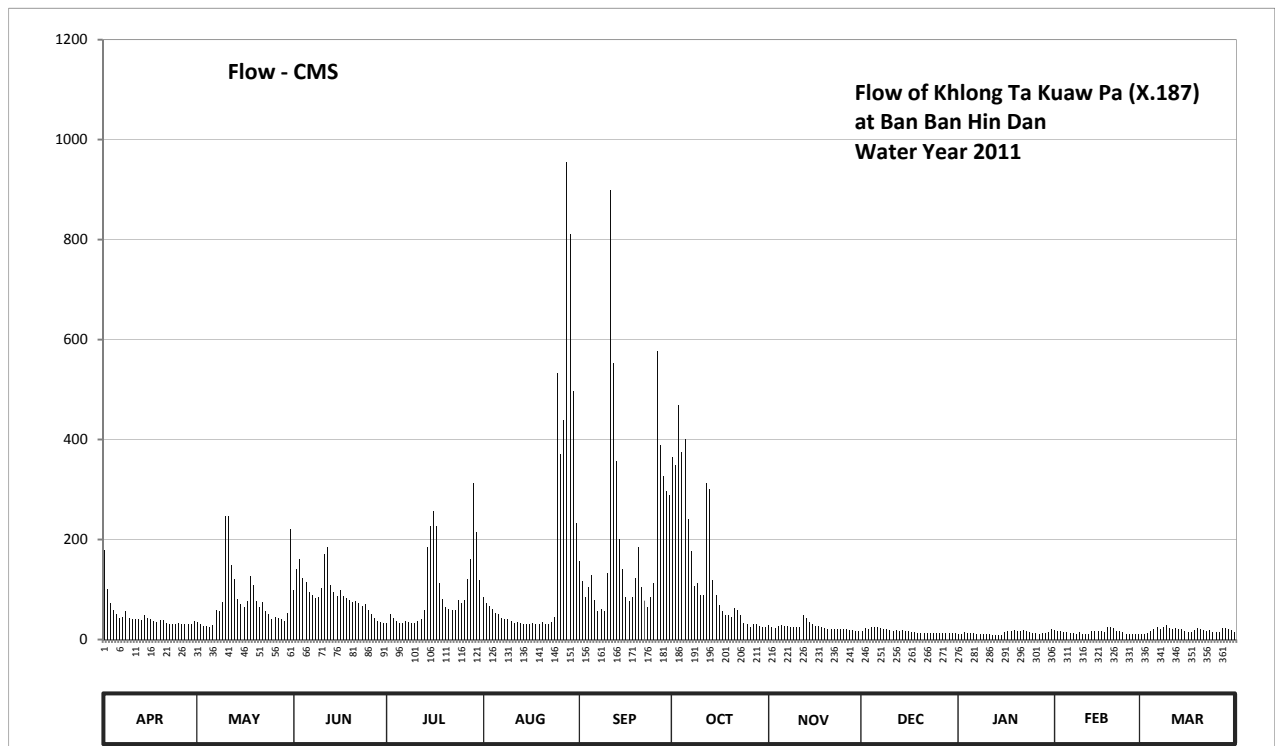
Lat 08 - 46 - 25 N Long 98 - 23 - 36 E

Location : on left bank at the bridge on Surat Thanu - Phang Nga Highway.

	Ban	Hin Dan	Amphoe	Ta Kuaw Pa	Changwat	Phang Nga
Drainage Area	546	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 4 meters from the top staff gage.				Elevation	+9.230 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.93	5.87	6.47	5.85	6.37	6.81	7.66	5.77	5.54	5.41	5.58	5.41	
2	6.48	5.81	6.73	6.08	6.29	6.59	7.60	5.70	5.67	5.42	5.51	5.41	
3	6.28	5.75	6.84	5.98	6.24	6.37	7.97	5.67	5.60	5.48	5.52	5.46	
4	6.17	5.73	6.63	5.89	6.18	6.51	7.69	5.73	5.69	5.45	5.50	5.52	
5	6.08	5.71	6.58	5.85	6.10	6.66	7.78	5.79	5.68	5.44	5.47	5.60	
6	5.99	5.77	6.44	5.84	6.08	6.33	7.22	5.75	5.68	5.43	5.44	5.69	
7	6.00	6.17	6.41	5.91	5.99	6.15	6.91	5.73	5.65	5.40	5.44	5.62	
8	6.14	6.15	6.36	5.88	5.95	6.18	6.53	5.70	5.61	5.40	5.41	5.72	
9	5.99	6.30	6.38	5.84	5.94	6.15	6.56	5.71	5.60	5.40	5.47	5.78	
10	5.95	7.24	6.50	5.84	5.90	6.68	6.40	5.72	5.58	5.38	5.41	5.66	
11	5.97	7.24	6.89	5.89	5.85	8.96	6.40	5.68	5.55	5.38	5.40	5.62	
12	5.95	6.77	6.95	5.95	5.88	8.18	7.48	6.05	5.59	5.36	5.40	5.65	
13	5.93	6.62	6.54	6.17	5.84	7.63	7.44	5.99	5.55	5.36	5.52	5.61	
14	6.05	6.35	6.44	6.95	5.82	7.03	6.61	5.86	5.56	5.35	5.54	5.60	
15	5.98	6.27	6.39	7.16	5.80	6.73	6.40	5.80	5.55	5.36	5.51	5.52	
16	5.96	6.22	6.47	7.28	5.81	6.38	6.26	5.75	5.53	5.48	5.53	5.48	
17	5.91	6.32	6.39	7.16	5.85	6.32	6.15	5.74	5.50	5.53	5.49	5.50	
18	5.86	6.65	6.36	6.57	5.82	6.37	6.06	5.70	5.47	5.51	5.69	5.58	
19	5.92	6.54	6.33	6.34	5.81	6.63	6.06	5.65	5.45	5.56	5.69	5.64	
20	5.93	6.32	6.30	6.23	5.87	6.95	6.00	5.63	5.45	5.54	5.66	5.60	
21	5.84	6.23	6.31	6.18	5.80	6.51	6.20	5.61	5.44	5.51	5.52	5.58	
22	5.82	6.30	6.28	6.17	5.80	6.32	6.16	5.60	5.44	5.59	5.53	5.55	
23	5.80	6.15	6.24	6.16	5.87	6.23	6.05	5.61	5.46	5.55	5.48	5.57	
24	5.81	6.07	6.27	6.33	6.01	6.38	5.85	5.60	5.45	5.49	5.42	5.49	
25	5.85	5.97	6.17	6.28	8.13	6.56	5.80	5.62	5.44	5.45	5.40	5.48	
26	5.82	6.02	6.07	6.33	7.68	8.24	5.72	5.63	5.45	5.43	5.40	5.49	
27	5.80	5.99	5.98	6.62	7.89	7.74	5.80	5.59	5.45	5.41	5.42	5.66	
28	5.81	5.95	5.91	6.83	9.07	7.53	5.80	5.58	5.46	5.45	5.40	5.67	
29	5.81	5.91	5.86	7.48	8.78	7.43	5.75	5.55	5.45	5.45	5.38	5.61	
30	5.89	6.09	5.84	7.10	8.04	7.40	5.70	5.55	5.44	5.47		5.56	
31		7.13		6.60	7.19		5.70		5.44	5.60		5.50	
Mean	5.99	6.25	6.38	6.35	6.44	6.86	6.51	5.70	5.53	5.45	5.49	5.58	
Max	6.93	7.24	6.95	7.48	9.07	8.96	7.97	6.05	5.69	5.60	5.69	5.78	9.07
Min	5.80	5.71	5.84	5.84	5.80	6.15	5.70	5.55	5.44	5.35	5.38	5.41	5.35
Annual Max Momentary Gage Height	9.20		m. (MSL.) , at 09.00 Hours , on Aug 28 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) , River Bed 4.53 m. (MSL)										
Left Bank Elevation	11.63		m. (MSL.) ,										
Right Bank Elevation	11.65		m. (MSL.) , Drainage Area 546 Square Kilometers										



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	180.00	34.90	98.50	33.50	84.10	156.00	365.40	28.50	17.30	11.45	19.10	11.45		
2	100.00	30.70	141.40	51.20	73.70	116.50	348.00	25.00	23.50	11.90	15.95	11.45		
3	72.40	27.50	162.00	42.60	67.20	84.10	468.90	23.50	20.00	14.60	16.40	13.70		
4	59.30	26.50	123.40	36.30	60.20	104.50	374.10	26.50	24.50	13.25	15.50	16.40		
5	51.20	25.50	115.00	33.50	53.00	128.80	400.20	29.50	24.00	12.80	14.15	20.00		
6	43.30	28.50	94.00	32.80	51.20	78.90	241.20	27.50	24.00	12.35	12.80	24.50		
7	44.00	59.30	89.50	37.70	43.30	57.50	176.00	26.50	22.50	11.00	12.80	21.00		
8	56.60	57.50	82.80	35.60	40.50	60.20	107.50	25.00	20.50	11.00	11.45	26.00		
9	43.30	75.00	85.40	32.80	39.80	57.50	112.00	25.50	20.00	11.00	14.15	29.00		
10	40.50	246.40	103.00	32.80	37.00	132.40	88.00	26.00	19.10	10.30	11.45	23.00		
11	41.90	246.40	172.00	36.30	33.50	900.00	88.00	24.00	17.75	10.30	11.00	21.00		
12	40.50	148.60	184.00	40.50	35.60	552.00	312.00	48.50	19.55	9.60	11.00	22.50		
13	39.10	121.60	109.00	59.30	32.80	356.70	300.00	43.30	17.75	9.60	16.40	20.50		
14	48.50	81.50	94.00	184.00	31.40	200.30	119.80	34.20	18.20	9.25	17.30	20.00		
15	42.60	71.10	86.70	227.60	30.00	141.40	88.00	30.00	17.75	9.60	15.95	16.40		
16	41.20	64.60	98.50	256.80	30.70	85.40	69.80	27.50	16.85	14.60	16.85	14.60		
17	37.70	77.60	86.70	227.60	33.50	77.60	57.50	27.00	15.50	16.85	15.05	15.50		
18	34.20	127.00	82.80	113.50	31.40	84.10	49.40	25.00	14.15	15.95	24.50	19.10		
19	38.40	109.00	78.90	80.20	30.70	123.40	49.40	22.50	13.25	18.20	24.50	22.00		
20	39.10	77.60	75.00	65.90	34.90	184.00	44.00	21.50	13.25	17.30	23.00	20.00		
21	32.80	65.90	76.30	60.20	30.00	104.50	62.00	20.50	12.80	15.95	16.40	19.10		
22	31.40	75.00	72.40	59.30	30.00	77.60	58.40	20.00	12.80	19.55	16.85	17.75		
23	30.00	57.50	67.20	58.40	34.90	65.90	48.50	20.50	13.70	17.75	14.60	18.65		
24	30.70	50.30	71.10	78.90	44.90	85.40	33.50	20.00	13.25	15.05	11.90	15.05		
25	33.50	41.90	59.30	72.40	532.00	112.00	30.00	21.00	12.80	13.25	11.00	14.60		
26	31.40	45.80	50.30	78.90	371.20	576.00	26.00	21.50	13.25	12.35	11.00	15.05		
27	30.00	43.30	42.60	121.60	439.30	388.60	30.00	19.55	13.25	11.45	11.90	23.00		
28	30.70	40.50	37.70	160.00	955.70	327.00	30.00	19.10	13.70	13.25	11.00	23.50		
29	30.70	37.70	34.20	312.00	810.80	297.00	27.50	17.75	13.25	13.25	10.30	20.50		
30	36.30	52.10	32.80	215.00	496.00	288.00	25.00	17.75	12.80	14.15		18.20		
31		221.30		118.00	233.90		25.00		12.80	20.00		15.50		
Total	1411.30	2468.10	2706.50	2995.20	4853.20	6003.30	4255.10	764.65	523.80	416.90	434.25	589.00	27421.30	CMSDAY
Mean	47.04	79.62	90.22	96.62	156.55	200.11	137.26	25.49	16.90	13.45	14.97	19.00	74.92	CMS
Max	180.00	246.40	184.00	312.00	955.70	900.00	468.90	48.50	24.50	20.00	24.50	29.00	955.70	CMS
Min	30.00	25.50	32.80	32.80	30.00	57.50	25.00	17.75	12.80	9.25	10.30	11.45	9.25	CMS
Runoff	121.94	213.24	233.84	258.79	419.32	518.69	367.64	66.07	45.26	36.02	37.52	50.89	2369.20	MCM
Momentary Peak	CMS. at 9.20 m. (MSL.) at 09.00 Hours , on Aug 28 , 2011													
Runoff Yield	137.22	Liters/Second/Square KM.			Momentary Peak Yield			1871.795	Liters/Second/Square KM.					

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST

Khlong Rommanee at Ban Rommanee , Phang Nga (X.188A)

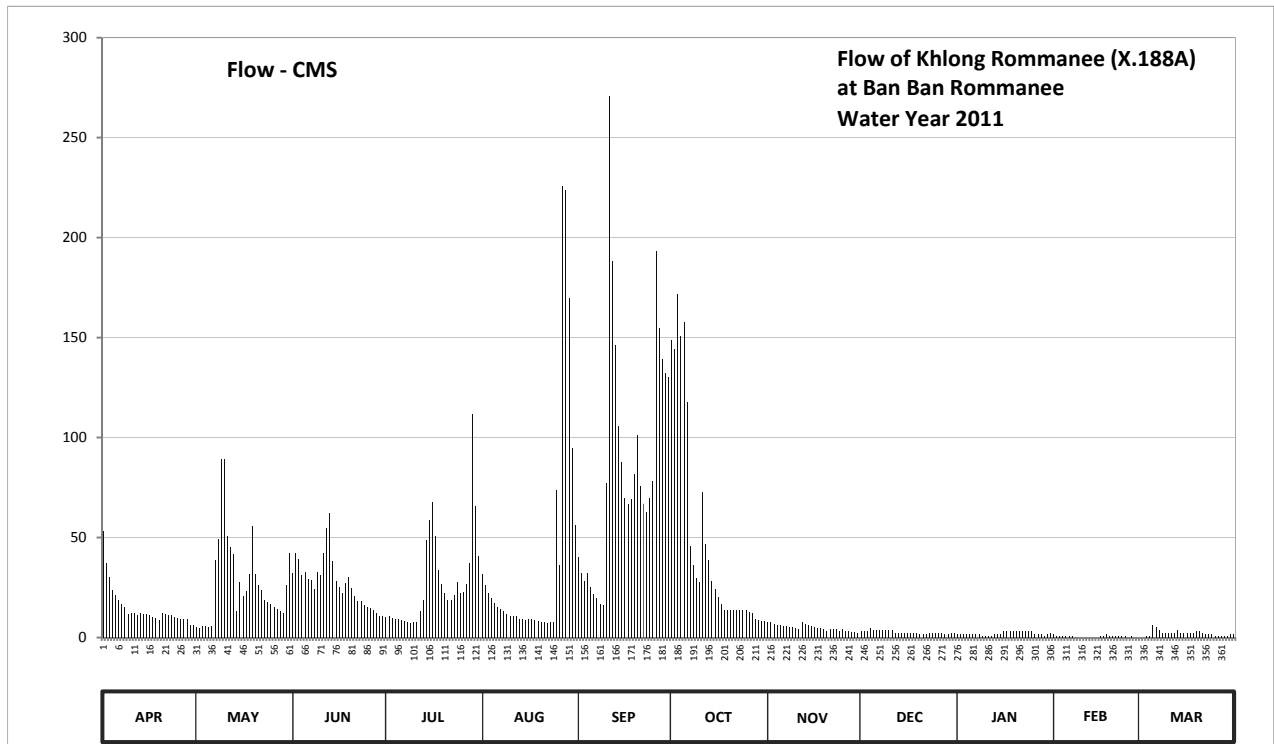
Lat 08 - 45 - 50 N Long 98 - 27 - 35 E

Location : on left bank at the bridge.

	Ban	Rommanee	Amphoe	Kapong	Changwat	Phang Nga
Drainage Area	232	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank at the abutmentof the bridge.				Elevation	+18.740 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2009 to date					
Rating Operation						
Period of Rating	2009 to date					
Rated by Flot	-					
Rated by Current Meter	2009 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +18.640 m.(MSL.), records are channel flow only.					
General Description	Records fair. Stage-discharge relation defined by 29 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.41	13.74	14.83	14.00	14.82	15.08	17.06	13.89	13.60	13.50	13.50	13.40	
2	15.00	13.71	15.13	14.04	14.65	14.84	17.00	13.87	13.60	13.50	13.45	13.40	
3	14.77	13.76	15.05	13.99	14.51	14.71	17.37	13.82	13.60	13.50	13.45	13.45	
4	14.56	13.78	14.81	13.95	14.41	14.83	17.09	13.80	13.70	13.50	13.45	13.45	
5	14.47	13.75	14.85	13.96	14.32	14.62	17.18	13.79	13.65	13.50	13.45	13.80	
6	14.39	13.78	14.74	13.94	14.24	14.49	16.62	13.77	13.65	13.50	13.45	13.75	
7	14.29	15.04	14.72	13.92	14.19	14.41	15.22	13.76	13.65	13.50	13.45	13.65	
8	14.24	15.31	14.57	13.88	14.14	14.30	14.97	13.75	13.65	13.50	13.40	13.55	
9	14.08	16.15	14.86	13.86	14.08	14.28	14.76	13.73	13.65	13.45	13.40	13.55	
10	14.10	16.15	14.80	13.88	14.04	15.94	14.70	13.72	13.65	13.45	13.40	13.55	
11	14.10	15.35	15.12	13.88	14.03	18.56	15.84	13.67	13.65	13.45	13.40	13.55	
12	14.06	15.21	15.44	14.14	14.04	17.58	15.25	13.87	13.55	13.45	13.40	13.55	
13	14.11	15.11	15.62	14.39	13.96	17.03	15.03	13.82	13.55	13.50	13.40	13.65	
14	14.08	14.15	15.02	15.29	13.97	16.43	14.71	13.80	13.55	13.50	13.40	13.55	
15	14.07	14.70	14.71	15.54	13.93	16.13	14.58	13.77	13.55	13.50	13.40	13.55	
16	14.06	14.45	14.62	15.74	13.96	15.78	14.44	13.74	13.55	13.60	13.45	13.55	
17	14.01	14.55	14.51	15.35	13.97	15.72	14.30	13.72	13.55	13.60	13.45	13.55	
18	13.99	14.82	14.68	14.89	13.93	15.77	14.17	13.72	13.55	13.60	13.50	13.55	
19	13.94	15.47	14.77	14.66	13.90	16.03	14.17	13.67	13.53	13.60	13.45	13.60	
20	14.09	14.82	14.59	14.50	13.87	16.35	14.17	13.62	13.50	13.60	13.45	13.60	
21	14.07	14.65	14.46	14.39	13.87	15.91	14.17	13.67	13.50	13.60	13.45	13.55	
22	14.05	14.56	14.37	14.39	13.86	15.72	14.17	13.67	13.50	13.60	13.45	13.50	
23	14.05	14.39	14.37	14.48	13.89	15.63	14.17	13.67	13.55	13.60	13.45	13.50	
24	14.02	14.34	14.28	14.70	13.88	15.78	14.17	13.62	13.55	13.60	13.45	13.50	
25	13.99	14.29	14.24	14.50	15.87	15.96	14.16	13.67	13.55	13.60	13.40	13.45	
26	13.97	14.24	14.21	14.53	14.97	17.64	14.12	13.62	13.55	13.50	13.45	13.45	
27	13.95	14.19	14.16	14.67	18.03	17.14	14.09	13.62	13.53	13.50	13.40	13.45	
28	13.95	14.14	14.09	15.00	18.01	16.93	13.96	13.57	13.50	13.50	13.40	13.45	
29	13.79	14.10	14.04	16.52	17.34	16.83	13.94	13.57	13.50	13.45	13.40	13.45	
30	13.81	14.65	14.03	15.69	16.24	16.80	13.92	13.56	13.53	13.50		13.51	
31		15.13		15.09	15.48		13.90		13.53	13.53		13.50	
Mean	14.18	14.60	14.66	14.57	14.66	15.91	14.95	13.72	13.57	13.53	13.43	13.53	
Max	15.41	16.15	15.62	16.52	18.03	18.56	17.37	13.89	13.70	13.60	13.50	13.80	18.56
Min	13.79	13.71	14.03	13.86	13.86	14.28	13.90	13.56	13.50	13.45	13.40	13.40	13.40
Annual Max Momentary Gage Height	18.74		m. (MSL.) ,			at 02.00 Hours , on Sep 11 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	12.84	m. (MSL)						
Left Bank Elevation		18.63		m. (MSL.) ,									
Right Bank Elevation		18.64		m. (MSL.) ,		Drainage Area	232	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	53.42	5.24	31.96	10.00	31.64	40.44	148.50	7.91	3.00	1.50	1.50	0.00		
2	37.40	4.76	42.34	10.88	26.35	32.28	144.00	7.53	3.00	1.50	0.75	0.00		
3	30.07	5.56	39.30	9.81	22.28	28.21	171.75	6.58	3.00	1.50	0.75	0.75		
4	23.68	5.88	31.32	9.05	19.48	31.96	150.75	6.20	4.60	1.50	0.75	0.75		
5	21.16	5.40	32.60	9.24	17.28	25.42	157.50	6.04	3.80	1.50	0.75	6.20		
6	18.96	5.88	29.14	8.86	15.36	21.72	117.76	5.72	3.80	1.50	0.75	5.40		
7	16.56	38.92	28.52	8.48	14.18	19.48	45.80	5.56	3.80	1.50	0.75	3.80		
8	15.36	49.40	23.96	7.72	13.08	16.80	36.44	5.40	3.80	1.50	0.00	2.25		
9	11.76	89.00	32.92	7.34	11.76	16.32	29.76	5.08	3.80	0.75	0.00	2.25		
10	12.20	89.00	31.00	7.72	10.88	77.18	27.90	4.92	3.80	0.75	0.00	2.25		
11	12.20	51.00	41.96	7.72	10.66	270.60	72.48	4.12	3.80	0.75	0.00	2.25		
12	11.32	45.40	54.68	13.08	10.88	188.40	47.00	7.53	2.25	0.75	0.00	2.25		
13	12.42	41.58	62.32	18.96	9.24	146.25	38.54	6.58	2.25	1.50	0.00	3.80		
14	11.76	13.30	38.16	48.60	9.43	105.86	28.21	6.20	2.25	1.50	0.00	2.25		
15	11.54	27.90	28.21	58.88	8.67	87.80	24.24	5.72	2.25	1.50	0.00	2.25		
16	11.32	20.60	25.42	67.84	9.24	69.68	20.32	5.24	2.25	3.00	0.75	2.25		
17	10.22	23.40	22.28	51.00	9.43	66.92	16.80	4.92	2.25	3.00	0.75	2.25		
18	9.81	31.64	27.28	33.88	8.67	69.22	13.74	4.92	2.25	3.00	1.50	2.25		
19	8.86	55.94	30.07	26.66	8.10	81.80	13.74	4.12	1.95	3.00	0.75	3.00		
20	11.98	31.64	24.52	22.00	7.53	101.00	13.74	3.32	1.50	3.00	0.75	3.00		
21	11.54	26.35	20.88	18.96	7.53	75.77	13.74	4.12	1.50	3.00	0.75	2.25		
22	11.10	23.68	18.48	18.96	7.34	66.92	13.74	4.12	1.50	3.00	0.75	1.50		
23	11.10	18.96	18.48	21.44	7.91	62.78	13.74	4.12	2.25	3.00	0.75	1.50		
24	10.44	17.76	16.32	27.90	7.72	69.68	13.74	3.32	2.25	3.00	0.75	1.50		
25	9.81	16.56	15.36	22.00	73.89	78.12	13.52	4.12	2.25	3.00	0.00	0.75		
26	9.43	15.36	14.64	22.84	36.44	193.20	12.64	3.32	2.25	1.50	0.75	0.75		
27	9.05	14.18	13.52	26.97	225.55	154.50	11.98	3.32	1.95	1.50	0.00	0.75		
28	9.05	13.08	11.98	37.40	223.85	139.10	9.24	2.55	1.50	1.50	0.00	0.75		
29	6.04	12.20	10.88	111.44	169.50	132.10	8.86	2.55	1.50	0.75	0.00	0.75		
30	6.39	26.35	10.66	65.54	94.40	130.00	8.48	2.40	1.95	1.50		1.65		
31		42.34		40.82	56.36		8.10		1.95	1.95		1.50		
Total	445.95	868.26	829.16	851.99	1184.63	2599.51	1446.75	147.55	80.25	58.20	14.25	62.85	8589.35	CMSDAY
Mean	14.87	28.01	27.64	27.48	38.21	86.65	46.67	4.92	2.59	1.88	0.49	2.03	23.47	CMS
Max	53.42	89.00	62.32	111.44	225.55	270.60	171.75	7.91	4.60	3.00	1.50	6.20	270.60	CMS
Min	6.04	4.76	10.66	7.34	7.34	16.32	8.10	2.40	1.50	0.75	0.00	0.00	0.00	CMS
Runoff	38.53	75.02	71.64	73.61	102.35	224.60	125.00	12.75	6.93	5.03	1.23	5.43	742.12	MCM
Momentary Peak	286.60 CMS. at 18.74 m. (MSL.) at 02.00 Hours , on Sep 11 , 2011													
Runoff Yield	101.03	Liters/Second/Square KM.			Momentary Peak Yield 1233.749			Liters/Second/Square KM.						

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Khlong Bang Yai at Ban Ket Ho , Phuket (X.190A)

Lat 07 - 54 - 13 N Long 98 - 21 - 02 E

Location : on left bank at Ban Ket Ho.

	Ban	Ket Ho	Amphoe	Kathu	Changwat	Phuket
Drainage Area	28	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+17.360 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2006 to date					
Rating Operation						
Period of Rating	2006 to date					
Rated by Flot	-					
Rated by Current Meter	2006 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.65	14.39	15.17	14.44	14.43	14.93	14.99	14.56	15.15	14.23	14.38	14.34	
2	15.18	14.33	15.44	14.49	14.40	14.75	15.00	14.47	15.16	14.24	14.37	14.33	
3	14.86	14.31	15.22	14.48	14.40	14.71	15.64	15.07	15.16	14.24	14.37	14.37	
4	14.44	14.31	15.19	14.47	14.40	15.21	15.48	15.12	15.22	14.25	14.36	14.41	
5	14.53	14.30	15.15	14.46	14.39	15.16	15.80	15.13	15.21	14.28	14.35	14.48	
6	14.57	14.30	15.07	14.41	14.41	14.96	15.49	15.07	15.19	14.27	14.34	14.37	
7	14.41	14.45	14.94	14.39	14.40	14.89	15.31	15.17	15.18	14.27	14.34	14.34	
8	14.68	14.38	14.47	14.36	14.37	14.77	15.28	15.13	15.17	14.31	14.35	14.41	
9	15.03	14.34	14.34	14.36	14.37	14.59	15.38	15.13	15.12	14.29	14.34	14.50	
10	14.87	14.39	14.30	14.36	14.36	14.55	15.26	15.13	15.07	14.30	14.34	14.39	
11	14.45	14.32	14.34	14.36	14.36	14.85	15.55	15.13	15.06	14.29	14.33	14.38	
12	14.46	14.32	14.45	14.45	14.36	15.09	15.73	15.12	15.12	14.30	14.32	14.37	
13	14.45	14.31	14.37	14.41	14.36	14.94	15.44	15.15	15.13	14.29	14.32	14.36	
14	14.43	14.31	14.32	14.51	14.36	14.74	15.39	15.28	14.95	14.28	14.33	14.32	
15	14.42	14.30	14.36	14.74	14.34	14.52	15.32	15.18	14.64	14.27	14.33	14.27	
16	14.39	14.30	14.36	15.16	14.33	14.45	15.29	15.18	14.88	14.26	14.32	14.25	
17	14.31	14.36	14.41	15.14	14.32	14.47	15.25	15.15	14.61	14.25	14.32	14.25	
18	14.33	14.45	14.60	14.81	14.58	14.51	15.23	15.17	14.84	14.35	14.32	14.24	
19	14.34	14.41	14.67	14.41	14.62	14.57	15.25	15.13	15.02	14.48	14.94	14.55	
20	14.38	14.38	14.63	14.40	14.45	14.57	15.19	15.12	14.92	14.43	14.55	14.90	
21	14.36	14.32	14.49	14.46	14.43	14.52	15.19	15.12	14.77	14.69	14.50	14.30	
22	14.33	14.31	14.40	14.56	14.46	14.48	15.16	15.11	14.70	15.08	14.43	14.28	
23	14.39	14.30	14.37	14.54	14.35	14.45	15.12	14.91	14.51	14.84	14.34	14.25	
24	14.34	14.30	14.38	14.62	15.14	14.43	15.16	14.94	14.36	14.63	14.35	14.24	
25	14.34	14.30	14.37	14.53	15.92	14.46	15.13	14.78	14.28	14.55	14.35	14.25	
26	14.32	14.32	14.37	14.50	15.51	14.95	14.63	14.98	14.26	14.40	14.34	14.37	
27	14.30	14.31	14.38	14.57	15.38	15.43	14.68	15.10	14.25	14.38	14.34	14.28	
28	14.30	14.31	14.43	14.56	15.42	15.19	14.58	15.13	14.25	14.38	14.33	14.27	
29	14.33	14.36	15.53	14.46	15.41	15.06	14.57	15.10	14.25	14.38	14.34	14.34	
30	14.33	14.34	14.80	14.46	15.24	14.97	14.56	15.17	14.24	14.36		14.64	
31		14.37		14.45	15.12		14.60		14.24	14.37		14.29	
Mean	14.48	14.34	14.64	14.53	14.66	14.77	15.18	15.06	14.80	14.39	14.38	14.37	
Max	15.18	14.45	15.53	15.16	15.92	15.43	15.80	15.28	15.22	15.08	14.94	14.90	15.92
Min	14.30	14.30	14.30	14.36	14.32	14.43	14.56	14.47	14.24	14.23	14.32	14.24	14.23
Annual Max Momentary Gage Height	16.73		m. (MSL.) ,				at 12.00 Hours , on Aug 25 , 2011						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	13.93	m. (MSL)					
Left Bank Elevation		17.32		m. (MSL.) ,									
Right Bank Elevation		17.32		m. (MSL.) ,		Drainage Area	28	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.02	0.39	3.41	0.50	0.48	1.99	2.25	0.80	3.27	0.14	0.37	0.31		
2	3.47	0.30	6.20	0.62	0.40	1.27	2.30	0.58	3.34	0.16	0.36	0.30		
3	1.67	0.27	3.79	0.60	0.40	1.17	10.00	2.75	3.34	0.16	0.36	0.36		
4	0.50	0.27	3.53	0.58	0.40	3.70	6.90	3.08	3.79	0.18	0.34	0.43		
5	0.72	0.25	3.27	0.55	0.39	3.34	14.00	3.15	3.70	0.22	0.33	0.60		
6	0.82	0.25	2.75	0.43	0.43	2.12	7.07	2.75	3.53	0.21	0.31	0.36		
7	0.43	0.52	2.03	0.39	0.40	1.81	4.65	3.41	3.47	0.21	0.31	0.31		
8	1.10	0.37	0.58	0.34	0.36	1.33	4.36	3.15	3.41	0.27	0.33	0.43		
9	2.49	0.31	0.31	0.34	0.36	0.87	5.31	3.15	3.08	0.24	0.31	0.65		
10	1.71	0.39	0.25	0.34	0.34	0.78	4.17	3.15	2.75	0.25	0.31	0.39		
11	0.52	0.28	0.31	0.34	0.34	1.63	8.13	3.15	2.69	0.24	0.30	0.37		
12	0.55	0.28	0.52	0.52	0.34	2.89	12.25	3.08	3.08	0.25	0.28	0.36		
13	0.52	0.27	0.36	0.43	0.34	2.03	6.20	3.27	3.15	0.24	0.28	0.34		
14	0.48	0.27	0.28	0.68	0.34	1.25	5.41	4.36	2.07	0.22	0.30	0.28		
15	0.45	0.25	0.34	1.25	0.31	0.70	4.74	3.47	1.00	0.21	0.30	0.21		
16	0.39	0.25	0.34	3.34	0.30	0.52	4.46	3.47	1.76	0.19	0.28	0.18		
17	0.27	0.34	0.43	3.21	0.28	0.58	4.08	3.27	0.92	0.18	0.28	0.18		
18	0.30	0.52	0.90	1.45	0.85	0.68	3.88	3.41	1.58	0.33	0.28	0.16		
19	0.31	0.43	1.07	0.43	0.95	0.82	4.08	3.15	2.43	0.60	2.03	0.78		
20	0.37	0.37	0.97	0.40	0.52	0.82	3.53	3.08	1.94	0.48	0.78	1.85		
21	0.34	0.28	0.62	0.55	0.48	0.70	3.53	3.08	1.33	1.12	0.65	0.25		
22	0.30	0.27	0.40	0.80	0.55	0.60	3.34	3.01	1.15	2.82	0.48	0.22		
23	0.39	0.25	0.36	0.75	0.33	0.52	3.08	1.89	0.68	1.58	0.31	0.18		
24	0.31	0.25	0.37	0.95	3.21	0.48	3.34	2.03	0.34	0.97	0.33	0.16		
25	0.31	0.25	0.36	0.72	17.84	0.55	3.15	1.35	0.22	0.78	0.33	0.18		
26	0.28	0.28	0.36	0.65	7.43	2.07	0.97	2.21	0.19	0.40	0.31	0.36		
27	0.25	0.27	0.37	0.82	5.31	6.03	1.10	2.95	0.18	0.37	0.31	0.22		
28	0.25	0.27	0.48	0.80	5.85	3.53	0.85	3.15	0.18	0.37	0.30	0.21		
29	0.30	0.34	7.77	0.55	5.68	2.69	0.82	2.95	0.18	0.37	0.31	0.31		
30	0.30	0.31	1.40	0.55	3.98	2.17	0.80	3.41	0.16	0.34		1.00		
31		0.36		0.52	3.08		0.90		0.16	0.36		0.24		
Total	21.12	9.71	44.13	24.40	62.27	49.64	139.65	85.71	59.07	14.46	11.77	12.18	534.11	CMSDAY
Mean	0.70	0.31	1.47	0.79	2.01	1.65	4.50	2.86						

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST

Khlong Bang Yai at Satree Phuket School , Phuket (X.191)

Lat 07 - 53 - 20 N Long 98 - 23 - 40 E

Location : on left bank at Satree Phuket School.

	Ban	-	Amphoe	Mueang	Changwat	Phuket
Drainage Area	54	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 8 meters from the top staff gage.				Elevation	+4.964 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.61	1.55	1.75	1.54	1.52	1.85	1.76	1.62	1.54	1.45	1.45	1.46	
2	1.64	1.48	2.54	1.55	1.50	1.80	1.69	1.63	1.54	1.47	1.44	1.45	
3	1.53	1.46	1.85	1.57	1.51	1.77	2.99	1.58	1.47	1.46	1.45	1.47	
4	1.52	1.48	1.72	1.55	1.47	2.67	2.77	1.54	1.63	1.46	1.45	1.66	
5	1.53	1.46	1.65	1.48	1.46	1.97	3.55	1.63	1.58	1.45	1.44	1.57	
6	1.55	1.46	1.57	1.49	1.46	1.81	2.71	1.79	1.51	1.45	1.45	1.57	
7	1.52	1.60	1.61	1.50	1.47	1.75	2.18	1.81	1.49	1.45	1.45	1.49	
8	1.51	1.49	1.59	1.49	1.48	1.73	2.48	1.63	1.48	1.45	1.44	1.52	
9	1.51	1.47	1.51	1.49	1.46	1.72	2.35	1.58	1.48	1.45	1.44	1.49	
10	1.51	1.62	1.55	1.49	1.43	1.70	2.05	1.58	1.48	1.45	1.44	1.50	
11	1.49	1.48	1.54	1.51	1.44	1.94	3.21	1.58	1.47	1.44	1.44	1.48	
12	1.48	1.54	1.54	1.53	1.44	2.03	3.21	1.78	1.58	1.45	1.44	1.46	
13	1.47	1.46	1.54	1.54	1.45	1.85	2.50	1.63	1.51	1.45	1.44	1.45	
14	1.47	1.46	1.53	1.66	1.43	1.78	2.19	1.81	1.47	1.45	1.43	1.46	
15	1.47	1.46	1.56	1.84	1.44	1.67	2.04	1.58	1.46	1.44	1.43	1.44	
16	1.52	1.45	1.51	1.76	1.44	1.65	1.89	1.57	1.57	1.47	1.43	1.44	
17	1.50	1.53	1.51	1.63	1.51	1.77	1.84	1.55	1.53	1.45	1.43	1.52	
18	1.48	1.91	1.50	1.56	1.45	1.72	1.92	1.54	1.52	1.45	1.53	1.48	
19	1.49	1.66	1.50	1.52	1.60	1.69	2.06	1.56	1.47	1.45	1.67	1.54	
20	1.47	1.54	1.48	1.51	1.52	1.83	1.84	1.54	1.48	1.45	1.50	1.53	
21	1.47	1.51	1.46	1.49	1.47	1.71	1.80	1.53	1.46	1.49	1.50	1.46	
22	1.47	1.50	1.44	1.52	1.54	1.65	1.84	1.55	1.46	1.52	1.46	1.45	
23	1.53	1.49	1.46	1.51	1.45	1.64	1.78	1.51	1.46	1.46	1.46	1.44	
24	1.47	1.46	1.44	1.64	2.00	1.65	1.79	1.55	1.47	1.46	1.45	1.44	
25	1.46	1.46	1.45	1.59	3.49	1.64	1.73	1.52	1.47	1.50	1.44	1.46	
26	1.45	1.45	1.46	1.54	2.67	2.08	1.72	1.51	1.47	1.76	1.44	1.57	
27	1.45	1.44	1.46	1.78	2.32	2.28	1.70	1.53	1.46	1.72	1.44	1.51	
28	1.45	1.44	1.45	1.62	2.23	2.01	1.67	1.57	1.47	1.72	1.46	1.50	
29	1.47	1.46	2.09	1.56	2.45	1.84	1.65	1.54	1.47	1.59	1.47	1.53	
30	1.54	1.58	1.56	1.56	2.08	1.76	1.66	1.53	1.46	1.67		1.47	
31		1.47		1.52	1.94		1.64		1.45	1.68		1.46	
Mean	1.50	1.51	1.59	1.57	1.71	1.83	2.14	1.60	1.50	1.50	1.46	1.49	
Max	1.64	1.91	2.54	1.84	3.49	2.67	3.55	1.81	1.63	1.76	1.67	1.66	3.55
Min	1.45	1.44	1.44	1.48	1.43	1.64	1.64	1.51	1.45	1.44	1.43	1.44	1.43
Annual Max Momentary Gage Height	4.18		m. (MSL.) ,			at 14.00 Hours , on Aug 25 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	1.15	m. (MSL)						
Left Bank Elevation	4.90		m. (MSL.) ,										
Right Bank Elevation	4.89		m. (MSL.) ,		Drainage Area	54	Square Kilometers						

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.18	0.87	2.30	0.83	0.74	3.30	2.38	1.26	0.83	0.43	0.43	0.47		
2	1.42	0.56	12.86	0.87	0.65	2.70	1.82	1.34	0.83	0.52	0.38	0.43		
3	0.78	0.47	3.30	0.97	0.69	2.46	17.97	1.01	0.52	0.47	0.43	0.52		
4	0.74	0.56	2.06	0.87	0.52	14.17	15.27	0.83	1.34	0.47	0.43	1.58		
5	0.78	0.47	1.50	0.56	0.47	4.74	26.45	1.34	1.01	0.43	0.38	0.97		
6	0.87	0.47	0.97	0.61	0.47	2.82	14.61	2.62	0.69	0.43	0.43	0.97		
7	0.74	1.10	1.18	0.65	0.52	2.30	9.51	2.82	0.61	0.43	0.43	0.61		
8	0.69	0.61	1.06	0.61	0.56	2.14	12.32	1.34	0.56	0.43	0.38	0.74		
9	0.69	0.52	0.69	0.61	0.47	2.06	11.20	1.01	0.56	0.43	0.38	0.61		
10	0.69	1.26	0.87	0.61	0.33	1.90	6.32	1.01	0.56	0.43	0.38	0.65		
11	0.61	0.56	0.83	0.69	0.38	4.38	21.05	1.01	0.52	0.38	0.38	0.56		
12	0.56	0.83	0.83	0.78	0.38	5.83	21.05	2.54	1.01	0.43	0.38	0.47		
13	0.52	0.47	0.83	0.83	0.43	3.30	12.50	1.34	0.69	0.43	0.38	0.43		
14	0.52	0.47	0.78	1.58	0.33	2.54	9.76	2.82	0.52	0.43	0.33	0.47		
15	0.52	0.47	0.92	3.18	0.38	1.66	6.08	1.01	0.47	0.38	0.33	0.38		
16	0.74	0.43	0.69	2.38	0.38	1.50	3.78	0.97	0.97	0.52	0.33	0.38		
17	0.65	0.78	0.69	1.34	0.69	2.46	3.18	0.87	0.78	0.43	0.33	0.74		
18	0.56	4.02	0.65	0.92	0.43	2.06	4.14	0.83	0.74	0.43	0.78	0.56		
19	0.61	1.58	0.65	0.74	1.10	1.82	6.57	0.92	0.52	0.43	1.66	0.83		
20	0.52	0.83	0.56	0.69	0.74	3.06	3.18	0.83	0.56	0.43	0.65	0.78		
21	0.52	0.69	0.47	0.61	0.52	1.98	2.70	0.78	0.47	0.61	0.65	0.47		
22	0.52	0.65	0.38	0.74	0.83	1.50	3.18	0.87	0.47	0.74	0.47	0.43		
23	0.78	0.61	0.47	0.69	0.43	1.42	2.54	0.69	0.47	0.47	0.47	0.38		
24	0.52	0.47	0.38	1.42	5.10	1.50	2.62	0.87	0.52	0.47	0.43	0.38		
25	0.47	0.47	0.43	1.06	25.43	1.42	2.14	0.74	0.52	0.65	0.38	0.47		
26	0.43	0.43	0.47	0.83	14.17	7.06	2.06	0.69	0.52	2.38	0.38	0.97		
27	0.43	0.38	0.47	2.54	10.96	10.64	1.90	0.78	0.47	2.06	0.38	0.69		
28	0.43	0.38	0.43	1.26	10.24	5.34	1.66	0.97	0.52	2.06	0.47	0.65		
29	0.52	0.47	7.30	0.92	12.05	3.18	1.50	0.83	0.52	1.06	0.52	0.78		
30	0.83	1.01	0.92	0.92	7.06	2.38	1.58	0.78	0.47	1.66		0.52		
31		0.52		0.74	4.38		1.42		0.43	1.74		0.47		
Total	19.84	23.41	45.94	32.05	101.83	103.62	232.44	35.72	19.67	22.66	13.75	19.36	670.29	CMSDAY
Mean	0.66	0.76	1.53	1.03	3.28	3.45	7.							

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Khlong Bang Tha at Mueang , Phuket (X.192)
Lat 07 - 50 - 16 N Long 98 - 21 - 05 E

Location : on left bank at the bridge.

	Ban	-	Amphoe	Mueang	Changwat	Phuket
Drainage Area	6	sq. km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank about 8 meters from the top staff gage.				Elevation	+6.000 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1996 to date					
Rating Operation						
Period of Rating	1996 to date					
Rated by Flot	-					
Rated by Current Meter	1996 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.32	3.19	3.19	3.25	3.29	3.35	3.35	3.38	3.31	3.28	3.18	3.16	
2	3.32	3.19	3.96	3.25	3.28	3.35	3.35	3.38	3.31	3.28	3.18	3.17	
3	3.32	3.21	3.73	3.25	3.28	3.35	3.59	3.38	3.31	3.28	3.18	3.17	
4	3.30	3.22	3.45	3.25	3.26	3.35	4.01	3.37	3.31	3.29	3.18	3.17	
5	3.30	3.22	3.44	3.25	3.24	3.35	4.55	3.33	3.31	3.29	3.18	3.17	
6	3.29	3.26	3.39	3.25	3.22	3.34	3.42	3.37	3.30	3.30	3.17	3.17	
7	3.29	3.27	3.35	3.25	3.21	3.32	3.32	3.36	3.30	3.30	3.17	3.17	
8	3.27	3.28	3.31	3.25	3.22	3.32	3.32	3.35	3.30	3.33	3.17	3.17	
9	3.27	3.31	3.30	3.25	3.21	3.32	3.32	3.35	3.30	3.32	3.17	3.17	
10	3.28	3.35	3.30	3.25	3.20	3.32	3.31	3.35	3.30	3.33	3.17	3.17	
11	3.27	3.30	3.29	3.24	3.19	3.37	3.30	3.35	3.29	3.35	3.16	3.18	
12	3.28	3.30	3.29	3.24	3.19	3.36	3.29	3.35	3.29	3.35	3.16	3.18	
13	3.28	3.30	3.28	3.24	3.18	3.35	3.28	3.34	3.29	3.40	3.16	3.18	
14	3.27	3.30	3.28	3.23	3.18	3.35	3.27	3.34	3.29	3.40	3.16	3.18	
15	3.25	3.30	3.28	3.23	3.18	3.35	3.26	3.34	3.29	3.40	3.16	3.18	
16	3.23	3.30	3.28	3.22	3.17	3.35	3.25	3.33	3.28	3.40	3.16	3.18	
17	3.23	3.30	3.27	3.21	3.17	3.35	3.24	3.33	3.28	3.40	3.15	3.18	
18	3.23	3.29	3.27	3.20	3.17	3.37	3.24	3.32	3.28	3.40	3.18	3.18	
19	3.22	3.29	3.26	3.20	3.17	3.36	3.24	3.32	3.28	3.40	3.18	3.18	
20	3.22	3.29	3.26	3.21	3.17	3.35	3.24	3.31	3.28	3.40	3.18	3.18	
21	3.22	3.29	3.25	3.22	3.17	3.29	3.23	3.31	3.27	3.40	3.18	3.18	
22	3.19	3.28	3.25	3.24	3.17	3.28	3.23	3.31	3.27	3.40	3.18	3.18	
23	3.19	3.28	3.27	3.24	3.22	3.28	3.23	3.30	3.27	3.40	3.17	3.18	
24	3.18	3.28	3.27	3.25	3.38	3.28	3.22	3.29	3.27	3.40	3.17	3.18	
25	3.18	3.23	3.26	3.26	4.93	3.28	3.21	3.29	3.27	3.40	3.17	3.18	
26	3.17	3.19	3.26	3.27	4.94	3.63	3.21	3.28	3.27	3.41	3.16	3.18	
27	3.17	3.18	3.26	3.30	4.83	3.82	3.21	3.28	3.27	3.39	3.16	3.18	
28	3.17	3.19	3.25	3.40	4.77	3.65	3.38	3.28	3.27	3.39	3.16	3.18	
29	3.23	3.18	3.25	3.37	5.26	3.33	3.38	3.28	3.27	3.39	3.16	3.18	
30	3.19	3.21	3.24	3.30	5.06	3.33	3.38	3.31	3.27	3.39		3.18	
31		3.22		3.29	4.76		3.38		3.27	3.18		3.18	
Mean	3.24	3.26	3.32	3.25	3.60	3.37	3.36	3.33	3.29	3.36	3.17	3.18	
Max	3.32	3.35	3.96	3.40	5.26	3.82	4.55	3.38	3.31	3.41	3.18	3.18	5.26
Min	3.17	3.18	3.19	3.20	3.17	3.28	3.21	3.28	3.27	3.18	3.15	3.16	3.15
Annual Max Momentary Gage Height	5.35		m. (MSL.) , at 18.00 Hours , on Aug 29 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) , River Bed 2.62 m. (MSL)										
Left Bank Elevation	6.05		m. (MSL.) ,										
Right Bank Elevation	6.02		m. (MSL.) , Drainage Area 6 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.76	0.22	0.22	0.45	0.63	0.88	0.88	1.01	0.71	0.58	0.19	0.14		
2	0.76	0.22	5.56	0.45	0.58	0.88	0.88	1.01	0.71	0.58	0.19	0.17		
3	0.76	0.28	3.64	0.45	0.58	0.88	2.53	1.01	0.71	0.58	0.19	0.17		
4	0.67	0.33	1.48	0.45	0.50	0.88	5.99	0.97	0.71	0.63	0.19	0.17		
5	0.67	0.33	1.40	0.45	0.41	0.88	11.03	0.80	0.71	0.63	0.19	0.17		
6	0.63	0.50	1.06	0.45	0.33	0.84	1.25	0.97	0.67	0.67	0.17	0.17		
7	0.63	0.54	0.88	0.45	0.28	0.76	0.76	0.93	0.67	0.67	0.17	0.17		
8	0.54	0.58	0.71	0.45	0.33	0.76	0.76	0.88	0.67	0.80	0.17	0.17		
9	0.54	0.71	0.67	0.45	0.28	0.76	0.76	0.88	0.67	0.76	0.17	0.17		
10	0.58	0.88	0.67	0.45	0.24	0.76	0.71	0.88	0.67	0.80	0.17	0.17		
11	0.54	0.67	0.63	0.41	0.22	0.97	0.67	0.88	0.63	0.88	0.14	0.19		
12	0.58	0.67	0.63	0.41	0.22	0.93	0.63	0.88	0.63	0.88	0.14	0.19		
13	0.58	0.67	0.58	0.41	0.19	0.88	0.58	0.84	0.63	1.10	0.14	0.19		
14	0.54	0.67	0.58	0.37	0.19	0.88	0.54	0.84	0.63	1.10	0.14	0.19		
15	0.45	0.67	0.58	0.37	0.19	0.88	0.50	0.84	0.63	1.10	0.14	0.19		
16	0.37	0.67	0.58	0.33	0.17	0.88	0.45	0.80	0.58	1.10	0.14	0.19		
17	0.37	0.67	0.54	0.28	0.17	0.88	0.41	0.80	0.58	1.10	0.12	0.19		
18	0.37	0.63	0.54	0.24	0.17	0.97	0.41	0.76	0.58	1.10	0.19	0.19		
19	0.33	0.63	0.50	0.24	0.17	0.93	0.41	0.76	0.58	1.10	0.19	0.19		
20	0.33	0.63	0.50	0.28	0.17	0.88	0.41	0.71	0.58	1.10	0.19	0.19		
21	0.33	0.63	0.45	0.33	0.17	0.63	0.37	0.71	0.54	1.10	0.19	0.19		
22	0.22	0.58	0.45	0.41	0.17	0.58	0.37	0.71	0.54	1.10	0.19	0.19		
23	0.22	0.58	0.54	0.41	0.33	0.58	0.37	0.67	0.54	1.10	0.17	0.19		
24	0.19	0.58	0.54	0.45	1.01	0.58	0.33	0.63	0.54	1.10	0.17	0.19		
25	0.19	0.37	0.50	0.50	14.86	0.58	0.28	0.63	0.54	1.10	0.17	0.19		
26	0.17	0.22	0.50	0.54	14.97	2.84	0.28	0.58	0.54	1.18	0.14	0.19		
27	0.17	0.19	0.50	0.67	13.81	4.37	0.28	0.58	0.54	1.06	0.14	0.19		
28	0.17	0.22	0.45	1.10	13.20	3.00	1.01	0.58	0.54	1.06	0.14	0.19		
29	0.37	0.19	0.45	0.97	18.33	0.80	1.01	0.58	0.54	1.06	0.14	0.19		
30	0.22	0.28	0.41	0.67	16.23	0.80	1.01	0.71	0.54	1.06		0.19		
31		0.33		0.63	13.10		1.01		0.54	0.19		0.19		
Total	13.25	15.34	26.74	14.52	112.20	32.12	36.88	23.83	18.89	28.37	4.78	5.66	332.58	CMSDAY
Mean	0.44	0.49	0.89	0.47	3.62	1.07	1.19	0.79						

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Khlong Kapong at Ban Tha Na , Phang Nga (X.196)
Lat 08 - 42 - 02 N Long 98 - 24 - 42 E

Location : on left bank at the bridge.

	Ban	Tha Na	Amphoe	Kapong	Changwat	Phang Nga
Drainage Area	139	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the top staff gage.				Elevation	+20.010 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	1999 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.67	15.97	16.57	16.09	16.37	16.60	17.40	16.00	15.78	15.67	15.68	15.62	
2	16.51	15.94	17.32	16.08	16.32	16.55	17.20	16.00	15.88	15.74	15.67	15.62	
3	16.24	15.92	16.78	16.07	16.23	16.44	17.52	16.00	15.80	15.70	15.66	15.69	
4	16.05	15.90	16.54	16.06	16.17	16.37	17.34	16.00	15.89	15.66	15.65	15.69	
5	16.10	15.92	16.52	16.04	16.10	16.30	17.31	16.00	15.88	15.64	15.66	15.96	
6	16.11	16.02	16.45	16.02	16.02	16.25	16.93	16.00	15.87	15.66	15.66	15.90	
7	16.12	16.71	16.33	15.99	16.02	16.19	16.69	16.00	15.86	15.66	15.66	15.96	
8	16.08	16.68	16.27	15.95	16.03	16.15	16.66	16.00	15.84	15.66	15.66	16.15	
9	16.06	16.65	16.22	15.93	16.03	16.12	16.56	16.00	15.82	15.66	15.66	16.09	
10	16.04	17.08	16.42	15.90	16.03	16.86	16.45	15.98	15.80	15.66	15.65	16.16	
11	16.02	17.04	16.57	16.00	16.02	17.80	16.60	15.88	15.80	15.66	15.65	16.06	
12	16.00	16.84	16.54	16.38	16.02	17.39	17.27	16.13	15.79	15.66	15.64	15.87	
13	16.01	16.44	16.39	16.20	16.01	16.78	16.72	15.93	15.78	15.66	15.64	15.87	
14	16.05	16.32	16.34	16.39	16.00	16.56	16.55	15.95	15.76	15.66	15.64	15.82	
15	16.01	16.21	16.34	16.61	15.99	16.43	16.47	15.92	15.76	15.66	15.64	16.09	
16	16.00	16.26	16.44	16.88	15.98	16.38	16.37	15.87	15.76	15.70	15.64	15.83	
17	16.00	16.37	16.42	16.50	15.97	16.34	16.30	15.86	15.76	15.70	15.64	15.85	
18	16.06	16.38	16.40	16.34	15.96	16.37	16.27	15.85	15.76	15.75	15.75	16.28	
19	15.95	16.30	16.38	16.26	15.96	17.07	16.20	15.85	15.76	15.75	15.80	15.96	
20	15.94	16.24	16.36	16.19	15.95	16.72	16.18	15.84	15.76	15.84	15.76	15.92	
21	15.90	16.18	16.36	16.15	15.94	16.44	16.15	15.81	15.76	15.86	15.69	15.80	
22	15.90	16.16	16.36	16.15	16.08	16.36	16.10	15.80	15.76	15.86	15.67	15.80	
23	15.90	16.14	16.53	16.22	16.40	16.31	16.10	15.82	15.76	15.79	15.62	15.80	
24	15.90	16.11	16.35	16.30	16.14	16.30	16.09	15.80	15.76	15.80	15.62	15.78	
25	15.90	16.07	16.24	16.27	18.43	17.16	16.08	15.80	15.75	15.78	15.62	15.77	
26	15.89	16.06	16.20	16.25	16.88	17.66	16.06	15.80	15.74	15.76	15.62	15.76	
27	15.91	16.06	16.16	16.21	17.99	17.10	16.04	15.79	15.72	15.76	15.62	15.80	
28	15.94	16.06	16.10	16.22	18.40	16.95	16.02	15.79	15.70	15.73	15.62	15.84	
29	15.94	16.06	16.15	16.45	17.78	17.01	16.00	15.79	15.68	15.69	15.62	15.83	
30	16.02	16.13	16.10	16.47	17.08	16.89	16.00	15.79	15.68	15.69		15.82	
31		16.86		16.40	16.75		16.02		15.68	15.78		15.80	
Mean	16.04	16.29	16.41	16.22	16.42	16.66	16.50	15.90	15.78	15.72	15.66	15.88	
Max	16.67	17.08	17.32	16.88	18.43	17.80	17.52	16.13	15.89	15.86	15.80	16.28	18.43
Min	15.89	15.90	16.10	15.90	15.94	16.12	16.00	15.79	15.68	15.64	15.62	15.62	15.62
Annual Max Momentary Gage Height	18.90		m. (MSL.) ,				at 18.00 Hours , on Aug 27 , 2011						
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	14.69	m. (MSL)					
Left Bank Elevation		19.93		m. (MSL.) ,									
Right Bank Elevation		19.91		m. (MSL.) ,		Drainage Area	139	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.48	12.42	33.30	16.17	25.50	34.50	77.00	13.20	7.55	5.07	5.30	3.95	
2	30.90	11.64	71.80	15.84	23.82	32.50	64.00	13.20	10.08	6.65	5.07	3.95	
3	21.14	11.12	42.15	15.51	20.80	28.10	85.70	13.20	8.00	5.75	4.85	5.52	
4	14.85	10.60	32.10	15.18	18.81	25.50	73.10	13.20	10.34	4.85	4.62	5.52	
5	16.50	11.12	31.30	14.52	16.50	23.15	71.15	13.20	10.08	4.40	4.85	12.16	
6	16.83	13.86	28.50	13.86	13.86	21.47	49.50	13.20	9.82	4.85	4.85	10.60	
7	17.16	39.17	24.15	12.94	13.86	19.47	38.33	13.20	9.56	4.85	4.85	12.16	
8	15.84	37.90	22.15	11.90	14.19	18.15	37.05	13.20	9.04	4.85	4.85	18.15	
9	15.18	36.62	20.47	11.38	14.19	17.16	32.90	13.20	8.52	4.85	4.85	16.17	
10	14.52	57.40	27.30	10.60	14.19	46.00	28.50	12.68	8.00	4.85	4.62	18.48	
11	13.86	55.20	33.30	13.20	13.86	108.00	34.50	10.08	8.00	4.85	4.62	15.18	
12	13.20	45.00	32.10	25.83	13.86	76.35	68.55	17.49	7.77	4.85	4.40	9.82	
13	13.53	28.10	26.16	19.80	13.53	42.15	39.60	11.38	7.55	4.85	4.40	9.82	
14	14.85	23.82	24.49	26.16	13.20	32.90	32.50	11.90	7.10	4.85	4.40	8.52	
15	13.53	20.13	24.49	34.93	12.94	27.70	29.30	11.12	7.10	4.85	4.40	16.17	
16	13.20	21.81	28.10	47.00	12.68	25.83	25.50	9.82	7.10	5.75	4.40	8.78	
17	13.20	25.50	27.30	30.50	12.42	24.49	23.15	9.56	7.10	5.75	4.40	9.30	
18	15.18	25.83	26.50	24.49	12.16	25.50	22.15	9.30	7.10	6.87	6.87	22.48	
19	11.90	23.15	25.83	21.81	12.16	56.85	19.80	9.30	7.10	6.87	8.00	12.16	
20	11.64	21.14	25.16	19.47	11.90	39.60	19.14	9.04	7.10	9.04	7.10	11.12	
21	10.60	19.14	25.16	18.15	11.64	28.10	18.15	8.26	7.10	9.56	5.52	8.00	
22	10.60	18.48	25.16	18.15	15.84	25.16	16.50	8.00	7.10	9.56	5.07	8.00	
23	10.60	17.82	31.70	20.47	26.50	23.48	16.50	8.52	7.10	7.77	3.95	8.00	
24	10.60	16.83	24.83	23.15	17.82	23.15	16.17	8.00	7.10	8.00	3.95	7.55	
25	10.60	15.51	21.14	22.15	174.75	61.80	15.84	8.00	6.87	7.55	3.95	7.33	
26	10.34	15.18	19.80	21.47	47.00	96.45	15.18	8.00	6.65	7.10	3.95	7.10	
27	10.86	15.18	18.48	20.13	125.10	58.50	14.52	7.77	6.20	7.10	3.95	8.00	
28	11.64	15.18	16.50	20.47	171.00	50.50	13.86	7.77	5.75	6.42	3.95	9.04	
29	11.64	15.18	18.15	28.50	106.35	53.55	13.20	7.77	5.30	5.52	3.95	8.78	
30	13.86	17.49	16.50	29.30	57.40	47.50	13.20	7.77	5.30	5.52		8.52	
31		46.00		26.50	40.88		13.86		5.30	7.55			

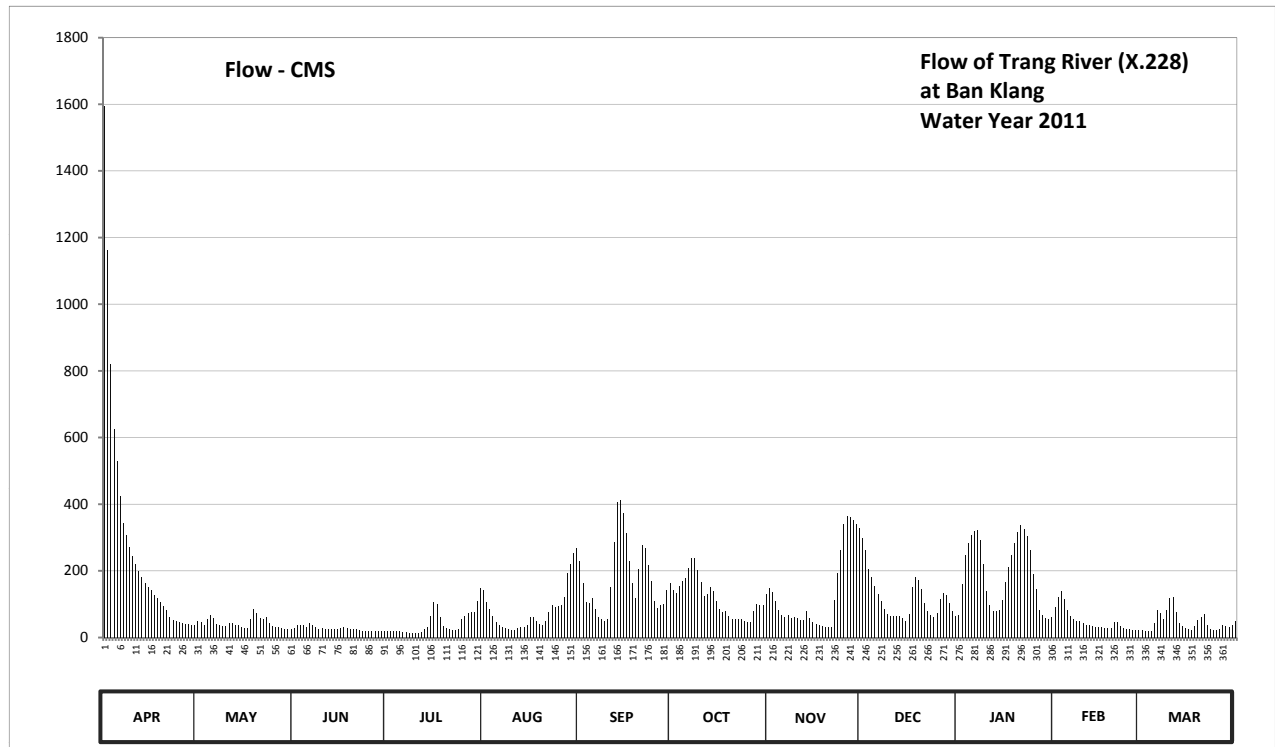
WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Trang River at Ban Klang , Trang (X.228)
Lat 07 - 38 - 45 N Long 99 - 31 - 59 E

Location : on left bank at Ban Klang.

	Ban	Klang	Amphoe	Mueang	Changwat	Trang
Drainage Area	1,374	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+11.741 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 39 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.97	4.11	3.50	3.19	6.10	7.36	6.09	6.21	8.03	4.52	5.09	3.27	
2	10.41	4.02	3.76	3.15	5.39	6.48	5.96	6.03	7.71	6.40	5.69	3.21	
3	9.82	3.84	3.82	3.13	4.95	5.43	6.29	5.45	7.06	7.55	6.08	3.17	
4	9.38	4.24	3.79	3.22	4.50	5.37	6.56	4.86	6.73	7.91	5.59	3.22	
5	9.10	4.51	3.65	3.13	4.04	5.62	6.69	4.57	6.29	8.11	4.88	3.94	
6	8.72	4.35	3.93	3.07	3.77	4.93	7.09	4.44	5.86	8.21	4.46	4.90	
7	8.36	3.90	3.82	3.04	3.62	4.43	7.47	4.51	5.47	8.22	4.27	4.68	
8	8.10	3.81	3.57	2.97	3.50	4.24	7.46	4.34	4.96	7.98	4.14	4.23	
9	7.79	3.73	3.45	2.94	3.40	4.13	7.03	4.38	4.61	7.26	4.08	4.87	
10	7.52	3.71	3.47	2.92	3.34	4.23	6.51	4.32	4.47	6.07	3.93	5.63	
11	7.24	3.97	3.43	2.92	3.32	6.26	5.79	4.17	4.50	5.19	3.83	5.69	
12	6.96	3.96	3.42	3.09	3.48	7.93	5.88	4.16	4.47	4.81	3.78	4.75	
13	6.73	3.85	3.44	3.37	3.62	8.66	6.28	4.79	4.46	4.81	3.70	3.95	
14	6.48	3.77	3.45	3.63	3.59	8.68	6.06	4.31	4.32	4.84	3.65	3.66	
15	6.27	3.63	3.45	4.47	3.85	8.51	5.46	4.05	4.13	5.52	3.60	3.50	
16	6.09	3.55	3.52	5.43	4.37	8.15	4.97	3.89	4.61	6.52	3.59	3.41	
17	5.83	3.53	3.58	5.29	4.38	7.37	4.73	3.79	6.28	7.13	3.54	3.34	
18	5.64	4.28	3.53	4.41	4.14	6.44	4.81	3.70	6.74	7.54	3.52	3.68	
19	5.39	4.97	3.42	3.74	3.90	5.67	4.47	3.64	6.61	7.91	3.52	4.17	
20	5.15	4.68	3.39	3.54	3.79	7.04	4.28	3.61	6.13	8.18	4.06	4.37	
21	4.89	4.31	3.36	3.38	4.08	7.85	4.25	3.63	5.33	8.32	4.02	4.59	
22	4.43	4.27	3.26	3.27	4.74	7.78	4.23	5.52	4.81	8.25	3.66	3.76	
23	4.20	4.38	3.20	3.29	5.19	7.20	4.23	6.92	4.52	8.08	3.49	3.45	
24	4.10	3.99	3.15	3.45	5.06	6.53	4.11	7.70	4.44	7.69	3.41	3.32	
25	4.00	3.75	3.21	4.23	5.14	5.48	4.02	8.34	4.71	6.87	3.39	3.27	
26	3.96	3.61	3.23	4.48	5.18	5.03	4.01	8.48	5.60	6.18	3.33	3.37	
27	3.92	3.59	3.14	4.65	5.70	5.20	4.79	8.45	5.96	4.90	3.29	3.81	
28	3.89	3.52	3.13	4.72	6.88	5.29	5.26	8.41	5.84	4.56	3.27	3.70	
29	3.83	3.44	3.15	4.75	7.26	6.09	5.19	8.35	5.33	4.36	3.23	3.57	
30	3.80	3.40	3.17	5.50	7.63	6.48	5.21	8.26	4.80	4.28		3.85	
31		3.39		6.21	7.76		5.89		4.48	4.37		4.08	
Mean	6.43	3.94	3.45	3.83	4.70	6.33	5.52	5.44	5.46	6.53	4.00	3.95	
Max	10.97	4.97	3.93	6.21	7.76	8.68	7.47	8.48	8.03	8.32	6.08	5.69	10.97
Min	3.80	3.39	3.13	2.92	3.32	4.13	4.01	3.61	4.13	4.28	3.23	3.17	2.92
Annual Max Momentary Gage Height	11.18		m. (MSL.) ,		at 01.00 Hours , on Apr 1 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	1.23	m. (MSL)						
Left Bank Elevation	12.16		m. (MSL.) ,										
Right Bank Elevation	12.21		m. (MSL.) ,		Drainage Area	1374	Square Kilometers						



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1594.50	49.40	28.00	19.70	142.00	229.80	141.40	148.60	298.40	66.40	92.10	21.70		
2	1162.20	45.80	35.80	18.80	105.50	164.80	134.00	137.80	263.00	160.00	120.50	20.20		
3	820.50	38.60	37.80	18.30	85.70	107.50	153.40	108.50	205.80	247.30	140.80	19.30		
4	624.80	54.60	36.70	20.50	65.50	104.60	169.60	81.70	181.10	284.60	115.50	20.50		
5	529.00	66.00	32.50	18.30	46.60	117.00	178.30	68.70	153.40	307.60	82.60	42.60		
6	424.80	59.00	42.20	16.70	36.10	84.80	208.20	62.80	129.00	319.60	63.70	83.50		
7	343.60	41.00	37.80	16.00	31.60	62.30	239.60	66.00	109.50	321.20	55.80	73.60		
8	306.50	37.40	30.10	14.30	28.00	54.60	238.70	58.60	86.20	292.70	50.60	54.20		
9	271.00	34.90	26.50	13.50	25.00	50.20	203.40	60.20	70.50	221.80	48.20	82.10		
10	244.40	34.30	27.10	13.00	23.50	54.20	166.60	57.80	64.10	140.20	42.20	117.50		
11	220.20	43.80	25.90	13.00	23.00	151.60	125.50	51.80	65.50	96.60	38.20	120.50		
12	198.00	43.40	25.60	17.20	27.40	286.90	130.00	51.40	64.10	79.40	36.40	76.70		
13	181.10	39.00	26.20	24.20	31.60	407.40	152.80	78.50	63.70	79.40	34.00	43.00		
14	164.80	36.10	26.50	31.90	30.70	413.20	139.60	57.40	57.80	80.80	32.50	32.80		
15	152.20	31.90	26.50	64.10	39.00	372.00	109.00	47.00	50.20	112.00	31.00	28.00		
16	141.40	29.50	28.60	107.50	59.80	312.20	86.60	40.60	70.50	167.20	30.70	25.30		
17	127.50	28.90	30.40	101.10	60.20	230.60	75.90	36.70	152.80	211.40	29.20	23.50		
18	118.00	56.20	28.90	61.40	50.60	162.40	79.40	34.00	181.80	246.30	28.60	33.40		
19	105.50	86.60	25.60	35.20	41.00	119.50	64.10	32.20	172.70	284.60	28.60	51.80		
20	94.80	73.60	24.70	29.20	36.70	204.20	56.20	31.30	143.80	315.70	47.40	59.80		
21	83.00	57.40	24.00	24.50	48.20	277.70	55.00	31.90	102.90	337.20	45.80	69.60		
22	62.30	55.80	21.50	21.70	76.30	270.00	54.20	112.00	79.40	326.00	32.80	35.80		
23	53.00	60.20	20.00	22.20	96.60	217.00	54.20	195.00	66.40	304.20	27.70	26.50		
24	49.00	44.60	18.80	26.50	90.70	167.80	49.40	262.00	62.80	261.00	25.30	23.00		
25	45.00	35.50	20.20	54.20	94.30	110.00	45.80	340.40	75.00	191.20	24.70	21.70		
26	43.40	31.30	20.70	64.60	96.10	89.40	45.40	366.00	116.00	146.80	23.20	24.20		
27	41.80	30.70	18.50	72.30	121.00	97.00	78.50	360.00	134.00	83.50	22.20	37.40		
28	40.60	28.60	18.30	75.40	192.00	101.10	99.70	352.00	128.00	68.20	21.70	34.00		
29	38.20	26.20	18.80	76.70	221.80	141.40	96.60	342.00	102.90	59.40	20.70	30.10		
30	37.00	25.00	19.30	111.00	255.00	164.80	97.50	327.60	79.00	56.20		39.00		
31		24.70		148.60	268.00		130.50		64.60	59.80		48.20		
Total	8318.10	1350.00	803.50	1351.60	2549.50	5326.00	3659.10	4000.50	3594.90	5928.30	1392.70	1419.50	39693.70	CMSDAY
Mean	277.30	43.50	26.80	43.60	82.20	177.50	118.00	133.40	116.00	191.20	48.00	45.80	108.50	CMS
Max	1594.50	86.60	42.20	148.60	268.00	413.20	239.60	366.00	298.40	337.20	140.80	120.50	1594.50	CMS
Min	37.00	24.70	18.30	13.00	23.00	50.20	45.40	31.30	50.20	56.20	20.70	19.30	13.00	CMS
Runoff	718.68	116.64	69.42	116.78	220.28	460.17	316.15	345.64	310.60	512.21	120.33	122.64	3429.54	MCM
Momentary Peak	1782.00 CMS. at 11.18 m. (MSL.) at 01.00 Hours , on Apr 1 , 2011													
Runoff Yield	78.93	Liters/Second/Square KM.			Momentary Peak Yield			1296.943	Liters/Second/Square KM.					

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST

Khlong Nang Noi at Ban Khaow Saae (2) , Trang (X.229)

Lat 07 - 32 - 53 N Long 99 - 44 - 40 E

Location : on left bank at Ban Khaow Saae 2.

	Ban	Khaow Saae 2	Amphoe	Na Yong	Changwat	Trang
Drainage Area	158	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the gage site.				Elevation	+32.452 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2003 to date					
Rating Operation						
Period of Rating	2003 to date					
Rated by Flot	-					
Rated by Current Meter	2003 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 36 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.03	28.80	28.84	28.72	29.01	29.16	29.50	29.97	29.33	30.17	29.36	29.09	
2	29.77	28.84	28.83	28.72	29.02	29.08	29.41	29.16	29.28	30.24	29.27	29.07	
3	29.74	28.87	28.81	28.73	29.04	29.16	29.52	29.32	29.24	29.71	29.25	29.06	
4	29.53	28.94	28.80	28.75	28.94	29.35	29.48	29.21	29.26	29.52	29.23	29.07	
5	29.42	28.85	28.79	28.76	28.86	29.16	29.41	29.22	29.21	29.42	29.21	29.15	
6	29.27	28.98	28.77	28.70	28.70	29.10	29.37	29.18	29.18	29.37	29.19	29.13	
7	29.28	28.84	28.76	28.70	28.65	29.10	29.32	29.20	29.16	29.34	29.18	29.05	
8	29.24	28.83	28.76	28.71	28.63	29.07	29.28	29.18	29.14	29.30	29.19	29.10	
9	29.23	28.81	28.76	28.68	28.63	29.01	29.25	29.15	29.13	29.29	29.17	29.08	
10	29.20	28.81	28.75	28.69	28.63	29.22	29.21	29.14	29.13	29.36	29.16	29.15	
11	29.17	28.82	28.75	28.78	28.63	31.06	29.25	29.18	29.31	29.40	29.16	29.07	
12	29.15	28.82	28.75	28.80	28.65	30.53	29.22	29.12	29.24	29.58	29.14	29.07	
13	29.06	28.80	28.79	28.81	28.63	29.57	29.16	29.11	29.16	29.48	29.14	29.07	
14	29.05	28.79	28.95	28.93	29.09	29.35	29.18	29.12	29.12	29.39	29.15	29.03	
15	29.09	28.80	28.84	29.08	29.03	29.22	29.18	29.19	29.14	29.65	29.14	29.04	
16	29.10	28.85	28.82	28.75	28.81	29.21	29.21	29.16	29.92	29.40	29.13	29.03	
17	29.08	28.85	28.82	28.76	28.97	29.20	29.50	29.13	30.02	29.28	29.13	29.00	
18	29.09	28.80	28.80	28.92	28.90	29.17	29.19	29.12	29.76	29.26	29.12	29.01	
19	29.09	28.81	28.79	28.68	28.68	29.25	29.20	29.10	29.54	29.24	29.10	29.01	
20	29.00	28.85	28.79	28.65	28.74	29.53	29.22	29.12	29.46	29.55	29.10	29.00	
21	28.97	28.86	28.78	28.65	29.13	29.35	29.15	30.15	29.38	29.43	29.10	29.07	
22	28.96	28.85	28.76	28.65	29.07	29.28	29.15	30.31	29.38	29.40	29.08	29.01	
23	28.92	28.80	28.75	28.66	29.09	29.26	29.11	30.06	29.31	29.31	29.07	29.00	
24	28.89	28.79	28.73	28.69	29.01	29.20	29.12	30.58	29.30	29.30	29.06	29.00	
25	28.86	28.82	28.73	28.80	29.00	29.11	29.11	30.40	29.43	29.26	29.05	29.00	
26	28.86	28.87	28.73	29.01	29.07	29.08	29.13	29.68	29.33	29.25	29.10	28.99	
27	28.86	28.85	28.78	29.01	29.80	29.89	29.14	29.62	29.32	29.22	29.03	29.01	
28	28.85	28.80	28.73	29.02	30.41	29.32	29.38	29.51	29.29	29.21	29.05	29.00	
29	28.85	28.79	28.74	29.08	29.58	29.46	29.24	29.42	29.25	29.20	29.08	29.00	
30	28.85	28.78	28.73	29.03	29.41	29.37	29.53	29.36	29.29	29.22		29.00	
31		28.80		29.02	29.24		30.16		29.41	29.43		29.00	
Mean	29.15	28.83	28.78	28.80	29.00	29.36	29.30	29.44	29.34	29.43	29.14	29.04	
Max	30.03	28.98	28.95	29.08	30.41	31.06	30.16	30.58	30.02	30.24	29.36	29.15	31.06
Min	28.85	28.78	28.73	28.65	28.63	29.01	29.11	29.10	29.12	29.20	29.03	28.99	28.63
Annual Max Momentary Gage Height	31.24		m. (MSL.) ,			at 18.00 Hours , on Sep 11 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	28.47	m. (MSL)					
Left Bank Elevation		34.06		m. (MSL.) ,									
Right Bank Elevation		33.95		m. (MSL.) ,		Drainage Area	158	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.24	1.30	1.50	0.94	2.35	1.78	3.90	7.46	2.78	9.31	2.96	1.39	
2	6.52	1.50	1.45	0.94	2.40	1.34	3.27	1.78	2.48	10.06	2.42	1.28	
3	6.34	1.65	1.35	0.98	2.50	1.78	4.04	2.72	2.24	5.42	2.30	1.23	
4	5.08	2.00	1.30	1.08	2.00	2.90	3.76	2.06	2.36	4.04	2.18	1.28	
5	4.42	1.55	1.26	1.12	1.60	1.78	3.27	2.12	2.06	3.34	2.06	1.72	
6	3.65	2.20	1.17	0.85	0.85	1.45	3.02	1.89	1.89	3.02	1.94	1.61	
7	3.70	1.50	1.12	0.85	0.62	1.45	2.72	2.00	1.78	2.84	1.89	1.17	
8	3.50	1.45	1.12	0.89	0.53	1.28	2.48	1.89	1.67	2.60	1.94	1.45	
9	3.45	1.35	1.12	0.76	0.53	0.96	2.30	1.72	1.61	2.54	1.83	1.34	
10	3.30	1.35	1.08	0.81	0.53	2.12	2.06	1.67	1.61	2.96	1.78	1.72	
11	3.15	1.40	1.08	1.21	0.53	23.60	2.30	1.89	2.66	3.20	1.78	1.28	
12	3.05	1.40	1.08	1.30	0.62	13.92	2.12	1.56	2.24	4.46	1.67	1.28	
13	2.60	1.30	1.26	1.35	0.53	4.39	1.78	1.51	1.78	3.76	1.67	1.28	
14	2.55	1.26	2.05	1.95	2.75	2.90	1.89	1.56	1.56	3.14	1.72	1.07	
15	2.75	1.30	1.50	2.70	2.45	2.12	1.89	1.94	1.67	4.97	1.67	1.12	
16	2.80	1.55	1.40	1.08	1.35	2.06	2.06	1.78	7.06	3.20	1.61	1.07	
17	2.70	1.55	1.40	1.12	2.15	2.00	3.90	1.61	7.89	2.48	1.61	0.90	
18	2.75	1.30	1.30	1.90	1.80	1.83	1.94	1.56	5.80	2.36	1.56	0.96	
19	2.75	1.35	1.26	0.76	0.76	2.30	2.00	1.45	4.18	2.24	1.45	0.96	
20	2.30	1.55	1.26	0.62	1.03	4.11	2.12	1.56	3.62	4.25	1.45	0.90	
21	2.15	1.60	1.21	0.62	2.95	2.90	1.72	9.12	3.08	3.41	1.45	1.28	
22	2.10	1.55	1.12	0.62	2.65	2.48	1.72	10.86	3.08	3.20	1.34	0.96	
23	1.90	1.30	1.08	0.67	2.75	2.36	1.51	8.27	2.66	2.66	1.28	0.90	
24	1.75	1.26	0.98	0.81	2.35	2.00	1.56	14.69	2.60	2.60	1.23	0.90	
25	1.60	1.40	0.98	1.30	2.30	1.51	1.51	11.90	3.41	2.36	1.17	0.90	
26	1.60	1.65	0.98	2.35	2.65	1.34	1.61	5.20	2.78	2.30	1.45	0.85	
27	1.60	1.55	1.21	2.35	6.70	6.82	1.67	4.75	2.72	2.12	1.07	0.96	
28	1.55	1.30	0.98	2.40	12.06	2.72	3.08	3.97	2.54	2.06	1.17	0.90	
29	1.55	1.26	1.03	2.70	4.46	3.62	2.24	3.34	2.30	2.00	1.34	0.90	
30	1.55	1.21	0.98	2.45	3.27	3.02	4.11	2.96	2.54	2.12		0.90	
31		1.30		2.40	2.24		9.22		3.27	3.41		0.90	
Total	92.95	45.19	36.61	41.88	72.26	104.84	82.77	116.79	89.92	108.43	48.99	35.36	875.99 CMSDAY
Mean	3.10	1.46	1.22	1.35	2.33	3.49	2.67	3.89					

	Ban	Pa Mak	Amphoe	Mueang	Changwat	Trang
Drainage Area	2,808	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+6.388 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	Overbank flow starts at elevation +6.660 m.(MSL.), records are channel flow only.					
General Description	Records good. Stage-discharge relation defined by 52 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.02	1.35	1.05	0.89	2.99	4.21	3.16	2.98	4.78	1.85	1.93	0.65	
2	6.63	1.41	1.16	0.94	2.71	3.78	3.03	2.98	4.52	2.82	2.41	0.59	
3	6.25	1.32	1.31	0.99	2.47	3.01	3.04	2.63	4.15	3.78	2.78	0.53	
4	5.87	1.52	1.29	0.98	2.05	2.45	3.16	2.13	3.63	4.16	2.72	0.56	
5	5.56	1.72	1.20	0.94	1.66	2.64	3.25	1.80	3.36	4.42	2.22	0.88	
6	5.36	1.69	1.22	0.96	1.39	2.23	3.53	1.70	3.07	4.61	1.81	1.86	
7	5.22	1.48	1.32	0.93	1.12	1.69	3.82	1.69	2.68	4.74	1.67	2.05	
8	5.09	1.25	1.11	0.87	0.93	1.52	3.97	1.66	2.34	4.67	1.54	1.82	
9	4.96	1.13	0.96	0.78	0.76	1.43	3.84	1.61	2.02	4.31	1.52	2.05	
10	4.80	1.11	0.91	0.64	0.77	1.52	3.46	1.66	1.84	3.58	1.46	2.56	
11	4.53	1.13	0.83	0.56	0.85	2.70	3.04	1.61	1.84	2.82	1.46	2.81	
12	4.05	1.24	0.90	0.72	0.97	3.95	2.87	1.56	1.86	2.29	1.45	2.36	
13	3.42	1.23	0.99	0.97	1.13	4.83	2.99	1.92	1.82	2.15	1.22	1.67	
14	2.84	1.22	1.07	1.15	1.19	5.70	2.97	1.77	1.75	2.14	1.13	1.28	
15	2.40	1.19	1.08	1.59	1.28	5.66	2.67	1.49	1.61	2.37	0.95	1.01	
16	2.15	1.12	1.22	2.38	1.53	5.25	2.25	1.32	1.79	3.01	0.86	0.83	
17	2.01	1.12	1.18	2.52	1.69	4.48	2.00	1.19	2.85	3.48	0.79	0.73	
18	2.09	1.41	1.15	2.08	1.57	3.80	1.96	1.08	3.41	3.79	0.77	0.83	
19	2.15	1.91	1.06	1.46	1.37	3.20	1.76	0.97	3.48	4.09	0.90	1.28	
20	2.11	2.03	0.99	1.24	1.18	3.70	1.51	0.93	3.26	4.39	1.19	1.60	
21	2.12	1.78	0.83	1.09	1.23	4.16	1.43	0.98	2.75	4.74	1.49	1.92	
22	1.96	1.54	0.82	1.17	1.49	4.35	1.41	1.97	2.23	4.88	1.30	1.55	
23	1.65	1.57	0.78	0.88	2.07	4.17	1.46	3.25	1.95	4.77	1.10	1.25	
24	1.43	1.37	0.63	0.86	2.11	3.64	1.44	3.93	1.86	4.52	1.05	1.14	
25	1.28	1.16	0.61	1.20	2.06	2.98	1.46	4.49	1.94	3.95	0.99	1.10	
26	1.16	0.88	0.52	1.61	2.18	2.46	1.47	5.03	2.42	3.14	1.04	1.13	
27	1.09	0.83	0.56	1.78	2.51	2.41	1.81	5.24	2.84	2.43	0.92	1.27	
28	1.08	0.82	0.62	1.86	3.35	2.56	2.25	5.21	2.89	2.00	0.92	1.33	
29	1.08	0.85	0.77	1.89	3.80	2.95	2.32	5.12	2.63	1.78	0.72	1.00	
30	1.14	0.92	0.80	2.28	4.08	3.24	2.29	4.99	2.20	1.62		0.98	
31		1.00		2.87	4.21		2.69		1.87	1.57		1.43	
Mean	3.28	1.30	0.96	1.33	1.89	3.36	2.53	2.50	2.63	3.38	1.39	1.36	
Max	7.02	2.03	1.32	2.87	4.21	5.70	3.97	5.24	4.78	4.88	2.78	2.81	7.02
Min	1.08	0.82	0.52	0.56	0.76	1.43	1.41	0.93	1.61	1.57	0.72	0.53	0.52
Annual Max Momentary Gage Height	7.14		m. (MSL.) , at 08.00 Hours , on Apr 1 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) , River Bed -2.11 m. (MSL)										
Left Bank Elevation	6.65		m. (MSL.) ,										
Right Bank Elevation	6.68		m. (MSL.) , Drainage Area 2808 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	610.70	42.75	30.75	25.15	129.40	225.95	141.20	128.80	283.90	65.50	69.50	16.75	
2	540.25	45.45	34.60	26.90	112.60	188.40	132.10	128.80	256.60	119.20	94.60	14.70	
3	477.25	41.40	40.95	28.65	98.20	130.70	132.80	107.80	220.25	188.40	116.80	12.90	
4	419.80	50.40	40.05	28.30	75.50	97.00	141.20	79.50	176.40	221.20	113.20	13.80	
5	377.00	59.40	36.00	26.90	56.70	108.40	147.50	63.00	155.20	246.10	84.10	24.80	
6	352.00	58.05	36.90	27.60	44.55	84.65	168.40	58.50	134.90	266.05	63.50	66.00	
7	334.50	48.60	41.40	26.55	33.20	58.05	191.60	58.05	110.80	279.70	57.15	75.50	
8	318.80	38.25	32.85	24.45	26.55	50.40	203.60	56.70	90.70	272.35	51.30	64.00	
9	303.60	33.55	27.60	21.30	20.60	46.35	193.20	54.45	74.00	235.45	50.40	75.50	
10	286.00	32.85	25.85	16.40	20.95	50.40	162.80	56.70	65.00	172.40	47.70	103.60	
11	257.65	33.55	23.05	13.80	23.75	112.00	132.80	54.45	65.00	119.20	47.70	118.60	
12	210.75	37.80	25.50	19.20	27.95	202.00	122.20	52.20	66.00	87.95	47.25	91.80	
13	159.60	37.35	28.65	27.95	33.55	289.30	129.40	69.00	64.00	80.50	36.90	57.15	
14	120.40	36.90	31.45	34.25	35.65	396.00	128.20	61.65	60.75	80.00	33.55	39.60	
15	94.00	35.65	31.80	53.55	39.60	390.40	110.20	49.05	54.45	92.35	27.25	29.35	
16	80.50	33.20	36.90	92.90	50.85	338.25	85.75	41.40	62.55	130.70	24.10	23.05	
17	73.50	33.20	35.30	101.20	58.05	252.40	73.00	35.65	121.00	164.40	21.65	19.55	
18	77.50	45.45	34.25	77.00	52.65	190.00	71.00	31.80	158.80	189.20	20.95	23.05	
19	80.50	68.50	31.10	47.70	43.65	144.00	61.20	27.95	164.40	214.55	25.50	39.60	
20	78.50	74.50	28.65	37.80	35.30	182.00	49.95	26.55	148.20	243.05	35.65	54.00	
21	79.00	62.10	23.05	32.15	37.35	221.20	46.35	28.30	115.00	279.70	49.05	69.00	
22	71.00	51.30	22.70	34.95	49.05	239.25	45.45	71.50	84.65	294.80	40.50	51.75	
23	56.25	52.65	21.30	24.80	76.50	222.15	47.70	147.50	70.50	282.85	32.50	38.25	
24	46.35	43.65	16.05	24.10	78.50	177.20	46.80	200.40	66.00	256.60	30.75	33.90	
25	39.60	34.60	15.35	36.00	76.00	128.80	47.70	253.45	70.00	202.00	28.65	32.50	
26	34.60	24.80	12.60	54.45	82.00	97.60	48.15	311.60	95.20	139.80	30.40	33.55	
27	32.15	23.05	13.80	62.10	100.60	94.60	63.50	337.00	120.40	95.80	26.20	39.15	
28	31.80	22.70	15.70	66.00	154.50	103.60	85.75	333.25	123.40	73.00	26.20	41.85	
29	31.80	23.75	20.95	67.50	190.00	127.00	89.60	322.40	107.80	62.10	19.20	29.00	

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Khlong Lam Phikul at Ban Pak Khlong , Trang (X.235)

Lat 07 - 24 - 37 N Long 99 - 46 - 00 E

Location : on right bank at Ban Pak Khlong.

	Ban	Pak Khlong	Amphoe	Yan Ta Khaow	Changwat	Trang
Drainage Area	116	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank at the abutment of the bridge.				Elevation	+16.603 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 36 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.45	9.09	9.05	9.09	9.27	9.83	9.53	9.78	9.64	10.70	9.67	8.83	
2	10.29	9.08	9.14	9.08	9.26	9.76	9.64	9.56	9.64	10.26	9.50	8.83	
3	10.18	9.10	9.15	9.11	9.28	9.70	9.87	9.48	9.54	9.81	9.24	8.82	
4	9.96	9.19	9.17	9.17	9.22	9.58	9.81	9.42	9.49	9.65	9.15	8.81	
5	9.83	9.20	9.23	9.10	9.17	9.50	9.63	9.51	9.48	9.45	9.11	8.81	
6	9.77	9.15	9.27	9.06	9.14	9.50	9.66	9.57	9.41	9.41	9.09	8.89	
7	9.75	9.13	9.20	9.04	9.14	9.47	9.82	9.37	9.36	9.39	9.08	9.11	
8	9.63	9.11	9.19	9.03	9.12	9.40	9.82	9.39	9.34	9.53	9.07	8.81	
9	9.58	9.09	9.15	9.02	9.12	9.38	9.83	9.40	9.40	9.60	9.06	8.75	
10	9.58	9.07	9.15	9.01	9.12	9.88	9.80	9.31	9.38	9.72	9.06	8.89	
11	9.53	9.10	9.20	9.00	9.14	11.67	9.60	9.36	9.49	9.71	9.02	8.94	
12	9.49	9.12	9.17	9.14	9.27	12.19	9.87	9.32	9.63	9.89	9.01	8.88	
13	9.42	9.10	9.34	9.18	9.20	10.66	10.11	9.27	9.33	10.12	9.01	8.88	
14	9.33	9.06	9.36	9.22	9.27	10.20	10.21	9.40	9.18	10.11	9.00	8.89	
15	9.31	9.04	9.32	9.47	9.46	10.01	10.31	9.49	9.36	9.83	9.00	8.93	
16	9.31	9.04	9.33	9.45	9.33	9.81	10.39	9.44	10.24	9.45	9.00	8.94	
17	9.34	9.04	9.39	9.26	9.34	9.73	10.29	9.34	10.12	9.50	8.98	8.96	
18	9.36	9.08	9.42	9.18	9.22	9.69	9.70	9.32	9.81	9.61	8.95	8.95	
19	10.03	9.18	9.42	9.12	9.26	9.97	9.54	9.34	9.62	9.49	9.09	8.94	
20	9.45	9.22	9.43	9.07	9.48	10.47	9.47	9.38	9.57	9.82	8.96	8.87	
21	9.35	9.38	9.22	9.05	9.69	10.23	9.41	10.48	9.47	9.92	8.90	8.94	
22	9.33	9.28	9.18	9.07	9.55	10.11	9.38	10.49	9.48	9.64	8.88	9.03	
23	9.30	9.23	9.14	9.20	9.68	9.89	9.36	10.64	9.39	9.49	8.88	9.07	
24	9.27	9.20	9.11	9.27	9.64	9.75	9.53	11.03	9.45	9.40	8.86	9.10	
25	9.24	9.26	9.09	9.21	10.14	9.69	9.62	11.55	9.54	9.34	8.84	8.99	
26	9.21	9.22	9.09	9.25	10.43	9.67	9.57	10.62	9.41	9.30	8.84	8.80	
27	9.22	9.22	9.08	9.26	10.63	9.66	9.44	10.25	9.37	9.28	8.84	8.64	
28	9.19	9.29	9.08	9.24	10.74	9.64	9.45	10.05	9.32	9.34	8.84	8.72	
29	9.13	9.28	9.08	9.33	10.92	9.63	9.56	9.90	9.33	9.46	8.83	8.78	
30	9.12	9.15	9.06	9.36	10.49	9.69	9.97	9.75	9.34	9.49		8.80	
31		9.09		9.32	10.08		9.91		9.52	9.72		8.80	
Mean	9.53	9.15	9.21	9.17	9.57	9.95	9.75	9.77	9.50	9.66	9.03	8.88	
Max	10.45	9.38	9.43	9.47	10.92	12.19	10.39	11.55	10.24	10.70	9.67	9.11	12.19
Min	9.12	9.04	9.05	9.00	9.12	9.38	9.36	9.27	9.18	9.28	8.83	8.64	8.64
Annual Max Momentary Gage Height	13.28		m. (MSL.) , at 01.00 Hours , on Sep 12 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) , River Bed 8.29 m. (MSL)										
Left Bank Elevation	16.61		m. (MSL.) ,										
Right Bank Elevation	16.59		m. (MSL.) , Drainage Area 116 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	38.00	5.99	5.33	5.99	9.10	20.92	14.16	19.74	16.52	46.15	17.21	2.37	
2	33.16	5.82	6.81	5.82	8.91	19.28	16.52	14.78	16.52	32.27	13.55	2.37	
3	29.95	6.15	6.97	6.31	9.28	17.90	21.88	13.14	14.37	20.44	8.54	2.25	
4	24.04	7.63	7.31	7.31	8.17	15.19	20.44	11.91	13.34	16.75	6.97	2.13	
5	20.92	7.80	8.35	6.15	7.31	13.55	16.29	13.76	13.14	12.53	6.31	2.13	
6	19.51	6.97	9.10	5.49	6.81	13.55	16.98	14.98	11.71	11.71	5.99	3.13	
7	19.05	6.65	7.80	5.16	6.81	12.94	20.68	10.95	10.76	11.32	5.82	6.31	
8	16.29	6.31	7.63	4.99	6.48	11.50	20.68	11.32	10.39	14.16	5.65	2.13	
9	15.19	5.99	6.97	4.83	6.48	11.13	20.92	11.50	11.50	15.60	5.49	1.50	
10	15.19	5.65	6.97	4.67	6.48	22.12	20.20	9.84	11.13	18.36	5.49	3.13	
11	14.16	6.15	7.80	4.50	6.81	81.33	15.60	10.76	13.34	18.13	4.83	3.75	
12	13.34	6.48	7.31	6.81	9.10	101.99	21.88	10.02	16.29	22.36	4.67	3.00	
13	11.91	6.15	10.39	7.47	7.80	44.81	28.02	9.10	10.21	28.30	4.67	3.00	
14	10.21	5.49	10.76	8.17	9.10	30.50	30.80	11.50	7.47	28.02	4.50	3.13	
15	9.84	5.16	10.02	12.94	12.73	25.28	33.75	13.34	10.76	20.92	4.50	3.63	
16	9.84	5.16	10.21	12.53	10.21	20.44	36.11	12.32	31.68	12.53	4.50	3.75	
17	10.39	5.16	11.32	8.91	10.39	18.59	33.16	10.39	28.30	13.55	4.25	4.00	
18	10.76	5.82	11.91	7.47	8.17	17.67	17.90	10.02	20.44	15.83	3.87	3.87	
19	25.82	7.47	11.91	6.48	8.91	24.28	14.37	10.39	16.06	13.34	5.99	3.75	
20	12.53	8.17	12.12	5.65	13.14	38.64	12.94	11.13	14.98	20.68	4.00	2.87	
21	10.58	11.13	8.17	5.33	17.67	31.38	11.71	38.96	12.94	23.08	3.25	3.75	
22	10.21	9.28	7.47	5.65	14.58	28.02	11.13	39.28	13.14	16.52	3.00	4.99	
23	9.65	8.35	6.81	7.80	17.44	22.36	10.76	44.14	11.32	13.34	3.00	5.65	
24	9.10	7.80	6.31	9.10	16.52	19.05	14.16	57.59	12.53	11.50	2.75	6.15	
25	8.54	8.91	5.99	7.99	28.85	17.67	16.06	76.75	14.37	10.39	2.50	4.37	
26	7.99	8.17	5.99	8.73	37.36	17.21	14.98	43.47	11.71	9.65	2.50	2.00	
27	8.17	8.17	5.82	8.91	43.80	16.98	12.32	31.98	10.95	9.28	2.50	0.40	
28	7.63	9.47	5.82	8.54	47.49	16.52	12.53	26.38	10.02	10.39	2.50	1.20	
29	6.65	9.28	5.82	10.21	53.70	16.29	14.78	22.60	10.21	12.73	2.37	1.80	
30	6.48	6.97	5.49	10.76	39.28	17.67	24.28	19.05	10.39	13.34		2.00	
31		5.99		10.02	27.20		22.84		13.96	18.36		2.00	
Total	445.10	219.69	24										

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Khlong Ton at Ban Ton , Satun (X.237)
Lat 06 - 51 - 20 N Long 100 - 09 - 13 E

Location : on right bank at Ban Ton.

	Ban Ton	Amphoe Khuan Kalong	Changwat Satun
Drainage Area	89 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+0.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank at the abutment of the bridge.	Elevation	+50.316 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Flot	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 37 discharge measurements made in 2011.		

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	45.39	45.17	45.14	45.15	45.13	45.31	45.79	45.41	45.31	47.38	45.26	45.12	
2	45.32	45.19	45.15	45.14	45.13	45.27	45.47	45.37	45.29	46.58	45.25	45.13	
3	45.30	45.28	45.19	45.14	45.12	45.28	45.46	45.33	45.29	46.33	45.23	45.13	
4	45.31	45.23	45.20	45.13	45.12	45.29	45.44	45.33	45.70	46.18	45.23	45.13	
5	45.31	45.20	45.16	45.12	45.09	45.26	45.53	45.35	45.59	45.92	45.23	45.13	
6	45.28	45.20	45.15	45.12	45.13	45.24	45.46	45.37	45.45	45.56	45.23	45.14	
7	45.26	45.19	45.15	45.12	45.12	45.27	45.44	45.34	45.45	45.52	45.23	45.14	
8	45.25	45.19	45.15	45.12	45.12	45.25	45.44	45.40	45.44	45.53	45.22	45.13	
9	45.25	45.19	45.15	45.12	45.11	45.22	45.40	45.33	45.43	45.97	45.22	45.12	
10	45.25	45.19	45.15	45.12	45.11	45.44	45.41	45.30	45.64	45.68	45.21	45.11	
11	45.23	45.21	45.15	45.12	45.12	47.91	45.41	45.30	45.64	45.67	45.21	45.10	
12	45.22	45.23	45.19	45.12	45.12	46.53	45.37	45.29	45.48	46.89	45.21	45.09	
13	45.21	45.19	45.16	45.13	45.17	45.88	45.38	45.29	45.45	46.55	45.19	45.11	
14	45.21	45.20	45.20	45.13	45.39	45.59	45.35	45.28	45.46	45.64	45.19	45.10	
15	45.21	45.21	45.19	45.13	45.57	45.56	45.32	45.28	45.45	45.45	45.16	45.11	
16	45.21	45.23	45.18	45.13	45.25	45.52	45.33	45.28	45.71	45.39	45.16	45.10	
17	45.21	45.22	45.19	45.12	46.01	45.47	45.34	45.28	45.94	45.32	45.15	45.11	
18	45.21	45.28	45.18	45.12	45.87	45.49	45.36	45.30	45.97	45.32	45.15	45.11	
19	45.20	45.21	45.17	45.12	45.88	45.47	45.44	45.30	45.74	45.33	45.14	45.13	
20	45.19	45.14	45.16	45.12	45.82	45.45	45.43	45.27	45.69	45.60	45.14	45.14	
21	45.19	45.17	45.15	45.11	45.49	45.44	45.46	45.31	45.64	45.43	45.13	45.13	
22	45.18	45.16	45.17	45.11	45.37	45.43	45.37	45.42	45.52	45.42	45.12	45.12	
23	45.18	45.16	45.29	45.13	45.31	45.42	45.35	46.56	45.50	45.41	45.11	45.12	
24	45.17	45.13	45.20	45.13	45.40	45.40	45.34	46.91	45.45	45.40	45.10	45.11	
25	45.17	45.12	45.19	45.12	45.47	45.37	45.39	46.36	45.42	45.35	45.10	45.10	
26	45.17	45.15	45.16	45.12	45.65	45.36	45.31	46.87	45.42	45.32	45.12	45.11	
27	45.17	45.15	45.15	45.11	45.63	45.35	45.30	46.25	45.40	45.30	45.14	45.11	
28	45.17	45.15	45.14	45.11	45.70	45.42	45.27	45.60	45.43	45.30	45.13	45.10	
29	45.17	45.19	45.14	45.12	45.77	45.50	45.32	45.57	45.46	45.29	45.13	45.10	
30	45.17	45.21	45.15	45.12	45.62	45.48	45.42	45.55	45.50	45.28		45.10	
31		45.14		45.13	45.47		45.56		45.47	45.28		45.10	
Mean	45.23	45.19	45.17	45.12	45.40	45.53	45.41	45.56	45.53	45.70	45.18	45.12	
Max	45.39	45.28	45.29	45.15	46.01	47.91	45.79	46.91	45.97	47.38	45.26	45.14	47.91
Min	45.17	45.12	45.14	45.11	45.09	45.22	45.27	45.27	45.29	45.28	45.10	45.09	45.09
Annual Max Momentary Gage Height	48.90		m. (MSL.) ,			at 10.00 Hours , on Sep 11 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	44.88	m. (MSL)					
Left Bank Elevation		50.24		m. (MSL.) ,									
Right Bank Elevation		50.24		m. (MSL.) ,		Drainage Area	89	Square Kilometers					

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.92	1.35	1.20	1.25	1.15	2.33	7.86	3.11	2.33	41.64	1.95	1.10		
2	2.40	1.45	1.25	1.20	1.15	2.02	3.77	2.77	2.17	22.07	1.87	1.15		
3	2.25	2.10	1.45	1.20	1.10	2.10	3.66	2.48	2.17	16.80	1.72	1.15		
4	2.33	1.72	1.50	1.15	1.10	2.17	3.44	2.48	6.60	13.86	1.72	1.15		
5	2.33	1.50	1.30	1.10	0.95	1.95	4.43	2.62	5.09	9.68	1.72	1.15		
6	2.10	1.50	1.25	1.10	1.15	1.80	3.66	2.77	3.55	4.76	1.72	1.20		
7	1.95	1.45	1.25	1.10	1.10	2.02	3.44	2.55	3.55	4.32	1.72	1.20		
8	1.87	1.45	1.25	1.10	1.10	1.87	3.44	3.00	3.44	4.43	1.65	1.15		
9	1.87	1.45	1.25	1.10	1.05	1.65	3.00	2.48	3.33	10.38	1.65	1.10		
10	1.87	1.45	1.25	1.10	1.05	3.44	3.11	2.25	5.76	6.32	1.57	1.05		
11	1.72	1.57	1.25	1.10	1.10	59.13	3.11	2.25	5.76	6.18	1.57	1.00		
12	1.65	1.72	1.45	1.10	1.10	20.99	2.77	2.17	3.88	28.91	1.57	0.95		
13	1.57	1.45	1.30	1.15	1.35	9.12	2.85	2.17	3.55	21.43	1.45	1.05		
14	1.57	1.50	1.50	1.15	2.92	5.09	2.62	2.10	3.66	5.76	1.45	1.00		
15	1.57	1.57	1.45	1.15	4.87	4.76	2.40	2.10	3.55	3.55	1.30	1.05		
16	1.57	1.72	1.40	1.15	1.87	4.32	2.48	2.10	6.74	2.92	1.30	1.00		
17	1.57	1.65	1.45	1.10	10.97	3.77	2.55	2.10	9.96	2.40	1.25	1.05		
18	1.57	2.10	1.40	1.10	8.98	3.99	2.70	2.25	10.38	2.40	1.25	1.05		
19	1.50	1.57	1.35	1.10	9.12	3.77	3.44	2.25	7.16	2.48	1.20	1.15		
20	1.45	1.20	1.30	1.10	8.28	3.55	3.33	2.02	6.46	5.20	1.20	1.20		
21	1.45	1.35	1.25	1.05	3.99	3.44	3.66	2.33	5.76	3.33	1.15	1.15		
22	1.40	1.30	1.35	1.05	2.77	3.33	2.77	3.22	4.32	3.22	1.10	1.10		
23	1.40	1.30	2.17	1.15	2.33	3.22	2.62	21.64	4.10	3.11	1.05	1.10		
24	1.35	1.15	1.50	1.15	3.00	3.00	2.55	29.39	3.55	3.00	1.00	1.05		
25	1.35	1.10	1.45	1.10	3.77	2.77	2.92	17.40	3.22	2.62	1.00	1.00		
26	1.35	1.25	1.30	1.10	5.90	2.70	2.33	28.44	3.22	2.40	1.10	1.05		
27	1.35	1.25	1.25	1.05	5.62	2.62	2.25	15.20	3.00	2.25	1.20	1.05		
28	1.35	1.25	1.20	1.05	6.60	3.22	2.02	5.20	3.33	2.25	1.15	1.00		
29	1.35	1.45	1.20	1.10	7.58	4.10	2.40	4.87	3.66	2.17	1.15	1.00		
30	1.35	1.57	1.25	1.10	5.48	3.88	3.22	4.65	4.10	2.10		1.00		
31		1.20		1.15	3.77		4.76		3.77	2.10		1.00		
Total	51.33	45.64	40.72	34.65	112.27	172.12	99.56	180.36	141.12	244.04	40.73	33.40	1195.94	CMSDAY
Mean	1.71	1.47	1.36	1.12	3.62	5.74								

Location : on left bank at Ban Khlong Hak.

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.06	32.34	32.33	32.40	32.30	33.53	33.66	32.59	32.74	32.49	32.60	32.56	
2	33.75	32.39	32.38	32.50	32.36	33.10	33.44	32.59	32.73	32.59	32.58	32.53	
3	33.46	32.48	32.50	32.65	32.76	32.72	33.44	32.57	32.70	32.64	32.59	32.50	
4	33.22	33.19	32.76	32.69	32.45	32.69	33.29	32.58	32.70	32.76	32.58	32.47	
5	33.00	32.93	32.88	32.43	32.34	32.67	33.49	32.81	33.55	32.75	32.57	32.59	
6	32.85	32.62	33.07	32.43	32.40	32.61	33.38	33.30	33.21	32.74	32.54	33.44	
7	32.71	32.49	32.58	32.42	32.40	32.57	33.23	33.40	32.74	32.72	32.53	33.05	
8	32.56	32.49	32.45	32.41	32.37	32.55	33.14	33.17	32.72	32.71	32.53	32.83	
9	32.47	32.46	32.43	32.41	32.33	32.58	33.09	32.85	32.70	32.70	32.52	32.62	
10	32.46	32.38	32.77	32.40	32.32	32.79	33.05	32.75	32.64	32.70	32.52	32.47	
11	32.44	32.36	32.54	32.36	32.28	34.99	32.99	32.64	32.68	32.67	32.52	32.45	
12	32.43	32.38	32.48	32.35	32.34	34.96	32.93	32.62	32.62	32.99	32.51	32.44	
13	32.42	32.45	32.46	32.30	32.39	33.66	32.85	32.60	32.60	34.05	32.51	32.43	
14	32.41	32.44	32.44	32.29	32.33	33.01	32.82	32.59	32.57	33.16	32.51	32.42	
15	32.40	32.37	32.42	32.28	32.24	33.14	32.75	32.58	32.70	32.68	32.50	32.41	
16	32.39	32.44	32.40	32.27	32.25	33.82	32.73	32.57	32.75	32.58	32.49	32.41	
17	32.38	32.43	32.39	32.26	32.29	33.77	32.84	32.57	32.69	32.44	32.48	32.41	
18	32.38	32.45	32.51	32.26	32.25	33.49	32.74	32.56	32.65	32.76	32.48	32.41	
19	32.37	32.40	32.40	32.25	32.53	33.17	32.70	32.56	32.63	32.87	32.48	32.41	
20	32.36	32.37	32.37	32.24	33.41	33.04	32.83	32.69	32.62	33.13	32.47	32.41	
21	32.37	32.36	32.39	32.23	32.87	32.97	32.76	33.04	32.63	32.85	32.46	32.40	
22	32.38	32.37	32.43	32.24	32.57	32.92	32.67	33.89	32.62	32.86	32.46	32.40	
23	32.38	32.38	32.45	32.24	32.39	32.84	32.66	34.25	32.60	32.89	32.45	32.39	
24	32.37	32.38	32.44	32.23	32.40	32.78	32.65	33.67	32.59	32.91	32.45	32.39	
25	32.36	32.39	32.41	32.22	32.51	32.76	32.65	33.84	32.58	32.83	32.44	32.37	
26	32.35	32.41	32.39	32.21	32.57	33.01	32.64	33.56	32.56	32.79	32.44	32.35	
27	32.34	32.40	32.36	32.21	32.69	33.49	32.63	33.40	32.54	32.77	32.43	32.35	
28	32.35	32.36	32.33	32.24	32.72	33.99	32.63	33.07	32.52	32.75	32.48	32.35	
29	32.35	32.34	32.36	32.26	32.77	34.13	32.62	32.91	32.49	32.73	32.58	32.35	
30	32.30	32.33	32.42	32.28	32.88	33.94	32.61	32.80	32.50	32.62		32.35	
31		32.32		32.29	33.97		32.58		32.49	32.61		32.35	
Mean	32.60	32.45	32.48	32.33	32.54	33.26	32.92	32.97	32.68	32.80	32.51	32.49	
Max	34.06	33.19	33.07	32.69	33.97	34.99	33.66	34.25	33.55	34.05	32.60	33.44	34.99
Min	32.30	32.32	32.33	32.21	32.24	32.55	32.58	32.56	32.49	32.44	32.43	32.35	32.21
Annual Max Momentary Gage Height	35.92		m. (MSL.) , at 20.00 Hours , on Sep 11 , 2011										
Zero Gage at Bottom Elevation	0.00		m. (MSL.) , River Bed 31.64 m. (MSL)										
Left Bank Elevation	37.81		m. (MSL.) ,										
Right Bank Elevation	37.77		m. (MSL.) , Drainage Area 77 Square Kilometers										

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.18	1.64	1.58	2.00	1.40	5.57	6.64	3.14	4.18	2.54	3.20	2.96		
2	12.70	1.94	1.88	2.60	1.76	3.10	4.90	3.14	4.11	3.14	3.08	2.78		
3	9.94	2.48	2.60	3.55	4.32	1.66	4.90	3.02	3.90	3.48	3.14	2.60		
4	7.96	7.72	4.32	3.83	2.30	1.57	3.99	3.08	3.90	4.32	3.08	2.42		
5	6.20	5.64	5.24	2.18	1.64	1.51	5.28	4.68	10.75	4.25	3.02	3.14		
6	5.00	3.34	6.76	2.18	2.00	1.33	4.49	8.60	7.88	4.18	2.84	9.76		
7	3.97	2.54	3.08	2.12	2.00	1.23	3.66	9.40	4.18	4.04	2.78	6.60		
8	2.96	2.54	2.30	2.06	1.82	1.17	3.26	7.56	4.04	3.97	2.78	4.84		
9	2.42	2.36	2.18	2.06	1.58	1.25	3.06	5.00	3.90	3.90	2.72	3.34		
10	2.36	1.88	4.39	2.00	1.52	1.87	2.90	4.25	3.48	3.90	2.72	2.42		
11	2.24	1.76	2.84	1.76	1.28	26.39	6.12	3.48	3.76	3.69	2.72	2.30		
12	2.18	1.88	2.48	1.70	1.64	25.76	5.64	3.34	3.34	6.12	2.66	2.24		
13	2.12	2.30	2.36	1.40	1.94	6.64	5.00	3.20	3.20	16.05	2.66	2.18		
14	2.06	2.24	2.24	1.34	1.58	2.74	4.76	3.14	3.02	7.48	2.66	2.12		
15	2.00	1.82	2.12	1.28	1.04	3.26	4.25	3.08	3.90	3.76	2.60	2.06		
16	1.94	2.24	2.00	1.22	1.10	8.13	4.11	3.02	4.25	3.08	2.54	2.06		
17	1.88	2.18	1.94	1.16	1.34	7.63	4.92	3.02	3.83	2.24	2.48	2.06		
18	1.88	2.30	2.66	1.16	1.10	5.28	4.18	2.96	3.55	4.32	2.48	2.06		
19	1.82	2.00	2.00	1.10	2.78	3.38	3.90	2.96	3.41	5.16	2.48	2.06		
20	1.76	1.82	1.82	1.04	9.49	2.86	4.84	3.83	3.34	7.24	2.42	2.06		
21	1.82	1.76	1.94	0.98	5.16	2.58	4.32	6.52	3.41	5.00	2.36	2.00		
22	1.88	1.82	2.18	1.04	3.02	2.38	3.69	14.19	3.34	5.08	2.36	2.00		
23	1.88	1.88	2.30	1.04	1.94	2.06	3.62	18.70	3.20	5.32	2.30	1.94		
24	1.82	1.88	2.24	0.98	2.00	1.84	3.55	6.73	3.14	5.48	2.30	1.94		
25	1.76	1.94	2.06	0.92	2.66	1.78	3.55	8.36	3.08	4.84	2.24	1.82		
26	1.70	2.06	1.94	0.86	3.02	2.74	3.48	5.80	2.96	4.53	2.24	1.70		
27	1.64	2.00	1.76	0.86	3.83	5.28	3.41	4.60	2.84	4.39	2.18	1.70		
28	1.70	1.76	1.58	1.04	4.04	10.09	3.41	2.98	2.72	4.25	2.48	1.70		
29	1.70	1.64	1.76	1.16	4.39	11.83	3.34	5.48	2.54	4.11	3.08	1.70		
30	1.40	1.58	2.12	1.28	5.24	9.51	3.27	4.60	2.60	3.34		1.70		
31		1.52		1.34	9.86		3.08		2.54	3.27		1.70		
Total	106.87	72.46	76.67	49.24	88.79	162.42	129.52	161.86	118.29	146.47	76.60	81.96	1271.15	CMSDAY
Mean	3.56	2.34	2.56	1.59	2.86	5.41	4.18</							

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Khlong Duson at Ban Cha Lung Nua , Satun (X.239)

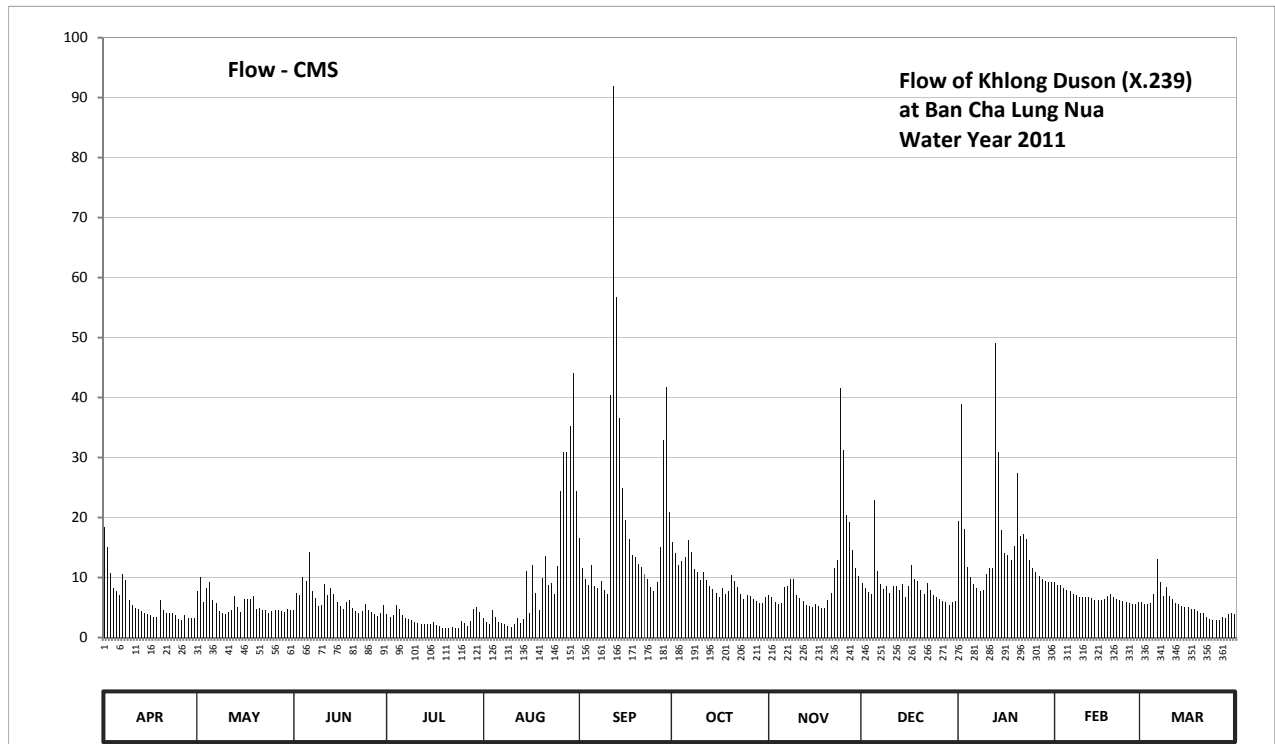
Lat 06 - 43 - 38 N Long 100 - 03 - 50 E

Location : on right bank at Ban Cha Lung Nua.

	Ban	Cha Lung Nua	Amphoe	Mueang	Changwat	Satun
Drainage Area	267	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the top staff gage.				Elevation	+17.044 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2004 to date					
Rating Operation						
Period of Rating	2004 to date					
Rated by Flot	-					
Rated by Current Meter	2004 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 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.50	13.88	13.69	13.64	13.60	14.40	14.36	13.84	13.96	14.56	13.97	13.77	
2	14.31	14.02	13.86	13.61	13.56	14.11	14.26	13.82	13.91	15.57	13.94	13.75	
3	14.06	13.77	13.84	13.63	13.54	14.00	14.14	13.77	13.87	14.49	13.94	13.75	
4	13.91	13.91	14.02	13.74	13.69	13.94	14.18	13.75	13.85	14.12	13.91	13.76	
5	13.88	13.97	13.98	13.70	13.61	14.14	14.22	13.76	14.76	14.02	13.89	13.85	
6	13.84	13.79	14.27	13.63	13.56	13.93	14.38	13.92	14.08	13.95	13.88	14.20	
7	14.05	13.76	13.88	13.60	13.55	13.91	14.27	13.93	13.95	13.91	13.85	13.97	
8	13.99	13.68	13.81	13.59	13.54	13.98	14.10	14.00	13.90	13.88	13.84	13.83	
9	13.79	13.66	13.73	13.58	13.52	13.89	14.07	14.00	13.93	13.89	13.82	13.92	
10	13.74	13.64	13.74	13.56	13.51	13.85	13.99	13.84	13.86	14.05	13.82	13.83	
11	13.71	13.67	13.95	13.55	13.54	15.64	14.07	13.81	13.93	14.11	13.82	13.80	
12	13.70	13.69	13.84	13.54	13.60	16.67	13.99	13.78	13.93	14.11	13.82	13.76	
13	13.68	13.83	13.91	13.54	13.55	16.22	13.93	13.74	13.89	16.01	13.81	13.75	
14	13.65	13.72	13.85	13.54	13.59	15.46	13.90	13.73	13.95	15.18	13.79	13.73	
15	13.64	13.67	13.77	13.54	14.08	14.87	13.86	13.72	13.82	14.47	13.79	13.72	
16	13.63	13.80	13.73	13.56	13.65	14.57	13.82	13.75	13.93	14.26	13.79	13.72	
17	13.61	13.80	13.70	13.53	14.14	14.39	13.91	13.73	14.14	14.24	13.80	13.70	
18	13.61	13.80	13.77	13.52	13.86	14.24	13.85	13.71	14.00	14.19	13.83	13.70	
19	13.79	13.83	13.79	13.50	13.69	14.22	13.88	13.71	13.98	14.32	13.85	13.68	
20	13.69	13.70	13.71	13.50	14.01	14.15	14.04	13.79	13.89	15.00	13.82	13.65	
21	13.65	13.71	13.68	13.50	14.23	14.12	13.98	13.86	13.85	14.42	13.80	13.66	
22	13.66	13.69	13.65	13.51	13.94	14.05	13.92	14.11	13.96	14.44	13.79	13.61	
23	13.66	13.69	13.68	13.50	13.96	14.00	13.85	14.19	13.89	14.39	13.78	13.59	
24	13.63	13.66	13.75	13.50	13.85	13.92	13.80	15.69	13.84	14.19	13.77	13.58	
25	13.59	13.68	13.69	13.57	14.13	13.88	13.84	15.20	13.82	14.11	13.76	13.58	
26	13.58	13.69	13.67	13.55	14.84	13.97	13.83	14.62	13.80	14.07	13.75	13.58	
27	13.63	13.69	13.64	13.52	15.18	14.31	13.80	14.55	13.78	14.03	13.75	13.61	
28	13.60	13.68	13.62	13.57	15.18	15.28	13.78	14.28	13.77	14.00	13.77	13.60	
29	13.60	13.67	13.66	13.70	15.40	15.70	13.76	14.11	13.74	13.98	13.83	13.64	
30	13.60	13.70	13.74	13.72	15.80	14.65	13.76	14.03	13.77	13.97		13.65	
31		13.69		13.67	14.84		13.82		13.78	13.97		13.64	
Mean	13.77	13.75	13.79	13.58	14.02	14.48	13.98	14.02	13.92	14.32	13.83	13.73	
Max	14.50	14.02	14.27	13.74	15.80	16.67	14.38	15.69	14.76	16.01	13.97	14.20	16.67
Min	13.58	13.64	13.62	13.50	13.51	13.85	13.76	13.71	13.74	13.88	13.75	13.58	13.50
Annual Max Momentary Gage Height	16.93		m. (MSL.) ,			at 24.00 Hours , on Sep 11, 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	13.03	m. (MSL)					
Left Bank Elevation		17.02		m. (MSL.) ,									
Right Bank Elevation		17.01		m. (MSL.) ,		Drainage Area	267	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	18.35	7.72	4.64	3.84	3.20	16.60	15.90	7.06	9.04	19.40	9.21	5.92		
2	15.03	10.04	7.39	3.36	2.56	11.57	14.15	6.73	8.21	38.85	8.71	5.60		
3	10.72	5.92	7.06	3.68	2.24	9.70	12.08	5.92	7.55	18.17	8.71	5.60		
4	8.21	8.21	10.04	5.44	4.64	8.71	12.76	5.60	7.23	11.74	8.21	5.76		
5	7.72	9.21	9.37	4.80	3.36	12.08	13.45	5.76	22.98	10.04	7.89	7.23		
6	7.06	6.24	14.33	3.68	2.56	8.55	16.25	8.38	11.06	8.87	7.72	13.10		
7	10.55	5.76	7.72	3.20	2.40	8.21	14.33	8.55	8.87	8.21	7.23	9.21		
8	9.53	4.48	6.57	3.04	2.24	9.37	11.40	9.70	8.05	7.72	7.06	6.89		
9	6.24	4.16	5.28	2.88	1.92	7.89	10.89	9.70	8.55	7.89	6.73	8.38		
10	5.44	3.84	5.44	2.56	1.76	7.23	9.53	7.06	7.39	10.55	6.73	6.89		
11	4.96	4.32	8.87	2.40	2.24	40.40	10.89	6.57	8.55	11.57	6.73	6.40		
12	4.80	4.64	7.06	2.24	3.20	91.90	9.53	6.08	8.55	11.57	6.73	5.76		
13	4.48	6.89	8.21	2.24	2.40	56.78	8.55	5.44	7.89	49.14	6.57	5.60		
14	4.00	5.12	7.23	2.24	3.04	36.49	8.05	5.28	8.87	30.81	6.24	5.28		
15	3.84	4.32	5.92	2.24	11.06	24.96	7.39	5.12	6.73	17.83	6.24	5.12		
16	3.68	6.40	5.28	2.56	4.00	19.57	6.73	5.60	8.55	14.15	6.24	5.12		
17	3.36	6.40	4.80	2.08	12.08	16.43	8.21	5.28	12.08	13.80	6.40	4.80		
18	3.36	6.40	5.92	1.92	7.39	13.80	7.23	4.96	9.70	12.93	6.89	4.80		
19	6.24	6.89	6.24	1.60	4.64	13.45	7.72	4.96	9.37	15.20	7.23	4.48		
20	4.64	4.80	4.96	1.60	9.87	12.25	10.38	6.24	7.89	27.30	6.73	4.00		
21	4.00	4.96	4.48	1.60	13.62	11.74	9.37	7.39	7.23	16.95	6.40	4.16		
22	4.16	4.64	4.00	1.76	8.71	10.55	8.38	11.57	9.04	17.30	6.24	3.36		
23	4.16	4.64	4.48	1.60	9.04	9.70	7.23	12.93	7.89	16.43	6.08	3.04		
24	3.68	4.16	5.60	1.60	7.23	8.38	6.40	41.52	7.06	12.93	5.92	2.88		
25	3.04	4.48	4.64	2.72	11.91	7.72	7.06	31.20	6.73	11.57	5.76	2.88		
26	2.88	4.64	4.32	2.40	24.42	9.21	6.89	20.46	6.40	10.89	5.60	2.88		
27	3.68	4.64	3.84	1.92	30.81	15.03	6.40	19.22	6.08	10.21	5.60	3.36		
28	3.20	4.48	3.52	2.72	30.81	32.80	6.08	14.50	5.92	9.70	5.92	3.20		
29	3.20	4.32	4.16	4.80	35.20	41.75	5.76	11.57	5.44	9.37	6.89	3.84		
30	3.20	4.80	5.44	5.12	44.00	21.00	5.76	10.21	5.92	9.21		4.00		
31		4.64		4.32	24.42		6.73		6.08	9.21		3.84		
Total	177.41	172.16	186.81	88.16	326.97	593.82	291.48	310.56	260.90	479.51	198.61	163.38	3249.77	CMSDAY
Mean	5.91	5.55	6.23	2.84	10.55	19.79	9.40	10.35	8.42	15.47	6.85	5.27	8.88	CMS
Max	18.35	10.04	14.33	5.44	44.00	91.90	16.25	41.52	22.98	49.14	9.21	13.10	91.90	CMS
Min	2.88	3.84	3.52	1.60	1.76	7.23	5.76	4.96	5.44	7.72	5.60	2.88	1.60	CMS
Runoff	15.33	14.88	16.14	7.62	28.25	51.31	25.18	26.83	22.54	41.43	17.16	14.12	280.78	MCM
Momentary Peak	125.50 CMS. at 16.93 m. (MSL.) at 24.00 Hours , on Sep 11 , 2011													
Runoff Yield	33.18 Liters/Second/Square KM.			Momentary Peak Yield			468.984 Liters/Second/Square KM.							

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST

Khlong Phangnga at Ban Bang Tong , Phangnga (X.245)

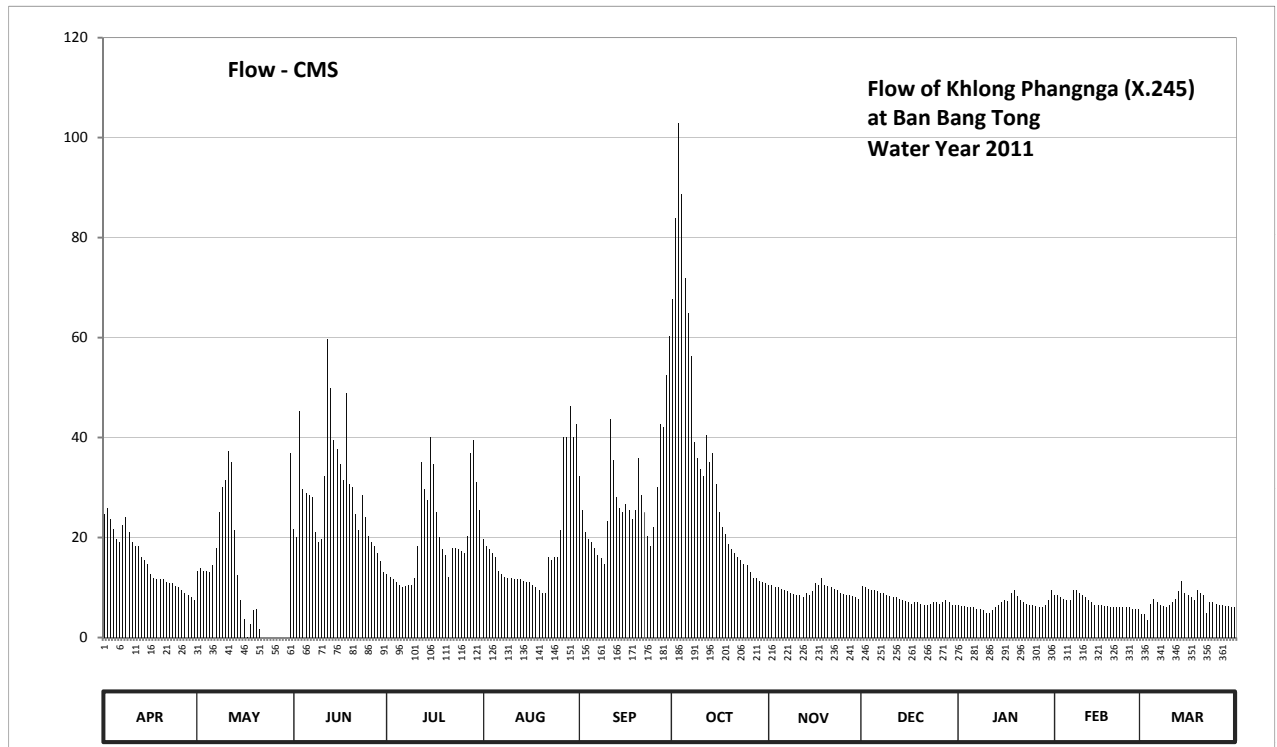
Lat 08 - 30 - 49 N Long 98 - 30 - 15 E

Location : on right bank at Ban Bang Tong.

	Ban	Bang Tong	Amphoe	Mueang	Changwat	Phangnga
Drainage Area	242	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	Near the gage site.				Elevation	+18.532 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2006 to date					
Rating Operation						
Period of Rating	2006 to date					
Rated by Flot	-					
Rated by Current Meter	2006 to date					
Stability of Channel Regimes	Rather unstable by some scouring.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.25	8.92	9.18	8.90	9.12	9.43	10.06	8.82	8.81	8.66	8.74	8.58	
2	9.28	8.94	9.13	8.88	9.08	9.27	10.28	8.82	8.80	8.65	8.74	8.58	
3	9.23	8.92	9.70	8.86	9.06	9.16	10.51	8.80	8.79	8.65	8.72	8.52	
4	9.18	8.92	9.37	8.84	9.04	9.12	10.34	8.80	8.78	8.64	8.71	8.67	
5	9.12	8.91	9.35	8.82	9.02	9.10	10.12	8.79	8.78	8.64	8.70	8.71	
6	9.10	8.96	9.34	8.80	8.92	9.07	10.02	8.78	8.77	8.64	8.70	8.68	
7	9.20	9.07	9.33	8.81	8.90	9.03	9.89	8.77	8.76	8.63	8.78	8.66	
8	9.24	9.26	9.16	8.82	8.88	9.01	9.58	8.76	8.76	8.63	8.78	8.65	
9	9.16	9.38	9.10	8.82	8.87	8.97	9.51	8.75	8.74	8.62	8.76	8.64	
10	9.10	9.41	9.12	8.87	8.87	9.22	9.46	8.74	8.73	8.60	8.74	8.66	
11	9.08	9.54	9.43	9.08	8.86	9.67	9.43	8.74	8.72	8.60	8.72	8.68	
12	9.08	9.49	9.94	9.49	8.86	9.50	9.61	8.72	8.72	8.62	8.70	8.71	
13	9.02	9.17	9.79	9.37	8.86	9.33	9.49	8.76	8.71	8.64	8.68	8.77	
14	9.00	8.89	9.59	9.32	8.85	9.28	9.53	8.74	8.70	8.66	8.66	8.85	
15	8.97	8.70	9.55	9.60	8.84	9.26	9.39	8.77	8.69	8.68	8.66	8.76	
16	8.90	8.53	9.48	9.48	8.84	9.30	9.26	8.83	8.68	8.70	8.66	8.74	
17	8.87	8.31	9.41	9.26	8.82	9.27	9.19	8.82	8.67	8.69	8.65	8.72	
18	8.86	8.48	9.77	9.13	8.80	9.23	9.15	8.87	8.68	8.76	8.65	8.70	
19	8.86	8.62	9.39	9.06	8.78	9.27	9.09	8.82	8.68	8.78	8.64	8.78	
20	8.86	8.63	9.38	9.03	8.76	9.51	9.06	8.81	8.67	8.73	8.64	8.76	
21	8.84	8.42	9.25	8.88	8.76	9.34	9.04	8.80	8.66	8.70	8.64	8.74	
22	8.83	8.26	9.17	9.07	9.02	9.26	9.02	8.79	8.66	8.68	8.64	8.60	
23	8.83	8.22	9.34	9.07	9.00	9.14	9.00	8.78	8.67	8.67	8.64	8.68	
24	8.81	8.14	9.24	9.06	9.02	9.08	8.97	8.76	8.68	8.66	8.64	8.68	
25	8.80	8.22	9.14	9.05	9.02	9.19	8.96	8.75	8.68	8.66	8.64	8.67	
26	8.78	8.23	9.10	9.04	9.17	9.38	8.91	8.74	8.67	8.65	8.63	8.66	
27	8.76	8.13	9.08	9.14	9.60	9.65	8.87	8.74	8.68	8.64	8.63	8.66	
28	8.74	8.07	9.04	9.53	9.60	9.64	8.87	8.73	8.70	8.64	8.63	8.65	
29	8.72	8.04	8.99	9.59	9.72	9.83	8.85	8.72	8.68	8.66	8.50	8.65	
30	8.70	8.09	8.91	9.40	9.60	9.95	8.84	8.71	8.66	8.70		8.64	
31		9.53		9.27	9.65		8.83		8.66	8.78		8.64	
Mean	8.97	8.72	9.33	9.11	9.04	9.32	9.39	8.77	8.71	8.67	8.68	8.68	
Max	9.28	9.54	9.94	9.60	9.72	9.95	10.51	8.87	8.81	8.78	8.78	8.85	10.51
Min	8.70	8.04	8.91	8.80	8.76	8.97	8.83	8.71	8.66	8.60	8.50	8.52	8.04
Annual Max Momentary Gage Height	10.64		m. (MSL.) ,			at 08.00 Hours , on Oct 3 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	7.19	m. (MSL)					
Left Bank Elevation			18.38			m. (MSL.) ,							
Right Bank Elevation		18.38				m. (MSL.) ,	Drainage Area	242	Square Kilometers				



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.63	13.30	21.80	12.75	19.70	32.35	67.70	10.55	10.28	6.50	8.50	4.62	
2	25.90	13.85	20.05	12.20	18.30	25.48	83.90	10.55	10.00	6.25	8.50	4.62	
3	23.77	13.30	45.25	11.65	17.60	21.10	102.85	10.00	9.75	6.25	8.00	3.48	
4	21.80	13.30	29.73	11.10	16.90	19.70	88.70	10.00	9.50	6.00	7.75	6.75	
5	19.70	13.02	28.88	10.55	16.20	19.00	71.90	9.75	9.50	6.00	7.50	7.75	
6	19.00	14.40	28.45	10.00	13.30	17.95	64.90	9.50	9.25	6.00	7.50	7.00	
7	22.50	17.95	28.03	10.28	12.75	16.55	56.35	9.25	9.00	5.75	9.50	6.50	
8	24.20	25.05	21.10	10.55	12.20	15.85	39.10	9.00	9.00	5.75	9.50	6.25	
9	21.10	30.15	19.00	10.55	11.92	14.68	35.95	8.75	8.50	5.50	9.00	6.00	
10	19.00	31.45	19.70	11.92	11.92	23.35	33.70	8.50	8.25	5.00	8.50	6.50	
11	18.30	37.30	32.35	18.30	11.65	43.67	32.35	8.50	8.00	5.00	8.00	7.00	
12	18.30	35.05	59.60	35.05	11.65	35.50	40.52	8.00	8.00	5.50	7.50	7.75	
13	16.20	21.45	49.97	29.73	11.65	28.03	35.05	9.00	7.75	6.00	7.00	9.25	
14	15.50	12.48	39.55	27.60	11.38	25.90	36.85	8.50	7.50	6.50	6.50	11.38	
15	14.68	7.50	37.75	40.00	11.10	25.05	30.58	9.25	7.25	7.00	6.50	9.00	
16	12.75	3.67	34.60	34.60	11.10	26.75	25.05	10.82	7.00	7.50	6.50	8.50	
17	11.92	0.12	31.45	25.05	10.55	25.48	22.15	10.55	6.75	7.25	6.25	8.00	
18	11.65	2.72	48.93	20.05	10.00	23.77	20.75	11.92	7.00	9.00	6.25	7.50	
19	11.65	5.50	30.58	17.60	9.50	25.48	18.65	10.55	7.00	9.50	6.00	9.50	
20	11.65	5.75	30.15	16.55	9.00	35.95	17.60	10.28	6.75	8.25	6.00	9.00	
21	11.10	1.58	24.63	12.20	9.00	28.45	16.90	10.00	6.50	7.50	6.00	8.50	
22	10.82	0.00	21.45	17.95	16.20	25.05	16.20	9.75	6.50	7.00	6.00	5.00	
23	10.82	0.00	28.45	17.95	15.50	20.40	15.50	9.50	6.75	6.75	6.00	7.00	
24	10.28	0.00	24.20	17.60	16.20	18.30	14.68	9.00	7.00	6.50	6.00	7.00	
25	10.00	0.00	20.40	17.25	16.20	22.15	14.40	8.75	7.00	6.50	6.00	6.75	
26	9.50	0.00	19.00	16.90	21.45	30.15	13.02	8.50	6.75	6.25	5.75	6.50	
27	9.00	0.00	18.30	20.40	40.00	42.62	11.92	8.50	7.00	6.00	5.75	6.50	
28	8.50	0.00	16.90	36.85	40.00	42.10	11.92	8.25	7.50	6.00	5.75	6.25	
29	8.00	0.00	15.22	39.55	46.30	52.45	11.38	8.00	7.00	6.50	3.10	6.25	
30	7.50	0.00	13.02	31.00	40.00	60.25	11.10	7.75	6.50	7.50		6.00	
31		36.85		25.48	42.62		10.82		6.50	9.50		6.00	
Total	459.72	355.74	858.49	629.21	561.84	843.51	1072.44	281.22	241.03	206.50	201.10	218.10	5928.90 CMSDAY
Mean	15.32	11.48	28.62	20.30	18.12	28.12	34.59	9.37	7.78	6.66	6.93	7.04	16.20 CMS
Max	25.90	37.30	59.60	40.00	46.30	60.25	102.85	11.92	10.28	9.50	9.50	11.38	102.85 CMS
Min	7.50	0.00	13.02	10.00	9.00	14.68	10.82	7.75	6.50	5.00	3.10	3.48	0.00 CMS
Runoff	39.72	30.74	74.17	54.36	48.54	72.88	92.66	24.30	20.83	17.84	17.38	18.84	512.26 MCM
Momentary Peak	114.40	CMS.	at 10.64 m. (MSL.)	at 08.00 Hours	on Oct 3, 2011								
Runoff Yield	66.84	Liters/Second/Square KM.			Momentary Peak Yield	472.045	Liters/Second/Square KM.						

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Upper Khlong Tha Prae at Ban Karakat , Satun (X.261)

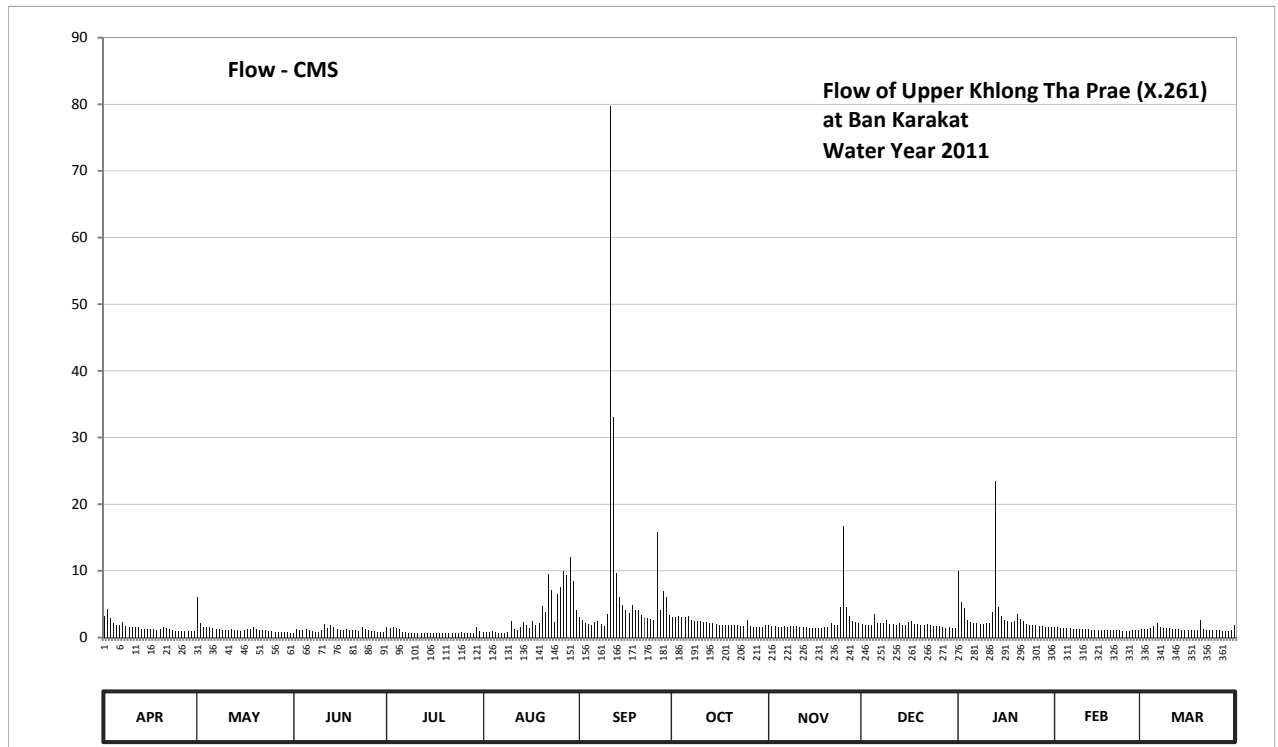
Lat 06 - 50 - 19 N Long 100 - 04 - 10 E

Location : on right bank at Ban Karakat.

	Ban	Karakat	Amphoe	Khuan Kalong	Changwat	Satun
Drainage Area	99	sq.km.				
Type of Gage	Water - stage recorder					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the top staff gage.				Elevation	+30.451 m. (MSL.)
Gage Reading Frequency	Recording					
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable because of backwater effect.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 37 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.40	27.83	26.81	27.02	26.84	27.38	27.38	27.11	27.12	28.33	27.01	26.94	
2	27.56	27.15	26.94	26.98	26.84	27.26	27.36	27.06	27.10	27.72	27.00	26.93	
3	27.35	27.00	26.92	27.00	26.83	27.18	27.40	27.04	27.08	27.59	26.99	26.95	
4	27.16	27.02	26.92	26.98	26.87	27.14	27.36	27.02	27.10	27.28	26.98	26.97	
5	27.10	27.02	26.94	26.94	26.83	27.11	27.38	27.02	27.45	27.20	26.97	27.04	
6	27.08	26.98	26.91	26.84	26.81	27.19	27.40	27.06	27.15	27.16	26.97	27.18	
7	27.21	26.96	26.88	26.82	26.80	27.25	27.28	27.03	27.15	27.16	26.96	27.03	
8	27.07	26.94	26.84	26.80	26.81	27.13	27.25	27.04	27.16	27.14	26.95	26.97	
9	27.03	26.92	26.82	26.80	26.84	27.05	27.24	27.04	27.27	27.13	26.95	26.99	
10	27.01	26.92	26.90	26.80	27.23	27.45	27.22	27.04	27.14	27.16	26.94	26.97	
11	27.00	26.91	27.12	26.78	26.94	31.04	27.20	27.02	27.13	27.18	26.94	26.96	
12	27.00	26.96	26.99	26.78	26.89	29.75	27.20	27.00	27.09	27.50	26.93	26.94	
13	26.96	26.90	27.08	26.79	27.03	28.29	27.18	27.00	27.15	29.32	26.92	26.93	
14	26.94	26.90	27.03	26.78	27.19	27.85	27.16	26.98	27.11	27.60	26.92	26.92	
15	26.94	26.88	26.93	26.78	27.11	27.65	27.12	26.98	27.08	27.40	26.91	26.91	
16	26.94	26.90	26.92	26.80	26.98	27.54	27.10	26.98	27.19	27.27	26.90	26.91	
17	26.94	26.94	26.91	26.80	27.22	27.48	27.09	26.98	27.25	27.22	26.90	26.90	
18	26.92	26.94	26.94	26.78	27.11	27.66	27.09	26.98	27.14	27.21	26.92	26.91	
19	26.94	27.02	26.92	26.78	27.17	27.54	27.08	27.01	27.14	27.23	26.92	26.91	
20	27.00	26.94	26.90	26.78	27.64	27.55	27.11	27.00	27.09	27.44	26.90	27.26	
21	26.97	26.91	26.90	26.78	27.50	27.42	27.10	27.15	27.08	27.29	26.90	26.95	
22	26.93	26.90	26.87	26.78	28.27	27.36	27.09	27.08	27.12	27.22	26.89	26.92	
23	26.90	26.90	27.03	26.78	27.98	27.32	27.07	27.10	27.08	27.14	26.88	26.91	
24	26.88	26.86	26.94	26.80	27.21	27.30	27.06	27.62	27.07	27.11	26.88	26.90	
25	26.88	26.86	26.90	26.83	27.90	27.26	27.27	28.92	27.06	27.09	26.88	26.89	
26	26.88	26.84	26.88	26.81	28.05	28.86	27.06	27.61	27.06	27.08	26.89	26.89	
27	26.86	26.84	26.88	26.80	28.33	27.53	27.02	27.41	27.02	27.06	26.90	26.87	
28	26.86	26.84	26.84	26.80	28.26	27.97	27.00	27.23	26.99	27.04	26.91	26.86	
29	26.86	26.84	26.84	26.80	28.55	27.84	27.02	27.19	27.01	27.03	26.93	26.86	
30	26.86	26.82	26.84	27.02	28.14	27.43	27.02	27.15	26.99	27.03		26.91	
31		26.81		26.87	27.53		27.10		26.98	27.02		27.08	
Mean	27.01	26.95	26.92	26.84	27.35	27.69	27.17	27.16	27.11	27.33	26.93	26.95	
Max	27.56	27.83	27.12	27.02	28.55	31.04	27.40	28.92	27.45	29.32	27.01	27.26	31.04
Min	26.86	26.81	26.81	26.78	26.80	27.05	27.00	26.98	26.98	27.02	26.88	26.86	26.78
Annual Max Momentary Gage Height	31.85		m. (MSL.) ,		at 16.00 Hours , on Sep 11 , 2011								
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,		River Bed	26.58	m. (MSL)						
Left Bank Elevation	32.45		m. (MSL.) ,										
Right Bank Elevation	32.44		m. (MSL.) ,		Drainage Area	99	Square Kilometers						

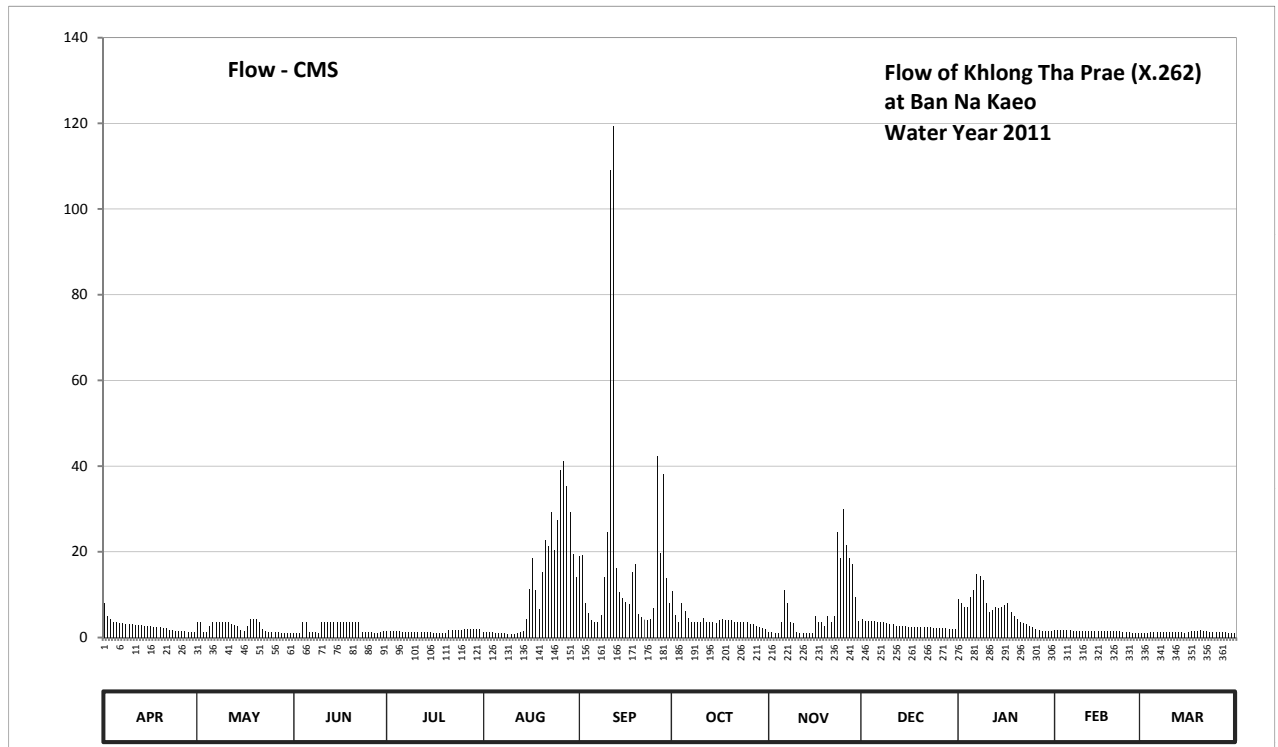


Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.20	6.01	0.74	1.58	0.86	3.11	3.11	1.94	1.98	10.00	1.54	1.26	
2	4.24	2.10	1.26	1.42	0.86	2.57	3.02	1.74	1.90	5.28	1.50	1.22	
3	2.98	1.50	1.18	1.50	0.82	2.22	3.20	1.66	1.82	4.43	1.46	1.30	
4	2.14	1.58	1.18	1.42	0.98	2.06	3.02	1.58	1.90	2.66	1.42	1.38	
5	1.90	1.58	1.26	1.26	0.82	1.94	3.11	1.58	3.53	2.30	1.38	1.66	
6	1.82	1.42	1.14	0.86	0.74	2.26	3.20	1.74	2.10	2.14	1.38	2.22	
7	2.34	1.34	1.02	0.78	0.70	2.52	2.66	1.62	2.10	2.14	1.34	1.62	
8	1.78	1.26	0.86	0.70	0.74	2.02	2.52	1.66	2.14	2.06	1.30	1.38	
9	1.62	1.18	0.78	0.70	0.86	1.70	2.48	1.66	2.62	2.02	1.30	1.46	
10	1.54	1.18	1.10	0.70	2.43	3.53	2.39	1.66	2.06	2.14	1.26	1.38	
11	1.50	1.14	1.98	0.63	1.26	79.80	2.30	1.58	2.02	2.22	1.26	1.34	
12	1.50	1.34	1.46	0.63	1.06	33.00	2.30	1.50	1.86	3.85	1.22	1.26	
13	1.34	1.10	1.82	0.67	1.62	9.67	2.22	1.50	2.10	23.48	1.18	1.22	
14	1.26	1.10	1.62	0.63	2.26	6.15	2.14	1.42	1.94	4.50	1.18	1.18	
15	1.26	1.02	1.22	0.63	1.94	4.82	1.98	1.42	1.82	3.20	1.14	1.14	
16	1.26	1.10	1.18	0.70	1.42	4.11	1.90	1.42	2.26	2.62	1.10	1.14	
17	1.26	1.26	1.14	0.70	2.39	3.72	1.86	1.42	2.52	2.39	1.10	1.10	
18	1.18	1.26	1.26	0.63	1.94	4.89	1.86	1.42	2.06	2.34	1.18	1.14	
19	1.26	1.58	1.18	0.63	2.18	4.11	1.82	1.54	2.06	2.43	1.18	1.14	
20	1.50	1.26	1.10	0.63	4.76	4.17	1.94	1.50	1.86	3.46	1.10	2.57	
21	1.38	1.14	1.10	0.63	3.85	3.33	1.90	2.10	1.82	2.71	1.10	1.30	
22	1.22	1.10	0.98	0.63	9.50	3.02	1.86	1.82	1.98	2.39	1.06	1.18	
23	1.10	1.10	1.62	0.63	7.06	2.84	1.78	1.90	1.82	2.06	1.02	1.14	
24	1.02	0.94	1.26	0.70	2.34	2.75	1.74	4.63	1.78	1.94	1.02	1.10	
25	1.02	0.94	1.10	0.82	6.50	2.57	2.62	16.68	1.74	1.86	1.02	1.06	
26	1.02	0.86	1.02	0.74	7.62	15.84	1.74	4.57	1.74	1.82	1.06	1.06	
27	0.94	0.86	1.02	0.70	10.00	4.05	1.58	3.27	1.58	1.74	1.10	0.98	
28	0.94	0.86	0.86	0.70	9.41	6.99	1.50	2.43	1.46	1.66	1.14	0.94	
29	0.94	0.86	0.86	0.70	12.10	6.08	1.58	2.26	1.54	1.62	1.22	0.94	
30	0.94	0.78	0.86	1.58	8.39	3.40	1.58	2.10	1.46	1.62		1.14	
31		0.74		0.98	4.05		1.90		1.42	1.58		1.82	
Total	47.40	41.49	35.16	26.21	111.46	229.24	68.81	73.32	60.99	106.66	35.26	40.77	876.77 CMSDAY
Mean	1.58	1.34	1.17	0.85	3.60	7.64	2.22	2.44	1.97	3.44	1.22	1.32	2.40 CMS
Max	4.24	6.01	1.98	1.58	12.10	79.80	3.20	16.68	3.53	23.48	1.54	2.57	79.80 CMS
Min	0.94	0.74	0.74	0.63	0.70	1.70	1.50	1.42	1.42	1.58	1.02	0.94	0.63 CMS
Runoff	4.10	3.59	3.04	2.27	9.63	19.81	5.95	6.34	5.27	9.22	3.05	3.52	75.75 MCM
Momentary Peak	124.00 CMS. at 31.85 m. (MSL.) at 16.00 Hours , on Sep 11 , 2011												
Runoff Yield	24.20 Liters/Second/Square KM.			Momentary Peak Yield			1252.525 Liters/Second/Square KM.						

	Ban	Na Kaeo	Amphoe	Khuan Kalong	Changwat	Satun
Drainage Area	208	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On left bank near the top staff gage.				Elevation	+14.092 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 52 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012													
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.50	7.00	6.60	6.70	6.65	8.44	7.78	6.65	7.10	7.60	6.74	6.60	
2	7.20	7.00	6.60	6.70	6.65	8.45	7.22	6.65	7.05	7.50	6.74	6.60	
3	7.10	6.65	6.60	6.70	6.65	7.51	7.01	6.60	7.05	7.40	6.74	6.62	
4	7.00	6.65	7.00	6.70	6.65	7.28	7.51	6.60	7.05	7.40	6.73	6.64	
5	7.00	6.88	7.00	6.70	6.60	7.09	7.31	7.00	7.05	7.65	6.73	6.66	
6	6.98	7.00	6.65	6.65	6.60	7.00	7.15	7.80	7.00	7.80	6.73	6.66	
7	6.97	7.00	6.64	6.65	6.60	7.00	7.00	7.50	7.00	8.10	6.72	6.65	
8	6.96	7.00	6.64	6.65	6.60	7.22	7.00	7.00	7.00	8.06	6.72	6.65	
9	6.95	7.00	6.60	6.65	6.58	8.04	7.00	6.98	6.98	8.00	6.72	6.64	
10	6.94	7.00	7.00	6.65	6.58	8.80	7.00	6.64	6.95	7.50	6.71	6.64	
11	6.93	7.00	7.00	6.65	6.56	12.22	7.13	6.60	6.95	7.30	6.71	6.67	
12	6.92	6.95	7.00	6.65	6.60	12.51	7.00	6.60	6.90	7.35	6.71	6.66	
13	6.91	6.92	7.00	6.65	6.65	8.22	7.00	6.60	6.90	7.40	6.70	6.65	
14	6.90	6.89	7.00	6.65	6.70	7.76	7.00	6.60	6.88	7.38	6.70	6.64	
15	6.89	6.75	7.00	6.65	7.12	7.61	6.97	6.60	6.88	7.40	6.70	6.63	
16	6.88	6.70	7.00	6.60	7.82	7.52	7.08	7.20	6.87	7.45	6.69	6.65	
17	6.87	6.90	7.00	6.60	8.40	7.49	7.10	7.00	6.87	7.50	6.69	6.69	
18	6.86	7.10	7.00	6.60	7.81	8.14	7.07	7.00	6.87	7.30	6.69	6.72	
19	6.85	7.10	7.00	6.60	7.37	8.30	7.07	6.90	6.86	7.20	6.69	6.72	
20	6.84	7.10	7.00	6.60	8.14	7.25	7.07	7.20	6.86	7.10	6.68	6.73	
21	6.82	7.00	7.00	6.75	8.67	7.17	7.00	7.00	6.85	7.00	6.68	6.70	
22	6.76	6.80	7.00	6.75	8.59	7.09	7.00	7.20	6.85	6.98	6.68	6.68	
23	6.74	6.68	6.65	6.75	9.02	7.09	7.00	8.80	6.85	6.94	6.66	6.66	
24	6.72	6.67	6.65	6.75	8.53	7.11	7.00	8.40	6.84	6.90	6.65	6.65	
25	6.70	6.66	6.65	6.75	8.93	7.39	7.00	9.08	6.84	6.85	6.64	6.65	
26	6.69	6.65	6.65	6.80	9.60	9.76	6.96	8.60	6.83	6.80	6.63	6.64	
27	6.68	6.64	6.60	6.80	9.71	8.47	6.94	8.40	6.83	6.76	6.62	6.64	
28	6.67	6.63	6.60	6.80	9.42	9.55	6.90	8.30	6.82	6.72	6.61	6.64	
29	6.66	6.62	6.65	6.80	9.03	8.03	6.86	7.65	6.81	6.70	6.60	6.63	
30	6.65	6.61	6.69	6.80	8.46	7.50	6.83	7.05	6.80	6.70		6.63	
31		6.59		6.80	8.05		6.80		6.80	6.69		6.63	
Mean	6.88	6.84	6.82	6.70	7.66	8.10	7.06	7.27	6.91	7.27	6.69	6.65	
Max	7.50	7.10	7.00	6.80	9.71	12.51	7.78	9.08	7.10	8.10	6.74	6.73	12.51
Min	6.65	6.59	6.60	6.60	6.56	7.00	6.80	6.60	6.80	6.69	6.60	6.60	6.56
Annual Max Momentary Gage Height		13.69		m. (MSL.) ,		at 03.00 Hours , on Sep 12 , 2011							
Zero Gage at Bottom Elevation		0.00		m. (MSL.) ,		River Bed	6.18	m. (MSL)					
Left Bank Elevation		13.99		m. (MSL.) ,									
Right Bank Elevation		13.97		m. (MSL.) ,		Drainage Area	208	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.00	3.50	1.00	1.50	1.25	19.12	10.80	1.25	4.25	9.00	1.70	1.00	
2	5.00	3.50	1.00	1.50	1.25	19.27	5.20	1.25	3.88	8.00	1.70	1.00	
3	4.25	1.25	1.00	1.50	1.25	8.10	3.58	1.00	3.88	7.00	1.70	1.10	
4	3.50	1.25	3.50	1.50	1.25	5.80	8.10	1.00	3.88	7.00	1.65	1.20	
5	3.50	2.60	3.50	1.50	1.00	4.18	6.10	3.50	3.88	9.50	1.65	1.30	
6	3.35	3.50	1.25	1.25	1.00	3.50	4.63	11.00	3.50	11.00	1.65	1.30	
7	3.27	3.50	1.20	1.25	1.00	3.50	3.50	8.00	3.50	14.75	1.60	1.25	
8	3.20	3.50	1.20	1.25	1.00	5.20	3.50	3.50	3.50	14.25	1.60	1.25	
9	3.12	3.50	1.00	1.25	0.90	14.00	3.50	3.35	3.35	13.50	1.60	1.20	
10	3.05	3.50	3.50	1.25	0.90	24.70	3.50	1.20	3.12	8.00	1.55	1.20	
11	2.97	3.50	3.50	1.25	0.80	109.20	4.48	1.00	3.12	6.00	1.55	1.35	
12	2.90	3.12	3.50	1.25	1.00	119.35	3.50	1.00	2.75	6.50	1.55	1.30	
13	2.82	2.90	3.50	1.25	1.25	16.25	3.50	1.00	2.75	7.00	1.50	1.25	
14	2.75	2.67	3.50	1.25	1.50	10.60	3.50	1.00	2.60	6.80	1.50	1.20	
15	2.67	1.75	3.50	1.25	4.40	9.10	3.27	1.00	2.60	7.00	1.50	1.15	
16	2.60	1.50	3.50	1.00	11.25	8.20	4.10	5.00	2.52	7.50	1.45	1.25	
17	2.52	2.75	3.50	1.00	18.50	7.90	4.25	3.50	2.52	8.00	1.45	1.45	
18	2.45	4.25	3.50	1.00	11.12	15.25	4.03	3.50	2.52	6.00	1.45	1.60	
19	2.37	4.25	3.50	1.00	6.70	17.25	4.03	2.75	2.45	5.00	1.45	1.60	
20	2.30	4.25	3.50	1.00	15.25	5.50	4.03	5.00	2.45	4.25	1.40	1.65	
21	2.15	3.50	3.50	1.75	22.68	4.78	3.50	3.50	2.37	3.50	1.40	1.50	
22	1.80	2.00	3.50	1.75	21.44	4.18	3.50	5.00	2.37	3.35	1.40	1.40	
23	1.70	1.40	1.25	1.75	29.25	4.18	3.50	24.70	2.37	3.05	1.30	1.30	
24	1.60	1.35	1.25	1.75	20.51	4.33	3.50	18.50	2.30	2.75	1.25	1.25	
25	1.50	1.30	1.25	1.75	27.50	6.90	3.50	30.00	2.30	2.37	1.20	1.25	
26	1.45	1.25	1.25	2.00	39.00	42.20	3.20	21.60	2.22	2.00	1.15	1.20	
27	1.40	1.20	1.00	2.00	41.20	19.59	3.05	18.50	2.22	1.80	1.10	1.20	
28	1.35	1.15	1.00	2.00	35.40	38.00	2.75	17.25	2.15	1.60	1.05	1.20	
29	1.30	1.10	1.25	2.00	29.37	13.87	2.45	9.50	2.07	1.50	1.00	1.15	
30	1.25	1.05	1.45	2.00	19.43	8.00	2.22	3.88	2.00	1.50		1.15	
31		0.95		2.00	14.13		2.00		2.00	1.45		1.15	
Total	82.09	76.79	69.85	45.75	382.48	572.00	124.27	212.23	87.39	190.92	42.05	39.35	1925.17 CMSDAY
Mean	2.74	2.48	2.33	1.48	12.34	19.07	4.01	7.07	2.82	6.16	1.45	1.27	5.26 CMS
Max	8.00	4.25	3.50	2.00	41.20	119.35	10.80	30.00	4.25	14.75	1.70	1.65	119.35 CMS
Min	1.25	0.95	1.00	1.00	0.80	3.50	2.00	1.00	2.00	1.45	1.00	1.00	0.80 CMS
Runoff	7.09	6.64	6.04	3.95	33.05	49.42	10.74	18.34	7.55	16.50	3.63	3.40	166.34 MCM
Momentary Peak CMS. at 13.69 m. (MSL.) at 03.00 Hours , on Sep 12 , 2011													
Runoff Yield	25.29	Liters/Second/Square KM.			Momentary Peak Yield			781.731	Liters/Second/Square KM.				

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST

Lower Khlong Tha Prae at Ban Ta Lam , Satun (X.264)

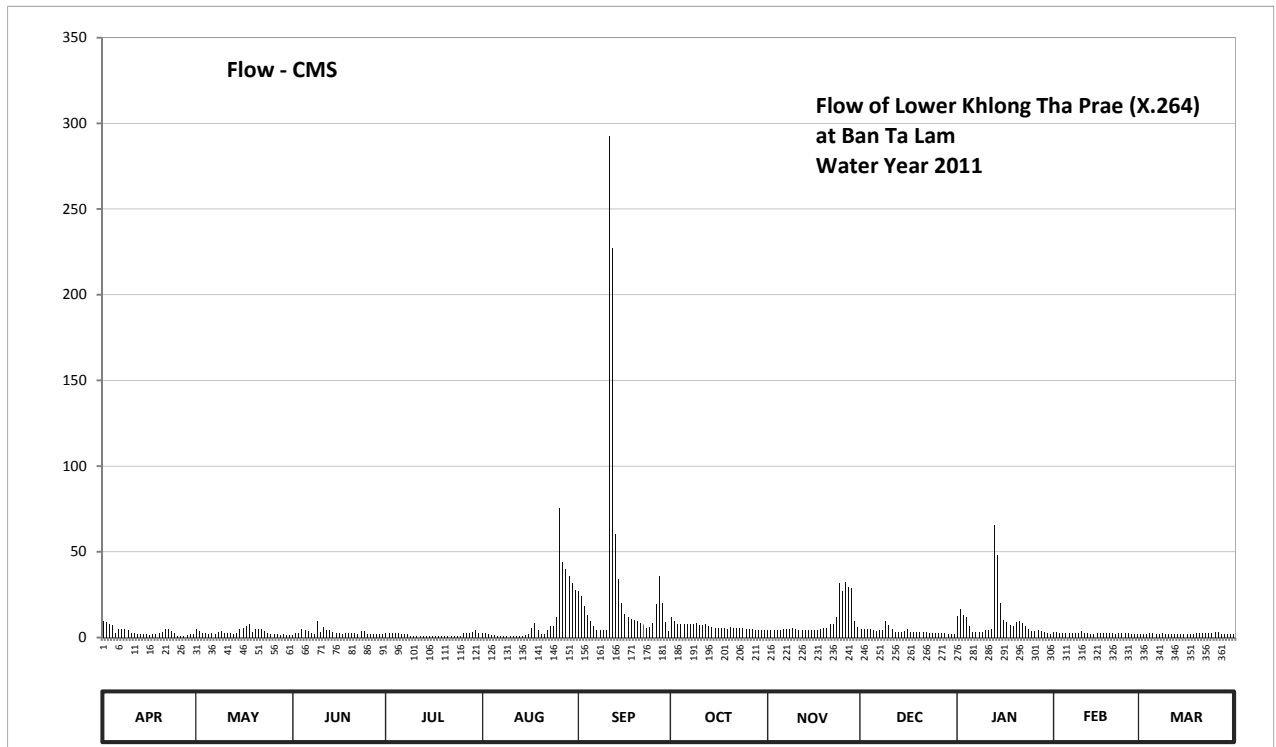
Lat 06 - 47 - 46 N Long 99 - 57 - 17 E

Location : on right bank at Ban Ta Lam.

	Ban	Ta Lam	Amphoe	Tha Pae	Changwat	Satun
Drainage Area	223	sq.km.				
Type of Gage	Staff gage					
Zero Gage at Bottom	+0.000	m. (MSL.)				
Bench Mark	B.M.-H.D.					
Location BM	On right bank near the top staff gage.				Elevation	+6.425 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.					
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings					
Period of Available Gage Records	2007 to date					
Rating Operation						
Period of Rating	2007 to date					
Rated by Flot	-					
Rated by Current Meter	2007 to date					
Stability of Channel Regimes	Stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records good. Stage-discharge relation defined by 52 discharge measurements made in 2011.					

Gage Height in Meter (MSL.) Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.79	1.40	0.83	1.09	1.12	2.80	2.01	1.32	1.40	2.03	1.15	1.02	
2	1.77	1.22	1.10	1.09	1.10	2.66	1.80	1.34	1.40	2.28	1.14	1.00	
3	1.68	1.10	1.04	1.08	0.96	2.39	1.66	1.33	1.39	2.08	1.10	1.00	
4	1.63	1.08	1.36	1.08	0.90	2.08	1.67	1.30	1.38	1.97	1.09	1.04	
5	1.11	1.00	1.30	1.12	0.85	1.83	1.68	1.30	1.30	1.56	1.06	1.04	
6	1.37	1.04	1.25	1.00	0.80	1.54	1.66	1.36	1.26	1.20	1.06	1.02	
7	1.36	1.00	1.10	1.00	0.79	1.30	1.65	1.39	1.28	1.19	1.04	1.02	
8	1.40	1.18	0.96	0.98	0.78	1.30	1.69	1.40	1.28	1.18	1.04	1.04	
9	1.28	1.21	1.80	0.80	0.76	1.30	1.70	1.47	1.79	1.16	1.07	1.02	
10	1.10	1.10	1.20	0.80	0.76	1.30	1.64	1.36	1.60	1.28	1.22	1.00	
11	1.08	1.10	1.50	0.80	0.81	4.97	1.60	1.34	1.42	1.28	1.09	1.02	
12	1.00	1.08	1.30	0.80	0.80	4.69	1.65	1.32	1.20	1.40	1.04	1.02	
13	0.99	1.00	1.30	0.80	0.79	3.67	1.54	1.32	1.20	3.74	1.02	1.02	
14	0.96	1.04	1.16	0.80	0.78	3.05	1.50	1.30	1.18	3.46	1.02	1.02	
15	0.95	1.36	1.10	0.80	0.86	2.48	1.47	1.30	1.26	2.47	1.04	1.00	
16	0.90	1.43	1.09	0.80	1.00	2.10	1.46	1.30	1.37	1.87	1.04	1.02	
17	1.02	1.58	1.00	0.80	1.45	1.98	1.46	1.28	1.20	1.76	1.08	1.02	
18	1.00	1.66	1.06	0.80	1.73	1.90	1.43	1.38	1.19	1.61	1.08	1.02	
19	1.07	1.20	1.08	0.79	1.33	1.88	1.42	1.48	1.20	1.59	1.04	1.04	
20	1.20	1.40	1.08	0.80	1.00	1.80	1.50	1.46	1.20	1.77	1.04	1.04	
21	1.40	1.42	1.07	0.76	0.98	1.74	1.47	1.66	1.18	1.83	1.03	1.07	
22	1.40	1.38	1.00	0.80	1.31	1.65	1.46	1.69	1.16	1.72	1.08	1.06	
23	1.22	1.26	1.26	0.80	1.59	1.46	1.44	2.00	1.12	1.59	1.07	1.04	
24	1.06	1.09	1.21	0.80	1.56	1.50	1.44	2.96	1.10	1.42	1.06	1.04	
25	0.82	1.00	1.00	0.75	1.98	1.73	1.35	2.79	1.10	1.24	1.04	1.20	
26	0.82	1.00	1.00	1.09	3.84	2.45	1.36	2.98	1.08	1.24	1.03	1.18	
27	0.80	0.96	1.00	1.10	3.36	3.10	1.36	2.87	1.06	1.28	1.02	1.02	
28	0.90	0.93	0.97	1.10	3.23	2.48	1.34	2.85	1.04	1.23	1.01	1.00	
29	0.95	1.00	0.96	1.17	3.10	1.75	1.32	1.84	0.99	1.14	1.00	1.00	
30	1.00	0.94	0.95	1.30	2.97	1.27	1.31	1.49	0.97	1.05		1.00	
31		0.88		1.08	2.82		1.30		0.97	1.03		1.00	
Mean	1.17	1.16	1.13	0.93	1.49	2.21	1.53	1.67	1.23	1.67	1.06	1.03	
Max	1.79	1.66	1.80	1.30	3.84	4.97	2.01	2.98	1.79	3.74	1.22	1.20	4.97
Min	0.80	0.88	0.83	0.75	0.76	1.27	1.30	1.28	0.97	1.03	1.00	1.00	0.75
Annual Max Momentary Gage Height	5.58		m. (MSL.) ,			at 18.00 Hours , on Sep 11 , 2011							
Zero Gage at Bottom Elevation	0.00		m. (MSL.) ,			River Bed	0.05	m. (MSL)					
Left Bank Elevation	6.47		m. (MSL.) ,										
Right Bank Elevation	6.42		m. (MSL.) ,			Drainage Area	223	Square Kilometers					



Discharge in Cubic Meter per Second , Water Year April 1, 2011 to March 31, 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.28	5.00	1.15	2.63	2.84	27.20	12.16	4.36	5.00	12.48	3.05	2.14		
2	9.04	3.56	2.70	2.63	2.70	23.98	9.40	4.52	5.00	16.56	2.98	2.00		
3	7.96	2.70	2.28	2.56	1.80	18.43	7.72	4.44	4.92	13.28	2.70	2.00		
4	7.36	2.56	4.68	2.56	1.50	13.28	7.84	4.20	4.84	11.61	2.63	2.28		
5	2.77	2.00	4.20	2.84	1.25	9.79	7.96	4.20	4.20	6.60	2.42	2.28		
6	4.76	2.28	3.80	2.00	1.00	6.40	7.72	4.68	3.88	3.40	2.42	2.14		
7	4.68	2.00	2.70	2.00	0.95	4.20	7.60	4.92	4.04	3.33	2.28	2.14		
8	5.00	3.26	1.80	1.90	0.90	4.20	8.08	5.00	4.04	3.26	2.28	2.28		
9	4.04	3.48	9.40	1.00	0.80	4.20	8.20	5.70	9.28	3.12	2.49	2.14		
10	2.70	2.70	3.40	1.00	0.80	4.20	7.48	4.68	7.00	4.04	3.56	2.00		
11	2.56	2.70	6.00	1.00	1.05	292.80	7.00	4.52	5.20	4.04	2.63	2.14		
12	2.00	2.56	4.20	1.00	1.00	226.92	7.60	4.36	3.40	5.00	2.28	2.14		
13	1.95	2.00	4.20	1.00	0.95	60.26	6.40	4.36	3.40	65.72	2.14	2.14		
14	1.80	2.28	3.12	1.00	0.90	34.30	6.00	4.20	3.26	47.94	2.14	2.14		
15	1.75	4.68	2.70	1.00	1.30	20.20	5.70	4.20	3.88	20.00	2.28	2.00		
16	1.50	5.30	2.63	1.00	2.00	13.60	5.60	4.20	4.76	10.31	2.28	2.14		
17	2.14	6.80	2.00	1.00	5.50	11.74	5.60	4.04	3.40	8.92	2.56	2.14		
18	2.00	7.72	2.42	1.00	8.56	10.70	5.30	4.84	3.33	7.12	2.56	2.14		
19	2.49	3.40	2.56	0.95	4.44	10.44	5.20	5.80	3.40	6.90	2.28	2.28		
20	3.40	5.00	2.56	1.00	2.00	9.40	6.00	5.60	3.40	9.04	2.28	2.28		
21	5.00	5.20	2.49	0.80	1.90	8.68	5.70	7.72	3.26	9.79	2.21	2.49		
22	5.00	4.84	2.00	1.00	4.28	7.60	5.60	8.08	3.12	8.44	2.56	2.42		
23	3.56	3.88	3.88	1.00	6.90	5.60	5.40	12.00	2.84	6.90	2.49	2.28		
24	2.42	2.63	3.48	1.00	6.60	6.00	5.40	31.68	2.70	5.20	2.42	2.28		
25	1.10	2.00	2.00	0.75	11.74	8.56	4.60	26.97	2.70	3.72	2.28	3.40		
26	1.10	2.00	2.00	2.63	75.60	19.60	4.68	32.24	2.56	3.72	2.21	3.26		
27	1.00	1.80	2.00	2.70	43.76	35.80	4.68	29.16	2.42	4.04	2.14	2.14		
28	1.50	1.65	1.85	2.70	39.73	20.20	4.52	28.60	2.28	3.64	2.07	2.00		
29	1.75	2.00	1.80	3.19	35.80	8.80	4.36	9.92	1.95	2.98	2.00	2.00		
30	2.00	1.70	1.75	4.20	31.96	3.96	4.28	5.90	1.85	2.35		2.00		
31		1.40		2.56	27.76		4.20		1.85	2.21		2.00		
Total	103.61	101.08	91.75	53.60	328.27	931.04	197.98	285.09	117.16	315.66	70.62	69.21	2665.07	CMSDAY
Mean	3.45	3.26	3.06	1.73	10.59	31.03	6.39	9.50	3.78	10.18	2.44	2.23	7.28	CMS
Max	9.28	7.72	9.40	4.20	75.60	292.80	12.16	32.24	9.28	65.72	3.56	3.40	292.80	CMS
Min	1.00	1.40	1.15	0.75	0.80	3.96	4.20	4.04	1.85	2.21	2.00	2.00	0.75	CMS
Runoff	8.95	8.73	7.93	4.63	28.36	80.44	17.11	24.63	10.12	27.27	6.10	5.98	230.26	MCM
Momentary Peak	CMS. at 5.58 m. (MSL.) at 18.00 Hours , on Sep 11 , 2011													
Runoff Yield	32.65	Liters/Second/Square KM.			Momentary Peak Yield		2038.565	Liters/Second/Square KM.						

Suspended Sediment Station

Water Year 2011

WATER YEAR : 2011**KHONG RIVER BASIN****Huai Mong at Ban Na Ang , Udon Thani (Kh.18)**

Lat 17 - 34 - 41 N Long 102 - 20 - 22 E

Location : on right bank between Phu Pha Dang and Phu Phan about 2 kilometers from Ban Na Ang.

	Ban Na Ang	Amphoe Ban Phu	Changwat Udon Thani
Drainage Area	1,309 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1999-Cont'd		
Actual Measurement	1999-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	19		
R-Square	0.7324		
Remarks	Continued Sediment Station		

$$QS = 4.0443 QW^{1.07930}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	2.80	44.40	18.70	1415.60	191.50	462.90	23.70	15.70	12.50	12.20	0.00		
2	0.00	3.30	18.70	19.10	1706.30	178.00	413.70	23.70	15.40	12.50	12.20	0.00		
3	0.00	3.90	5.00	25.80	1178.20	127.80	502.10	23.70	14.70	12.00	12.00	0.00		
4	0.00	5.00	13.90	33.40	1010.20	78.90	653.40	22.90	14.40	11.70	12.00	0.00		
5	0.00	6.30	103.50	26.60	852.10	81.20	614.50	22.00	14.10	11.20	12.20	0.00		
6	0.00	7.00	245.90	7.80	614.50	164.50	458.00	20.80	13.90	11.20	12.20	0.00		
7	0.00	7.50	523.10	1.80	423.50	354.60	333.30	20.40	13.60	11.20	12.00	0.00		
8	0.00	8.30	625.10	0.80	243.10	413.70	234.60	19.50	12.80	10.90	11.40	0.00		
9	0.00	9.40	425.90	0.20	124.20	389.20	201.90	20.00	12.00	10.90	10.90	0.00		
10	0.00	10.40	287.20	15.20	48.10	379.40	152.30	23.70	11.40	11.20	10.10	0.00		
11	0.00	11.70	233.20	189.40	25.40	358.50	86.50	31.30	11.20	11.40	9.10	0.00		
12	0.00	13.30	216.30	197.70	25.40	386.70	57.60	28.70	10.70	11.20	8.10	0.00		
13	0.00	15.20	207.90	138.60	58.90	582.70	72.80	22.40	9.90	11.40	6.80	0.00		
14	0.00	16.80	186.30	109.00	77.40	1257.80	133.20	20.00	9.40	11.70	5.50	0.00		
15	0.00	13.90	100.40	149.50	80.40	1878.40	111.70	20.00	9.10	11.40	3.40	0.00		
16	0.00	13.60	37.30	152.30	139.50	1469.40	117.90	18.70	9.60	11.20	3.40	0.00		
17	0.00	15.40	11.70	101.90	198.80	1102.90	102.70	18.30	10.40	11.20	3.30	0.00		
18	0.00	19.10	11.70	72.10	440.70	792.70	71.30	17.50	11.20	11.20	2.20	0.00		
19	0.00	26.20	12.00	45.60	544.10	657.00	45.00	16.80	11.40	11.20	1.80	0.00		
20	0.20	40.60	12.20	17.90	572.10	610.90	34.30	16.60	11.70	11.20	1.50	0.00		
21	0.40	46.90	18.30	22.00	561.60	540.60	31.30	16.60	11.70	11.40	1.10	0.00		
22	0.50	26.20	13.30	60.80	554.60	482.70	17.90	16.60	11.70	12.00	0.80	0.00		
23	0.70	19.50	4.00	115.30	495.20	490.20	14.40	16.60	11.70	11.70	0.30	0.00		
24	0.90	14.10	2.00	80.40	374.50	435.80	22.40	16.30	11.70	11.40	0.10	0.00		
25	1.20	16.80	6.80	133.20	240.20	289.10	30.40	16.60	11.70	11.20	0.00	0.00		
26	1.40	122.40	81.90	331.40	170.70	192.50	27.50	16.30	11.70	11.20	0.00	0.00		
27	1.60	621.50	133.20	356.60	156.30	279.60	27.50	16.30	11.70	11.70	0.00	0.00		
28	1.80	898.70	93.40	128.70	210.70	635.70	27.50	16.00	11.40	12.00	0.00	0.00		
29	2.00	586.20	50.00	33.40	221.90	859.80	28.30	16.00	11.70	12.20	0.00	0.00		
30	2.30	331.40	28.30	30.40	201.90	691.60	27.90	16.00	12.00	12.50		0.00		
31		161.40		227.50	196.70		27.10		12.20	12.20		0.00		
Total	13.00	3094.80	3752.90	2843.10	13162.80	16353.40	5141.90	594.00	371.80	357.90	164.60	0.00	45850.20	Ton
Mean	0.40	99.80	125.10	91.70	424.60	545.10	165.90	19.80	12.00	11.50	5.70	0.00		
Max	2.30	898.70	625.10	356.60	1706.30	1878.40	653.40	31.30	15.70	12.50	12.20	0.00	1878.40	
Min	0.00	2.80	2.00	0.20	25.40	78.90	14.40	16.00	9.10	10.90	0.00	0.00	0.00	

WATER YEAR : 2011**KHONG RIVER BASIN****Loei River at Ban Na Lak , Loei (Kh.28A)**

Lat 17 - 18 - 32 N Long 101 - 46 - 25 E

Location : on right bank at the bridge of Wang Saphung - Loei Highway.

	Ban	Na Lak	Amphoe	Wang Saphung	Changwat	Loei
Drainage Area	1,271	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1998-Cont'd					
Actual Measurement	1998-Cont'd					
Using Rating Curve Water Year	1998-2011					
Number of observation	247					
R-Square	0.8304					
Remarks	Continued Sediment Station					

$$QS = 5.5656 QW^{1.32040}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	64.60	0.50	2.80	14.80	7340.60	1965.10	1779.40	229.40	229.40	212.20	178.80	150.70	
2	67.20	0.80	2.20	26.90	4328.10	1832.00	2495.80	225.10	229.40	212.20	178.80	150.70	
3	59.30	0.50	101.30	51.60	4524.20	2238.00	11384.50	220.80	229.40	212.20	182.90	146.80	
4	59.30	0.20	432.00	13.40	4847.50	1670.60	23883.50	216.50	229.40	208.00	187.00	142.90	
5	54.10	0.10	132.00	4.10	1647.20	2265.70	4376.90	212.20	229.40	208.00	191.10	139.00	
6	54.10	0.20	1023.30	1.90	657.20	3704.00	3784.00	208.00	229.40	203.70	195.30	135.20	
7	54.10	0.30	1451.40	1.30	912.30	5760.30	2005.50	203.70	229.40	203.70	199.50	131.40	
8	61.90	0.20	144.80	1.10	47.80	4303.70	1394.90	199.50	229.40	203.70	199.50	131.40	
9	56.70	0.20	20.70	1.60	25.30	2668.00	1070.40	195.30	229.40	199.50	195.30	135.20	
10	56.70	0.10	3.50	23.70	16.20	4747.40	1156.50	191.10	229.40	199.50	195.30	150.70	
11	51.60	0.10	1.90	37.00	26.90	4847.50	704.90	187.00	229.40	199.50	187.00	170.60	
12	44.20	0.10	1.20	17.70	610.40	16717.50	195.30	182.90	225.10	195.30	187.00	166.60	
13	41.70	0.10	0.80	28.60	753.30	41893.00	125.70	178.80	225.10	195.30	187.00	182.90	
14	39.40	0.40	0.80	44.20	138.40	18285.90	151.30	178.80	225.10	191.10	182.90	203.70	
15	39.40	0.20	0.70	205.80	184.90	6291.20	92.50	174.70	225.10	187.00	182.90	195.30	
16	37.00	0.20	1.10	432.00	75.40	5791.20	174.70	174.70	225.10	182.90	182.90	203.70	
17	34.70	0.20	3.50	151.30	995.30	3216.90	164.60	170.60	225.10	178.80	178.80	212.20	
18	32.40	0.20	1.70	38.80	3844.20	1965.10	382.00	170.60	225.10	178.80	178.80	191.10	
19	23.70	0.30	1.50	249.20	3134.70	3291.40	657.70	162.60	225.10	178.80	174.70	174.70	
20	21.70	1.60	1.30	1146.90	3604.70	2810.80	479.10	158.60	225.10	174.70	174.70	166.60	
21	21.70	2.10	1.30	125.70	4548.90	3291.40	395.20	154.60	225.10	187.00	170.60	158.60	
22	21.70	0.90	1.40	271.60	1647.20	4128.20	329.60	150.70	220.80	203.70	166.60	150.70	
23	21.70	0.30	0.80	164.60	753.30	4128.20	301.50	146.80	220.80	203.70	166.60	150.70	
24	19.70	0.30	0.60	59.30	125.70	3824.10	269.40	142.90	220.80	203.70	162.60	146.80	
25	21.70	2.10	0.90	157.90	249.20	2747.10	255.90	142.90	220.80	208.00	162.60	139.00	
26	41.70	802.60	63.20	205.80	3134.70	2321.50	242.60	139.00	220.80	199.50	158.60	135.20	
27	41.70	1166.20	1250.80	44.20	1372.50	2636.50	238.20	139.00	220.80	182.90	158.60	135.20	
28	72.70	398.50	271.60	16.20	1951.70	5822.10	233.80	135.20	220.80	182.90	154.60	131.40	
29	69.90	432.00	184.90	4.80	1070.40	5458.00	233.80	135.20	216.50	178.80	154.60	127.60	
30	131.40	33.60	59.30	2.00	2073.20	5637.00	229.40	131.40	216.50	178.80		123.80	
31		35.30		382.00	2114.10		229.40		216.50	174.70		123.80	
Total	1417.70	2880.40	5163.30	3926.00	56755.50	176259.40	59418.00	5258.60	6969.50	6028.60	5175.60	4804.20	334056.80
Mean	47.30	92.90	172.10	126.60	1830.80	5875.30	1916.70	175.30	224.80	194.50	178.50	155.00	
Max	131.40	1166.20	1451.40	1146.90	7340.60	41893.00	23883.50	229.40	229.40	212.20	199.50	212.20	41893.00
Min	19.70	0.10	0.60	1.10	16.20	1670.60	92.50	131.40	216.50	174.70	154.60	123.80	0.10

WATER YEAR : 2011**KHONG RIVER BASIN****Loei River at Ban Fak loei , Loei (Kh.58A)**

Lat 17 - 29 - 36 N Long 101 - 44 - 17 E

Location : on left bank at the bridge on road.

	Ban	Fak Loei	Amphoe	Mueang	Changwat	Loei
Drainage Area	3,093	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1998-Cont'd					
Actual Measurement	1998-Cont'd					
Using Rating Curve Water Year	1998-2011					
Number of observation	299					
R-Square	0.8345					
Remarks	Continued Sediment Station					

$$QS = 7.0552 QW^{1.23600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.10	200.50	603.90	628.50	10461.80	4745.00	4681.60	399.50	135.10	54.10	51.60	27.40	
2	36.70	240.90	579.50	515.50	11928.90	4432.60	6077.10	407.10	130.60	62.00	49.00	29.70	
3	36.70	187.40	678.20	720.10	12004.60	3942.60	14183.80	399.50	118.50	64.60	49.00	29.70	
4	44.00	126.00	1044.20	595.80	11319.10	2906.70	30494.20	392.00	112.50	62.00	51.60	25.20	
5	46.50	109.60	1181.70	499.70	5350.60	3506.80	18754.30	340.10	106.60	62.00	54.10	27.40	
6	36.70	153.80	1555.70	407.10	2187.80	5900.10	8018.90	318.30	103.70	59.30	62.00	29.70	
7	39.10	200.50	3042.20	282.60	1334.10	10024.10	4766.10	282.60	95.10	59.30	67.30	29.70	
8	44.00	130.60	2923.30	240.90	999.10	10335.40	2906.70	303.90	89.40	59.30	64.60	27.40	
9	56.70	130.60	1453.80	311.10	720.10	6077.10	2526.30	384.50	89.40	56.70	62.00	27.40	
10	51.60	92.20	779.60	1032.90	669.80	6485.30	2282.10	414.60	83.70	56.70	59.30	27.40	
11	46.50	72.70	484.00	1965.80	645.00	8648.30	1919.90	429.90	75.40	56.70	51.60	34.40	
12	41.60	72.70	460.70	1263.30	1981.10	11583.80	1541.10	507.60	70.00	54.10	44.00	49.00	
13	41.60	97.90	476.20	1393.70	3745.20	31142.40	1228.20	460.70	70.00	54.10	36.70	62.00	
14	39.10	289.70	476.20	1541.10	3963.10	40306.20	1263.30	377.00	70.00	51.60	29.70	64.60	
15	34.40	234.10	414.60	1721.00	2824.40	25489.50	1357.90	325.50	67.30	51.60	32.00	59.30	
16	29.70	422.20	399.50	1541.10	1889.40	14587.30	1796.10	234.10	67.30	49.00	34.40	54.10	
17	29.70	445.20	437.50	1228.20	2060.80	8767.10	1721.00	247.80	67.30	46.50	34.40	49.00	
18	29.70	437.50	407.10	728.60	8859.00	4972.70	1599.80	261.60	64.60	46.50	32.00	49.00	
19	32.00	407.10	531.40	661.50	9469.10	4972.70	1429.70	227.30	64.60	44.00	32.00	51.60	
20	25.20	678.20	620.30	1135.50	5649.10	8978.40	1078.20	220.50	64.60	46.50	29.70	54.10	
21	18.70	571.40	452.90	694.90	8048.90	8018.90	954.40	213.80	62.00	59.30	29.70	49.00	
22	32.00	384.50	282.60	910.10	4576.20	9531.30	943.20	187.40	62.00	70.00	29.70	41.60	
23	130.60	207.10	187.40	888.00	2494.20	8828.40	866.10	174.40	59.30	80.90	27.40	36.70	
24	20.80	180.90	118.50	1066.90	1441.70	7185.40	653.20	163.20	59.30	95.10	27.40	34.40	
25	29.70	261.60	97.90	2187.80	1322.30	5251.70	563.40	158.50	56.70	95.10	27.40	29.70	
26	115.50	910.10	468.40	3173.30	4269.00	3212.50	499.70	153.80	56.70	89.40	25.20	29.70	
27	70.00	2824.40	1541.10	1965.80	2690.80	4106.70	468.40	144.40	54.10	80.90	25.20	27.40	
28	64.60	2060.80	1089.60	1089.60	3564.00	10553.30	460.70	139.70	54.10	80.90	27.40	25.20	
29	64.60	1429.70	1158.50	745.50	2690.80	10585.00	445.20	139.70	51.60	72.70	29.70	18.70	
30	89.40	1066.90	1055.50	515.50	2526.30	8166.10	429.90	135.10	51.60	54.10		20.80	
31		745.50		1298.60	4766.10		414.60		49.00	49.00		20.80	
Total	1416.50	15372.30	25002.00	32950.00	136452.40	293243.40	116325.10	8544.10	2362.10	1924.00	1176.1	142.10	635910.30
Mean	47.20	495.90	833.40	1062.90	4401.70	9774.80	3752.40	284.80	76.20	62.10	40.60	36.80	
Max	130.60	2824.40	3042.20	3173.30	12004.60	40306.20	30494.20	507.60	135.10	95.10	67.30	64.60	40306.20
Min	18.70	72.70	97.90	240.90	645.00	2906.70	414.60	135.10	49.00	44.00	25.20	18.70	18.70

WATER YEAR : 2011**KHONG RIVER BASIN****Loei River at Ban Keng Bong , Loei (Kh.61)**

Lat 17 - 07 - 44 N Long 101 - 40 - 56 E

Location : on right bank at the bridge of Amphoe Wang Saphung - Ban Nong Khan Road.

	Ban Keng Bong	Amphoe Phu Luang	Changwat Loei
Drainage Area	549 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2011		
Number of observation	234		
R-Square	0.7190		
Remarks	Continued Sediment Station		

$$QS = 6.8976 QW^{1.38230}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.70	23.90	142.00	174.70	8735.80	765.10	1650.50	99.20	118.80	35.90	23.00	16.80	
2	2.60	23.90	136.80	152.70	5180.20	841.90	1782.00	94.40	106.40	40.20	23.90	17.60	
3	2.60	24.90	142.00	131.60	8963.60	1139.80	10981.00	92.10	92.10	41.30	24.90	18.50	
4	2.60	24.90	144.70	123.90	4640.80	1056.10	8584.90	92.10	78.30	41.30	25.80	18.50	
5	2.40	24.90	163.60	116.30	894.10	1446.00	2053.20	87.40	65.20	40.20	26.80	19.40	
6	2.40	24.90	273.20	106.40	362.20	2296.60	1702.80	85.10	54.80	40.20	27.80	19.40	
7	2.40	24.90	174.70	106.40	240.60	2464.60	1547.30	82.90	45.70	41.30	28.80	18.50	
8	4.30	24.90	155.40	118.80	170.50	2635.80	1421.00	85.10	42.40	41.30	28.80	17.60	
9	3.70	24.90	147.30	139.40	147.30	1650.50	1371.30	92.10	39.10	40.20	27.80	17.60	
10	3.20	24.90	136.80	116.30	606.00	5567.40	1327.00	99.20	38.10	40.20	27.80	18.50	
11	3.20	24.90	113.80	106.40	678.20	9116.30	1239.60	89.80	37.00	39.10	26.80	22.10	
12	3.20	24.90	89.80	99.20	920.60	32001.10	1196.50	85.10	37.00	38.10	26.80	28.80	
13	2.20	24.90	61.00	82.90	629.80	22023.40	1042.30	80.60	35.90	37.00	25.80	28.80	
14	1.60	24.90	33.80	78.30	377.70	2197.40	446.90	76.10	35.90	35.90	25.80	28.80	
15	1.60	24.90	42.40	78.30	282.80	1835.40	48.80	71.70	35.90	34.90	24.90	40.20	
16	1.60	24.90	42.40	78.30	187.40	1729.10	32.80	67.40	34.90	34.90	23.90	52.80	
17	1.60	24.90	42.40	76.10	666.00	1598.70	71.70	63.10	34.90	34.90	23.00	29.80	
18	1.60	24.90	42.40	85.10	5290.10	1446.00	108.90	58.90	34.90	34.90	22.10	22.10	
19	1.60	29.80	42.40	178.90	947.30	1446.00	136.80	54.80	34.90	34.90	21.20	20.30	
20	1.60	38.10	41.30	362.20	9269.70	1471.20	150.00	50.80	34.90	33.80	20.30	19.40	
21	1.60	32.80	40.20	254.40	3542.50	1572.90	150.00	46.90	33.80	33.80	19.40	18.50	
22	1.80	30.80	38.10	297.30	947.30	1729.10	147.30	45.70	33.80	33.80	18.50	17.60	
23	9.60	28.80	34.90	204.70	457.80	1139.80	142.00	42.40	33.80	33.80	18.50	17.60	
24	11.10	31.80	30.80	147.30	307.00	357.10	139.40	40.20	33.80	32.80	18.50	17.60	
25	12.60	34.90	43.50	155.40	1396.10	321.80	136.80	39.10	33.80	31.80	17.60	16.80	
26	12.60	34.90	249.80	196.00	1371.30	321.80	136.80	38.10	33.80	29.80	17.60	16.80	
27	2.40	34.90	1943.50	183.10	326.80	841.90	134.20	37.00	32.80	27.80	17.60	15.90	
28	0.00	39.10	155.40	160.80	209.10	3246.10	131.60	35.90	32.80	25.80	17.60	15.10	
29	0.00	129.00	907.40	101.60	245.20	1650.50	129.00	34.90	32.80	24.90	16.80	15.10	
30	0.00	136.80	170.50	80.60	1283.10	1547.30	126.40	33.80	32.80	23.90		14.20	
31		131.60		594.20	1782.00		126.40		32.80	23.00		14.20	
Total	101.40	1179.50	5782.30	4887.60	61058.90	107456.70	38395.20	2001.90	1403.90	1081.70	668.10	654.90	224672.10
Mean	3.40	38.00	192.70	157.70	1969.60	3581.90	1238.60	66.70	45.30	34.90	23.00	21.10	
Max	12.60	136.80	1943.50	594.20	9269.70	32001.10	10981.00	99.20	118.80	41.30	28.80	52.80	32001.10
Min	0.00	23.90	30.80	76.10	147.30	321.80	32.80	33.80	32.80	23.00	16.80	14.20	0.00

WATER YEAR : 2011**KHONG RIVER BASIN****Lam Nam Phung at Ban Tong Khop , Sakon Nakhon (Kh.90)**

Lat 17 - 04 - 05 N Long 104 - 15 - 32 E

Location : on right bank at the bridge on highway.

	Ban Tong Khop	Amphoe Khok Si Suphan	Changwat Sakon Nakhon
Drainage Area	861 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	20		
R-Square	0.8616		
Remarks	Continued Sediment Station		

$$QS = 3.6181 QW^{1.24490}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.50	28.50	50.00	245.50	1137.70	320.70	170.10	82.80	33.70	40.10	41.20	39.00	
2	29.50	29.50	51.20	1301.20	1735.30	491.40	298.60	74.90	26.50	40.10	40.10	40.10	
3	30.60	40.10	76.20	400.80	1031.40	626.30	1093.20	65.80	25.50	40.10	40.10	37.90	
4	30.60	60.80	107.40	214.30	739.40	790.00	671.80	67.10	43.30	40.10	41.20	39.00	
5	30.60	81.40	95.00	142.90	409.00	900.60	371.00	67.10	43.30	40.10	40.10	37.90	
6	35.80	88.20	124.70	110.30	287.10	721.50	275.60	65.80	34.70	39.00	40.10	37.90	
7	35.80	59.50	153.00	95.00	400.80	488.30	228.90	65.80	30.60	41.20	39.00	37.90	
8	35.80	96.30	101.90	84.10	572.60	497.50	194.60	64.50	28.50	43.30	40.10	37.90	
9	36.80	63.30	99.10	81.40	357.60	566.30	175.30	62.00	28.50	42.20	41.20	37.90	
10	39.00	57.00	110.30	81.40	269.90	509.90	171.80	60.80	26.50	40.10	41.20	39.00	
11	41.20	55.80	86.80	80.10	296.70	352.30	151.30	58.30	23.50	40.10	40.10	37.90	
12	46.70	55.80	73.50	73.50	283.20	357.60	139.50	57.00	23.50	39.00	41.20	36.80	
13	46.70	55.80	67.10	76.20	194.60	384.50	124.70	57.00	29.50	40.10	41.20	36.80	
14	46.70	62.00	68.40	84.10	247.40	365.60	664.70	53.50	27.50	40.10	40.10	37.90	
15	46.70	236.30	65.80	114.50	657.70	339.00	949.40	47.80	28.50	41.20	40.10	39.00	
16	46.70	210.70	92.20	331.10	790.00	273.70	428.30	32.60	28.50	42.20	41.20	39.00	
17	46.70	207.10	234.40	283.20	661.20	277.50	298.60	30.60	31.60	42.20	41.20	39.00	
18	46.70	175.30	121.70	170.10	661.20	279.40	227.10	29.50	30.60	42.20	40.10	39.00	
19	46.70	173.50	108.80	117.40	1247.00	328.50	173.50	28.50	30.60	42.20	40.10	40.10	
20	46.70	163.20	139.50	107.40	2898.20	227.10	141.20	28.50	29.50	43.30	41.20	40.10	
21	46.70	117.40	194.60	171.80	1996.90	210.70	126.40	23.50	28.50	44.40	40.10	39.00	
22	47.80	104.60	151.30	241.80	908.10	287.10	118.80	18.80	28.50	48.90	39.00	40.10	
23	50.00	77.50	103.20	171.80	503.70	247.40	108.80	11.60	28.50	45.60	39.00	41.20	
24	50.00	60.80	84.10	194.60	428.30	216.10	106.00	8.30	29.50	44.40	37.90	41.20	
25	50.00	35.80	99.10	194.60	491.40	198.20	95.00	8.30	27.50	43.30	39.00	40.10	
26	50.00	20.60	96.30	241.80	298.60	177.00	92.20	7.50	26.50	40.10	39.00	40.10	
27	50.00	18.80	82.80	166.60	266.10	171.80	85.50	8.30	32.60	40.10	40.10	40.10	
28	50.00	18.80	72.20	124.70	312.80	177.00	84.10	30.60	41.20	41.20	40.10	40.10	
29	57.00	18.80	68.40	113.10	264.20	182.30	84.10	46.70	41.20	41.20	40.10	40.10	
30	25.50	12.50	69.70	201.70	310.20	178.80	84.10	47.80	41.20	42.20		40.10	
31		3.20		1142.10	283.20		82.80		41.20	42.20		40.10	
Total	1272.50	2488.90	3048.70	7159.10	20941.50	11144.10	8017.00	1311.30	970.80	1292.50	1165.10	1212.30	60023.80
Mean	42.40	80.30	101.60	230.90	675.50	371.50	258.60	43.70	31.30	41.70	40.20	39.10	
Max	57.00	236.30	234.40	1301.20	2898.20	900.60	1093.20	82.80	43.30	48.90	41.20	41.20	2898.20
Min	25.50	3.20	50.00	73.50	194.60	171.80	82.80	7.50	23.50	39.00	37.90	36.80	3.20

WATER YEAR : 2011**KHONG RIVER BASIN****Huai Chanot at Ban Khon Sawan , Nakhon Phanom (Kh.91)**

Lat 16 - 47 - 48 N Long 104 - 39 - 45 E

Location : on left bank at the bridge on highway.

	Ban Don Sawan	Amphoe That Phanom	Changwat Nakhon Phanom
Drainage Area	172 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	20		
R-Square	0.9404		
Remarks	Continued Sediment Station		

$$QS = 5.6762 QW^{0.97320}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.70	0.20	0.50	75.80	91.50	32.80	25.60	7.50	2.50	2.20	2.50	1.10		
2	0.60	0.20	3.00	185.40	102.70	64.90	24.50	7.20	2.30	2.10	3.20	1.00		
3	0.50	0.20	2.20	102.70	108.30	86.50	23.70	7.20	2.30	2.10	3.00	0.90		
4	0.50	0.20	1.90	51.20	99.70	128.40	22.90	7.00	2.30	2.10	2.50	0.90		
5	0.50	0.20	3.70	20.80	84.60	140.60	21.90	6.80	2.30	2.20	2.10	1.20		
6	0.40	0.20	6.20	9.90	73.10	145.20	21.10	6.70	2.30	2.70	1.60	1.20		
7	0.40	0.20	8.10	8.00	104.80	129.00	18.70	5.80	2.50	3.00	1.20	0.90		
8	0.60	0.20	4.80	7.30	149.80	97.10	17.90	6.20	2.80	2.70	1.10	0.90		
9	0.90	0.60	3.30	7.30	170.40	109.40	16.80	6.00	3.00	2.10	1.10	0.90		
10	0.90	0.40	2.00	10.60	235.10	116.50	13.60	5.70	2.50	1.80	2.00	0.90		
11	0.80	0.30	1.90	11.30	162.80	100.20	11.90	5.50	2.30	1.80	2.20	1.00		
12	0.50	0.20	1.00	12.30	109.90	131.90	11.70	5.30	2.20	2.00	2.20	1.20		
13	0.40	0.20	0.60	26.80	82.30	136.20	16.30	5.00	2.10	2.00	1.90	0.80		
14	0.40	0.50	0.60	40.60	57.80	121.70	33.70	4.80	2.50	2.10	1.40	0.60		
15	0.30	10.80	0.60	57.80	50.80	117.00	101.70	5.70	3.30	2.80	1.10	0.60		
16	0.20	7.30	0.70	77.70	45.40	113.90	97.10	5.70	4.00	5.20	1.20	0.60		
17	0.20	7.30	2.30	61.10	46.90	116.50	66.50	5.00	3.20	4.30	1.20	0.70		
18	0.20	4.70	5.00	31.80	52.00	137.10	45.80	4.50	2.50	2.80	1.20	1.80		
19	0.20	4.80	6.50	16.00	108.30	114.40	31.50	3.80	2.80	2.30	1.10	2.20		
20	0.30	6.30	7.30	9.90	242.60	86.00	22.40	3.80	2.50	2.70	1.10	2.00		
21	0.20	4.70	4.30	29.60	184.20	66.90	18.70	3.20	2.50	5.20	1.10	1.60		
22	0.20	2.70	8.10	58.20	117.50	51.60	11.70	3.50	2.30	9.10	1.10	1.20		
23	0.20	1.40	8.10	54.90	86.00	42.80	9.30	3.70	2.30	21.90	1.00	0.70		
24	0.30	0.80	4.50	43.50	62.80	35.90	11.90	4.80	2.10	10.60	0.90	0.60		
25	0.30	0.60	3.80	30.60	48.70	29.30	11.00	4.70	2.10	6.70	0.90	0.60		
26	0.20	0.40	3.70	20.00	41.00	26.80	9.90	3.80	2.20	4.50	0.90	0.60		
27	0.20	0.40	2.70	10.40	31.80	26.80	9.50	3.20	2.50	3.20	1.10	0.60		
28	0.20	0.30	3.00	14.90	22.90	30.60	9.30	2.50	3.20	2.80	1.10	0.50		
29	0.20	0.30	9.00	14.90	20.80	28.30	9.00	2.50	2.70	2.50	1.10	0.50		
30	0.20	0.20	22.10	37.80	18.70	27.10	9.00	2.50	2.50	2.10		0.50		
31		0.20		69.40	22.10		8.50		2.50	2.00		0.50		
Total	11.70	57.00	131.50	1208.50	2835.30	2591.40	763.10	149.60	79.10	121.60	44.10	29.30	8022.20	Ton
Mean	0.40	1.80	4.40	39.00	91.50	86.40	24.60	5.00	2.60	3.90	1.50	0.90		
Max	0.90	10.80	22.10	185.40	242.60	145.20	101.70	7.50	4.00	21.90	3.20	2.20	242.60	
Min	0.20	0.20	0.50	7.30	18.70	26.80	8.50	2.50	2.10	1.80	0.90	0.50	0.20	

WATER YEAR : 2011**KHONG RIVER BASIN****Huai Bang Sai at Ban Kan Luang Dong , Muk Dahan (Kh.92)**

Lat 16 - 44 - 06 N Long 104 - 31 - 23 E

Location : on left bank at the bridge on highway.

	Ban Kan Luang Dong	Amphoe Dong Luang	Changwat Muk Dahan
Drainage Area	1,119 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	20		
R-Square	0.8623		
Remarks	Continued Sediment Station		

$$QS = 2.5208 QW^{1.22980}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	1.10	1.10	362.70	1426.30	658.00	109.80	47.00	3.80	0.00	0.00	0.00		
2	1.10	1.10	2.20	2667.50	2577.50	506.40	115.10	49.20	3.80	0.00	0.00	0.00		
3	1.10	1.10	2.50	2602.00	2269.00	653.80	662.20	44.90	3.20	0.00	0.00	0.00		
4	1.10	1.60	5.90	237.40	747.50	1886.70	389.30	41.70	3.50	0.00	0.00	0.00		
5	1.10	1.60	28.60	94.20	343.10	1527.40	208.20	40.70	2.50	0.00	0.00	0.00		
6	1.10	2.20	44.90	47.00	314.00	1192.00	163.50	36.60	3.20	0.00	0.00	0.00		
7	1.10	4.20	17.40	38.60	1527.40	1076.30	79.10	31.50	2.20	0.00	0.00	0.00		
8	1.10	13.00	8.90	33.50	2284.50	679.10	72.50	26.60	2.20	0.00	0.00	0.00		
9	1.10	19.10	5.90	29.50	1604.10	1251.00	82.40	24.70	2.20	0.00	0.00	0.00		
10	1.10	21.90	14.70	191.50	1879.40	1031.80	72.50	24.70	2.20	0.00	0.00	0.00		
11	1.10	17.40	24.70	170.40	1388.90	895.30	69.30	26.60	1.60	0.80	0.30	0.00		
12	1.10	18.20	17.40	165.80	927.80	1186.10	92.50	22.80	1.60	0.80	0.30	0.00		
13	1.10	40.70	14.70	282.20	392.60	884.60	138.60	21.00	1.60	0.30	0.30	0.00		
14	1.10	77.40	13.00	556.80	533.40	580.30	416.20	18.20	1.60	0.30	0.00	0.30		
15	1.10	152.10	13.00	632.80	1070.70	713.10	423.30	17.40	0.80	0.00	0.00	0.80		
16	1.10	179.70	16.50	525.70	1489.30	1031.80	196.20	16.50	0.80	0.00	0.00	1.60		
17	1.10	170.40	32.50	215.40	1540.20	1728.30	145.30	15.60	0.80	0.00	0.00	1.60		
18	1.10	165.80	64.50	154.30	1174.40	2207.30	156.60	15.60	0.30	0.00	0.00	0.80		
19	1.10	145.30	61.30	124.00	2791.00	1227.40	133.10	13.00	0.30	0.00	0.00	0.80		
20	1.10	108.10	66.10	85.80	5258.70	764.80	106.30	11.40	0.30	0.30	0.00	0.80		
21	1.10	62.90	69.30	541.20	3157.80	641.20	99.40	8.90	0.00	0.80	0.00	1.60		
22	1.10	48.10	38.60	1413.70	1432.50	385.90	89.10	8.90	0.30	0.80	0.00	1.60		
23	1.30	11.40	17.40	944.00	976.80	346.30	82.40	8.20	1.10	0.80	0.00	1.60		
24	1.30	3.80	9.70	730.30	662.20	266.60	79.10	5.60	0.00	0.80	0.00	0.80		
25	1.30	2.50	7.40	456.90	564.60	196.20	79.10	5.60	0.00	0.30	0.00	0.80		
26	1.30	1.60	7.40	275.90	464.50	186.80	69.30	4.80	0.00	0.30	0.00	0.80		
27	1.30	1.60	5.60	220.30	479.60	191.50	52.40	4.80	0.00	0.00	0.00	0.80		
28	1.30	1.60	6.60	449.40	406.00	205.80	47.00	4.80	0.00	0.00	0.00	0.80		
29	1.30	0.80	19.10	215.40	468.30	124.00	47.00	3.80	0.00	0.00	0.00	0.80		
30	1.30	0.80	49.20	369.30	560.70	124.00	47.00	3.80	0.00	0.00		0.80		
31		0.80		1174.40	1054.00		44.90		0.00	0.00		0.80		
Total	34.60	1277.90	686.10	16007.90	41766.80	24349.80	4568.70	604.90	39.90	6.30	0.90	17.90	89361.70	Ton
Mean	1.20	41.20	22.90	516.40	1347.30	811.70	147.40	20.20	1.30	0.20	0.00	0.60		
Max	1.30	179.70	69.30	2667.50	5258.70	2207.30	662.20	49.20	3.80	0.80	0.30	1.60	5258.70	
Min	1.10	0.80	1.10	29.50	314.00	124.00	44.90	3.80	0.00	0.00	0.00	0.00	0.00	

WATER YEAR : 2011**KHONG RIVER BASIN****Huai Luang at Ban Non Toom , Udon Thani (Kh.103)**

Lat 17 - 28 - 56 N Long 102 - 47 - 49 E

Location : on right bank at the bridge on highway.

	Ban	Non Toom	Amphoe	Mueang	Changwat	Udon Thani
Drainage Area	1,235	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2004-Cont'd					
Actual Measurement	2004-Cont'd					
Using Rating Curve Water Year	2007-2011					
Number of observation	100					
R-Square	0.8384					
Remarks	Continued Sediment Station					

$$QS = 6.3777 QW^{1.00840}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	15.60	3.40	6.10	16.70	292.30	358.10	312.30	22.00	4.10	5.20	3.00	8.30		
2	14.90	10.40	5.20	17.20	405.40	358.10	304.30	25.60	4.10	4.30	3.00	7.70		
3	13.80	20.80	4.30	18.80	464.00	362.80	320.90	15.60	3.40	3.00	3.00	7.50		
4	12.80	19.60	12.60	23.50	489.30	362.80	339.50	8.60	2.60	2.20	3.00	7.70		
5	12.60	14.30	19.40	27.90	489.30	358.10	348.80	7.70	2.40	2.40	2.60	7.70		
6	12.20	7.70	23.80	22.00	464.00	368.10	344.20	7.90	2.20	2.40	2.20	7.90		
7	12.20	6.50	51.40	15.80	437.30	384.10	339.50	7.50	2.20	2.20	2.20	8.60		
8	11.70	5.00	118.90	11.10	384.10	405.40	316.20	6.50	2.00	2.20	2.20	9.30		
9	11.10	4.10	158.30	7.00	296.30	458.70	292.30	5.00	2.20	2.00	2.20	9.50		
10	11.10	3.40	147.20	5.70	239.90	522.70	245.90	7.70	2.20	2.00	2.20	11.10		
11	9.30	3.00	105.10	7.70	202.20	557.10	208.80	17.80	2.20	2.00	2.40	16.10		
12	8.80	2.80	49.30	5.40	174.90	522.70	182.90	60.80	2.00	1.80	2.80	24.60		
13	8.10	3.00	26.30	5.40	147.20	509.30	170.90	35.20	1.30	1.80	3.00	56.60		
14	7.00	2.80	22.60	5.20	113.00	516.00	140.00	11.30	1.30	1.80	3.20	23.80		
15	6.80	3.20	19.60	5.40	99.20	652.10	117.60	8.30	2.00	1.80	4.30	18.30		
16	5.90	2.80	16.10	7.90	120.90	1011.90	111.00	7.50	3.80	1.60	4.80	18.10		
17	5.70	2.40	13.50	9.90	150.30	1080.30	127.50	7.00	4.10	1.80	4.10	16.30		
18	7.00	4.80	11.30	11.10	192.90	958.90	136.70	6.50	3.60	1.80	3.40	14.40		
19	6.80	7.50	10.10	12.20	241.90	789.50	132.80	6.10	3.40	1.80	4.30	12.40		
20	6.80	18.10	8.60	11.30	330.20	683.80	108.40	5.70	4.30	1.80	5.00	10.60		
21	7.00	22.80	6.50	12.20	378.70	588.80	73.40	5.20	5.40	1.30	4.50	8.30		
22	6.30	17.00	5.20	18.10	421.40	546.60	61.40	5.00	7.00	1.30	5.00	6.80		
23	5.40	16.70	4.80	18.50	426.70	502.70	53.50	4.80	6.50	1.30	5.20	6.30		
24	5.40	15.80	7.90	28.90	405.40	458.70	48.30	4.30	5.70	1.40	5.20	6.30		
25	5.40	16.30	15.40	15.60	368.10	426.70	47.70	5.00	6.30	1.40	5.90	6.30		
26	3.80	25.80	14.00	35.20	304.30	400.00	40.40	4.50	6.10	1.30	6.80	5.40		
27	3.20	21.00	15.80	40.90	280.40	344.20	24.60	4.50	5.90	1.40	7.70	5.20		
28	2.80	15.80	15.40	44.10	292.30	312.30	20.80	4.50	6.10	1.40	8.30	5.40		
29	2.40	11.90	15.80	122.90	320.90	308.30	16.30	4.10	5.40	1.40	8.80	6.30		
30	2.40	8.10	16.50	109.10	348.80	308.30	13.30	4.10	5.40	1.40		7.20		
31		6.80		166.20	358.10		11.90		5.40	2.20		6.10		
Total	244.30	323.60	947.00	858.90	9639.70	15417.10	5012.10	326.30	120.60	61.70	120.30	366.10	33437.70	Ton
Mean	8.10	10.40	31.60	27.70	311.00	513.90	161.70	10.90	3.90	2.00	4.10	11.80		
Max	15.60	25.80	158.30	166.20	489.30	1080.30	348.80	60.80	7.00	5.20	8.80	56.60	1080.30	
Min	2.40	2.40	4.30	5.20	99.20	308.30	11.90	4.10	1.30	1.30	2.20	5.20	1.30	

WATER YEAR : 2011**NAM MAE KOK RIVER BASIN****Nam Mae Lao at Ban Ton Yang , Chiang Rai (G.8)**

Lat 19 - 47 - 32 N Long 99 - 45 - 11 E

Location : on left bank at the bridge of Chiang Rai - Phayao Highway, Tambon Bua Sali.

	Ban Ton Yang	Amphoe Mae Lao	Changwat Chiang Rai
Drainage Area	2,909 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	30		
R-Square	0.9240		
Remarks	Continued Sediment Station		

$$QS = 3.9963 QW^{1.55770}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.40	241.10	465.30	398.70	1973.20	7041.90	19401.50	3206.30	1357.10	151.10	36.30	34.00	
2	7.50	605.20	225.10	335.90	7328.80	8628.30	15608.90	2884.90	1324.60	117.20	41.30	29.40	
3	7.50	1075.30	194.20	323.80	15765.50	7041.90	11318.30	2728.70	1324.60	117.20	61.00	27.10	
4	7.50	1737.70	186.80	274.30	14224.90	6397.30	8951.40	2677.40	1324.60	117.20	73.80	27.10	
5	7.50	1197.60	186.80	291.40	5507.90	6232.00	7619.80	2575.70	1260.60	107.00	56.90	31.60	
6	9.00	2013.50	438.20	209.40	2626.40	6150.00	6232.00	2389.00	1260.60	144.30	46.30	31.60	
7	11.90	942.30	626.00	87.50	2136.10	6759.10	4891.50	2261.30	1228.90	92.20	38.80	29.40	
8	11.90	479.00	411.70	41.30	3732.50	5987.10	4469.70	2136.10	1228.90	61.00	36.30	29.40	
9	11.90	373.10	257.50	27.10	2575.70	5507.90	5043.10	2136.10	1228.90	52.90	34.00	27.10	
10	9.00	755.90	179.40	25.10	2177.60	4749.40	4820.30	2303.60	1166.60	43.80	31.60	27.10	
11	9.00	1626.70	112.10	17.20	3667.80	4469.70	4332.10	2054.10	1105.40	38.80	29.40	29.40	
12	9.00	2219.30	92.20	52.90	7717.70	3483.40	3797.50	1973.20	1045.40	36.30	27.10	49.00	
13	13.60	1105.40	92.20	78.20	14988.20	8213.80	3261.10	1973.20	1015.90	38.80	25.10	241.10	
14	43.80	506.90	92.20	49.00	11457.90	29822.90	2884.90	1933.20	1015.90	65.10	25.10	225.10	
15	15.30	398.70	87.50	465.30	6852.90	37017.60	2728.70	1893.50	1015.90	179.40	25.10	241.10	
16	11.90	411.70	69.40	2677.40	3928.80	20610.50	3261.10	1854.10	991.10	144.30	22.90	217.20	
17	10.40	521.10	15.30	3862.90	3862.90	11598.10	4332.10	1815.00	991.10	107.00	25.10	172.20	
18	10.40	733.70	31.60	5586.70	4128.70	8735.60	3862.90	1815.00	942.30	92.20	29.40	122.50	
19	17.20	1592.00	31.60	2575.70	4196.10	8843.20	4400.70	1776.20	894.30	73.80	27.10	82.80	
20	56.90	2475.50	13.60	1166.60	5906.20	10903.10	4061.70	1776.20	870.70	56.90	27.10	78.20	
21	41.30	2136.10	52.90	2095.00	9945.80	12308.50	3732.50	1699.50	847.30	46.30	27.10	65.10	
22	27.10	991.10	41.30	1324.60	10765.90	10903.10	3206.30	1626.70	626.00	41.30	27.10	52.90	
23	22.90	521.10	21.00	535.40	8843.20	8843.20	2303.60	1626.70	564.40	38.80	25.10	43.80	
24	25.10	492.90	15.30	668.30	5745.70	8213.80	1973.20	1592.00	506.90	36.30	22.90	56.90	
25	43.80	335.90	17.20	1626.70	5196.40	9278.70	1973.20	1523.50	451.70	36.30	25.10	49.00	
26	241.10	411.70	424.90	1357.10	13773.90	7914.80	1854.10	1592.00	424.90	36.30	34.00	36.30	
27	265.80	1228.90	3862.90	549.80	14074.00	8213.80	1661.60	1592.00	451.70	41.30	34.00	34.00	
28	225.10	465.30	4196.10	506.90	27668.50	11598.10	1815.00	1523.50	438.20	34.00	31.60	41.30	
29	144.30	398.70	2013.50	549.80	18244.30	24335.00	1893.50	1422.80	424.90	31.60	34.00	36.30	
30	122.50	506.90	549.80	300.10	9499.20	21520.80	1933.20	1389.80	373.10	31.60		27.10	
31		521.10		300.10	6947.20		4263.90		249.20	36.30		27.10	
Total	1446.60	29021.40	15003.60	28360.20	255459.90	331322.60	151889.40	59751.30	27951.70	2246.60	980.60	2222.20	905656.30
Mean	48.20	936.20	500.10	914.80	8240.60	11044.10	4899.70	1991.70	901.70	72.50	33.80	71.70	
Max	265.80	2475.50	4196.10	5586.70	27668.50	37017.60	19401.50	3206.30	1357.10	179.40	73.80	241.10	37017.60
Min	6.40	241.10	13.60	17.20	1973.20	3483.40	1661.60	1389.80	249.20	31.60	22.90	27.10	6.40

WATER YEAR : 2011**CHI RIVER BASIN****Chi River at Ban Non Puai , Chaiyaphum (E.5)**

Lat 15 - 46 - 08 N Long 101 - 49 - 01 E

Location : on left bank near Ban Non Puai about 30 meters downstream from Ban Tango.

	Ban	Non Puai	Amphoe	Ban Khwao	Changwat	Chaiyaphum
Drainage Area	4,207	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1998-Cont'd					
Actual Measurement	1998-Cont'd					
Using Rating Curve Water Year	1998-2011					
Number of observation	259					
R-Square	0.8735					
Remarks	Continued Sediment Station					

$$QS = 3.9882 QW^{1.27070}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	88.80	339.10	84.00	471.90	3826.30	7377.50	238.30	84.00	26.20	24.00	7.20	
2	0.50	98.80	348.30	103.80	1842.10	2619.40	7261.90	226.30	74.40	24.00	19.60	6.10	
3	2.10	98.80	637.00	108.90	3505.50	1921.10	6530.20	220.30	74.40	21.80	19.60	6.10	
4	1.20	88.80	1704.70	108.90	4537.50	1819.70	5832.30	214.40	69.70	24.00	19.60	5.00	
5	1.20	69.70	1131.80	173.80	5156.40	1752.70	5801.20	202.60	65.10	24.00	19.60	5.00	
6	0.50	53.40	543.00	124.50	4986.80	1771.30	5877.80	196.70	56.00	26.20	21.80	5.00	
7	1.20	53.40	300.40	79.10	2855.70	2052.40	5693.80	179.50	50.70	26.20	21.80	4.00	
8	3.00	69.70	191.00	60.50	1001.80	2882.50	5026.20	162.50	56.00	26.20	24.00	4.00	
9	4.00	93.80	119.30	48.10	385.50	3486.10	3791.40	151.50	60.50	24.00	24.00	4.00	
10	7.20	69.70	65.10	43.00	800.90	3309.10	2977.60	146.00	56.00	24.00	24.00	5.00	
11	11.50	45.60	40.50	40.50	1853.40	4857.50	2839.30	151.50	53.40	21.80	21.80	8.40	
12	11.50	43.00	24.00	48.10	930.00	6094.40	2820.80	162.50	50.70	21.80	21.80	15.40	
13	11.50	38.00	19.60	60.50	433.00	7239.30	2696.30	151.50	48.10	19.60	21.80	21.80	
14	9.60	40.50	13.40	56.00	376.10	9327.30	2589.10	140.60	45.60	19.60	19.60	28.50	
15	8.40	50.70	13.40	79.10	376.10	22173.40	2534.90	129.80	43.00	21.80	19.60	24.00	
16	7.20	108.90	11.50	146.00	481.70	27863.30	2627.50	124.50	43.00	21.80	19.60	24.00	
17	5.00	93.80	11.50	250.50	613.20	16762.40	2781.90	124.50	43.00	21.80	19.60	21.80	
18	4.00	74.40	11.50	256.60	1172.50	12706.40	2839.30	124.50	40.50	21.80	17.50	17.50	
19	2.10	65.10	17.50	250.50	1864.60	10273.70	2757.40	119.30	38.00	24.00	17.50	17.50	
20	0.50	53.40	26.20	287.80	2611.30	8248.60	2550.90	114.10	38.00	26.20	17.50	15.40	
21	0.50	53.40	43.00	313.20	4251.30	6712.20	2300.80	108.90	38.00	28.50	15.40	13.40	
22	0.50	84.00	74.40	348.30	5485.00	5634.30	2077.40	108.90	35.60	38.00	15.40	13.40	
23	1.20	79.10	56.00	423.40	6031.70	5313.10	1926.80	98.80	35.60	84.00	15.40	9.60	
24	2.10	65.10	48.10	462.10	6186.40	5378.90	1830.90	93.80	35.60	69.70	13.40	9.60	
25	4.00	48.10	43.00	319.70	4908.20	5456.70	1760.10	93.80	33.20	60.50	13.40	8.40	
26	6.10	40.50	38.00	376.10	3125.60	5364.80	1508.30	93.80	33.20	53.40	11.50	7.20	
27	13.40	40.50	35.60	843.50	2222.50	4639.80	1296.30	88.80	30.80	50.70	11.50	6.10	
28	28.50	48.10	84.00	1131.80	1949.50	5037.80	886.50	88.80	30.80	43.00	9.60	6.10	
29	45.60	53.40	157.00	491.60	2287.00	5985.90	433.00	84.00	30.80	35.60	9.60	7.20	
30	69.70	140.60	74.40	385.50	3300.60	6895.20	269.00	79.10	30.80	33.20		7.20	
31		376.10		326.10	4055.30		250.50		28.50	26.20		6.10	
Total	263.80	2427.20	6222.30	7831.50	80059.10	207405.60	97746.90	4219.60	1453.00	989.60	529.50	340.00	409488.10
Mean	8.80	78.30	207.40	252.60	2582.60	6913.50	3153.10	140.70	46.90	31.90	18.30	11.00	
Max	69.70	376.10	1704.70	1131.80	6186.40	27863.30	7377.50	238.30	84.00	84.00	24.00	28.50	27863.30
Min	0.00	38.00	11.50	40.50	376.10	1752.70	250.50	79.10	28.50	19.60	9.60	4.00	0.00

WATER YEAR : 2011**CHI RIVER BASIN****Lam Nam Phong at Ban Tha Mao , Khon Kaen (E.22B)**

Lat 16 - 39 - 13 N Long 102 - 49 - 39 E

Location : on right bank at Ban Tha Mao.

	Ban Tha Mao	Amphoe Nam Phong	Changwat Khon Kaen
Drainage Area	13,638 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2004-Cont'd		
Actual Measurement	2004-Cont'd		
Using Rating Curve Water Year	2004-2011		
Number of observation	163		
R-Square	0.7717		
Remarks	Continued Sediment Station		

$$QS = 3.1322 QW^{1.06740}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.10	36.80	445.50	333.50	526.40	1102.20	2148.30	1314.00	244.10	294.60	316.00	94.00	
2	58.00	41.50	479.20	328.10	569.00	1134.10	2165.00	1256.80	245.50	306.70	318.70	137.20	
3	60.40	60.40	495.30	321.40	593.20	1174.90	2355.40	1224.60	250.70	317.40	316.00	250.70	
4	66.90	75.80	498.50	317.40	619.30	1198.30	2599.00	1189.50	260.00	320.10	317.40	318.70	
5	85.70	66.90	504.90	316.00	634.20	1224.60	2784.40	1166.20	301.30	308.00	318.70	325.50	
6	145.70	40.30	526.40	312.00	593.20	1266.00	2769.00	1145.80	385.30	278.60	316.00	330.80	
7	182.20	39.70	550.50	309.30	559.70	1338.00	2635.80	1134.10	385.30	285.30	316.00	337.60	
8	188.70	38.50	554.20	291.90	522.70	1446.10	2687.00	1131.20	322.80	297.30	318.70	343.10	
9	193.00	39.70	563.40	274.60	508.20	1481.50	2646.00	1113.80	375.20	305.30	328.10	316.00	
10	197.60	72.60	567.10	301.30	515.30	1521.00	2676.70	1125.40	426.30	290.60	316.00	238.90	
11	196.40	183.30	554.20	313.40	546.70	1517.10	2707.50	1142.90	458.30	236.20	279.90	213.90	
12	193.00	185.40	519.00	376.60	570.90	1457.90	2738.20	1151.60	471.10	260.00	296.00	212.60	
13	193.00	160.70	506.50	469.50	574.60	1392.90	2861.50	1154.50	445.50	287.90	302.60	224.40	
14	191.90	138.20	488.80	515.30	589.50	1379.20	3000.50	1140.00	463.10	297.30	304.00	229.60	
15	188.70	181.10	480.80	557.90	664.20	1442.10	3063.50	1044.20	443.90	313.40	302.60	231.00	
16	193.00	184.30	479.20	593.20	715.00	1556.60	3146.20	871.40	432.70	316.00	301.30	237.50	
17	196.40	167.10	472.70	638.00	769.70	1679.60	3146.20	677.30	429.50	313.40	300.00	241.50	
18	197.60	122.40	467.90	574.60	948.00	1783.30	3096.50	561.60	421.50	305.30	305.30	244.10	
19	183.30	118.20	482.40	528.20	1154.50	1855.20	3016.00	509.80	415.10	296.00	317.40	240.20	
20	139.30	139.30	504.90	471.10	1266.00	1913.80	2876.90	482.40	378.00	313.40	322.80	228.30	
21	126.60	191.90	490.40	404.00	1314.00	2046.90	2717.70	469.50	270.60	336.20	330.80	211.30	
22	72.60	207.30	389.90	380.80	1320.80	2301.60	2599.00	400.80	153.20	372.40	333.50	213.90	
23	49.20	236.20	283.90	383.80	1293.40	2482.60	2459.70	330.80	204.90	388.40	317.40	213.90	
24	45.20	244.10	186.50	373.80	1242.10	2580.60	2355.40	285.30	274.60	397.60	301.30	213.90	
25	42.10	249.40	182.20	348.60	1131.20	2646.00	2234.70	336.20	306.70	386.80	328.10	223.10	
26	39.70	258.70	211.30	394.60	1076.00	2553.00	2109.40	306.70	310.70	372.40	344.40	213.90	
27	39.10	281.30	291.90	479.20	1056.20	2391.00	1986.60	276.00	320.10	368.20	341.70	173.50	
28	37.90	309.30	328.10	513.50	1039.30	2289.50	1846.20	261.30	294.60	359.80	253.40	153.20	
29	39.70	383.80	347.20	552.30	1053.80	2216.50	1683.60	254.70	306.70	333.50	98.10	147.80	
30	38.50	389.90	340.30	543.00	1099.30	2176.10	1525.00	246.80	313.40	305.30		126.60	
31		399.20		513.50	1113.80		1403.20		309.30	313.40		100.60	
Total	3647.50	5243.30	13193.10	13030.40	26180.20	52548.20	78040.10	23705.20	10620.00	9876.80	8862.20	6987.30	251934.30
Mean	121.60	169.10	439.80	420.30	844.50	1751.60	2517.40	790.20	342.60	318.60	305.60	225.40	
Max	197.60	399.20	567.10	638.00	1320.80	2646.00	3146.20	1314.00	471.10	397.60	344.40	343.10	3146.20
Min	37.90	36.80	182.20	274.60	508.20	1102.20	1403.20	246.80	153.20	236.20	98.10	94.00	36.80

WATER YEAR : 2011**CHI RIVER BASIN****Chi River at Ban Khai , Chaiphaphum (E.23)**

Lat 15 - 40 - 49 N Long 102 - 00 - 46 E

Location : on left bank at the bridge on highway.

	Ban Khai	Amphoe Mueang	Changwat Chaiphaphum
Drainage Area	6,282 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2011		
Number of observation	236		
R-Square	0.8515		
Remarks	Continued Sediment Station		

$$QS = 5.2076 QW^{1.17090}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.00	20.30	409.70	75.40	496.20	2455.60	4728.60	912.00	103.10	39.10	38.30	4.60	
2	7.10	42.40	446.80	84.50	477.30	2539.70	5126.40	788.90	97.40	39.10	36.70	2.90	
3	5.20	97.40	424.70	97.40	839.90	2539.70	6872.40	651.20	88.10	37.50	33.50	2.30	
4	4.00	59.40	698.30	86.30	1133.30	2455.60	6872.40	499.80	84.50	36.70	29.50	1.30	
5	2.90	27.20	953.60	82.60	1245.10	2360.00	7601.70	428.20	80.80	35.10	26.40	1.30	
6	1.80	31.10	979.80	57.70	1328.30	2241.40	7601.70	376.40	75.40	34.30	25.60	2.90	
7	1.30	28.70	698.30	44.90	1477.30	2158.80	7601.70	307.90	70.00	35.10	23.30	12.40	
8	13.80	37.50	409.70	42.40	1410.80	2123.60	7601.70	282.70	71.80	34.30	18.80	11.70	
9	19.60	47.50	228.90	36.70	1251.90	2170.60	7235.70	270.70	68.20	32.70	18.10	11.00	
10	20.30	40.80	139.70	33.50	1164.10	2229.50	5663.90	277.20	66.50	31.10	17.40	9.70	
11	21.10	36.70	108.70	29.50	1138.70	2324.30	4597.00	279.40	64.70	30.30	17.40	9.70	
12	21.10	35.10	95.60	24.90	1150.70	2455.60	4050.60	258.80	62.90	30.30	17.40	9.70	
13	21.10	35.10	91.80	28.00	1106.60	2563.70	3755.80	164.70	57.70	30.30	17.40	11.00	
14	20.30	33.50	86.30	36.70	1016.50	2782.10	3458.00	156.60	56.00	30.30	17.40	15.90	
15	20.30	35.10	84.50	43.30	886.10	3148.40	3235.50	164.70	55.10	30.30	16.70	16.70	
16	20.30	40.80	77.20	50.00	788.90	3486.30	3040.00	214.10	54.30	29.50	16.70	21.10	
17	18.80	71.80	71.80	84.50	839.90	3999.10	2932.10	182.00	52.50	27.20	16.70	24.10	
18	18.80	91.80	66.50	116.40	870.70	5799.50	2873.80	170.70	51.70	24.90	15.90	20.30	
19	17.40	59.40	61.20	133.80	1006.00	16165.10	2837.00	159.60	50.00	24.90	15.90	15.20	
20	16.70	50.00	57.70	133.80	1144.00	16165.10	2800.40	147.60	44.90	27.20	15.90	11.70	
21	15.90	48.30	55.10	170.70	1328.30	15473.30	2727.20	133.80	43.30	27.20	15.90	12.40	
22	15.20	64.70	53.40	217.20	1654.00	13425.40	2636.20	122.20	41.60	33.50	15.90	14.50	
23	13.80	66.50	50.00	234.20	1867.90	10114.20	2503.60	122.20	41.60	44.90	15.20	13.80	
24	13.10	46.60	44.90	431.70	2053.40	7970.40	2360.00	118.30	40.80	64.70	14.50	13.80	
25	11.70	40.00	40.80	587.50	2229.50	6511.80	2229.50	116.40	40.00	59.40	13.80	12.40	
26	11.00	38.30	37.50	487.90	2383.90	5663.90	2065.10	112.50	40.00	52.50	8.40	11.70	
27	9.00	37.50	32.70	529.60	2491.60	5394.20	1902.50	114.50	40.00	53.40	5.80	11.00	
28	7.10	39.10	34.30	799.00	2491.60	5260.00	1747.60	114.50	38.30	47.50	4.00	10.40	
29	5.20	45.80	49.10	819.40	2419.70	4728.60	1577.90	112.50	37.50	44.10	5.20	9.00	
30	5.80	101.20	80.80	708.30	2371.90	4597.00	1238.30	106.80	38.30	40.80		7.70	
31		301.30		580.20	2383.90		1042.90		38.30	40.00		6.40	
Total	388.70	1750.90	6669.40	6888.00	44448.00	161302.50	122517.20	7866.90	1795.30	1148.20	533.70	338.60	355647.40
Mean	13.00	56.50	222.30	222.20	1433.80	5376.80	3952.20	262.20	57.90	37.00	18.40	10.90	
Max	21.10	301.30	979.80	819.40	2491.60	16165.10	7601.70	912.00	103.10	64.70	38.30	24.10	16165.10
Min	1.30	20.30	32.70	24.90	477.30	2123.60	1042.90	106.80	37.50	24.90	4.00	1.30	1.30

WATER YEAR : 2011**CHI RIVER BASIN****Nam Yang at Ban Kaeng Yao , Kalasin (E.54)**

Lat 16 - 26 - 28 N Long 104 - 02 - 05 E

Location : on left bank at Ban Kaeng Yao about 2 kilometers downstream from proposed of USBR Damsite.

	Ban	Kaeng Yao	Amphoe	Kuchinarai	Changwat	Kalasin
Drainage Area	1,548	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1998-Cont'd					
Actual Measurement	1998-Cont'd					
Using Rating Curve Water Year	2007-2011					
Number of observation	91					
R-Square	0.8630					
Remarks	Continued Sediment Station					

$$QS = 6.3666 QW^{1.16980}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	113.10	54.40	1211.80	1507.00	372.70	107.50	35.10	35.10	0.00	19.30	
2	0.00	0.00	113.10	59.40	2049.00	1869.40	356.40	107.50	35.10	35.10	0.00	19.30	
3	0.00	0.00	107.50	80.10	2979.30	1857.50	871.20	107.50	35.10	15.60	0.00	19.30	
4	0.00	0.00	107.50	148.00	2402.70	2501.70	945.40	96.30	35.10	12.00	0.00	19.30	
5	0.00	0.00	107.50	223.70	1546.90	4332.10	816.10	96.30	35.10	12.00	0.00	19.30	
6	0.00	0.00	101.90	249.90	825.20	4992.50	540.60	96.30	35.10	0.00	0.00	19.30	
7	0.00	0.00	96.30	185.30	463.90	4377.60	422.10	96.30	35.10	0.00	0.00	19.30	
8	0.00	0.00	90.80	96.30	1001.70	3261.20	340.30	90.80	35.10	0.00	0.00	19.30	
9	0.00	0.00	85.40	64.50	2814.60	3507.50	276.70	85.40	35.10	0.00	12.00	19.30	
10	0.00	0.00	80.10	85.40	6110.70	5586.80	217.20	85.40	35.10	0.00	12.00	19.30	
11	0.00	0.00	80.10	154.10	6367.10	5539.60	204.40	80.10	35.10	0.00	19.30	19.30	
12	0.00	0.00	80.10	166.50	5460.90	4853.20	210.80	74.80	35.10	0.00	23.10	19.30	
13	0.00	0.00	80.10	166.50	3196.80	4271.30	333.10	64.50	35.10	0.00	27.00	19.30	
14	0.00	0.00	85.40	204.40	1762.80	3507.50	779.60	64.50	35.10	0.00	27.00	19.30	
15	0.00	39.80	85.40	297.70	1507.00	3055.80	1134.70	64.50	35.10	0.00	27.00	19.30	
16	0.00	113.10	90.80	333.10	1845.60	2538.90	1125.20	54.40	35.10	0.00	23.10	19.30	
17	0.00	118.80	74.80	405.50	2551.40	1881.30	899.00	54.40	35.10	0.00	23.10	19.30	
18	0.00	118.80	64.50	455.50	3351.60	1567.10	636.40	54.40	35.10	0.00	23.10	19.30	
19	0.00	118.80	54.40	413.80	4791.40	1497.00	438.80	54.40	35.10	0.00	19.30	19.30	
20	0.00	118.80	54.40	290.70	7063.40	1688.40	356.40	54.40	35.10	0.00	19.30	19.30	
21	0.00	118.80	54.40	236.70	7145.10	1833.70	283.70	54.40	35.10	0.00	19.30	19.30	
22	0.00	118.80	49.50	662.90	6447.60	2145.70	217.20	44.60	35.10	0.00	19.30	19.30	
23	0.00	118.80	39.80	438.80	3894.70	2279.80	179.00	44.60	35.10	0.00	19.30	19.30	
24	0.00	118.80	31.00	1546.90	2218.70	1647.80	179.00	44.60	35.10	0.00	19.30	19.30	
25	0.00	118.80	19.30	2133.60	1377.90	1163.50	172.70	44.60	35.10	0.00	19.30	19.30	
26	0.00	118.80	12.00	2941.20	899.00	752.50	166.50	44.60	35.10	0.00	19.30	19.30	
27	0.00	118.80	5.30	2514.10	698.60	531.90	154.10	44.60	35.10	0.00	19.30	19.30	
28	0.00	118.80	5.30	1739.20	645.20	506.20	136.00	44.60	35.10	0.00	19.30	19.30	
29	0.00	118.80	2.40	1507.00	447.20	489.30	118.80	44.60	35.10	0.00	19.30	19.30	
30	0.00	118.80	5.30	1058.40	413.80	438.80	118.80	44.60	35.10	0.00		19.30	
31		113.10		982.90	908.10		118.80		35.10	0.00		19.30	
Total	0.00	1929.20	1977.50	19896.50	84399.70	75982.60	13121.70	2045.50	1088.10	109.80	429.00	598.30	201577.90
Mean	0.00	62.20	65.90	641.80	2722.60	2532.80	423.30	68.20	35.10	3.50	14.80	19.30	
Max	0.00	118.80	113.10	2941.20	7145.10	5586.80	1134.70	107.50	35.10	35.10	27.00	19.30	7145.10
Min	0.00	0.00	2.40	54.40	413.80	438.80	118.80	44.60	35.10	0.00	0.00	19.30	0.00

WATER YEAR : 2011**CHI RIVER BASIN****Chi River at Ban Muang Lat , Roi Et (E.66A)**

Lat 16 - 12 - 08 N Long 103 - 31 - 41 E

Location : on right bank at the bridge.

	Ban Muang Lat	Amphoe Chang Han	Changwat Roi Et
Drainage Area	31,879 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2004-Cont'd		
Actual Measurement	2004-Cont'd		
Using Rating Curve Water Year	2004-2011		
Number of observation	164		
R-Square	0.8059		
Remarks	Continued Sediment Station		

$$QS = 9.5552 QW^{0.96890}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	418.10	428.80	580.40	888.90	1949.50	3770.00	7708.00	9856.00	2114.00	684.00	562.50	580.40	
2	421.40	421.40	637.10	943.30	1954.90	3821.20	7815.50	9393.20	1832.30	754.10	584.50	377.90	
3	414.00	452.50	1040.60	993.60	1986.90	3898.30	7923.00	9167.60	1487.10	679.10	624.20	261.20	
4	334.20	465.60	1186.80	1023.90	2018.10	3968.50	8030.40	8855.50	1309.60	606.30	650.10	374.60	
5	312.70	492.50	1265.30	951.30	2071.10	4037.10	8143.70	8614.50	1236.00	633.10	654.90	571.50	
6	330.90	457.40	1378.30	951.30	2103.10	4113.40	8260.00	8376.20	1014.30	624.20	633.10	688.80	
7	382.00	370.50	1694.50	951.30	2092.90	4189.50	8534.10	8143.70	908.10	602.30	602.30	758.90	
8	487.60	316.00	1944.00	968.10	2087.50	4273.30	8855.50	7887.10	972.80	571.50	553.60	743.60	
9	558.50	239.50	2082.00	989.60	2087.50	4341.80	9256.70	7672.10	1085.20	562.50	523.50	709.00	
10	553.60	204.40	2066.40	972.00	2108.50	4507.50	9669.20	7456.90	984.80	593.40	562.50	713.80	
11	567.40	268.70	2044.60	959.30	2193.30	4671.50	10045.60	7246.00	913.70	606.30	575.50	734.00	
12	549.50	301.90	2029.00	1109.80	2335.50	4815.60	10479.20	7004.90	949.70	589.30	536.50	624.20	
13	518.60	414.00	2023.60	1300.10	2436.30	4943.00	10921.10	6763.50	1038.20	575.50	536.50	558.50	
14	518.60	668.60	1896.40	1517.80	2440.90	5077.80	11268.10	6583.50	1031.80	518.60	501.50	575.50	
15	536.50	602.30	1801.00	1583.00	2457.20	5260.80	11418.50	6430.30	972.80	509.70	527.60	562.50	
16	531.60	465.60	1568.10	1668.60	2501.30	5475.40	11518.80	6274.00	932.10	580.40	558.50	558.50	
17	505.60	428.80	1416.90	1658.40	2489.70	5627.90	11719.30	6144.60	892.90	637.10	575.50	597.40	
18	461.50	424.70	1289.80	1648.20	2695.50	5718.40	11922.60	5935.40	848.90	628.20	567.40	633.10	
19	424.70	461.50	1338.80	1578.30	2775.70	5813.30	12330.40	5700.30	758.90	743.60	558.50	693.70	
20	388.60	457.40	1338.80	1472.10	2912.20	5915.00	12587.80	5458.80	674.30	1020.70	501.50	688.80	
21	367.20	448.40	1240.70	1309.60	3072.40	6123.60	11871.80	5179.10	718.70	1258.10	479.50	606.30	
22	305.20	439.40	1165.40	1294.50	3230.70	6361.20	11518.80	4868.70	674.30	1621.50	540.60	606.30	
23	294.40	518.60	1118.60	1231.20	3476.10	6660.00	11569.00	4544.00	593.40	1745.40	571.50	611.20	
24	279.50	553.60	1023.90	1201.90	3439.40	7142.70	11669.20	4189.50	483.60	1375.10	584.50	549.50	
25	215.30	514.50	938.50	1289.80	3482.30	7314.80	11619.10	3802.10	597.40	1202.70	584.50	536.50	
26	161.40	523.50	847.30	1378.30	3500.70	7456.90	11418.50	3384.20	356.50	1061.30	540.60	589.30	
27	188.40	558.50	776.60	1507.50	3519.00	7492.80	11168.50	2804.30	509.70	1144.00	558.50	589.30	
28	257.90	743.60	834.40	1648.20	3543.60	7528.70	10921.10	2661.50	650.10	937.70	674.30	432.00	
29	276.20	774.20	938.50	1774.40	3592.50	7564.50	10625.60	2446.30	619.30	799.10	688.80	382.00	
30	291.10	688.80	913.70	1837.80	3660.60	7636.30	10430.40	2208.90	602.30	658.90		392.70	
31		619.30		1960.40	3718.00		10187.70		615.30	518.60		403.30	
Total	11852.20	14724.50	40420.00	40562.50	83932.90	165520.80	321407.20	185052.70	28378.10	25042.30	16613.00	17704.30	951210.60
Mean	395.10	475.00	1347.30	1308.50	2707.50	5517.40	10368.00	6168.40	915.40	807.80	572.90	571.10	
Max	567.40	774.20	2082.00	1960.40	3718.00	7636.30	12587.80	9856.00	2114.00	1745.40	688.80	758.90	12587.80
Min	161.40	204.40	580.40	888.90	1949.50	3770.00	7708.00	2208.90	356.50	509.70	479.50	261.20	161.40

WATER YEAR : 2011**CHI RIVER BASIN****Lam Chiang at Ban Chiang , Chaiphaphum (E.72)**

Lat 16 - 01 - 26 N Long 101 - 30 - 12 E

Location : on left bank at Ban Chiang School.

	Ban Chiang	Amphoe Phak Di Chumphon Changwat Chaiphaphum
Drainage Area	323 sq.km.	
Method of sampling	Depth Integrating	
Instrument Used	US.D-49	
Period of Available Records	2004-Cont'd	
Actual Measurement	2004-Cont'd	
Using Rating Curve Water Year	2011	
Number of observation	20	
R-Square	0.8753	
Remarks	Continued Sediment Station	

$$QS = 5.4380 QW^{1.35030}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	1.10	21.80	56.80	383.10	122.80	254.60	27.30	7.10	3.80	2.90	1.60	
2	0.10	2.50	70.10	53.50	380.60	68.40	167.70	25.10	7.10	3.80	2.90	1.60	
3	0.10	0.70	94.10	49.60	667.70	76.60	175.80	22.90	7.10	3.80	2.70	1.60	
4	0.80	0.40	77.90	45.70	342.30	57.60	150.20	21.30	6.80	3.60	2.70	1.60	
5	0.70	0.50	25.10	27.30	125.80	52.00	180.70	20.80	6.80	3.60	2.50	1.60	
6	0.50	0.30	15.30	14.30	51.20	63.30	291.10	20.80	6.80	3.60	2.50	1.50	
7	1.10	0.20	12.90	7.40	38.20	422.60	182.30	20.80	6.50	3.60	2.30	1.50	
8	1.00	0.20	9.40	5.30	33.00	226.30	137.90	20.80	6.50	3.40	2.30	1.50	
9	0.70	0.20	6.20	4.40	27.80	583.00	114.00	20.80	6.50	3.40	2.10	1.50	
10	0.40	0.30	5.10	3.80	68.40	2091.10	122.80	18.70	6.50	3.40	2.00	1.80	
11	0.30	0.20	3.20	3.20	44.20	756.10	87.30	18.20	6.20	3.40	2.00	7.70	
12	0.20	0.20	1.10	2.50	30.10	1256.50	76.60	17.70	6.20	3.40	2.00	5.50	
13	0.20	0.20	0.50	2.30	19.80	2243.80	94.10	17.20	6.00	3.40	1.90	1.80	
14	0.20	0.20	0.40	3.00	17.20	1165.40	75.30	16.70	6.00	3.40	1.90	1.60	
15	0.20	1.80	0.30	3.40	36.10	942.40	98.30	16.30	5.70	3.40	1.90	1.50	
16	0.20	1.60	0.30	2.50	36.80	1725.50	87.30	14.80	5.70	3.40	1.90	1.50	
17	0.20	1.40	0.50	2.30	67.50	533.20	63.30	13.40	5.50	3.40	1.90	1.40	
18	0.10	0.50	5.50	18.70	102.50	287.40	56.80	12.50	5.50	3.40	1.90	3.20	
19	0.10	0.50	5.30	106.80	351.80	175.80	50.40	12.00	5.50	3.40	1.80	2.00	
20	0.10	4.00	2.50	52.00	898.00	140.90	44.20	11.60	5.30	3.40	1.80	1.70	
21	0.10	1.70	2.90	111.10	796.00	112.50	42.70	11.10	5.30	7.10	1.80	1.30	
22	0.10	0.90	1.80	122.80	583.00	153.40	41.90	10.70	5.10	6.20	1.70	1.10	
23	0.10	0.50	1.40	88.60	204.00	307.90	39.70	10.30	4.90	4.60	1.70	1.10	
24	0.10	0.20	1.20	68.40	92.70	448.20	36.10	10.30	4.60	3.80	1.70	1.00	
25	0.10	0.20	1.00	410.10	63.30	363.70	34.20	9.80	4.40	3.40	1.70	1.00	
26	0.10	0.20	1.60	276.30	54.30	200.60	32.40	9.40	4.40	3.20	1.70	0.90	
27	0.10	1.70	41.20	83.20	45.70	344.60	31.80	9.40	4.20	3.00	1.70	0.90	
28	0.10	60.00	4.90	45.70	58.40	1099.40	30.70	9.10	4.20	3.00	1.60	0.90	
29	0.10	140.90	17.70	62.50	498.70	1224.90	30.10	8.70	4.00	3.00	1.60	0.90	
30	0.10	56.80	14.80	25.60	671.00	410.10	29.50	8.70	4.00	3.00		0.90	
31		48.00		18.20	229.80		29.50		3.80	3.00		0.80	
Total	8.30	328.10	446.00	1777.30	7019.00	17656.00	2889.30	467.20	174.20	113.30	59.10	54.50	30992.30
Mean	0.30	10.60	14.90	57.30	226.40	588.50	93.20	15.60	5.60	3.70	2.00	1.80	
Max	1.10	140.90	94.10	410.10	898.00	2243.80	291.10	27.30	7.10	7.10	2.90	7.70	2243.80
Min	0.10	0.20	0.30	2.30	17.20	52.00	29.50	8.70	3.80	3.00	1.60	0.80	0.10

WATER YEAR : 2011**CHI RIVER BASIN****Lam Saphung at Ban Na Charoen , Chaiyaphum (E.83)**

Lat 16 - 09 - 21 N Long 101 - 39 - 13 E

Location : on left bank at Ban Na Charoen.

	Ban Na Charoen	Amphoe Nong Bua Daeng	Changwat Chaiyaphum
Drainage Area	744 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	20		
R-Square	0.8352		
Remarks	Continued Sediment Station		

$$QS = 1.6660 QW^{1.35030}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	0.50	17.10	2.00	314.90	119.70	295.80	46.30	8.70	1.80	1.10	0.30	
2	0.40	0.70	22.40	3.60	455.00	103.60	227.60	45.40	8.30	1.70	1.00	0.20	
3	0.40	1.20	22.20	4.60	492.40	106.20	246.40	35.80	7.90	1.60	1.00	0.20	
4	0.40	1.60	15.60	4.50	397.20	145.40	374.40	34.80	7.70	1.60	1.00	0.20	
5	0.50	1.40	12.80	4.40	339.10	155.70	310.40	34.60	7.50	1.60	1.10	0.20	
6	0.50	1.20	10.20	4.20	266.20	205.70	327.50	33.80	7.10	1.60	1.10	0.10	
7	0.60	1.10	7.90	4.10	200.60	277.30	262.20	32.90	6.80	1.50	1.20	0.10	
8	0.70	1.00	6.30	4.10	138.30	194.60	202.30	32.40	6.60	1.50	1.30	0.10	
9	0.80	1.00	5.80	4.00	97.80	273.20	191.20	29.70	6.30	1.40	1.20	0.60	
10	0.80	0.90	5.20	4.00	79.60	385.10	219.70	27.60	5.90	1.40	1.20	0.60	
11	0.80	1.20	4.60	3.90	65.50	656.50	193.70	26.50	5.60	1.30	1.10	0.50	
12	0.80	1.30	4.00	4.20	57.20	2232.90	154.90	25.30	5.20	1.20	1.00	0.50	
13	0.70	1.40	3.40	5.00	54.20	3743.00	140.60	22.80	5.00	1.20	0.90	0.50	
14	0.70	2.50	2.90	5.70	55.50	2059.30	152.50	20.90	4.70	1.20	0.80	0.90	
15	0.70	14.60	2.40	6.10	99.70	1184.90	196.30	19.60	4.50	1.20	0.70	0.80	
16	0.70	11.10	1.90	6.10	93.70	819.80	230.30	17.90	4.20	1.20	0.70	0.70	
17	0.70	8.40	1.70	6.20	146.90	484.50	244.60	17.30	4.00	1.20	0.70	0.70	
18	0.60	6.60	1.60	6.60	124.50	374.40	232.00	15.00	3.80	1.20	0.70	0.60	
19	0.50	6.20	1.60	12.30	139.90	349.60	157.30	14.50	3.60	1.10	0.60	0.60	
20	0.50	5.70	1.60	15.00	243.70	282.40	133.60	13.40	3.50	1.10	0.60	0.60	
21	0.50	4.80	1.50	19.40	314.90	394.80	111.60	13.10	3.40	1.40	0.50	0.50	
22	0.50	3.70	1.50	33.10	298.90	522.50	96.10	12.80	3.00	1.80	0.50	0.50	
23	0.50	3.10	1.40	31.40	242.80	430.50	87.50	12.30	2.80	2.50	0.50	0.40	
24	0.50	2.80	1.40	29.00	192.00	369.60	76.30	12.20	2.70	2.10	0.40	0.30	
25	0.40	2.60	1.30	29.50	146.90	312.60	72.60	11.90	2.60	1.80	0.40	0.20	
26	0.40	3.60	1.30	34.10	120.40	232.90	61.60	11.60	2.40	1.60	0.40	0.20	
27	0.40	5.00	1.30	35.10	136.00	294.70	54.90	11.10	2.20	1.40	0.40	0.20	
28	0.40	8.60	1.20	35.30	153.30	597.80	50.60	10.20	2.10	1.30	0.40	0.10	
29	0.40	14.30	1.20	34.10	168.70	445.70	49.90	9.80	2.00	1.20	0.40	0.10	
30	0.40	17.10	1.20	33.30	159.70	339.10	49.90	9.70	1.90	1.10		0.10	
31		16.20		32.40	182.80		49.60		1.80	1.10		0.10	
Total	16.60	151.40	164.50	457.30	5978.30	18094.00	5253.90	661.20	143.80	44.90	22.90	11.70	31000.50
Mean	0.60	4.90	5.50	14.80	192.80	603.10	169.50	22.00	4.60	1.40	0.80	0.40	
Max	0.80	17.10	22.40	35.30	492.40	3743.00	374.40	46.30	8.70	2.50	1.30	0.90	3743.00
Min	0.40	0.50	1.20	2.00	54.20	103.60	49.60	9.70	1.80	1.10	0.40	0.10	0.10

WATER YEAR : 2011**CHI RIVER BASIN****Chi River at Ban Nang Dad Khok , Chaiyaphum (E.84)**

Lat 16 - 09 - 08 N Long 101 - 35 - 07 E

Location : on left bank at Ban Nang Dad Khok.

	Ban	Nang Dad Khok	Amphoe	Nong Bua Daeng	Changwat	Chaiyaphum
Drainage Area	508	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2004-Cont'd					
Actual Measurement	2004-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	20					
R-Square	0.8971					
Remarks	Continued Sediment Station					

$$QS = 8.0546 QW^{1.19220}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.80	27.00	67.70	9.20	646.90	157.10	451.30	52.80	23.80	17.50	18.00	11.20	
2	5.40	14.50	29.60	11.20	1319.30	126.90	384.50	50.70	23.80	17.50	17.50	11.20	
3	5.40	7.70	43.60	24.20	1297.50	96.10	439.60	48.10	23.30	17.10	17.10	10.80	
4	5.40	5.80	72.00	20.60	666.40	96.10	504.70	46.60	23.30	17.10	16.70	10.40	
5	5.10	5.40	26.10	14.50	294.70	253.50	330.70	45.80	22.90	16.70	16.20	10.40	
6	7.30	6.50	16.70	11.20	157.10	238.50	325.20	45.10	22.40	16.20	15.80	10.00	
7	19.30	16.20	13.70	9.20	104.70	743.40	268.70	44.30	22.40	16.20	15.40	10.00	
8	10.80	8.80	12.90	8.40	91.80	314.00	218.30	45.10	22.00	15.80	15.00	9.60	
9	7.30	6.20	12.00	7.70	419.20	286.50	196.90	54.90	21.50	15.80	14.50	10.40	
10	6.20	6.20	11.60	9.20	319.60	854.20	266.10	50.70	21.50	15.40	14.10	21.50	
11	5.80	6.90	10.00	20.60	137.40	1053.20	216.30	45.10	21.10	15.00	14.10	23.80	
12	5.40	5.80	9.20	12.40	96.10	1407.20	175.80	41.30	21.10	15.00	14.10	18.80	
13	5.10	5.40	8.10	10.40	76.40	3561.30	164.50	39.10	20.60	14.50	13.70	15.00	
14	4.70	8.10	7.30	9.60	68.70	2026.50	158.90	39.10	20.60	14.50	13.30	15.00	
15	4.70	48.90	6.50	11.60	80.80	1341.20	350.40	37.60	20.60	14.50	13.30	14.50	
16	4.00	19.30	7.30	19.70	236.00	1223.80	370.30	36.80	20.20	14.10	12.90	14.10	
17	3.70	12.40	6.90	28.90	410.50	805.50	241.00	33.90	19.70	14.10	12.90	13.70	
18	3.70	9.60	8.40	26.10	615.80	600.40	189.20	31.00	19.70	14.10	12.40	13.30	
19	3.70	9.60	8.40	39.80	525.80	489.80	175.80	30.30	19.30	14.50	12.00	12.90	
20	3.70	20.20	8.80	31.00	928.00	483.90	116.50	29.60	19.30	16.70	11.60	12.00	
21	3.40	18.00	8.40	109.10	743.40	654.70	104.70	28.90	19.30	19.30	11.60	15.80	
22	3.00	11.20	8.40	140.50	903.30	574.30	94.70	28.20	18.80	18.40	11.60	11.20	
23	5.10	8.40	8.10	84.80	540.90	737.40	86.20	27.50	18.40	18.00	11.60	10.80	
24	18.00	7.70	7.70	54.90	294.70	568.20	79.70	27.00	18.40	17.10	11.60	10.40	
25	6.90	7.70	7.30	91.80	230.10	422.10	74.20	26.60	18.40	16.20	11.60	10.00	
26	5.80	11.20	7.70	172.10	175.80	436.70	68.70	26.10	18.40	16.70	11.60	10.00	
27	5.40	37.60	8.40	107.70	157.10	789.40	64.40	25.60	18.40	15.80	11.60	9.60	
28	5.10	191.10	8.40	101.90	153.40	813.60	62.30	25.20	18.40	15.80	11.60	9.60	
29	4.70	276.30	7.70	158.90	187.30	743.40	62.30	24.70	18.00	18.00	11.60	10.00	
30	4.00	101.90	9.20	131.40	336.30	574.30	61.20	24.20	18.00	17.50		10.00	
31		101.90		68.70	271.20		60.10		18.00	14.10		10.00	
Total	183.90	1023.50	468.10	1557.30	12486.20	22473.20	6363.20	1111.90	631.60	499.20	395.00	386.00	47579.10
Mean	6.10	33.00	15.60	50.20	402.80	749.10	205.30	37.10	20.40	16.10	13.60	12.50	
Max	19.30	276.30	72.00	172.10	1319.30	3561.30	504.70	54.90	23.80	19.30	18.00	23.80	3561.30
Min	3.00	5.40	6.50	7.70	68.70	96.10	60.10	24.20	18.00	14.10	11.60	9.60	3.00

WATER YEAR : 2011**CHI RIVER BASIN****Lam Phan Chat at Ban Kham Hai , Udon Thani (E.86)**

Lat 17 - 05 - 29 N Long 103 - 34 - 16 E

Location : on left bank at Ban Kham Hai.

	Ban Kham Hai	Amphoe Wang Sam Mo	Changwat Udon Thani
Drainage Area	93 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2008-Cont'd		
Actual Measurement	2008-Cont'd		
Using Rating Curve Water Year	2008-2011		
Number of observation	73		
R-Square	0.8565		
Remarks	Continued Sediment Station		

$$QS = 5.6869 QW^{1.22620}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	1.00	3.30	3.00	62.30	254.40	31.10	1.20	0.10	0.00	0.00	0.00	
2	0.00	0.30	11.70	13.30	54.10	204.90	254.40	1.10	0.10	0.00	0.00	0.00	
3	0.00	0.20	15.00	10.10	131.10	19.60	104.50	1.00	0.10	0.00	0.00	0.00	
4	0.00	0.10	11.70	10.90	62.30	218.50	22.80	1.00	0.00	0.00	0.00	0.00	
5	0.00	0.10	6.50	5.40	19.60	142.60	15.00	0.90	0.00	0.00	0.00	0.00	
6	0.00	0.10	5.40	3.30	13.30	172.20	13.30	0.80	0.00	0.00	0.00	0.00	
7	0.00	0.10	24.40	1.80	10.10	527.20	10.10	0.70	0.00	0.00	0.00	0.00	
8	0.00	0.10	21.20	0.90	27.70	54.10	7.10	0.70	0.00	0.00	0.00	0.00	
9	0.00	0.00	11.70	0.80	14.10	488.90	6.20	0.70	0.00	0.00	0.00	0.00	
10	0.00	0.00	6.80	2.30	12.50	62.30	5.10	0.70	0.00	0.00	0.00	0.00	
11	0.00	0.00	3.90	42.30	12.50	34.80	4.30	0.60	0.00	0.00	0.00	0.00	
12	0.00	0.00	2.70	9.30	11.70	66.40	4.10	0.60	0.00	0.00	0.00	0.00	
13	0.00	18.00	2.40	7.80	10.10	27.70	3.90	0.60	0.00	0.00	0.00	0.00	
14	0.00	6.00	2.70	10.10	8.60	29.40	6.00	0.50	0.00	0.00	0.00	0.00	
15	0.00	18.00	1.70	13.30	12.50	38.50	7.80	0.30	0.00	0.00	0.00	0.00	
16	0.00	7.80	2.70	38.50	136.80	21.20	7.80	0.30	0.00	0.00	0.00	0.00	
17	0.00	14.10	14.10	15.00	66.40	16.50	5.10	0.20	0.00	0.00	0.00	0.00	
18	0.00	5.40	114.60	6.50	54.10	26.10	4.10	0.20	0.00	0.00	0.00	0.00	
19	0.00	42.30	4.30	4.10	99.50	26.10	3.40	0.20	0.00	0.00	0.00	0.00	
20	0.00	26.10	3.50	3.40	191.50	46.20	2.90	0.20	0.00	0.00	0.00	0.00	
21	0.00	9.30	3.40	62.30	62.30	160.20	2.70	0.20	0.00	0.00	0.00	0.00	
22	0.00	6.50	29.40	70.60	22.80	109.50	2.30	0.20	0.00	0.00	0.00	0.00	
23	0.20	4.90	7.80	58.20	15.00	58.20	2.00	0.10	0.00	0.00	0.00	0.00	
24	0.50	4.30	4.60	13.30	19.60	31.10	1.70	0.10	0.00	0.00	0.00	0.00	
25	2.40	6.00	3.90	10.10	84.80	24.40	1.60	0.10	0.00	0.00	0.00	0.00	
26	4.30	3.90	10.10	10.10	27.70	18.00	1.50	0.10	0.00	0.00	0.00	0.00	
27	2.90	2.40	6.00	6.00	21.20	15.00	1.50	0.10	0.00	0.00	0.00	0.00	
28	2.30	1.90	4.20	6.20	15.00	15.00	1.50	0.10	0.00	0.00	0.00	0.00	
29	1.50	0.70	3.60	119.70	18.00	14.10	1.40	0.10	0.00	0.00	0.00	0.00	
30	1.40	0.30	3.00	3.80	27.70	13.30	1.40	0.10	0.00	0.00		0.00	
31		0.40		279.50	58.20		1.20		0.00	0.00		0.00	
Total	15.50	180.30	346.30	841.90	1383.10	2936.40	537.80	13.70	0.30	0.00	0.00	0.00	6255.30
Mean	0.50	5.80	11.50	27.20	44.60	97.90	17.30	0.50	0.00	0.00	0.00	0.00	
Max	4.30	42.30	114.60	279.50	191.50	527.20	254.40	1.20	0.10	0.00	0.00	0.00	527.20
Min	0.00	0.00	1.70	0.80	8.60	13.30	1.20	0.10	0.00	0.00	0.00	0.00	0.00

WATER YEAR : 2011**CHI RIVER BASIN****Chi River at Ban Kui Chuak , Maha Sarakham (E.91)**

Lat 16 - 21 - 58 N Long 102 - 56 - 59 E

Location : on left bank at Ban Kui Chuak.

	Ban Kui Chuak	Amphoe Kosum Phisai	Changwat Maha Sarakham
Drainage Area	29,265 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2005-2011		
Number of observation	148		
R-Square	0.8302		
Remarks	Continued Sediment Station		

$$QS = 5.0895 QW^{1.04030}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	333.30	306.00	753.60	668.90	1390.90	3277.20	6129.70	6833.70	661.30	555.50	573.30	292.40	
2	284.30	325.30	823.70	661.30	1485.10	3341.10	6190.40	6652.60	661.30	534.50	555.50	259.00	
3	259.00	349.50	856.60	642.10	1535.30	3431.00	6290.80	6491.80	603.80	528.20	561.80	289.30	
4	273.20	311.60	968.60	649.80	1524.70	3507.40	6592.40	6350.80	715.00	588.50	549.80	458.70	
5	259.00	273.20	1170.50	684.30	1510.20	3559.20	7286.40	6129.70	665.10	549.80	569.50	588.50	
6	302.90	266.40	1358.70	665.10	1520.10	3623.40	8348.70	5929.10	707.30	543.40	573.30	549.80	
7	437.30	235.60	1574.90	657.40	1489.70	3784.00	9038.10	5769.20	798.60	522.50	552.90	584.70	
8	422.20	146.10	1574.90	665.10	1499.60	3951.00	9478.60	5595.40	726.60	509.80	531.40	596.20	
9	464.30	189.10	1574.90	676.60	1549.80	4060.70	9478.60	5409.40	657.40	558.70	569.50	603.80	
10	494.60	189.10	1605.30	734.30	1630.50	4215.20	9415.50	5250.00	734.30	565.60	552.90	580.90	
11	467.50	243.00	1610.60	745.80	1661.00	4387.00	9227.10	5092.20	844.40	531.40	525.00	543.40	
12	434.10	434.10	1535.30	778.00	1716.70	4549.50	9227.10	4882.00	885.70	479.50	522.50	534.50	
13	452.40	396.40	1372.50	1016.00	1783.70	4614.20	9227.10	4663.20	803.10	477.00	519.30	509.80	
14	449.20	352.70	1220.90	1054.40	1800.30	4597.70	9667.20	4419.30	782.50	482.60	528.20	504.10	
15	489.00	316.50	1115.00	1097.40	1845.50	4573.60	9982.30	4157.50	765.80	525.00	546.60	513.00	
16	452.40	330.20	1019.90	1097.40	1968.10	4565.30	10386.00	3841.50	753.60	549.80	565.60	509.80	
17	449.20	316.50	990.00	1153.50	1990.80	4590.10	10478.50	3501.20	749.70	537.70	558.70	525.00	
18	449.20	314.10	943.30	1105.90	2030.20	4646.70	10663.60	3168.40	707.30	537.70	540.20	573.30	
19	428.50	330.20	939.40	1016.00	2175.90	4638.40	10663.60	2823.40	695.80	573.30	522.50	546.60	
20	374.50	319.70	914.80	947.90	2401.30	4541.20	10756.20	2502.90	645.90	684.30	534.50	534.50	
21	366.40	360.80	914.80	889.60	2593.80	4913.80	10478.50	2305.30	603.80	811.50	561.80	494.60	
22	322.10	434.10	827.60	860.50	2735.50	5081.80	10108.80	2052.20	428.50	844.40	565.60	467.50	
23	228.80	398.90	734.30	901.90	2811.20	5239.60	9793.50	1700.10	368.90	827.60	569.50	419.00	
24	223.90	494.60	626.80	906.40	2817.30	5476.00	9290.10	1381.70	434.10	798.60	565.60	431.60	
25	221.50	546.60	543.40	947.90	2805.10	5648.90	9038.10	1140.50	497.80	745.80	549.80	470.70	
26	209.90	626.80	543.40	1062.90	2799.00	5689.20	8536.40	1041.40	569.50	695.80	516.20	467.50	
27	186.70	672.80	630.60	1153.50	2841.60	5728.80	8097.70	981.60	565.60	668.90	540.20	419.00	
28	219.60	703.50	684.30	1308.10	2969.60	5795.60	7847.80	844.40	569.50	665.10	584.70	407.70	
29	256.50	695.80	688.10	1381.70	3067.20	5876.30	7598.20	803.10	565.60	645.90	434.10	363.30	
30	284.30	672.80	661.30	1404.70	3143.30	5969.50	7286.40	761.90	546.60	580.90		341.40	
31		676.60		1381.70	3200.30		6914.90		540.20	537.70		289.30	
Total	10495.80	12228.60	30778.00	28916.10	66293.30	137873.40	273518.30	112475.50	20254.60	18657.00	15840.50	14668.90	742000.10
Mean	349.90	394.50	1025.90	932.80	2138.50	4595.80	8823.20	3749.20	653.40	601.80	546.20	473.20	
Max	494.60	703.50	1610.60	1404.70	3200.30	5969.50	10756.20	6833.70	885.70	844.40	584.70	603.80	10756.20
Min	186.70	146.10	543.40	642.10	1390.90	3277.20	6129.70	761.90	368.90	477.00	434.10	259.00	146.10

WATER YEAR : 2011**MUN RIVER BASIN****Mun River at Ban Dan Taka, Nakhon Ratchasima (M.2A)**

Lat 14 - 57 - 57 N Long 102 - 14 - 38 E

Location : on left bank at Ban Dan Taka.

	Ban Dan Taka	Amphoe Chaloem Phra Kiat	Changwat Nakhon Ratchasima
Drainage Area	4,724 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2002-Cont'd		
Actual Measurement	2002-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	30		
R-Square	0.8370		
Remarks	Continued Sediment Station		

$$QS = 5.0583 QW^{1.05340}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	59.60	93.80	118.70	0.00	101.30	136.30	783.10	981.80	42.80	5.10	59.60	59.60	
2	55.40	108.70	138.80	0.00	146.40	131.30	817.20	881.80	35.70	0.00	59.60	57.20	
3	51.80	116.20	161.60	0.00	228.30	138.80	906.80	743.60	27.00	0.00	50.00	53.60	
4	41.10	111.20	197.30	0.00	251.60	126.20	965.10	618.90	35.70	7.20	46.40	50.00	
5	46.40	131.30	217.90	4.00	277.00	126.20	1049.40	529.90	21.80	1.90	30.50	51.80	
6	66.90	164.10	236.00	0.90	279.90	133.80	1112.30	466.00	20.60	0.00	28.70	53.60	
7	69.30	154.00	230.80	0.00	259.40	146.40	1176.20	414.20	18.40	0.00	15.00	57.20	
8	74.20	148.90	212.80	0.00	225.70	182.00	1167.00	362.80	12.70	0.00	13.80	57.20	
9	76.60	126.20	179.40	0.00	194.80	202.50	1139.70	342.00	15.00	0.00	9.40	64.50	
10	76.60	116.20	133.80	0.00	164.10	215.30	1121.40	327.10	17.20	0.00	4.00	76.60	
11	62.00	113.70	106.20	0.00	154.00	330.10	1130.60	312.30	16.10	0.00	9.40	91.40	
12	55.40	113.70	81.50	0.00	118.70	472.70	1121.40	309.40	13.80	0.00	16.10	98.80	
13	57.20	111.20	37.50	0.00	98.80	575.50	1121.40	303.50	16.10	0.00	11.60	113.70	
14	57.20	101.30	28.70	0.00	86.40	647.50	1130.60	297.60	20.60	3.00	5.10	121.20	
15	51.80	96.30	32.20	0.00	74.20	734.00	1121.40	282.90	12.70	6.10	6.10	116.20	
16	48.20	76.60	20.60	0.00	64.50	792.40	1112.30	268.20	0.00	7.20	9.40	106.20	
17	42.80	53.60	16.10	0.00	64.50	852.80	1095.50	241.20	0.00	10.50	13.80	103.80	
18	34.00	69.30	17.20	0.00	66.90	959.50	1087.80	217.90	9.40	18.40	19.50	101.30	
19	32.20	96.30	13.80	0.00	84.00	1004.10	1087.80	189.60	6.10	25.20	21.80	98.80	
20	28.70	108.70	8.30	0.00	111.20	998.50	1087.80	164.10	5.10	23.50	25.20	91.40	
21	23.50	106.20	7.20	0.00	141.30	931.70	1121.40	148.90	5.10	39.30	28.70	79.10	
22	25.20	98.80	7.20	0.00	131.30	823.40	1203.60	133.80	5.10	62.00	32.20	69.30	
23	34.00	71.70	3.00	0.00	118.70	690.90	1387.80	118.70	1.90	66.90	37.50	59.60	
24	42.80	59.60	0.00	0.00	93.80	616.90	1490.00	101.30	0.00	41.10	39.30	62.00	
25	79.10	66.90	0.00	0.00	86.40	621.00	1478.60	86.40	0.00	39.30	41.10	51.80	
26	106.20	71.70	0.00	0.00	106.20	649.60	1433.10	79.10	0.00	42.80	48.20	53.60	
27	106.20	71.70	0.00	0.00	118.70	668.00	1365.10	46.40	10.50	88.90	51.80	51.80	
28	101.30	64.50	0.00	7.20	131.30	688.50	1276.80	62.00	0.00	123.70	48.20	50.00	
29	103.80	74.20	0.00	23.50	143.90	719.60	1212.70	51.80	0.00	103.80	57.20	48.20	
30	108.70	91.40	0.00	35.70	161.60	755.30	1130.60	46.40	0.00	81.50		39.30	
31		98.80		79.10	151.40		1057.10		0.90	79.10		42.80	
Total	1818.20	3086.80	2206.60	150.40	4436.30	16070.80	35491.60	9129.60	370.30	876.50	839.20	2231.60	76707.90
Mean	60.60	99.60	73.60	4.90	143.10	535.70	1144.90	304.30	11.90	28.30	28.90	72.00	
Max	108.70	164.10	236.00	79.10	279.90	1004.10	1490.00	981.80	42.80	123.70	59.60	121.20	1490.00
Min	23.50	53.60	0.00	0.00	64.50	126.20	783.10	46.40	0.00	0.00	4.00	39.30	0.00

WATER YEAR : 2011**MUN RIVER BASIN****Mun River at Ban Phong Sawai, Surin (M.4)**

Lat 15 - 19 - 30 N Long 103 - 40 - 59 E

Location : on left bank at the bridge on highway.

	Ban	Phong Sawai	Amphoe	Tha Tum	Changwat	Surin
Drainage Area	34,654	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1997-Cont'd					
Actual Measurement	1997-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	20					
R-Square	0.8490					
Remarks	Continued Sediment Station					

$$QS = 13.4290 QW^{0.81020}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	82.50	66.50	336.50	231.00	443.80	1580.80	3522.40	4989.00	1495.80	181.70	119.20	52.70	
2	82.50	70.90	318.50	181.70	457.20	1656.20	3694.10	4737.20	1398.40	179.30	119.20	49.50	
3	81.10	69.50	364.90	152.10	470.50	1737.10	3826.30	4545.00	1305.30	176.30	115.20	46.20	
4	81.10	69.50	413.40	137.10	493.50	1800.20	3976.10	4381.60	1206.10	176.30	111.30	41.30	
5	81.10	69.50	371.90	126.90	526.00	1845.00	4143.10	4180.00	1131.20	176.30	111.30	34.50	
6	81.10	66.50	392.80	119.20	535.70	1885.00	4308.60	3994.80	1057.50	170.90	119.20	29.10	
7	81.10	63.50	399.70	111.30	503.30	1902.80	4454.40	3807.50	990.50	170.90	132.10	25.40	
8	79.60	63.50	378.90	101.20	463.90	1898.40	4545.00	3637.00	922.40	168.50	137.10	25.40	
9	79.60	63.50	278.00	90.90	440.50	1898.40	4601.90	3464.70	853.10	168.50	125.00	25.40	
10	78.20	65.00	311.20	85.30	430.40	1885.00	4640.60	3320.30	776.60	160.10	121.10	23.50	
11	76.80	65.00	392.80	86.70	420.20	1853.90	4640.60	3198.60	668.80	157.60	119.20	15.60	
12	76.80	63.50	473.80	86.70	410.00	1871.70	4640.60	3089.50	577.50	155.20	117.20	11.20	
13	75.30	63.50	535.70	86.70	403.10	1926.30	4737.20	2993.30	496.80	147.20	109.30	8.90	
14	75.30	63.50	584.70	85.30	410.00	1997.40	4826.50	2894.80	430.40	147.20	107.30	8.90	
15	75.30	63.50	584.70	86.70	413.40	2072.50	4989.00	2804.80	347.20	147.20	107.30	8.90	
16	75.30	70.90	548.50	90.90	392.80	2133.20	5058.20	2733.00	292.90	147.20	105.30	8.90	
17	73.90	90.90	542.10	105.30	396.20	2179.50	5219.00	2640.60	278.00	147.20	113.30	8.90	
18	73.90	113.30	570.70	119.20	463.90	2225.60	5287.50	2544.20	270.50	147.20	121.10	8.90	
19	73.90	126.90	570.70	132.10	649.10	2258.80	5333.10	2466.80	256.40	142.20	119.20	8.90	
20	73.90	163.10	577.50	160.10	942.50	2305.20	5378.60	2402.50	241.60	139.70	111.30	13.40	
21	73.90	238.20	573.90	200.30	1158.10	2344.20	5378.60	2324.70	223.20	139.70	99.20	11.20	
22	72.40	270.50	535.70	241.60	1274.00	2434.70	5491.90	2247.30	223.20	142.20	86.70	6.40	
23	72.40	223.20	460.50	289.20	1314.30	2518.30	5627.10	2179.50	223.20	142.20	81.10	3.60	
24	69.50	234.40	371.90	336.50	1336.50	2614.00	5761.60	2114.60	218.10	139.70	73.90	0.00	
25	69.50	289.20	314.90	396.20	1341.00	2714.20	5850.90	2035.00	207.80	137.10	69.50	0.00	
26	69.50	361.40	292.90	450.50	1336.50	2815.70	5873.10	1950.00	197.50	137.10	65.00	57.30	
27	70.90	350.80	289.20	490.30	1354.30	2968.70	5806.30	1862.80	192.20	134.60	65.00	115.20	
28	68.00	325.80	289.20	503.30	1394.00	3089.50	5694.50	1773.20	184.60	126.90	63.50	113.30	
29	66.50	311.20	329.40	477.10	1437.90	3225.70	5537.00	1687.10	181.70	126.90	61.90	113.30	
30	66.50	314.90	285.50	453.90	1477.80	3356.20	5378.60	1590.00	181.70	126.90		152.10	
31		340.10		437.10	1522.80		5196.10		184.60	125.00		160.10	
Total	2257.40	4811.70	12690.10	6652.40	24613.20	66994.20	153418.50	88589.40	17214.80	4685.00	3007.00	1188.00	386121.80
Mean	75.20	155.20	423.00	214.60	794.00	2233.10	4949.00	2953.00	555.30	151.10	103.70	38.30	
Max	82.50	361.40	584.70	503.30	1522.80	3356.20	5873.10	4989.00	1495.80	181.70	137.10	160.10	5873.10
Min	66.50	63.50	278.00	85.30	392.80	1580.80	3522.40	1590.00	181.70	125.00	61.90	0.00	0.00

WATER YEAR : 2011**MUN RIVER BASIN****Mun River at Ban Mueang Kong, Si Sa Ket (M.5)**

Lat 15 - 20 - 16 N Long 104 - 09 - 21 E

Location : on left bank infront of Amphoe Rasi Salai Office.

	Ban Mueang Kong	Amphoe Rasi Salai	Changwat Si Sa Ket
Drainage Area	45,295 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	32		
R-Square	0.8897		
Remarks	Continued Sediment Station		

$$QS = 6.9642 QW^{0.89100}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.60	24.00	22.90	26.60	669.30	1638.20	4621.90	8610.10	2205.70	28.20	21.30	122.10	
2	14.60	24.00	21.30	25.00	402.70	1831.00	4710.10	8391.60	1822.80	28.20	21.30	221.20	
3	14.60	24.00	53.70	26.60	151.00	1886.70	4810.60	8099.20	1442.70	26.60	21.30	86.00	
4	13.50	24.00	289.60	24.00	151.00	1930.40	4948.40	7810.70	1180.80	25.00	37.40	139.50	
5	13.50	24.00	694.10	24.00	368.60	1974.70	5046.90	7462.80	976.80	25.00	49.30	136.50	
6	12.30	24.00	795.70	22.90	543.50	2044.20	5168.70	7155.50	672.80	25.00	47.90	55.60	
7	12.30	22.90	781.80	22.90	543.50	2134.70	5275.00	6862.50	222.50	24.00	35.90	49.30	
8	12.30	22.90	615.80	24.00	406.50	2220.70	5396.20	6568.00	223.70	24.00	24.00	25.00	
9	12.30	21.30	275.40	24.00	282.50	2336.80	5501.90	6255.70	198.70	24.00	37.40	25.00	
10	11.20	21.30	228.50	22.90	246.70	2471.90	5608.80	6017.50	154.00	24.00	62.30	25.00	
11	11.20	22.90	142.50	22.90	104.50	2613.60	5690.80	5778.20	104.50	22.90	62.30	24.00	
12	22.90	22.90	122.10	21.30	127.80	2697.30	5800.00	5547.20	66.60	22.90	58.00	24.00	
13	26.60	22.90	113.40	49.30	201.20	2785.10	6060.90	5381.10	59.90	22.90	53.70	24.00	
14	26.60	24.00	127.80	113.40	328.20	2878.80	6190.90	5183.90	51.30	22.90	53.70	33.30	
15	25.00	24.00	122.10	89.20	349.40	2972.20	6363.60	4973.40	44.90	22.90	53.70	41.90	
16	25.00	24.00	162.50	83.30	488.60	3069.90	6594.90	4810.60	35.90	22.90	53.70	38.90	
17	24.00	24.00	271.80	76.80	525.30	3164.60	6755.60	4609.30	30.80	22.90	53.70	37.40	
18	26.60	24.00	253.90	66.60	296.60	3245.50	6889.20	4444.10	25.00	21.30	53.70	38.90	
19	29.20	24.00	257.50	62.30	492.20	3360.20	7155.50	4275.60	24.00	21.30	53.70	41.90	
20	29.20	22.90	455.20	62.30	820.00	3454.80	7399.40	4116.80	24.00	21.30	51.30	41.90	
21	30.80	21.30	587.00	62.30	1177.50	3506.40	7652.80	3976.30	22.90	21.30	55.60	40.40	
22	30.80	21.30	579.80	62.30	1278.00	3629.60	7879.00	3832.70	22.90	21.30	76.80	38.90	
23	31.80	21.30	528.90	58.00	1285.20	3756.70	8099.20	3697.10	22.90	25.00	59.90	38.90	
24	30.80	22.90	481.20	64.70	1253.40	3883.40	8355.10	3462.00	24.00	41.90	62.30	35.90	
25	29.20	22.90	462.70	168.00	1267.20	4001.50	8500.90	3299.30	29.20	30.80	64.70	31.80	
26	29.20	21.30	414.10	173.40	1324.80	4116.80	8646.40	3144.30	29.20	24.00	66.60	30.80	
27	29.20	21.30	238.20	173.40	1396.40	4255.80	8791.60	2947.30	29.20	24.00	66.60	29.20	
28	29.20	20.20	148.10	410.30	1449.80	4402.10	8864.10	2741.20	29.20	22.90	68.50	19.10	
29	26.60	20.20	66.60	1135.60	1476.90	4444.10	8900.30	2561.60	28.20	22.90	68.50	18.00	
30	24.00	20.20	51.30	679.90	1519.30	4541.90	8827.90	2387.00	28.20	20.20		16.90	
31		20.20		669.30	1577.00		8791.60		28.20	20.20		15.80	
Total	669.10	701.10	9365.50	4547.50	22504.60	91249.60	209298.20	154402.60	9861.50	752.70	1495.10	1547.10	506394.60
Mean	22.30	22.60	312.20	146.70	726.00	3041.70	6751.60	5146.80	318.10	24.30	51.60	49.90	
Max	31.80	24.00	795.70	1135.60	1577.00	4541.90	8900.30	8610.10	2205.70	41.90	76.80	221.20	8900.30
Min	11.20	20.20	21.30	21.30	104.50	1638.20	4621.90	2387.00	22.90	20.20	21.30	15.80	11.20

WATER YEAR : 2011**MUN RIVER BASIN****Mun River at Satuk, Buri Ram (M.6A)**

Lat 15 - 17 - 53 N Long 103 - 17 - 46 E

Location : on right bank at Satuk.

	Ban Satuk	Amphoe Satuk	Changwat Buri Ram
Drainage Area	28,458 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2000-Cont'd		
Actual Measurement	2000-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	46		
R-Square	0.9203		
Remarks	Continued Sediment Station		

$$QS = 17.8350 QW^{0.72960}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.30	12.30	342.90	64.30	284.40	1082.00	2401.40	2854.50	949.30	102.60	43.60	20.40	
2	12.30	12.30	345.00	46.30	325.30	1101.80	2536.40	2796.80	900.50	88.60	42.60	17.80	
3	12.30	12.30	355.80	59.40	364.40	1097.90	2712.40	2726.50	854.40	76.80	66.70	17.80	
4	12.30	12.30	355.80	56.90	377.10	1078.00	2884.20	2659.60	809.00	88.60	138.50	17.80	
5	12.30	12.30	349.40	64.30	349.40	1046.50	3001.90	2610.60	757.10	88.60	164.40	17.80	
6	12.30	12.30	331.90	59.40	296.00	1035.30	3103.50	2561.20	698.90	76.80	140.90	17.80	
7	12.30	12.30	307.40	45.40	289.00	1016.40	3175.30	2511.50	646.70	64.30	110.60	17.80	
8	12.30	12.30	336.30	51.70	314.10	970.70	3203.80	2424.60	585.40	59.40	115.90	17.80	
9	12.30	13.70	372.80	71.40	293.70	970.70	3189.60	2389.70	518.70	51.70	121.00	16.50	
10	12.30	13.70	402.00	64.30	284.40	981.30	3161.00	2331.20	454.40	46.30	102.60	16.50	
11	12.30	15.20	425.90	49.00	291.40	988.40	3132.30	2262.40	385.40	45.40	88.60	16.50	
12	12.30	45.40	445.00	43.60	300.50	1006.00	3103.50	2176.60	302.80	43.60	99.80	16.50	
13	12.30	118.50	452.10	42.60	298.30	1027.80	3132.30	2119.80	270.30	43.60	99.80	16.50	
14	12.30	166.70	466.10	49.00	260.70	1058.00	3117.90	2062.30	251.00	43.60	118.50	16.50	
15	12.30	197.50	473.10	64.30	222.60	1109.70	3117.90	1989.60	251.00	45.40	140.90	16.50	
16	12.30	197.50	473.10	82.80	289.00	1158.30	3132.30	1923.90	270.30	49.00	148.10	16.50	
17	12.30	191.10	468.50	113.30	381.20	1216.50	3161.00	1857.30	236.70	49.00	138.50	16.50	
18	12.30	232.70	470.80	140.90	452.10	1272.90	3189.60	1788.90	230.70	49.00	110.60	16.50	
19	12.30	272.60	447.40	191.10	550.00	1278.00	3246.50	1705.20	199.60	47.20	79.80	16.50	
20	12.30	282.10	395.80	212.30	656.30	1363.20	3395.60	1643.30	193.20	46.30	59.40	16.50	
21	12.30	258.30	309.60	222.60	721.80	1451.60	3576.10	1567.70	208.10	45.40	47.20	16.50	
22	12.30	246.10	255.90	260.70	777.50	1581.50	3747.90	1504.80	177.90	43.60	40.70	17.80	
23	12.30	234.70	241.20	300.50	806.20	1697.50	3841.60	1417.90	148.10	46.30	34.80	102.60	
24	12.30	263.10	232.70	336.30	831.70	1804.00	3841.60	1358.30	136.10	49.00	28.50	214.30	
25	12.30	272.60	220.50	355.80	863.70	1874.00	3747.90	1293.20	131.10	47.20	26.30	238.70	
26	12.30	253.40	206.00	353.70	897.50	1915.60	3627.90	1226.80	121.00	46.30	25.10	197.50	
27	12.30	267.90	195.40	325.30	912.70	1981.40	3493.60	1158.30	110.60	40.70	22.80	193.20	
28	12.30	293.70	175.70	284.40	916.00	2081.50	3365.80	1093.90	105.30	32.70	21.60	251.00	
29	12.30	314.10	128.60	267.90	916.00	2186.00	3232.30	1046.50	99.80	31.70	20.40	267.90	
30	12.30	338.50	88.60	270.30	970.70	2296.70	3103.50	1002.50	94.30	36.80		212.30	
31		353.70		293.70	1024.00		2958.00		110.60	45.40		182.30	
Total	369.00	4941.20	10071.30	4843.50	16517.70	40729.20	99634.60	58065.40	11208.30	1670.90	2398.20	2237.10	252686.40
Mean	12.30	159.40	335.70	156.20	532.80	1357.60	3214.00	1935.50	361.60	53.90	82.70	72.20	
Max	12.30	353.70	473.10	355.80	1024.00	2296.70	3841.60	2854.50	949.30	102.60	164.40	267.90	3841.60
Min	12.30	12.30	88.60	42.60	222.60	970.70	2401.40	1002.50	94.30	31.70	20.40	16.50	12.30

WATER YEAR : 2011**MUN RIVER BASIN****Mun River at Seri Prachathipatai Bridge, Ubon Ratchathani (M.7)**

Lat 15 - 13 - 15 N Long 104 - 51 - 41 E

Location : on left bank at Seri Prachathipatai Bridge.

	Ban Chumchondee	Amphoe Mueang	Changwat Ubon Ratchathani
Drainage Area	107,345 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2010-Cont'd		
Actual Measurement	2010-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	26		
R-Square	0.7913		
Remarks	Continued Sediment Station		

$$QS = 18.3510 QW^{0.79780}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	208.20	448.90	1597.40	986.10	3243.30	9006.80	13841.20	15966.70	7185.50	620.30	850.30	737.60	
2	204.30	590.10	1540.50	945.90	3243.30	9152.60	13770.20	15795.30	6776.20	679.60	822.50	808.50	
3	216.10	751.90	1381.10	905.20	3227.50	9370.30	13912.10	15554.50	6307.40	737.60	794.50	780.30	
4	313.00	986.10	1282.30	1065.30	3164.20	9550.70	13770.20	15312.80	5887.20	808.50	751.90	808.50	
5	334.20	1117.30	1206.80	1091.40	3100.50	9658.60	13556.50	15208.90	5476.60	850.30	664.90	959.30	
6	355.10	1526.20	1206.80	1091.40	3164.20	9766.10	13391.50	14965.80	5163.40	864.10	590.10	932.40	
7	375.70	1723.60	1319.60	1052.20	3415.70	9873.30	13253.70	14651.70	4756.10	822.50	605.30	780.30	
8	385.90	1792.70	1625.60	1012.70	4040.30	9980.30	13115.40	14406.30	4129.60	808.50	635.30	679.60	
9	396.00	1928.90	1625.60	1039.10	4485.60	10181.50	13004.60	14124.40	3585.90	822.50	664.90	808.50	
10	365.40	2229.10	1625.60	1039.10	4738.20	10440.40	12921.30	13699.00	3020.40	822.50	664.90	620.30	
11	334.20	2304.70	1639.70	1025.90	4969.70	10697.70	12837.90	13419.00	2349.80	808.50	679.60	650.10	
12	334.20	2289.70	1681.80	999.40	5058.00	10976.60	12810.00	13004.60	1847.40	850.30	679.60	723.20	
13	375.70	2106.80	1737.40	999.40	5093.20	11230.70	12893.50	12642.70	1751.30	808.50	679.60	708.70	
14	416.00	1996.10	1792.70	999.40	5180.90	11437.50	13060.00	12278.10	1955.80	780.30	679.60	723.20	
15	448.90	1888.30	1806.40	1012.70	5338.00	11780.10	13281.30	11961.80	2091.40	737.60	650.10	708.70	
16	497.10	1861.10	1792.70	1143.10	5717.00	12097.60	13529.00	11643.40	2137.60	766.20	620.30	679.60	
17	497.10	1901.80	1806.40	1611.50	6022.50	12390.60	13734.60	11322.70	2137.60	751.90	620.30	620.30	
18	416.00	1955.80	1820.10	1806.40	6156.90	12726.40	14371.10	11022.90	1996.10	708.70	574.90	574.90	
19	375.70	1778.90	1778.90	1955.80	6539.60	12976.80	14686.70	10627.70	1901.80	679.60	590.10	559.50	
20	355.10	1709.70	1751.30	2036.10	6971.90	13226.00	14896.10	10252.30	1969.30	664.90	620.30	664.90	
21	375.70	1681.80	1681.80	2076.00	7455.00	13474.10	15174.20	9944.70	1888.30	664.90	590.10	679.60	
22	385.90	1639.70	1723.60	2062.70	7760.10	13912.10	15485.50	9658.60	1765.10	780.30	635.30	679.60	
23	465.10	1639.70	1792.70	2009.50	7986.90	14230.30	15760.90	9406.50	1639.70	905.20	708.70	679.60	
24	432.50	1639.70	1806.40	2022.80	8137.20	14441.40	16035.10	9098.00	1395.80	1012.70	723.20	694.20	
25	396.00	1695.70	1833.80	1955.80	8249.50	14511.60	16205.90	8768.50	1344.30	1168.70	694.20	679.60	
26	355.10	1778.90	1806.40	2036.10	8342.80	14511.60	16308.10	8547.00	1194.20	1294.70	664.90	664.90	
27	334.20	1778.90	1723.60	2183.50	8398.60	14371.10	16308.10	8249.50	850.30	1381.10	605.30	694.20	
28	375.70	1792.70	1667.80	2214.00	8417.20	14230.30	16376.20	7968.10	737.60	1356.60	620.30	694.20	
29	406.00	1765.10	1483.00	2628.20	8472.90	14159.80	16308.10	7684.10	679.60	1206.80	664.90	737.60	
30	406.00	1751.30	1078.40	3148.30	8676.40	14018.40	16171.80	7416.70	620.30	1039.10		708.70	
31		1723.60		3243.30	8805.20		16069.30		559.50	905.20		650.10	
Total	11136.10	51774.80	48616.20	49398.30	183572.30	358381.30	446840.10	354602.30	85101.10	27108.20	19345.90	22090.7	657967.40
Mean	371.20	1670.20	1620.50	1593.50	5921.70	11946.00	14414.20	11820.10	2745.20	874.50	667.10	712.60	
Max	497.10	2304.70	1833.80	3243.30	8805.20	14511.60	16376.20	15966.70	7185.50	1381.10	850.30	959.30	16376.20
Min	204.30	448.90	1078.40	905.20	3100.50	9006.80	12810.00	7416.70	559.50	620.30	574.90	559.50	204.30

WATER YEAR : 2011**MUN RIVER BASIN****Huai Samran at Mueang, Si Sa ket (M.9)**

Lat 15 - 06 - 58 N Long 104 - 19 - 21 E

Location : on right bank at the bridge on Highway.

	Ban -	Amphoe	Mueang	Changwat	Si Sa Ket
Drainage Area	2,988	sq.km.			
Method of sampling	Depth Integrating				
Instrument Used	US.D-49				
Period of Available Records	1998-Cont'd				
Actual Measurement	1998-Cont'd				
Using Rating Curve Water Year	2011				
Number of observation	36				
R-Square	0.9539				
Remarks	Continued Sediment Station				

$$QS = 4.3889 QW^{0.90160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.50	2.50	2.50	3.50	3.50	72.40	497.10	577.70	18.00	2.90	2.50	2.20	
2	2.50	2.50	2.50	3.30	3.40	102.10	496.20	528.90	14.10	2.90	2.60	2.20	
3	2.50	2.50	2.40	3.20	3.00	127.30	503.70	473.00	23.30	2.90	2.60	2.20	
4	2.50	2.50	2.40	2.90	2.90	141.20	511.70	422.80	14.80	2.80	2.60	2.20	
5	2.50	2.50	2.40	2.60	2.90	144.50	515.30	355.90	9.40	2.80	2.60	2.20	
6	2.40	2.50	2.80	2.60	3.00	150.10	517.60	310.70	7.00	2.90	2.60	2.20	
7	2.40	2.40	3.10	2.60	3.30	172.60	523.50	271.40	5.20	3.10	2.50	2.20	
8	2.40	2.40	3.00	2.60	3.80	182.90	524.70	240.40	4.30	3.10	2.50	2.20	
9	2.40	2.40	2.40	2.50	4.00	213.20	523.50	212.60	3.50	2.90	2.50	2.20	
10	2.40	2.40	2.40	2.40	4.00	264.30	524.70	184.50	3.30	3.00	2.50	2.20	
11	2.40	2.40	2.40	2.30	4.30	312.50	529.40	161.10	3.10	2.70	2.50	2.10	
12	2.40	2.40	2.50	2.10	4.50	353.90	550.40	139.60	3.10	2.70	2.50	1.90	
13	2.50	2.50	2.80	2.10	4.60	394.80	556.30	121.00	3.10	2.60	2.40	1.80	
14	2.50	2.60	3.10	2.10	4.60	414.20	573.70	108.30	3.10	2.60	2.40	1.80	
15	2.50	2.50	2.70	2.10	5.40	413.20	592.30	93.70	3.10	2.70	2.30	2.10	
16	2.50	2.50	2.40	2.00	5.40	411.30	615.40	80.20	3.10	2.70	2.30	2.10	
17	2.50	2.50	2.40	2.00	6.00	412.20	646.50	68.10	3.00	2.70	2.30	2.10	
18	2.50	2.50	2.40	2.00	6.20	409.30	674.20	65.30	3.00	2.70	2.30	2.10	
19	2.50	2.50	2.40	2.00	7.30	408.40	699.90	62.20	2.90	2.70	2.30	2.10	
20	2.50	2.50	2.40	2.00	11.30	409.30	716.30	58.10	2.90	2.70	2.30	2.10	
21	2.50	2.50	2.40	2.10	17.50	412.20	726.30	53.90	2.90	2.70	2.20	1.90	
22	2.50	2.40	2.40	2.10	22.00	432.40	744.40	50.30	2.90	2.70	2.20	1.80	
23	2.50	2.40	2.40	2.10	24.20	456.30	763.30	46.60	2.90	2.70	2.20	2.00	
24	2.50	2.50	2.60	2.10	24.20	479.10	789.00	42.80	2.90	2.60	2.20	2.10	
25	2.50	2.50	4.00	2.20	24.90	492.40	810.10	38.80	2.90	2.60	2.20	2.10	
26	2.50	2.40	4.10	2.40	25.50	499.00	825.70	34.40	2.90	2.60	2.20	2.10	
27	2.50	2.40	3.90	2.40	29.30	505.60	822.60	30.20	3.00	2.60	2.20	2.10	
28	2.50	2.40	3.90	2.50	33.40	506.60	774.60	27.00	3.10	2.60	2.10	2.10	
29	2.50	2.40	3.60	3.70	37.20	503.70	726.30	24.30	2.90	2.60	2.10	2.10	
30	2.50	2.40	3.50	4.10	41.60	500.00	685.40	21.40	2.90	2.60		2.20	
31		2.50		3.50	49.80		623.50		3.00	2.60		2.10	
Total	74.30	76.30	84.20	78.10	423.00	10297.00	19583.60	4905.20	165.60	85.00	68.70	64.80	35905.80
Mean	2.50	2.50	2.80	2.50	13.60	343.20	631.70	163.50	5.30	2.70	2.40	2.10	
Max	2.50	2.60	4.10	4.10	49.80	506.60	825.70	577.70	23.30	3.10	2.60	2.20	825.70
Min	2.40	2.40	2.40	2.00	2.90	72.40	496.20	21.40	2.90	2.60	2.10	1.80	1.80

WATER YEAR : 2011**MUN RIVER BASIN****Lam Se Bai at Ban Chiang Pheng, Yasothon (M.32)**

Lat 15 - 50 - 18 N Long 104 - 27 - 35 E

Location : on right bank at Phawaphutanon bridge.

	Ban	Chiang Pheng	Amphoe	Pa Tiu	Changwat	Yasothon
Drainage Area	1,646	sq.km.				
Method of sampling	Depth	Integrating				
Instrument Used	US.D-49					
Period of Available Records	1998-Cont'd					
Actual Measurement	1998-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	27					
R-Square	0.7950					
Remarks	Continued	Sediment Station				

$$QS = 1.4678 QW^{1.21220}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	11.60	139.00	950.40	303.00	28.30	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	15.50	188.90	958.70	707.80	28.30	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	28.30	229.60	975.30	884.50	28.30	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	22.20	306.60	1000.30	933.80	28.30	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	14.20	288.60	1017.10	835.60	28.30	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	5.60	324.80	1033.90	673.80	28.30	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	10.30	560.60	1067.60	483.00	30.40	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	10.30	1042.30	1127.10	246.10	30.40	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	9.10	1495.10	1195.80	136.70	30.40	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	12.90	1907.30	1247.70	59.80	30.40	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	62.90	2350.60	1326.40	10.30	32.60	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	117.60	2741.20	1414.70	30.40	32.60	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	135.50	2472.20	1361.60	116.90	32.60	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	164.30	2046.10	1317.60	154.60	34.70	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	197.30	1686.80	1282.60	253.10	36.90	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	163.00	1649.00	1230.40	457.60	36.90	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	139.00	1759.70	1110.00	528.00	36.90	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	120.30	1833.20	1000.30	347.90	36.90	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	113.00	2089.10	892.70	242.60	34.70	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	66.00	2494.40	783.50	174.50	32.60	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	113.80	2164.80	680.60	139.00	32.60	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	149.70	2067.60	554.10	119.90	26.30	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	220.60	1907.30	426.20	117.60	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	1.90	320.30	1576.20	315.70	104.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	11.60	413.80	1300.10	246.10	53.80	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	12.90	567.20	1152.80	193.10	47.80	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	11.60	370.70	1033.90	155.80	42.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	11.60	242.60	983.60	137.80	36.90	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	10.30	188.90	933.80	135.50	34.70	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	11.60	155.80	942.10	135.50	32.60	0.00	0.00	0.00		0.00	
31		0.00		135.50	950.40		30.40		0.00	0.00		0.00	
Total	0.00	0.00	71.50	4297.80	42617.70	25274.10	8338.70	697.70	0.00	0.00	0.00	0.00	81297.50
Mean	0.00	0.00	2.40	138.60	1374.80	842.50	269.00	23.30	0.00	0.00	0.00	0.00	
Max	0.00	0.00	12.90	567.20	2741.20	1414.70	933.80	36.90	0.00	0.00	0.00	0.00	2741.20
Min	0.00	0.00	0.00	5.60	139.00	135.50	10.30	0.00	0.00	0.00	0.00	0.00	0.00

WATER YEAR : 2011**MUN RIVER BASIN****Huai Thap Than at Ban Huai Thap Than, Si Sa Ket (M.42)**

Lat 15 - 02 - 48 N Long 104 - 01 - 31 E

Location : on right bank at the bridge on highway.

	Ban Huai Thap Than	Amphoe Huai Thap Thun	Changwat Si Sa Ket
Drainage Area	2,832 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	24		
R-Square	0.8908		
Remarks	Continued Sediment Station		

$$QS = 2.6244 QW^{1.05060}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	6.00	7.70	120.30	691.70	428.00	5.20	0.00	0.00	0.00	
2	0.00	0.00	0.00	5.20	7.70	146.70	702.50	362.70	4.30	0.00	0.00	0.00	
3	0.00	0.00	0.00	4.30	11.30	178.10	702.50	303.80	2.30	0.00	0.00	0.00	
4	0.00	0.00	0.00	2.60	20.70	204.30	691.70	239.60	1.50	0.00	0.00	0.00	
5	0.00	0.00	0.00	2.60	24.90	221.20	691.70	180.30	1.50	0.00	0.00	0.00	
6	0.00	0.00	0.00	2.30	22.10	230.00	671.10	126.60	1.50	0.00	0.00	0.00	
7	0.00	0.00	0.00	2.10	20.70	237.40	645.20	94.90	1.50	0.00	0.00	0.00	
8	0.00	0.00	0.00	1.80	28.20	239.60	640.90	77.30	1.50	0.00	0.00	0.00	
9	0.00	0.00	0.00	1.80	26.60	249.00	653.90	63.20	1.50	0.00	0.00	0.00	
10	0.00	0.00	0.00	1.50	24.90	262.50	675.50	57.10	1.30	0.00	0.00	0.00	
11	0.00	0.00	0.00	1.50	28.20	280.70	691.70	54.00	1.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	1.30	24.90	308.00	675.50	42.00	1.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	1.30	24.90	344.10	658.20	31.70	0.70	0.00	0.00	0.00	
14	0.00	0.00	1.50	1.50	26.60	384.90	675.50	28.20	0.70	0.00	0.00	0.00	
15	0.00	0.00	1.50	1.30	23.50	436.50	735.40	23.50	0.50	0.00	0.00	0.00	
16	0.00	0.00	1.30	1.30	22.10	497.70	839.90	20.70	0.20	0.00	0.00	0.00	
17	0.00	0.00	1.30	1.30	18.00	553.90	1014.00	19.40	0.00	0.00	0.00	0.00	
18	0.00	0.00	1.80	2.10	16.60	594.60	1279.30	18.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	2.10	1.80	23.50	617.20	1609.50	16.60	0.00	0.00	0.00	0.00	
20	0.00	0.00	6.00	2.30	33.40	624.80	1838.60	15.30	0.00	0.00	0.00	0.00	
21	0.00	0.00	7.70	2.30	38.50	624.80	1911.30	13.90	0.00	0.00	0.00	0.00	
22	0.00	0.00	6.00	5.20	36.80	621.00	1816.00	12.60	0.00	0.00	0.00	0.00	
23	0.00	0.00	5.20	4.30	35.10	617.20	1707.30	10.40	0.00	0.00	0.00	0.00	
24	0.00	0.00	4.30	6.00	38.50	587.10	1580.20	9.50	0.00	0.00	0.00	0.00	
25	0.00	0.00	2.60	6.90	40.30	583.40	1412.20	8.60	0.00	0.00	0.00	0.00	
26	0.00	0.00	2.30	7.70	42.00	590.90	1254.70	7.70	0.00	0.00	0.00	0.00	
27	0.00	0.00	2.30	6.90	51.00	621.00	1120.40	6.90	0.00	0.00	0.00	0.00	
28	0.00	0.00	2.30	8.60	57.10	624.80	921.60	6.90	0.00	0.00	0.00	0.00	
29	0.00	0.00	2.30	8.60	63.20	649.50	752.70	6.90	0.00	0.00	0.00	0.00	
30	0.00	0.00	2.10	7.70	77.90	666.80	613.50	6.90	0.00	0.00		0.00	
31		0.00		6.90	89.00		510.10		0.00	0.00		0.00	
Total	0.00	0.00	52.60	117.00	1005.90	12918.00	30384.30	2293.20	26.20	0.00	0.00	0.00	46797.20
Mean	0.00	0.00	1.80	3.80	32.40	430.60	980.10	76.40	0.80	0.00	0.00	0.00	
Max	0.00	0.00	7.70	8.60	89.00	666.80	1911.30	428.00	5.20	0.00	0.00	0.00	1911.30
Min	0.00	0.00	0.00	1.30	7.70	120.30	510.10	6.90	0.00	0.00	0.00	0.00	0.00

WATER YEAR : 2011**MUN RIVER BASIN****Lam Takhong at Vaccine Serum Office, Nakhon Ratchasima (M.89)**

Lat 14 - 41 - 39 N Long 101 - 25 - 00 E

Location : on left bank at the bridge infront of Vaccine Serum Office.

	Ban -	Amphoe Pak Chong	Changwat Nakhon Ratchasima
Drainage Area	713 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1981 - 1988,1991,1997 - Cont'd		
Actual Measurement	1981 - 1988,1991,1997 - Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	23		
R-Square	0.7158		
Remarks	Continued Sediment Station		

$$QS = 3.9101 QW^{1.34520}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	47.30	58.80	58.50	362.60	230.40	106.90	305.00	69.60	51.20	50.40	49.40	47.60	
2	47.30	65.20	260.80	127.10	466.90	132.20	233.40	65.20	51.20	50.20	49.10	48.10	
3	47.30	55.80	301.80	83.10	526.20	145.40	503.20	60.90	51.20	49.90	49.10	49.70	
4	47.30	55.20	167.00	69.60	345.90	97.20	734.20	58.50	51.20	49.90	49.40	48.10	
5	47.30	54.70	111.90	67.40	212.60	106.90	366.80	58.00	51.20	49.90	49.70	47.60	
6	49.10	53.90	67.40	57.10	153.40	80.80	554.10	57.40	51.20	49.70	49.70	47.60	
7	53.70	54.40	57.40	55.80	114.40	104.50	654.80	57.10	51.20	49.70	49.10	47.60	
8	51.70	52.60	56.60	54.40	90.10	99.60	331.00	58.50	51.20	49.40	48.90	48.10	
9	51.70	51.50	55.20	53.40	74.00	114.40	273.20	80.80	51.20	49.40	48.60	48.10	
10	50.70	51.20	54.20	54.20	69.60	440.20	236.40	74.00	51.20	49.10	49.40	48.40	
11	49.90	51.20	71.80	153.40	78.50	1726.00	640.10	58.50	51.20	49.10	49.10	49.10	
12	49.90	69.60	69.60	153.40	74.00	2012.90	714.20	56.90	51.20	49.10	48.60	48.40	
13	49.90	94.80	58.00	83.10	58.30	1438.90	805.60	56.10	51.20	49.10	48.60	48.10	
14	51.50	85.40	58.00	69.60	74.00	1200.10	471.40	55.50	51.20	49.10	48.60	48.40	
15	51.20	85.40	54.20	167.00	167.00	689.30	334.30	55.20	51.20	49.10	48.40	48.10	
16	51.20	85.40	54.70	186.60	192.30	375.30	418.30	55.00	51.20	49.10	48.40	48.10	
17	51.20	85.40	54.20	142.70	121.90	308.20	458.00	54.70	51.20	49.10	48.40	48.10	
18	49.90	65.20	53.90	148.00	111.90	279.50	392.30	54.20	51.20	49.10	47.80	47.80	
19	49.90	63.00	53.90	137.40	200.90	295.40	295.40	53.90	51.20	49.10	47.80	48.10	
20	48.90	56.90	54.40	251.60	212.60	198.10	236.40	53.70	51.20	49.10	46.50	47.60	
21	49.90	56.60	71.80	341.70	153.40	227.40	198.10	53.90	51.00	49.10	46.80	47.80	
22	53.70	55.20	58.00	279.50	114.40	175.40	169.80	53.90	50.20	49.10	48.10	47.80	
23	50.40	53.90	54.20	224.40	87.70	186.60	148.00	53.90	50.20	49.10	47.80	47.60	
24	48.90	53.40	53.90	145.40	69.60	535.50	132.20	53.90	50.20	49.10	47.60	47.60	
25	48.60	60.90	53.90	127.10	97.20	1311.10	119.40	53.40	50.20	49.10	48.10	47.60	
26	49.40	55.20	53.10	148.00	65.20	568.20	106.90	53.10	50.20	49.10	48.10	47.60	
27	49.90	60.90	54.40	145.40	58.30	2235.20	99.60	53.10	50.20	49.10	47.60	47.30	
28	51.20	58.30	714.20	99.60	71.80	959.90	94.80	52.90	50.20	49.10	47.30	47.30	
29	57.40	83.10	230.40	104.50	76.30	503.20	90.10	52.90	50.20	49.10	47.30	47.10	
30	121.90	85.40	140.10	134.80	85.40	354.20	80.80	52.60	49.90	49.10		47.10	
31		58.80		150.70	83.10		76.30		49.90	49.10		47.10	
Total	1578.20	1977.30	3257.50	4378.60	4537.30	17008.50	10274.10	1727.30	1576.40	1528.70	1403.30	1484.60	50731.80
Mean	52.60	63.80	108.60	141.20	146.40	567.00	331.40	57.60	50.90	49.30	48.40	47.90	
Max	121.90	94.80	714.20	362.60	526.20	2235.20	805.60	80.80	51.20	50.40	49.70	49.70	2235.20
Min	47.30	51.20	53.10	53.40	58.30	80.80	76.30	52.60	49.90	49.10	46.50	47.10	46.50

WATER YEAR : 2011**MUN RIVER BASIN****Huai Ta Thieo at Ban Na Hai, Ubon Ratchathani (M.127)**

Lat 15 - 38 - 37 N Long 104 - 55 - 57 E

Location : on left bank at the bridge on road.

	Ban Na Hai	Amphoe Trakan Phutphon	Changwat Ubon Ratchathani
Drainage Area	424 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	21		
R-Square	0.7744		
Remarks	Continued Sediment Station		

$$QS = 6.3631 QW^{1.07830}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	2.40	0.00	9.10	64.80	186.70	55.10	6.00	4.70	3.30	1.70	0.00		
2	0.50	2.10	0.00	10.60	64.80	413.60	121.40	5.70	4.30	3.30	1.70	0.00		
3	0.30	2.10	0.00	12.70	72.90	571.60	241.70	5.00	4.30	3.30	1.70	0.00		
4	0.30	2.10	0.00	7.70	53.50	322.20	142.20	4.30	4.30	3.30	1.70	0.00		
5	0.00	2.40	0.00	6.40	53.50	881.60	98.60	4.00	4.30	3.30	1.70	0.00		
6	0.00	2.40	0.80	4.70	51.90	1625.40	61.50	4.00	4.30	3.30	1.40	0.00		
7	0.00	2.70	2.70	4.30	369.20	1428.30	50.30	4.30	4.30	3.00	1.40	0.00		
8	0.00	3.00	2.40	4.00	1992.50	711.10	39.20	4.30	4.30	3.00	1.10	0.00		
9	0.00	2.70	2.10	3.70	2878.70	600.20	48.70	4.30	4.30	2.70	1.10	0.00		
10	0.00	2.40	1.70	3.70	3674.30	830.20	26.10	4.30	4.30	2.40	1.10	0.00		
11	0.00	2.40	1.10	3.70	1964.40	523.20	23.80	6.00	4.30	2.10	0.80	0.00		
12	0.00	2.70	1.40	4.70	748.40	571.60	23.10	5.70	4.00	2.10	0.80	0.00		
13	0.00	2.70	4.00	17.80	182.00	580.20	107.70	5.70	4.00	2.10	0.80	0.00		
14	0.00	3.00	3.70	69.70	149.10	297.60	215.30	5.70	4.00	2.10	0.50	0.00		
15	0.00	2.40	3.00	137.50	137.50	241.70	285.40	5.70	4.00	2.10	0.50	0.00		
16	0.00	2.40	3.00	146.80	319.70	339.50	236.90	5.30	4.00	2.10	0.50	0.00		
17	0.00	2.40	3.30	137.50	394.70	249.00	167.90	5.30	4.00	2.10	0.50	0.00		
18	1.10	2.40	26.80	132.90	433.10	268.40	123.70	5.30	4.00	2.10	0.30	0.00		
19	2.10	2.40	20.10	69.70	611.60	249.00	87.40	5.30	4.00	2.10	0.00	0.00		
20	2.10	1.70	14.90	53.50	1489.30	1789.10	64.80	5.30	4.00	2.10	0.00	0.00		
21	2.10	0.50	11.30	53.50	1023.30	1781.90	48.70	5.00	4.00	2.10	0.00	0.00		
22	2.10	0.50	9.90	137.50	511.90	634.60	37.60	5.00	3.70	2.40	0.00	0.00		
23	2.10	0.50	8.40	119.10	263.50	329.60	31.40	5.00	3.70	2.40	0.00	0.00		
24	1.70	0.50	6.00	94.10	151.50	177.30	34.50	5.00	3.70	2.40	0.00	0.00		
25	1.70	0.50	5.00	160.80	96.30	114.50	31.40	5.00	3.70	2.70	0.00	0.00		
26	1.10	0.80	4.30	146.80	66.40	85.10	26.80	4.70	3.70	2.70	0.00	0.00		
27	0.80	0.80	4.30	85.10	69.70	61.50	23.80	4.70	3.70	2.40	0.00	0.00		
28	0.80	0.50	3.70	174.90	55.10	66.40	21.60	4.70	3.70	2.40	0.00	0.00		
29	2.10	0.30	3.70	160.80	103.10	61.50	20.10	4.70	3.70	2.40	0.00	0.00		
30	2.70	0.30	3.70	137.50	100.90	53.50	18.60	4.70	3.70	2.10		0.00		
31		0.00		87.40	105.40		11.30		3.70	2.10		0.00		
Total	24.70	54.00	151.30	2198.20	18253.00	16046.10	2526.60	150.00	124.70	78.00	19.30	0.00	39625.90	Ton
Mean	0.80	1.70	5.00	70.90	588.80	534.90	81.50	5.00	4.00	2.50	0.70	0.00		
Max	2.70	3.00	26.80	174.90	3674.30	1789.10	285.40	6.00	4.70	3.30	1.70	0.00	3674.30	
Min	0.00	0.00	0.00	3.70	51.90	53.50	11.30	4.00	3.70	2.10	0.00	0.00	0.00	

WATER YEAR : 2011**MUN RIVER BASIN****Lam Chi at Ban Lum Din, Surin (M.159)**

Lat 15 - 08 - 24 N Long 103 - 25 - 57 E

Location : on right bank at Ban Lum Din.

	Ban	Lum Din	Amphoe	Chom Phra	Changwat	Surin
Drainage Area	4,806	sq.km.				
Method of sampling	Depth	Integrating				
Instrument Used	US.D-49					
Period of Available Records	2008-Cont'd					
Actual Measurement	2008-Cont'd					
Using Rating Curve Water Year	2005-2011					
Number of observation	190					
R-Square	0.8360					
Remarks	Continued	Sediment Station				

$$QS = 9.4968 QW^{0.80720}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	14.60	46.20	57.00	367.30	1202.70	1299.90	141.10	23.10	5.90	0.00	
2	0.00	0.00	17.30	44.60	57.50	412.80	1213.30	1087.20	125.20	17.90	4.00	0.00	
3	0.00	0.00	18.60	42.00	57.00	434.40	1255.50	981.50	103.60	13.20	2.40	0.00	
4	0.00	0.00	19.90	39.80	63.40	459.60	1344.00	905.30	90.80	9.10	1.70	0.00	
5	0.00	0.00	21.80	35.40	64.30	461.90	1367.20	842.80	81.80	8.70	1.20	0.00	
6	0.00	0.00	22.40	32.60	58.90	445.90	1380.10	783.50	76.70	6.70	0.00	0.00	
7	0.00	0.00	24.30	30.80	60.40	417.10	1385.20	725.20	70.60	5.10	0.00	0.00	
8	0.00	0.00	26.70	29.10	55.50	390.20	1374.90	683.60	62.40	5.40	0.00	0.00	
9	0.00	0.00	30.80	27.30	48.30	373.10	1359.50	657.00	57.50	5.10	1.20	0.00	
10	0.00	0.00	37.00	26.10	47.80	455.10	1328.50	623.90	51.90	4.90	0.00	0.00	
11	0.00	0.00	38.70	23.70	44.10	466.40	1307.70	594.10	45.70	4.70	0.00	0.00	
12	0.00	0.00	39.20	22.40	41.40	628.10	1286.90	570.40	38.70	4.70	0.00	0.00	
13	0.00	0.00	39.20	23.70	35.90	749.10	1284.30	544.30	31.40	3.60	0.00	0.00	
14	0.00	0.00	39.80	26.70	48.80	817.50	1310.30	524.60	26.10	0.00	0.00	0.00	
15	0.00	0.00	39.20	32.00	51.40	851.20	1351.70	504.60	22.40	0.00	0.00	0.00	
16	0.00	0.00	42.00	35.40	53.40	859.60	1431.90	468.70	23.10	0.40	0.00	0.00	
17	0.00	0.00	46.70	38.20	52.40	849.10	1562.60	439.00	23.10	0.40	0.00	0.00	
18	0.00	0.00	50.40	38.20	54.40	838.60	1656.80	409.00	21.80	0.00	0.00	0.00	
19	0.00	0.00	54.40	37.60	58.50	830.20	1749.20	390.20	17.90	0.00	0.00	0.00	
20	0.00	0.00	58.90	37.60	177.40	802.70	1873.90	367.30	15.90	0.00	0.00	0.00	
21	0.00	0.00	61.90	37.60	255.30	759.90	1966.20	342.10	18.60	0.00	0.00	0.00	
22	0.00	0.00	66.30	46.20	279.50	725.20	2044.70	322.40	16.60	0.00	0.00	0.00	
23	0.00	0.00	68.70	52.90	267.40	742.60	2069.10	302.50	19.30	2.40	0.00	0.00	
24	0.00	0.00	67.20	56.00	257.00	789.90	2054.50	277.70	18.60	4.00	0.00	0.00	
25	0.00	0.00	65.30	58.50	243.00	870.00	2034.90	253.50	18.60	26.10	0.00	0.00	
26	0.00	0.00	57.00	60.90	216.80	907.50	1916.70	235.90	18.60	23.10	0.00	0.00	
27	0.00	1.90	54.90	64.80	203.70	931.50	1850.40	213.90	17.90	21.80	0.00	0.00	
28	0.00	4.50	53.40	56.50	212.50	1035.80	1771.60	196.60	21.20	20.50	0.00	0.00	
29	0.00	8.70	49.90	59.40	226.90	1126.10	1686.70	177.40	21.20	18.60	0.00	0.00	
30	0.00	11.70	47.30	60.40	265.70	1184.50	1556.70	158.90	15.90	13.90		0.00	
31		13.20		61.90	304.50		1410.80		32.00	9.10		0.00	
Total	0.00	40.00	1273.80	1284.50	3920.10	20982.90	48388.50	15883.00	1346.20	252.50	16.40	0.00	93387.90
Mean	0.00	1.30	42.50	41.40	126.50	699.40	1560.90	529.40	43.40	8.10	0.60	0.00	
Max	0.00	13.20	68.70	64.80	304.50	1184.50	2069.10	1299.90	141.10	26.10	5.90	0.00	2069.10
Min	0.00	0.00	14.60	22.40	35.90	367.30	1202.70	158.90	15.90	0.00	0.00	0.00	0.00

WATER YEAR : 2011**MUN RIVER BASIN****Lam Ta Khong at Mueang, Nakhon Ratchasima (M.164)**

Lat 14 - 58 - 57 N Long 102 - 05 - 52 E

Location : on right bank at the bridge on highway.

	Ban -	Amphoe Mueang	Changwat Nakhon Ratchasima
Drainage Area	3,012 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2008-Cont'd		
Actual Measurement	2008-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	32		
R-Square	0.9345		
Remarks	Continued Sediment Station		

$$QS = 3.7072 QW^{1.22420}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.30	23.40	33.90	0.10	33.90	69.80	136.30	20.90	1.10	46.20	4.40	9.70	
2	4.40	11.40	59.50	4.40	49.50	66.30	140.70	20.90	2.10	87.70	5.10	13.60	
3	5.10	33.90	18.40	2.10	52.80	59.50	195.40	18.40	4.40	95.00	5.10	7.40	
4	8.10	49.50	7.40	5.80	31.20	62.90	176.80	13.60	4.40	66.30	5.80	16.00	
5	11.40	23.40	33.90	10.60	5.80	43.00	149.60	9.70	3.70	62.90	5.80	20.90	
6	69.80	33.90	46.20	8.90	7.40	13.60	163.10	8.90	3.30	66.30	5.80	31.20	
7	49.50	20.90	8.10	0.10	18.40	7.40	195.40	8.90	2.90	66.30	10.60	10.60	
8	28.60	8.90	20.90	0.00	3.70	7.40	195.40	7.40	2.90	49.50	5.10	20.90	
9	20.90	5.80	18.40	3.70	0.20	8.10	195.40	23.40	2.50	33.90	13.60	20.90	
10	20.90	16.00	10.60	13.60	16.00	49.50	211.00	49.50	0.20	18.40	20.90	31.20	
11	20.90	13.60	5.10	49.50	59.50	253.60	221.50	69.80	0.00	31.20	8.10	91.30	
12	13.60	8.90	2.90	31.20	33.90	280.90	264.40	69.80	0.00	31.20	8.90	59.50	
13	7.40	5.10	0.50	49.50	28.60	253.60	297.50	46.20	0.00	33.90	8.90	52.80	
14	7.40	8.90	7.40	62.90	49.50	232.10	280.90	28.60	0.00	36.70	8.90	49.50	
15	6.60	3.70	11.40	69.80	56.10	211.00	216.20	18.40	9.70	56.10	8.90	49.50	
16	7.40	9.70	7.40	56.10	69.80	216.20	221.50	13.60	7.40	62.90	9.70	28.60	
17	10.60	25.90	2.10	52.80	98.70	211.00	195.40	13.60	3.70	52.80	28.60	23.40	
18	11.40	16.00	1.80	36.70	102.50	158.60	216.20	9.70	3.70	52.80	6.60	9.70	
19	39.80	5.80	1.80	28.60	69.80	98.70	232.10	20.90	7.40	66.30	25.90	8.10	
20	52.80	13.60	1.80	36.70	49.50	73.30	253.60	59.50	7.40	123.20	20.90	8.10	
21	11.40	13.60	1.80	28.60	33.90	59.50	248.20	33.90	5.80	211.00	10.60	2.10	
22	6.60	5.10	3.70	23.40	18.40	56.10	216.20	6.60	5.80	172.20	16.00	3.30	
23	6.60	5.10	10.60	36.70	33.90	59.50	158.60	6.60	6.60	114.70	25.90	4.40	
24	6.60	6.60	10.60	98.70	6.60	76.90	56.10	13.60	13.60	33.90	20.90	3.70	
25	7.40	23.40	11.40	80.40	36.70	76.90	52.80	13.60	10.60	16.00	16.00	3.70	
26	7.40	52.80	9.70	66.30	4.40	73.30	4.40	10.60	9.70	9.70	18.40	3.30	
27	8.10	49.50	6.60	87.70	8.10	91.30	23.40	11.40	9.70	7.40	23.40	3.30	
28	3.70	43.00	23.40	84.00	69.80	102.50	28.60	16.00	9.70	7.40	5.10	2.90	
29	5.10	33.90	23.40	73.30	110.40	110.40	36.70	6.60	9.70	8.10	5.10	2.90	
30	13.60	56.10	25.90	49.50	98.70	127.60	25.90	3.70	10.60	6.60		3.70	
31		52.80		10.60	80.40		16.00		16.00	5.10		9.70	
Total	476.40	680.20	426.60	1162.30	1338.10	3210.50	5025.30	654.30	174.60	1731.70	359.00	605.90	15844.90
Mean	15.90	21.90	14.20	37.50	43.20	107.00	162.10	21.80	5.60	55.90	12.40	19.50	
Max	69.80	56.10	59.50	98.70	110.40	280.90	297.50	69.80	16.00	211.00	28.60	91.30	297.50
Min	3.30	3.70	0.50	0.00	0.20	7.40	4.40	3.70	0.00	5.10	4.40	2.10	0.00

WATER YEAR : 2011**MUN RIVER BASIN****Lam Dom Yai at Ban Kham Samran, Ubon Ratchathani (M.170)**

Lat 14 - 47 - 19 N Long 105 - 06 - 10 E

Location : on right bank at the bridge.

	Ban	Kham Samran	Amphoe	Det Udom	Changwat	Ubon Ratchathani
Drainage Area	1,745	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2002-Cont'd					
Actual Measurement	2002-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	25					
R-Square	0.7375					
Remarks	Continued Sediment Station					

$$QS = 14.8300 QW^{0.76210}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.20	10.80	198.10	185.40	256.00	472.90	705.40	289.00	72.30	18.70	11.50	8.20	
2	6.20	12.30	149.60	226.40	315.20	533.00	591.30	260.60	62.10	17.90	11.10	8.20	
3	5.90	11.30	134.20	214.20	324.50	590.00	545.60	239.60	54.40	17.00	10.80	8.50	
4	5.90	23.60	122.70	185.40	264.10	618.30	717.20	217.90	46.30	16.60	10.60	8.70	
5	5.90	18.70	101.60	163.10	244.30	619.70	767.80	198.10	42.70	16.20	10.30	8.50	
6	6.20	16.60	81.80	131.40	216.70	594.10	776.00	177.60	40.20	15.70	10.30	8.50	
7	6.20	16.20	80.50	109.30	220.40	587.30	750.90	165.80	38.50	15.70	10.00	8.50	
8	5.90	13.00	113.80	93.80	281.70	670.80	644.60	160.40	37.70	16.20	11.10	9.00	
9	5.90	12.00	164.40	84.40	299.80	830.60	528.00	155.00	39.40	15.70	11.10	10.00	
10	5.90	11.10	208.10	77.80	311.60	988.30	520.40	150.90	37.70	15.70	10.80	11.10	
11	5.90	10.30	220.40	71.00	343.00	1270.20	574.00	145.40	34.30	15.30	10.80	11.80	
12	5.60	9.30	267.50	68.20	397.40	1273.60	577.70	137.00	31.60	15.30	10.60	12.30	
13	5.60	8.50	317.50	81.80	382.80	1202.60	584.50	132.80	28.00	14.40	10.60	12.00	
14	5.60	9.30	285.30	186.70	349.90	1145.40	545.60	122.70	26.10	13.90	10.00	11.80	
15	5.60	9.00	231.20	273.20	357.80	1104.40	607.60	113.80	28.90	12.50	9.50	11.50	
16	5.60	17.90	201.80	346.40	324.50	1080.80	737.20	106.30	30.70	12.30	9.30	11.10	
17	5.60	27.00	172.40	358.90	312.80	1045.10	771.10	101.60	30.70	13.50	9.30	10.30	
18	6.20	127.00	132.80	309.30	364.50	999.20	755.50	93.80	34.30	13.50	9.80	9.50	
19	6.50	116.80	204.30	246.60	517.90	938.80	749.40	88.40	33.40	13.50	9.80	9.30	
20	6.20	175.00	311.60	199.30	640.30	861.40	737.20	84.40	28.00	13.50	10.30	12.50	
21	5.60	98.50	356.70	199.30	658.80	784.20	749.40	81.80	26.10	12.30	9.80	13.50	
22	5.60	62.10	409.50	180.20	658.80	792.40	712.80	77.80	23.60	12.00	9.50	14.40	
23	6.50	39.40	386.40	168.40	637.40	981.90	579.10	73.70	20.40	12.00	9.50	13.00	
24	6.20	24.40	326.90	189.20	560.50	1292.10	471.60	68.20	22.80	14.80	9.30	12.00	
25	5.90	24.40	252.50	193.00	488.50	1270.20	404.70	64.30	22.00	25.20	9.30	10.80	
26	5.90	34.30	195.60	266.40	503.90	1161.40	361.20	61.00	22.80	18.70	8.70	10.30	
27	5.60	115.30	153.70	265.20	511.60	1087.90	335.00	57.70	22.00	15.30	8.20	9.80	
28	6.20	160.40	137.00	275.60	541.80	1004.10	395.00	55.50	22.00	13.00	7.90	9.30	
29	7.70	125.60	132.80	354.40	579.10	945.30	403.50	53.20	20.40	12.50	7.90	9.00	
30	9.80	103.20	152.30	312.80	545.60	857.50	375.40	50.90	19.60	13.90		8.50	
31		135.60		246.60	491.10		321.00		19.60	13.50		9.50	
Total	183.60	1578.90	6203.00	6263.70	12902.30	27603.50	18295.70	3785.20	1018.60	466.30	287.70	321.40	78909.90
Mean	6.10	50.90	206.80	202.10	416.20	920.10	590.20	126.20	32.90	15.00	9.90	10.40	
Max	9.80	175.00	409.50	358.90	658.80	1292.10	776.00	289.00	72.30	25.20	11.50	14.40	1292.10
Min	5.60	8.50	80.50	68.20	216.70	472.90	321.00	50.90	19.60	12.00	7.90	8.20	5.60

WATER YEAR : 2011**MUN RIVER BASIN****Lam Phra Phloeng at Ban Non Sao - E, Nakhon Ratchasima (M.171)**

Lat 14 - 29 - 58 N Long 101 - 46 - 22 E

Location : on right bank at Ban Non Sao - E.

	Ban Non Sao - E	Amphoe Wang Nam Khieo	Changwat Nakhon Ratchasima
Drainage Area	553 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2001-Cont'd		
Actual Measurement	2001-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	20		
R-Square	0.8344		
Remarks	Continued Sediment Station		

$$QS = 22.9990 QW^{1.25250}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.30	72.50	106.50	122.40	980.10	114.40	421.70	91.10	14.70	0.00	0.00	0.00	
2	5.10	48.00	54.80	91.10	931.20	79.80	380.70	76.10	6.20	0.00	0.00	0.00	
3	3.10	31.90	48.00	65.30	2676.10	58.20	474.10	83.50	5.10	0.00	0.00	0.00	
4	8.50	28.90	48.00	87.30	1079.20	106.50	764.40	79.80	5.10	0.00	0.00	0.00	
5	23.00	25.90	44.70	155.50	370.60	58.20	432.10	72.50	5.10	0.00	0.00	0.00	
6	31.90	44.70	41.40	118.40	181.30	48.00	2676.10	65.30	5.10	0.00	0.00	0.00	
7	31.90	31.90	35.10	44.70	126.50	41.40	882.90	65.30	7.30	0.00	0.00	0.00	
8	23.00	18.80	48.00	38.20	91.10	38.20	432.10	76.10	7.30	0.00	0.00	0.00	
9	31.90	17.40	31.90	44.70	76.10	54.80	432.10	76.10	5.10	0.00	0.00	0.00	
10	17.40	38.20	31.90	31.90	65.30	3337.40	5251.50	98.70	5.10	0.00	0.00	0.00	
11	13.40	44.70	31.90	31.90	61.70	11980.90	4338.90	83.50	5.10	0.00	0.00	0.00	
12	9.70	51.40	25.90	25.90	54.80	5668.00	1933.10	76.10	5.10	0.00	0.00	48.00	
13	12.10	72.50	18.80	25.90	54.80	3251.20	2616.10	54.80	4.10	0.00	0.00	23.00	
14	130.60	172.70	18.80	25.90	87.30	1890.90	2089.10	51.40	3.10	0.00	0.00	20.20	
15	87.30	164.00	18.80	25.90	235.20	882.90	1328.60	51.40	2.10	0.00	0.00	14.70	
16	31.90	83.50	17.40	25.90	432.10	463.50	1296.10	48.00	0.50	0.00	0.00	12.10	
17	23.00	48.00	17.40	23.00	442.50	360.50	3103.40	44.70	0.50	0.00	0.00	7.30	
18	13.40	54.80	16.00	23.00	320.80	432.10	2146.50	44.70	0.50	0.00	0.00	6.20	
19	18.80	35.10	14.70	23.00	226.00	401.10	718.00	41.40	0.50	0.00	0.00	4.10	
20	61.70	23.00	38.20	48.00	244.40	330.70	474.10	38.20	0.50	0.00	0.00	1.30	
21	54.80	23.00	25.90	68.90	226.00	291.70	380.70	31.90	0.50	0.00	0.00	0.00	
22	65.30	23.00	18.80	61.70	147.10	301.30	301.30	28.90	0.50	0.00	0.00	0.00	
23	35.10	23.00	18.80	61.70	106.50	390.80	263.10	23.00	0.00	0.00	0.00	0.00	
24	65.30	18.80	18.80	54.80	83.50	787.80	207.90	21.60	0.00	0.00	0.00	0.00	
25	35.10	20.20	16.00	68.90	126.50	882.90	190.10	18.80	0.00	28.90	0.00	0.00	
26	61.70	68.90	14.70	263.10	87.30	495.40	172.70	17.40	0.00	41.40	0.00	0.00	
27	65.30	226.00	2497.00	263.10	76.10	2980.00	126.50	17.40	0.00	14.70	0.00	0.00	
28	72.50	147.10	4338.90	199.00	58.20	2146.50	122.40	16.00	0.00	1.30	0.00	0.00	
29	54.80	207.90	495.40	340.50	58.20	811.40	118.40	14.70	0.00	0.00	0.00	0.00	
30	98.70	114.40	235.20	130.60	94.90	463.50	114.40	14.70	0.00	0.00		0.00	
31		91.10		199.00	118.40		106.50		0.00	1.30		0.00	
Total	1193.60	2071.30	8387.70	2789.20	9919.80	39150.00	34295.60	1523.10	89.10	87.60	0.00	136.90	99643.90
Mean	39.80	66.80	279.60	90.00	320.00	1305.00	1106.30	50.80	2.90	2.80	0.00	4.40	
Max	130.60	226.00	4338.90	340.50	2676.10	11980.90	5251.50	98.70	14.70	41.40	0.00	48.00	11980.90
Min	3.10	17.40	14.70	23.00	54.80	38.20	106.50	14.70	0.00	0.00	0.00	0.00	0.00

WATER YEAR : 2011**MUN RIVER BASIN****Huai Khayung at Ban Non Si Khlai, Si Sa Ket (M.176)**

Lat 15 - 00 - 18 N Long 104 - 38 - 14 E

Location : on left bank at Ban Non Si Khlai.

	Ban Non Si Khlai	Amphoe Kanthararom	Changwat Si Sa Ket
Drainage Area	3,131 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2002-Cont'd		
Actual Measurement	2002-Cont'd		
Using Rating Curve Water Year	2002-2011		
Number of observation	280		
R-Square	0.8391		
Remarks	Continued Sediment Station		

$$QS = 6.6601 QW^{0.97410}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.10	37.80	196.00	70.40	129.90	620.50	1142.90	998.60	134.70	13.10	18.00	10.80	
2	10.50	35.00	141.80	132.30	129.90	679.10	1081.30	956.00	99.60	14.40	13.10	10.50	
3	8.60	39.10	127.50	105.10	153.80	736.00	1061.60	888.30	79.10	18.00	11.20	10.50	
4	6.70	37.80	110.60	95.70	175.10	787.80	1088.50	841.20	55.40	18.90	10.20	10.50	
5	5.70	37.10	98.80	86.20	179.30	806.70	1121.20	813.00	38.50	18.00	9.60	10.20	
6	6.70	35.00	89.40	74.40	162.10	809.80	1128.40	775.30	29.40	18.00	8.60	10.20	
7	7.60	31.10	111.80	58.80	134.70	860.00	1099.40	747.00	25.00	17.50	8.00	9.90	
8	5.40	30.70	96.50	43.90	230.70	927.00	1024.10	725.80	21.90	14.90	8.00	10.20	
9	4.00	30.30	87.80	33.70	351.20	993.50	993.50	702.50	19.70	13.50	8.00	8.00	
10	3.70	25.50	98.80	27.60	443.90	1094.00	903.10	679.10	17.50	12.80	7.30	2.70	
11	3.40	20.20	140.60	27.60	512.00	1208.70	908.20	651.30	14.90	12.10	7.00	3.40	
12	1.70	16.60	166.90	21.90	516.30	1443.20	966.20	626.30	13.50	11.20	6.70	4.40	
13	2.70	14.90	134.70	35.70	472.30	2202.20	1054.80	592.60	13.10	10.50	5.70	4.00	
14	3.70	11.80	145.40	64.80	431.10	2604.90	1083.10	575.60	12.10	9.60	5.00	6.00	
15	5.40	14.00	200.20	105.90	396.90	2548.50	1115.70	550.10	11.50	8.30	4.40	8.60	
16	4.00	16.20	189.10	157.40	391.20	2534.30	1240.30	527.60	10.50	7.30	4.00	10.80	
17	6.70	24.10	170.90	176.50	466.60	2381.10	1404.90	493.50	9.90	6.70	3.70	11.80	
18	9.60	34.60	114.20	170.90	469.40	2153.30	1678.80	476.60	10.20	7.00	4.70	12.40	
19	22.40	51.30	97.20	138.20	545.90	1822.10	2381.10	448.10	9.90	7.00	6.70	13.10	
20	28.50	46.60	105.90	94.10	585.50	1461.10	3548.50	424.00	9.90	6.70	6.30	16.20	
21	26.30	47.30	141.80	79.10	643.90	1246.00	3736.20	399.80	10.20	8.30	6.30	17.10	
22	22.40	42.50	179.30	76.00	684.90	1155.60	3443.10	371.20	10.20	10.20	6.30	16.60	
23	17.50	36.40	191.80	73.60	699.50	1208.70	3155.90	351.20	10.80	10.20	6.30	12.40	
24	12.80	36.40	182.10	68.20	668.80	1234.70	2872.80	322.60	10.50	9.60	6.00	10.50	
25	9.90	70.40	157.40	64.20	605.80	1243.20	2604.90	297.20	10.20	9.20	6.30	9.20	
26	8.60	194.60	107.40	70.40	545.90	1248.80	2283.90	275.00	9.90	8.30	7.30	8.30	
27	8.30	293.00	81.50	88.60	578.50	1254.40	1705.70	241.80	9.60	7.30	9.20	9.20	
28	10.80	259.90	68.20	120.30	597.00	1277.00	1365.50	212.70	9.20	8.00	11.20	11.80	
29	17.50	225.20	50.70	159.70	629.30	1262.90	1234.70	190.40	8.90	9.60	11.80	12.40	
30	30.30	172.30	50.70	205.70	643.90	1206.40	1151.90	170.90	12.40	8.60		10.20	
31		186.20		158.60	611.70		1051.40		14.00	8.30		5.70	
Total	324.50	2153.90	3835.00	2885.50	13787.00	41011.50	50631.60	16325.30	752.20	343.10	226.90	307.60	132584.10
Mean	10.80	69.50	127.80	93.10	444.70	1367.00	1633.30	544.20	24.30	11.10	7.80	9.90	
Max	30.30	293.00	200.20	205.70	699.50	2604.90	3736.20	998.60	134.70	18.90	18.00	17.10	3736.20
Min	1.70	11.80	50.70	21.90	129.90	620.50	903.10	170.90	8.90	6.70	3.70	2.70	1.70

WATER YEAR : 2011**MUN RIVER BASIN****Huai Hin Lap at Ban Hin Lap, Nakhon Ratchasima (M.183)**

Lat 14 - 43 - 26 N Long 101 - 34 - 19 E

Location : on left bank at the bridge on highway.

	Ban Hin Lap	Amphoe Pak Chong	Changwat Nakhon Ratchasima
Drainage Area	250 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2008-Cont'd		
Actual Measurement	2008-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	18		
R-Square	0.8047		
Remarks	Continued Sediment Station		

$$QS = 15.1610 QW^{1.46650}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.50	23.50	41.90	4.00	17.20	23.50	41.90	4.90	0.20	0.40	0.50	0.20		
2	0.50	26.90	72.20	4.00	38.00	23.50	95.20	9.00	0.20	0.40	0.50	0.20		
3	1.60	95.20	51.40	4.00	11.50	9.00	160.60	9.00	0.20	0.40	0.50	0.20		
4	4.00	20.30	133.20	4.00	6.80	51.40	652.10	9.00	0.20	0.40	0.50	0.30		
5	4.00	61.60	146.70	4.00	4.90	30.50	220.20	9.00	0.20	0.40	0.40	3.10		
6	23.50	23.50	38.00	4.00	3.10	9.00	896.40	9.00	0.20	0.40	0.40	0.20		
7	23.50	23.50	26.90	4.00	0.50	6.80	146.70	9.00	0.20	0.30	0.40	0.20		
8	9.00	30.50	23.50	4.00	0.50	4.00	107.40	9.00	0.20	4.00	0.40	0.40		
9	9.00	23.50	9.00	4.00	0.50	4.90	95.20	9.00	0.20	0.50	0.40	0.40		
10	3.10	20.30	6.80	0.50	0.50	1226.60	95.20	9.00	0.20	0.30	0.40	0.40		
11	2.30	5.80	4.00	0.50	0.50	4952.10	263.10	9.00	0.20	0.20	0.40	0.50		
12	0.50	4.00	4.00	0.50	0.50	652.10	95.20	9.00	0.20	0.20	0.40	23.50		
13	0.50	4.90	4.00	83.50	0.50	220.20	133.20	9.00	0.20	0.20	0.40	14.30		
14	0.50	41.90	4.00	9.00	0.50	160.60	107.40	9.00	0.20	0.20	0.40	1.60		
15	9.00	220.20	7.90	5.80	0.50	133.20	95.20	7.90	0.20	0.20	0.40	14.30		
16	9.00	220.20	6.80	0.50	160.60	41.90	199.70	6.80	0.20	0.20	0.40	2.30		
17	5.80	23.50	6.80	0.50	26.90	38.00	510.40	6.80	0.20	0.20	0.40	0.50		
18	4.00	331.80	6.80	0.50	9.00	9.00	220.20	6.80	0.20	0.20	0.40	2.30		
19	3.10	61.60	5.80	0.50	17.20	17.20	120.10	6.80	0.20	0.20	0.20	30.50		
20	2.30	23.50	5.80	4.00	9.00	17.20	72.20	6.80	0.20	0.50	0.20	17.20		
21	456.90	20.30	4.00	4.00	4.00	23.50	41.90	6.80	0.20	0.50	0.20	9.00		
22	263.10	5.80	4.00	4.00	0.50	17.20	26.90	6.80	0.40	0.50	0.20	6.80		
23	30.50	4.00	4.00	4.00	0.50	23.50	23.50	6.80	0.40	0.50	0.20	0.50		
24	308.30	6.80	4.00	4.00	0.50	241.30	14.30	6.80	0.40	0.40	0.20	0.50		
25	34.20	14.30	4.00	4.00	6.80	61.60	14.30	6.80	0.40	0.50	0.20	0.50		
26	61.60	61.60	4.00	4.00	120.10	26.90	6.80	6.80	0.40	6.80	0.20	0.50		
27	380.30	83.50	4.00	4.00	23.50	2816.00	6.80	6.80	0.40	5.80	0.40	0.40		
28	61.60	133.20	4.00	4.00	14.30	1137.70	6.80	6.80	0.40	0.50	0.40	0.40		
29	34.20	896.40	4.00	4.00	14.30	220.20	9.00	5.80	0.40	0.50	0.40	0.40		
30	23.50	199.70	4.00	4.00	72.20	456.90	9.00	0.30	0.40	0.50		0.40		
31		17.20		4.00	23.50		6.80		0.40	0.50		0.40		
Total	1769.90	2729.00	645.50	185.80	588.90	12655.50	4493.70	224.30	8.20	26.80	10.40	132.40	23470.40	Ton
Mean	59.00	88.00	21.50	6.00	19.00	421.90	145.00	7.50	0.30	0.90	0.40	4.30		
Max	456.90	896.40	146.70	83.50	160.60	4952.10	896.40	9.00	0.40	6.80	0.50	30.50	4952.10	
Min	0.50	4.00	4.00	0.50	0.50	4.00	6.80	0.30	0.20	0.20	0.20	0.20	0.20	

WATER YEAR : 2011**MUN RIVER BASIN****Mun River at Ban Cum, Nakhon Ratchasima (M.184)**

Lat 15 - 13 - 12 N Long 102 - 25 - 41 E

Location : on right at the bridge on highway.

	Ban Cum	Amphoe Phimai	Changwat Nakhon Ratchasima
Drainage Area	11,489 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2008-Cont'd		
Actual Measurement	2008-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	23		
R-Square	0.8012		
Remarks	Continued Sediment Station		

$$QS = 3.4223 QW^{1.02800}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.10	34.60	81.30	0.00	95.20	233.40	528.40	590.70	38.40	3.40	67.60	30.90	
2	16.10	30.90	88.20	0.00	120.70	242.90	524.00	577.30	45.90	4.50	60.70	32.80	
3	17.90	25.30	97.50	0.00	151.00	250.00	537.30	564.00	38.40	4.50	30.90	34.60	
4	17.90	25.30	123.00	0.00	162.70	252.40	541.70	550.60	32.80	4.50	16.10	34.60	
5	16.10	29.00	144.00	0.00	172.10	252.40	537.30	532.90	32.80	5.90	30.90	32.80	
6	17.90	34.60	167.40	0.00	186.20	252.40	555.10	519.50	36.50	5.90	29.00	32.80	
7	27.20	47.80	181.50	1.00	202.70	245.30	550.60	498.60	23.40	5.20	23.40	36.50	
8	34.60	76.70	190.90	0.00	205.10	235.80	550.60	485.70	14.20	5.20	13.50	38.40	
9	40.30	95.20	193.30	0.00	219.20	224.00	550.60	469.60	12.80	5.20	10.60	36.50	
10	47.80	99.80	186.20	0.00	219.20	233.40	550.60	453.50	12.80	4.80	6.30	42.10	
11	53.90	92.90	169.80	0.00	212.20	280.90	559.50	437.40	12.80	4.50	6.30	49.70	
12	53.90	83.60	139.30	0.00	198.00	328.60	564.00	421.40	12.00	3.40	6.30	69.80	
13	49.70	60.70	104.40	0.00	172.10	355.00	568.40	408.60	12.00	4.10	7.00	90.50	
14	44.00	47.80	63.00	0.00	137.00	376.50	568.40	398.10	11.30	4.10	6.60	102.10	
15	36.50	49.70	30.90	6.30	113.70	393.30	590.70	388.50	12.00	5.20	4.80	113.70	
16	29.00	56.10	21.60	23.40	104.40	415.00	612.90	381.30	11.30	7.70	3.80	125.30	
17	21.60	49.70	12.00	32.80	109.10	440.60	617.40	371.70	7.70	16.10	4.50	120.70	
18	16.10	51.60	6.60	32.80	111.40	459.90	617.40	362.10	7.00	25.30	5.50	111.40	
19	12.80	51.60	5.50	25.30	130.00	476.00	617.40	350.20	8.40	29.00	8.40	102.10	
20	10.60	56.10	5.90	17.90	155.70	498.60	617.40	335.80	9.10	44.00	9.90	90.50	
21	10.60	65.30	4.50	12.80	169.80	532.90	612.90	314.30	9.10	60.70	10.60	72.10	
22	11.30	69.80	4.50	13.50	181.50	555.10	608.50	283.30	9.10	88.20	12.00	56.10	
23	12.80	65.30	3.10	12.00	186.20	564.00	608.50	245.30	6.60	116.00	12.80	23.40	
24	16.10	53.90	0.00	12.80	179.20	564.00	599.60	193.30	6.30	139.30	17.90	14.20	
25	23.40	44.00	0.00	34.60	169.80	559.50	599.60	139.30	5.20	146.30	19.70	29.00	
26	42.10	53.90	0.00	49.70	167.40	550.60	599.60	113.70	5.90	125.30	19.70	30.90	
27	60.70	67.60	0.00	49.70	162.70	546.20	604.00	97.50	5.90	95.20	23.40	27.20	
28	69.80	76.70	0.00	49.70	160.40	546.20	612.90	85.90	6.30	81.30	27.20	25.30	
29	65.30	72.10	0.00	58.40	169.80	537.30	617.40	74.40	6.30	88.20	29.00	23.40	
30	44.00	72.10	0.00	67.60	186.20	528.40	612.90	40.30	5.20	90.50		19.70	
31		79.00		81.30	209.80		604.00		4.10	81.30		16.10	
Total	936.10	1818.70	2024.40	581.60	5120.50	11930.60	18039.60	10684.80	461.60	1304.80	524.40	1665.20	55092.30
Mean	31.20	58.70	67.50	18.80	165.20	397.70	581.90	356.20	14.90	42.10	18.10	53.70	
Max	69.80	99.80	193.30	81.30	219.20	564.00	617.40	590.70	45.90	146.30	67.60	125.30	617.40
Min	10.60	25.30	0.00	0.00	95.20	224.00	524.00	40.30	4.10	3.40	3.80	14.20	0.00

WATER YEAR : 2011**MUN RIVER BASIN****Lam Plai Mat at Ban Phai Noi, Nakhon Ratchasima (M.185)**

Lat 14 - 59 - 57 N Long 102 - 49 - 02 E

Location : on right at the bridge on highway.

	Ban Phai Noi	Amphoe Lam Plai Mat	Changwat Nakhon Ratchasima
Drainage Area	4,880 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2010-Cont'd		
Actual Measurement	2010-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	25		
R-Square	0.9234		
Remarks	Continued Sediment Station		

$$QS = 5.8192 QW^{0.84190}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	441.40	66.30	28.90	47.80	610.60	569.80	49.10	13.80	0.00	0.00		
2	0.00	0.00	405.50	63.80	31.70	46.30	573.50	536.10	46.80	13.80	0.00	0.00		
3	0.00	0.00	402.40	53.70	31.70	43.80	558.60	502.60	44.50	13.80	0.00	0.00		
4	0.00	0.00	377.50	53.70	31.00	43.80	532.30	483.40	42.10	13.80	0.00	0.00		
5	0.00	0.00	408.60	51.40	31.00	312.40	543.60	434.90	42.10	13.80	0.00	0.00		
6	0.00	0.00	377.50	61.30	29.20	327.40	573.50	393.10	39.80	13.80	0.00	0.00		
7	0.00	0.00	377.50	66.30	27.40	345.20	614.20	359.90	37.30	13.80	0.00	0.00		
8	0.00	0.00	377.50	66.30	24.40	357.00	647.20	327.40	34.90	8.60	0.00	0.00		
9	0.00	0.00	377.50	68.80	21.80	434.90	676.20	297.20	34.90	5.80	0.00	0.00		
10	0.00	0.00	342.20	78.50	20.60	451.10	698.60	266.50	34.90	5.30	0.00	0.00		
11	0.00	0.00	318.40	78.50	20.60	451.10	722.40	235.10	29.90	4.80	0.00	0.00		
12	0.00	0.00	315.40	76.10	20.30	470.50	763.40	215.80	29.90	4.80	0.00	0.00		
13	0.00	0.00	312.40	78.50	19.90	460.90	821.00	189.70	27.80	4.30	0.00	0.00		
14	0.00	0.00	303.30	78.50	18.30	438.10	874.10	176.30	25.60	3.20	0.00	0.00		
15	0.00	0.00	300.20	36.30	16.70	425.00	954.70	159.40	23.30	2.70	0.00	0.00		
16	0.00	0.00	297.20	51.20	16.30	408.60	1029.30	154.10	21.00	2.70	0.00	0.00		
17	0.00	0.00	275.80	48.80	16.30	408.60	1020.00	146.10	18.70	2.70	0.00	0.00		
18	0.00	0.00	250.90	46.30	15.90	396.20	959.40	129.90	18.70	2.10	0.00	0.00		
19	0.00	0.00	231.90	48.80	32.10	377.50	893.20	118.90	16.30	2.10	0.00	0.00		
20	0.00	0.00	225.50	51.20	42.80	386.80	842.30	113.30	16.30	1.50	0.00	0.00		
21	0.00	0.00	219.00	52.70	42.80	434.90	808.50	107.70	13.80	1.50	0.00	0.00		
22	0.00	0.00	209.30	53.70	39.40	467.30	779.80	99.70	13.80	1.50	0.00	0.00		
23	0.00	0.00	189.70	54.60	36.00	480.20	763.40	89.20	13.80	1.50	0.00	0.00		
24	0.00	0.00	166.20	56.10	30.70	509.50	751.00	78.50	13.80	0.80	0.00	0.00		
25	0.00	0.00	148.80	59.00	37.00	536.10	751.00	73.70	13.80	0.00	0.00	0.00		
26	0.00	0.00	129.90	71.60	56.10	547.40	751.00	63.80	13.80	0.00	0.00	0.00		
27	0.00	342.20	118.90	66.50	57.00	558.60	751.00	58.80	13.80	0.00	0.00	0.00		
28	0.00	473.80	104.80	58.50	54.60	569.80	706.50	53.70	13.80	0.00	0.00	0.00		
29	0.00	562.40	78.50	48.80	54.20	543.60	661.70	51.40	13.80	0.00	0.00	0.00		
30	0.00	599.50	73.70	47.30	57.00	547.40	625.30	49.10	13.80	0.00		0.00		
31		509.50		31.70	51.70		595.80		13.80	0.00		0.00		
Total	0.00	2487.40	8157.40	1824.80	1013.40	11827.80	22853.10	6535.10	785.70	152.50	0.00	0.00	55637.20	Ton
Mean	0.00	80.20	271.90	58.90	32.70	394.30	737.20	217.80	25.30	4.90	0.00	0.00		
Max	0.00	599.50	441.40	78.50	57.00	569.80	1029.30	569.80	49.10	13.80	0.00	0.00	1029.30	
Min	0.00	0.00	73.70	31.70	15.90	43.80	532.30	49.10	13.80	0.00	0.00	0.00	0.00	

WATER YEAR : 2011**MUN RIVER BASIN****Huai Sanaeng at Mueang, Surin (M.187)**

Lat 14 - 51 - 26 N Long 103 - 28 - 37 E

Location : on right at the bridge on highway.

	Ban -	Amphoe Mueang	Changwat Surin
Drainage Area	614 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2008-Cont'd		
Actual Measurement	2008-Cont'd		
Using Rating Curve Water Year	2008-2011		
Number of observation	32		
R-Square	0.9052		
Remarks	Continued Sediment Station		

$$QS = 3.0553 QW^{0.95440}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.20	1.10	0.90	1.30	5.10	4.50	142.90	2.20	1.10	1.10	1.10	1.10	
2	2.20	1.10	1.10	1.30	8.40	4.80	147.30	2.00	1.30	1.10	1.10	1.10	
3	2.20	1.30	1.10	1.30	8.40	6.80	173.30	11.20	1.30	1.10	1.10	1.10	
4	2.20	1.30	1.10	1.30	5.10	6.80	178.70	28.30	1.30	1.10	1.10	1.10	
5	1.50	1.30	1.10	1.30	6.80	6.40	189.50	3.60	1.30	1.10	1.10	1.10	
6	1.50	1.50	1.10	1.30	5.10	4.20	186.30	2.20	1.30	1.10	1.10	1.10	
7	1.10	1.50	1.10	1.30	3.60	3.60	174.40	1.30	1.10	0.90	1.10	1.10	
8	1.10	2.20	1.10	1.30	3.60	3.60	154.90	1.10	1.10	0.90	1.10	1.10	
9	1.10	2.20	1.10	1.30	2.80	3.30	133.00	1.10	1.10	0.90	1.10	1.10	
10	1.10	1.10	1.10	1.30	2.80	17.00	103.30	1.10	1.10	0.90	1.10	1.10	
11	1.10	1.10	1.30	1.10	2.20	8.30	103.30	1.10	1.10	0.90	0.90	1.10	
12	1.10	1.10	1.30	1.10	2.20	8.30	21.60	0.90	1.10	0.90	0.90	1.10	
13	1.10	1.10	1.30	1.10	2.50	8.90	67.70	0.90	1.10	0.90	0.90	1.10	
14	1.10	1.10	4.20	1.10	2.20	14.70	147.30	26.60	1.10	0.90	0.90	1.10	
15	1.10	1.10	4.20	1.80	2.20	15.90	199.20	1.30	1.10	0.90	0.90	1.10	
16	1.10	1.10	2.20	1.80	2.00	15.90	213.30	1.10	1.10	0.90	1.10	1.50	
17	1.10	1.10	2.20	1.80	1.50	17.00	230.30	1.10	1.10	0.90	1.10	1.50	
18	1.50	1.10	2.20	1.30	1.50	17.00	281.00	0.90	1.10	0.90	1.10	1.50	
19	2.20	1.10	3.60	1.30	3.60	14.10	285.10	0.90	1.10	0.90	1.10	1.50	
20	1.50	1.10	5.80	1.30	8.40	14.10	249.80	0.90	1.10	0.90	1.10	1.50	
21	0.70	0.90	8.40	2.50	5.40	24.40	244.60	0.90	1.10	0.90	1.10	1.50	
22	0.70	0.90	8.40	2.50	5.10	24.40	227.60	0.90	1.10	1.30	1.10	1.50	
23	0.70	0.90	5.10	2.50	3.60	22.70	218.50	0.90	1.10	1.30	1.10	1.50	
24	0.70	0.90	3.90	4.20	3.90	22.10	196.00	1.10	1.10	1.30	1.10	1.50	
25	1.10	0.90	2.20	5.40	3.60	22.70	121.00	1.10	1.10	1.10	1.10	1.50	
26	1.10	0.90	2.00	4.80	3.60	19.90	116.60	1.10	1.10	1.10	1.10	1.50	
27	1.10	0.90	1.80	4.80	3.30	19.90	108.80	1.10	1.10	1.10	1.10	1.50	
28	1.10	0.90	1.50	3.60	3.60	114.40	103.30	1.10	0.90	1.10	1.10	1.50	
29	1.10	0.90	1.30	5.80	3.60	125.40	59.50	1.10	0.90	1.10	1.10	1.50	
30	1.10	0.90	1.30	3.60	3.60	125.40	13.40	1.10	0.90	1.10		1.50	
31		0.90		5.10	3.60		0.00		0.90	1.10		1.50	
Total	38.50	35.50	75.00	71.50	122.90	716.50	4791.50	100.20	34.30	31.70	30.90	40.50	6089.00
Mean	1.30	1.10	2.50	2.30	4.00	23.90	154.60	3.30	1.10	1.00	1.10	1.30	
Max	2.20	2.20	8.40	5.80	8.40	125.40	285.10	28.30	1.30	1.30	1.10	1.50	285.10
Min	0.70	0.90	0.90	1.10	1.50	3.30	0.00	0.90	0.90	0.90	0.90	1.10	0.00

WATER YEAR : 2011**PING RIVER BASIN****Ping River at Nawarat Bridge , Chiang Mai (P.1)**

Lat 18 - 47 - 10 N Long 99 - 00 - 27 E

Location : on left bank about 100 meters downstream from Nawarat Bridge.

	Ban	Nawarat Bridge	Amphoe	Mueang	Changwat	Chiang Mai
Drainage Area	6,350	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1993-Cont'd					
Actual Measurement	1993-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	37					
R-Square	0.8637					
Remarks	Continued Sediment Station					

$$QS = 0.6712 QW^{1.66750}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	118.40	521.10	798.00	828.10	8826.10	5409.70	17275.80	1097.30	521.10	89.40	80.50	47.70	
2	108.40	1397.60	546.60	798.00	19194.50	5240.70	14697.20	958.20	496.20	150.60	80.50	37.10	
3	118.40	2003.00	626.20	958.20	10467.90	5158.00	12770.00	858.90	496.20	150.60	80.50	19.30	
4	118.40	2391.40	1097.30	1026.80	5846.80	4594.00	12373.60	958.20	546.60	150.60	80.50	16.30	
5	128.80	1819.30	1517.60	891.50	3008.10	3631.20	11596.10	1061.80	521.10	150.60	65.50	19.30	
6	128.80	2097.50	1956.40	626.20	2242.50	7549.60	9386.50	1061.80	496.20	139.60	47.70	23.30	
7	162.00	1686.20	2145.40	546.60	2050.10	15288.90	5158.00	1319.80	447.40	139.60	47.70	16.30	
8	162.00	1133.20	1133.20	496.20	2145.40	9981.40	4283.50	958.20	400.80	139.60	47.70	16.30	
9	188.00	828.10	798.00	471.50	2341.30	6481.50	4131.60	1026.80	356.50	139.60	47.70	19.30	
10	249.10	958.20	681.60	521.10	3313.80	5582.90	3907.80	1097.30	334.90	139.60	53.40	32.30	
11	299.40	992.30	653.60	738.90	4752.40	4437.70	3313.80	858.90	334.90	139.60	217.70	162.00	
12	299.40	738.90	709.90	828.10	5935.90	3129.00	2830.40	738.90	334.90	139.60	334.90	162.00	
13	334.90	572.70	828.10	626.20	6481.50	5158.00	3008.10	681.60	317.00	139.60	334.90	188.00	
14	356.50	496.20	958.20	626.20	5409.70	8716.70	3376.30	626.20	317.00	217.70	356.50	233.20	
15	378.40	471.50	992.30	1358.40	4752.40	10838.80	2948.40	599.10	282.20	496.20	400.80	282.20	
16	299.40	546.60	828.10	1956.40	5158.00	7549.60	2544.00	626.20	233.20	249.10	233.20	188.00	
17	233.20	828.10	709.90	2544.00	4056.40	5075.80	2657.10	599.10	217.70	162.00	80.50	139.60	
18	249.10	1358.40	681.60	2145.40	3696.10	4131.60	2714.40	626.20	233.20	139.60	65.50	71.90	
19	202.60	1910.30	653.60	1558.40	4594.00	4283.50	2492.70	709.90	217.70	139.60	59.30	71.90	
20	265.50	2657.10	599.10	1437.10	5323.90	6115.60	2003.00	891.50	188.00	118.40	47.70	89.40	
21	265.50	2003.00	626.20	1358.40	4752.40	4994.20	1686.20	798.00	173.80	108.40	42.30	59.30	
22	265.50	1206.50	653.60	1358.40	5758.30	6855.80	1558.40	738.90	173.80	108.40	42.30	53.40	
23	233.20	958.20	572.70	1319.80	5240.70	7243.10	1477.10	738.90	173.80	108.40	13.50	80.50	
24	496.20	768.30	546.60	1319.80	4056.40	5758.30	1358.40	738.90	173.80	108.40	13.50	65.50	
25	924.60	681.60	521.10	1956.40	3313.80	7446.90	1206.50	709.90	173.80	98.70	37.10	71.90	
26	1026.80	521.10	924.60	1956.40	6950.70	8284.60	1133.20	709.90	173.80	80.50	32.30	98.70	
27	626.20	572.70	1730.10	1477.10	16963.80	9157.60	1097.30	653.60	162.00	98.70	23.30	150.60	
28	423.90	768.30	1774.50	1061.80	13851.10	28323.10	1061.80	653.60	162.00	89.40	47.70	173.80	
29	334.90	709.90	1397.60	992.30	10223.50	46328.80	1097.30	599.10	162.00	89.40	47.70	188.00	
30	496.20	798.00	1061.80	958.20	6481.50	36378.30	1319.80	546.60	150.60	80.50		162.00	
31		1169.60		1281.60	5670.30		1558.40		150.60	89.40		108.40	
Total	9493.70	35564.90	28723.50	36023.50	192859.30	289124.90	138022.70	24243.30	9122.80	4391.40	3062.40	3047.50	773679.90
Mean	316.50	1147.30	957.40	1162.00	6221.30	9637.50	4452.30	808.10	294.30	141.70	105.60	98.30	
Max	1026.80	2657.10	2145.40	2544.00	19194.50	46328.80	17275.80	1319.80	546.60	496.20	400.80	282.20	46328.80
Min	108.40	471.50	521.10	471.50	2050.10	3129.00	1061.80	546.60	150.60	80.50	13.50	16.30	13.50

WATER YEAR : 2011**PING RIVER BASIN****Mae Taeng at Ban Mae Taeng , Chiang Mai (P.4A)**

Lat 19 - 07 - 15 N Long 98 - 56 - 53 E

Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	Ban Mae Taeng	Amphoe Mae Taeng	Changwat Chiang Mai
Drainage Area	1,930 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1992-Cont'd		
Actual Measurement	1992-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	35		
R-Square	0.9187		
Remarks	Continued Sediment Station		

$$QS = 1.4301 QW^{1.68960}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	272.30	281.70	91.90	6165.40	1293.40	5412.30	392.60	272.30	1.20	0.80	0.50	
2	0.10	1145.40	182.40	157.00	3424.30	1041.20	6505.20	360.80	254.10	1.20	0.80	0.50	
3	0.10	1022.40	272.30	157.00	3062.20	1059.80	3286.60	350.50	245.10	1.10	0.80	0.40	
4	0.10	826.60	895.80	144.80	1666.60	967.20	3018.10	436.50	245.10	1.10	0.80	0.40	
5	0.10	436.50	743.60	74.20	1243.20	1448.60	2016.70	792.90	245.10	1.00	0.80	0.40	
6	0.10	403.40	2654.00	31.70	985.60	3241.20	2311.60	618.00	230.50	1.00	0.80	0.40	
7	0.10	195.50	826.60	14.20	618.00	5973.20	1751.60	340.30	195.50	1.00	0.80	0.40	
8	0.10	195.50	340.30	3.80	502.10	2654.00	1396.10	330.20	175.80	1.00	0.80	0.30	
9	0.10	230.50	230.50	2.70	502.10	2108.40	1293.40	340.30	175.80	1.00	0.80	0.30	
10	0.10	320.30	216.30	78.50	516.10	1638.70	1243.20	381.90	175.80	1.00	0.70	0.30	
11	0.10	272.30	237.70	23.90	949.30	1059.80	967.20	291.10	175.80	1.00	0.70	0.40	
12	0.10	202.40	360.80	106.20	1556.10	2423.60	760.10	263.10	175.80	1.10	0.70	0.50	
13	0.10	209.20	792.90	18.70	2423.60	2654.00	695.50	245.10	175.80	1.50	0.70	0.50	
14	0.10	188.90	436.50	4.60	1723.10	6715.60	695.50	245.10	175.80	18.70	0.70	0.60	
15	0.10	188.90	263.10	150.80	1169.50	4004.00	603.10	272.30	175.80	22.10	0.70	0.60	
16	0.10	371.30	163.10	633.00	1556.10	2537.70	985.60	291.10	175.80	2.30	0.70	0.60	
17	0.00	1145.40	96.60	679.60	1396.10	2016.70	985.60	281.70	144.80	1.50	0.60	0.60	
18	0.00	985.60	40.20	381.90	3378.10	2499.40	949.30	371.30	87.30	1.20	0.60	0.60	
19	0.10	1638.70	36.90	182.40	4765.10	2170.50	878.50	371.30	78.50	1.20	0.60	0.60	
20	175.80	2238.20	82.80	138.80	2274.80	2386.00	743.60	371.30	70.00	1.10	0.60	0.60	
21	132.90	1556.10	447.80	195.50	2139.40	2108.40	743.60	350.50	65.90	1.00	0.70	0.10	
22	111.10	633.00	202.40	182.40	2386.00	3851.10	711.30	320.30	50.60	0.80	0.70	0.30	
23	223.40	281.70	50.60	169.30	1666.60	2108.40	664.10	320.30	40.20	0.70	0.70	0.30	
24	436.50	182.40	25.80	392.60	1318.70	2108.40	502.10	320.30	27.70	0.70	0.60	0.30	
25	1344.30	163.10	40.20	760.10	1097.70	2077.70	447.80	330.20	14.20	0.70	0.70	0.30	
26	711.30	188.90	150.80	381.90	2772.30	2047.10	447.80	371.30	2.70	0.70	0.70	0.30	
27	263.10	272.30	544.50	169.30	2732.60	3611.40	447.80	371.30	1.50	0.70	0.70	0.30	
28	150.80	425.40	403.40	74.20	2201.80	11821.50	447.80	360.80	1.50	0.70	0.70	0.30	
29	144.80	381.90	310.40	58.00	1926.60	14967.00	447.80	291.10	1.20	0.70	0.60	0.30	
30	163.10	461.30	195.50	65.90	1528.90	9682.30	447.80	281.70	1.20	0.70		0.30	
31		664.10		87.30	1293.40		425.40		1.20	0.70		0.30	
Total	3858.80	17699.50	11525.50	5612.20	60941.40	104276.30	42232.10	10665.20	3858.40	70.40	20.60	12.60	260773.00
Mean	128.60	571.00	384.20	181.00	1965.90	3475.90	1362.30	355.50	124.50	2.30	0.70	0.40	
Max	1344.30	2238.20	2654.00	760.10	6165.40	14967.00	6505.20	792.90	272.30	22.10	0.80	0.60	14967.00
Min	0.00	163.10	25.80	2.70	502.10	967.20	425.40	245.10	1.20	0.70	0.60	0.10	0.00

WATER YEAR : 2011**PING RIVER BASIN****Nam Mae Kuang at Tha Nang Bridge , Lamphun (P.5)**

Lat 18 - 34 - 32 N Long 99 - 00 - 44 E

Location : on right bank at the bridge of Chiang Mai from Fang Highway.

	Ban Tha Nang	Amphoe Mueang	Changwat Lamphun
Drainage Area	1,569 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1992-Cont'd		
Actual Measurement	1992-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.8941		
Remarks	Continued Sediment Station		

$$QS = 0.7568 QW^{1.46770}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	10.20	70.20	78.80	103.30	767.70	336.40	1648.50	119.70	20.60	1.30	13.90	17.50	
2	10.20	81.80	59.20	78.80	1770.20	293.90	1770.20	95.50	17.10	3.90	16.00	16.80	
3	11.00	111.40	45.10	128.10	2505.10	288.80	1792.60	91.60	16.20	2.70	16.80	18.30	
4	11.00	256.90	49.70	176.20	2838.30	274.10	1736.80	81.80	20.60	10.20	17.50	19.00	
5	5.20	176.20	293.90	132.70	2455.30	325.70	1605.00	70.20	25.60	6.40	18.30	19.90	
6	6.40	123.90	633.10	78.80	1837.70	468.30	1149.40	70.20	29.00	15.30	18.30	19.00	
7	16.20	269.80	492.60	54.40	1131.70	1307.20	619.90	61.90	25.60	9.60	16.80	16.80	
8	22.20	288.80	283.60	47.40	542.40	1594.20	403.50	61.90	18.10	7.00	13.90	15.30	
9	30.80	240.00	137.40	52.00	397.80	1906.00	299.20	59.20	17.10	8.90	13.20	14.60	
10	45.10	248.40	81.80	67.40	358.40	1637.60	269.80	73.00	19.00	3.60	13.20	14.60	
11	42.90	299.20	56.80	67.40	341.90	1061.60	223.50	73.00	17.10	20.60	13.20	13.20	
12	38.50	199.40	56.80	59.20	415.10	790.50	235.80	64.60	14.40	19.00	15.30	11.30	
13	42.90	111.40	29.00	61.90	593.70	926.00	166.20	52.00	16.20	20.60	13.90	10.80	
14	42.90	87.80	56.80	81.80	722.80	1594.20	146.80	52.00	15.30	34.50	14.60	12.50	
15	40.70	87.80	52.00	132.70	715.40	1594.20	132.70	42.90	16.20	59.20	15.30	15.30	
16	36.40	123.90	49.70	269.80	1001.60	1605.00	166.20	34.50	16.20	54.40	15.30	21.70	
17	36.40	265.40	49.70	240.00	876.60	1413.70	223.50	34.50	11.00	49.70	16.00	23.50	
18	30.80	315.00	47.40	142.10	934.30	821.20	252.60	32.70	5.20	49.70	13.90	19.00	
19	25.60	229.60	54.40	78.80	1185.10	438.50	244.20	25.60	9.60	21.70	13.90	17.50	
20	25.60	137.40	67.40	59.20	1594.20	498.80	223.50	17.10	9.60	17.50	14.60	17.50	
21	29.00	91.60	47.40	59.20	2033.30	438.50	171.20	11.90	10.20	16.80	15.30	16.00	
22	23.90	78.80	19.00	56.80	2010.00	474.40	137.40	15.30	9.60	15.30	15.30	16.00	
23	27.30	73.00	34.50	54.40	1659.50	480.40	111.40	14.40	6.40	15.30	15.30	14.60	
24	56.80	73.00	34.50	59.20	951.00	529.80	87.80	12.70	2.90	14.60	16.00	14.60	
25	75.90	64.60	75.90	67.40	462.30	708.00	70.20	22.20	2.00	13.90	16.80	16.00	
26	87.80	40.70	211.30	95.50	700.60	600.20	56.80	38.50	1.50	13.20	17.50	16.00	
27	75.90	19.00	567.90	99.40	1044.40	511.10	54.40	32.70	0.60	13.20	16.80	16.00	
28	64.60	22.20	548.80	73.00	1194.20	876.60	52.00	36.40	0.50	12.50	17.50	19.00	
29	54.40	42.90	358.40	59.20	1278.70	1345.60	56.80	34.50	0.60	11.80	16.80	16.80	
30	45.10	73.00	199.40	27.30	1010.10	1512.80	59.20	25.60	0.50	11.80		15.30	
31		75.90		54.40	567.90		70.20		1.40	13.20		16.00	
Total	1071.70	4379.00	4772.30	2817.80	35897.30	26653.30	14237.30	1458.10	375.90	567.40	451.20	510.40	93191.70
Mean	35.70	141.30	159.10	90.90	1158.00	888.40	459.30	48.60	12.10	18.30	15.60	16.50	
Max	87.80	315.00	633.10	269.80	2838.30	1906.00	1792.60	119.70	29.00	59.20	18.30	23.50	2838.30
Min	5.20	19.00	19.00	27.30	341.90	274.10	52.00	11.90	0.50	1.30	13.20	10.80	0.50

WATER YEAR : 2011**PING RIVER BASIN****Nam Mae Rim at Ban Mae Rim Tai , Chiang Mai (P.21)**

Lat 18 - 55 - 45 N Long 98 - 56 - 40 E

Location : on left bank about 100 meters downstream from the bridge of Chiang Mai - Fang Highway.

	Ban Mae Rim Tai	Amphoe Mae Rim	Changwat Chiang Mai
Drainage Area	452 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2001-Cont'd		
Actual Measurement	2001-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.9540		
Remarks	Continued Sediment Station		

$$QS = 15.8930 QW^{0.94400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.50	54.10	55.80	113.80	647.60	172.20	355.00	111.80	65.70	65.70	30.00	6.10	
2	13.50	139.70	49.10	107.80	835.70	226.30	333.00	105.80	65.70	62.40	54.10	10.00	
3	20.80	253.30	49.10	145.90	706.40	202.30	304.20	105.80	67.40	60.80	35.00	11.20	
4	21.80	284.00	80.50	147.90	299.10	156.00	244.30	113.80	70.70	64.10	21.80	11.50	
5	11.30	180.30	143.80	103.80	189.10	237.60	219.80	103.80	65.70	62.40	24.20	11.80	
6	11.30	248.70	158.10	80.50	160.10	584.10	180.30	96.30	62.40	62.40	28.80	11.20	
7	15.60	125.80	115.80	80.50	184.70	512.70	178.30	94.50	60.80	57.40	25.40	10.10	
8	14.50	98.00	82.20	67.40	180.30	286.50	178.30	99.80	55.80	54.10	24.20	11.20	
9	15.60	80.50	67.40	67.40	304.20	219.80	172.20	105.80	52.40	52.40	21.80	11.20	
10	17.70	101.80	59.10	133.80	278.90	246.50	160.10	145.90	50.70	52.40	18.70	11.20	
11	23.00	135.70	59.10	103.80	409.70	200.10	151.90	105.80	49.10	52.40	18.70	11.50	
12	15.60	80.50	72.30	111.80	271.30	208.80	145.90	91.00	36.60	49.10	17.70	12.60	
13	33.50	70.70	77.30	149.80	255.40	512.70	139.70	89.20	39.70	55.80	19.80	12.60	
14	52.40	62.40	75.60	131.80	178.30	409.70	133.80	85.70	42.90	80.50	20.80	13.20	
15	25.40	89.20	74.00	248.70	160.10	289.00	121.80	83.90	38.20	133.80	25.40	14.70	
16	17.70	80.50	89.20	217.60	248.70	222.00	141.70	78.90	41.30	91.00	24.20	12.00	
17	13.50	184.70	75.60	204.50	289.00	174.20	224.10	78.90	39.70	67.40	25.40	11.80	
18	10.30	299.10	72.30	145.90	219.80	182.50	259.90	78.90	41.30	59.10	26.50	12.30	
19	8.10	251.00	82.20	133.80	158.10	226.30	191.30	78.90	42.90	44.40	27.70	12.00	
20	13.50	215.40	78.90	145.90	235.30	417.90	153.90	77.30	41.30	41.30	27.70	12.30	
21	15.60	129.80	98.00	129.80	217.60	278.90	135.70	77.30	44.40	36.60	21.80	11.80	
22	15.60	94.50	78.90	96.30	281.40	393.40	127.80	74.00	55.80	38.20	20.80	11.80	
23	14.50	72.30	62.40	92.80	217.60	268.80	123.80	72.30	62.40	39.70	19.80	11.80	
24	19.80	62.40	62.40	96.30	158.10	228.60	117.80	72.30	67.40	39.70	20.80	11.80	
25	26.50	57.40	109.80	83.90	133.80	363.30	107.80	70.70	70.70	35.00	12.00	11.20	
26	23.00	49.10	251.00	83.90	193.50	222.00	103.80	70.70	75.60	27.70	8.60	10.90	
27	17.70	47.50	284.00	69.00	452.40	301.60	105.80	69.00	82.20	30.00	7.20	10.90	
28	19.80	54.10	228.60	59.10	584.10	811.60	107.80	67.40	77.30	35.00	6.50	10.60	
29	18.70	65.70	219.80	52.40	716.40	839.20	113.80	67.40	70.70	33.50	6.70	13.80	
30	21.80	85.70	131.80	49.10	186.90	455.30	133.80	65.70	67.40	32.30		12.40	
31		69.00		83.90	158.10		127.80		65.70	30.00		12.30	
Total	561.60	3822.90	3144.10	3538.90	9511.70	9849.90	5295.20	2638.60	1769.90	1646.60	642.10	359.80	42781.30
Mean	18.70	123.30	104.80	114.20	306.80	328.30	170.80	88.00	57.10	53.10	22.10	11.60	
Max	52.40	299.10	284.00	248.70	835.70	839.20	355.00	145.90	82.20	133.80	54.10	14.70	839.20
Min	8.10	47.50	49.10	49.10	133.80	156.00	103.80	65.70	36.60	27.70	6.50	6.10	6.10

WATER YEAR : 2011**PING RIVER BASIN****Nam Mae Ngat at Ban Sahakorn Romklao , Chiang Mai (P.56A)**

Lat 19 - 17 - 04 N Long 99 - 11 - 23 E

Location : on left bank at the bridge near land Cooperative Office.

	Ban	Sahakorn Romklao	Amphoe	Phrao	Changwat	Chiang Mai
Drainage Area	546	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1997-Cont'd					
Actual Measurement	1997-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	34					
R-Square	0.9172					
Remarks	Continued Sediment Station					

$$QS = 3.3526 QW^{1.50370}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.70	74.70	22.10	47.10	1874.20	269.20	631.80	163.10	36.80	8.70	4.90	2.00	
2	4.40	114.70	17.50	62.10	717.60	260.70	717.60	115.10	31.20	8.70	4.90	2.00	
3	4.40	431.50	16.60	82.30	764.70	215.80	431.50	110.60	29.40	8.70	5.70	2.00	
4	4.10	222.90	19.30	104.20	308.50	184.40	322.10	110.60	29.40	8.70	5.70	1.80	
5	4.10	375.10	22.10	60.40	175.10	233.90	277.80	102.00	27.70	9.30	5.70	1.80	
6	4.10	114.70	32.00	36.80	134.40	528.20	256.60	97.70	26.00	8.70	4.10	1.80	
7	3.80	52.00	78.50	19.30	137.10	370.00	291.00	89.40	19.70	8.70	5.30	1.80	
8	3.80	34.40	29.60	16.60	145.60	269.20	870.80	85.40	16.30	8.70	4.90	1.80	
9	3.80	74.70	17.50	20.20	187.90	230.20	345.40	89.40	14.10	7.40	3.40	1.80	
10	3.80	84.20	12.80	19.30	796.60	291.00	237.50	85.40	14.10	7.40	2.90	1.80	
11	3.80	41.90	12.20	17.50	932.90	201.70	208.70	81.40	13.40	7.40	2.60	1.80	
12	3.80	32.00	14.90	13.50	820.70	198.10	187.90	73.60	12.70	7.40	2.60	1.80	
13	3.80	26.30	65.70	13.50	1310.50	390.10	175.10	67.40	12.00	7.40	2.40	1.80	
14	3.80	20.20	52.00	28.50	504.50	360.00	160.10	64.40	11.30	10.60	2.40	4.90	
15	3.50	15.80	26.30	175.10	326.80	426.40	205.30	58.60	12.70	67.40	2.20	38.70	
16	3.50	16.60	18.40	384.90	345.40	552.00	215.80	61.50	13.40	26.00	2.20	19.70	
17	3.20	27.40	14.90	725.30	260.70	304.10	208.70	61.50	9.90	16.30	2.20	13.40	
18	3.20	39.30	13.50	230.20	237.50	241.00	226.60	61.50	8.70	12.70	2.20	7.40	
19	3.20	40.60	11.60	139.90	230.20	252.30	205.30	61.50	8.70	12.70	2.00	7.00	
20	3.20	88.10	8.10	154.30	539.80	277.80	187.90	61.50	8.00	12.70	2.00	4.50	
21	3.20	33.20	10.40	181.20	1394.80	370.00	184.40	61.50	6.50	12.70	2.00	4.50	
22	45.80	19.30	19.30	134.40	1061.60	304.10	178.10	55.70	6.10	11.30	2.00	3.70	
23	313.10	13.50	11.60	78.50	459.00	260.70	160.10	52.90	6.50	7.40	1.80	2.20	
24	308.50	11.60	5.10	154.30	317.70	237.50	145.60	52.90	6.50	7.00	1.40	2.00	
25	331.20	9.80	4.70	172.00	564.60	248.70	139.90	58.60	7.00	6.10	1.60	2.20	
26	212.30	9.80	137.10	88.10	1071.30	273.60	137.10	61.50	7.40	5.30	1.80	5.30	
27	237.50	10.40	447.50	47.10	837.00	421.00	134.40	61.50	7.40	5.70	1.80	3.10	
28	375.10	10.40	157.20	36.80	475.90	1310.50	131.60	55.70	7.40	5.70	2.00	2.90	
29	252.30	21.10	92.00	30.80	431.50	1848.20	157.20	40.70	8.70	5.30	2.00	2.90	
30	194.80	123.40	58.70	28.50	453.20	611.30	405.40	38.70	8.70	4.90		2.90	
31		38.00		74.70	308.50		219.20		8.70	4.50		2.60	
Total	2349.80	2227.60	1449.20	3377.40	18125.80	11941.70	8356.50	2241.30	436.40	341.50	86.70	153.90	51087.80
Mean	78.30	71.90	48.30	108.90	584.70	398.10	269.60	74.70	14.10	11.00	3.00	5.00	
Max	375.10	431.50	447.50	725.30	1874.20	1848.20	870.80	163.10	36.80	67.40	5.70	38.70	1874.20
Min	3.20	9.80	4.70	13.50	134.40	184.40	131.60	38.70	6.10	4.50	1.40	1.80	1.40

WATER YEAR : 2011**PING RIVER BASIN****Ping River at Ban Mae Tae , Chiang Mai (P.67)**

Lat 19 - 01 - 11 N Long 98 - 57 - 43 E

Location : on left bank at the bridge on highway.

	Ban Mae Tae	Amphoe San Sai	Changwat Chiang Mai
Drainage Area	5,323 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.8737		
Remarks	Continued Sediment Station		

$$QS = 1.6654 QW^{1.56440}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	178.50	1036.60	926.00	848.20	10217.90	8133.40	15095.90	1319.80	399.20	112.20	70.90	6.00	
2	178.50	2193.20	636.80	904.40	16406.20	7514.40	15197.20	1295.20	462.00	112.20	78.60	2.80	
3	178.50	2567.40	687.60	1295.20	10817.90	7245.00	14493.50	1128.20	474.90	107.80	70.90	1.70	
4	178.50	2678.70	1511.20	1198.80	6913.20	6532.90	14894.10	1198.80	501.20	99.20	64.40	2.80	
5	178.50	2127.50	1344.40	848.20	4299.80	5110.10	13801.90	1569.40	449.20	99.20	43.30	31.10	
6	184.90	2293.20	1658.10	636.80	2887.10	9171.70	11525.00	1511.20	423.90	99.20	55.00	2.20	
7	172.20	1934.70	2428.90	541.60	2160.30	16406.20	7111.60	1840.80	399.20	107.80	38.10	1.20	
8	172.20	1270.90	1175.10	462.00	2293.20	9713.50	6226.20	1540.20	399.20	112.20	46.20	1.20	
9	211.20	1246.70	926.00	449.20	2719.90	8063.70	6348.20	1453.90	488.00	112.20	38.10	1.70	
10	264.20	1151.60	848.20	474.90	3869.00	7045.30	5924.80	1453.90	399.20	107.80	116.60	15.50	
11	411.50	1014.10	829.80	555.30	5110.10	5338.40	4941.20	1198.80	317.00	103.40	140.10	184.90	
12	375.00	829.80	991.80	904.40	7379.20	4299.80	4348.70	969.70	305.80	107.80	399.20	191.40	
13	399.20	488.00	1246.70	704.90	8721.20	5924.80	4941.20	926.00	288.90	121.20	603.70	197.90	
14	462.00	449.20	1425.50	653.60	7312.00	11078.80	4609.70	687.60	288.90	159.90	555.30	191.40	
15	449.20	488.00	1246.70	1198.80	6044.70	10645.20	3869.00	775.40	248.20	288.90	587.40	159.90	
16	297.30	587.40	947.80	2360.70	5687.60	8572.90	4251.20	793.40	197.90	140.10	528.00	140.10	
17	224.80	926.00	757.50	3822.20	5512.00	7245.00	3500.00	793.40	184.90	112.20	351.40	112.20	
18	197.90	1482.40	687.60	2929.50	6348.20	6044.70	3636.80	885.60	178.50	103.40	144.90	94.90	
19	211.20	3320.60	687.60	2193.20	6913.20	6719.50	3188.30	775.40	184.90	90.60	116.60	94.90	
20	224.80	4397.80	587.40	1840.80	7379.20	7178.20	2678.70	687.60	178.50	74.70	107.80	90.60	
21	375.00	2094.90	636.80	1840.80	6913.20	6287.10	2463.20	722.30	191.40	74.70	103.40	74.70	
22	351.40	1295.20	757.50	2062.50	7925.10	8646.90	2293.20	670.50	140.10	74.70	90.60	144.90	
23	288.90	1246.70	528.00	1453.90	7111.60	8572.90	2127.50	620.20	149.90	64.40	78.60	78.60	
24	904.40	991.80	399.20	1748.60	5687.60	7582.30	1934.70	636.80	144.90	99.20	74.70	107.80	
25	1809.90	904.40	423.90	2972.10	4774.40	8721.20	1840.80	603.70	140.10	94.90	55.00	103.40	
26	1598.80	620.20	793.40	2394.70	11709.00	8646.90	1809.90	603.70	135.40	103.40	8.40	116.60	
27	848.20	793.40	2127.50	1569.40	18971.80	12644.90	1511.20	687.60	116.60	99.20	26.80	256.10	
28	423.90	1082.00	1903.20	1198.80	12267.40	34423.10	1369.30	603.70	107.80	94.90	52.00	204.50	
29	387.00	1059.20	1425.50	1059.20	10731.40	40460.70	1748.60	555.30	103.40	103.40	24.70	240.30	
30	1014.10	1369.30	1222.60	969.70	8572.90	26661.80	2428.90	501.20	103.40	107.80		184.90	
31		1998.20		1425.50	8279.00		1934.70		112.20	103.40		82.60	
Total	13151.70	45939.10	31768.30	43517.90	231935.30	320631.30	172045.20	29009.30	8214.70	3392.00	4670.70	3118.80	907394.40
Mean	438.40	1481.90	1058.90	1403.80	7481.80	10687.70	5549.80	967.00	265.00	109.40	161.10	100.60	
Max	1809.90	4397.80	2428.90	3822.20	18971.80	40460.70	15197.20	1840.80	501.20	288.90	603.70	256.10	40460.70
Min	172.20	449.20	399.20	449.20	2160.30	4299.80	1369.30	501.20	103.40	64.40	8.40	1.20	1.20

WATER YEAR : 2011**PING RIVER BASIN****Ping River at Ban Cho Lae , Chiang Mai (P.75)**

Lat 19 - 08 - 58 N Long 99 - 00 - 43 E

Location : on left bank at the bridge on road.

	Ban Cho Lae	Amphoe Mae Teang	Changwat Chiang Mai
Drainage Area	3,088 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2001-Cont'd		
Actual Measurement	2001-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.8396		
Remarks	Continued Sediment Station		

$$QS = 0.1504 QW^{1.97540}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	59.50	51.80	86.80	139.70	2139.90	2279.00	2519.10	150.30	61.50	42.90	51.80	8.10	
2	59.50	95.30	71.10	162.70	2964.10	2279.00	3183.60	143.20	132.80	42.90	57.60	51.80	
3	61.50	454.70	71.10	193.50	1626.90	2249.80	4288.60	136.20	55.60	42.90	55.60	30.40	
4	61.50	561.30	101.10	166.90	990.10	1688.80	4752.10	129.50	50.00	41.20	51.80	22.40	
5	59.50	446.70	146.70	143.20	522.30	860.60	4517.40	129.50	48.20	44.60	36.40	29.00	
6	57.60	571.20	150.30	129.50	362.00	2034.40	2803.50	158.50	46.40	44.60	12.30	33.30	
7	61.50	391.80	162.70	113.30	349.00	3457.30	1335.00	323.50	44.60	44.60	38.00	33.30	
8	61.50	399.50	136.20	107.10	242.00	1647.40	1226.20	329.90	42.90	42.90	48.20	30.40	
9	61.50	207.50	122.90	110.20	414.90	1448.30	1190.90	236.90	42.90	42.90	48.20	33.30	
10	86.80	522.30	104.10	132.80	1022.30	1316.50	1105.00	132.80	42.90	42.90	89.60	50.00	
11	146.70	107.10	95.30	84.10	1173.50	910.20	1038.50	86.80	38.00	42.90	252.90	132.80	
12	143.20	171.20	101.10	42.90	1410.00	611.90	1647.40	44.60	36.40	42.90	264.10	139.70	
13	158.50	71.10	129.50	46.40	2113.30	872.80	1586.40	95.30	34.90	46.40	264.10	139.70	
14	188.90	61.50	198.10	61.50	1881.00	1487.10	1280.00	107.10	51.80	66.30	252.90	136.20	
15	188.90	317.30	158.50	107.10	1071.50	1757.80	824.10	95.30	34.90	101.10	221.90	101.10	
16	179.90	31.90	143.20	269.70	812.10	1566.30	765.20	84.10	31.90	71.10	136.20	89.60	
17	122.90	57.60	132.80	531.90	571.20	1335.00	422.70	81.40	30.40	68.70	16.70	81.40	
18	71.10	89.60	129.50	505.00	1055.00	1173.50	414.90	81.40	30.40	59.50	39.60	78.80	
19	68.70	479.50	132.80	269.70	1190.90	1121.90	376.80	78.80	29.00	48.20	38.00	76.20	
20	68.70	675.50	129.50	202.70	1226.20	1190.90	342.40	73.70	27.60	44.60	34.90	81.40	
21	63.90	362.00	113.30	399.50	1280.00	1022.30	323.50	68.70	27.60	42.90	30.40	36.40	
22	39.60	287.20	81.40	541.60	1757.80	2397.60	269.70	66.30	27.60	41.20	30.40	81.40	
23	50.00	221.90	50.00	369.40	1506.70	2249.80	252.90	59.50	27.60	34.90	29.00	81.40	
24	136.20	231.90	25.00	430.50	1055.00	1806.60	247.40	136.20	29.00	33.30	6.30	81.40	
25	76.20	129.50	26.30	765.20	1208.50	3848.50	212.20	66.30	27.60	36.40	17.80	78.80	
26	132.80	55.60	57.60	531.90	9672.70	1410.00	193.50	61.50	29.00	48.20	6.30	76.20	
27	139.70	57.60	158.50	376.80	5673.80	3228.50	175.50	63.90	31.90	48.20	26.30	76.20	
28	53.70	76.20	92.40	329.90	3007.30	5449.00	158.50	63.90	42.90	46.40	30.40	71.10	
29	53.70	92.40	73.70	299.00	2612.30	10225.30	162.70	61.50	42.90	46.40	26.30	76.20	
30	66.30	146.70	184.40	258.50	2427.70	3742.20	175.50	59.50	42.90	50.00		76.20	
31		226.90		342.40	2337.90		175.50		42.90	51.80		73.70	
Total	2780.00	7652.30	3365.90	8164.60	55677.90	66668.30	37966.70	3406.10	1285.00	1503.80	2214.00	2187.90	192872.50
Mean	92.70	246.80	112.20	263.40	1796.10	2222.30	1224.70	113.50	41.50	48.50	76.30	70.60	
Max	188.90	675.50	198.10	765.20	9672.70	10225.30	4752.10	329.90	132.80	101.10	264.10	139.70	10225.30
Min	39.60	31.90	25.00	42.90	242.00	611.90	158.50	44.60	27.60	33.30	6.30	8.10	6.30

WATER YEAR : 2011**PING RIVER BASIN****Nam Mae Li at Ban Mae E - Hai , Lamphun (P.76)**

Lat 18 - 08 - 23 N Long 98 - 53 - 58 E

Location : on left bank near the bridge of Li - Ban Mae E - Hai road.

	Ban Mae E - Hai	Amphoe Li	Changwat Lamphun
Drainage Area	1,544 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2001-Cont'd		
Actual Measurement	2001-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.9530		
Remarks	Continued Sediment Station		

$$QS = 6.6050 QW^{1.09680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.10	177.50	204.50	123.60	185.20	364.40	636.40	268.90	41.30	12.10	8.80	7.00	
2	11.80	123.60	158.70	113.80	251.30	296.10	1177.20	208.30	39.40	11.30	12.10	6.50	
3	9.60	84.20	110.50	104.70	558.20	382.20	4394.80	128.80	35.70	8.20	13.00	6.50	
4	7.00	79.50	170.00	91.80	649.90	282.50	4290.80	128.80	51.50	7.60	11.30	5.90	
5	7.00	388.30	204.50	97.00	454.30	247.40	3431.70	128.80	39.40	8.20	10.50	6.50	
6	7.00	235.60	223.90	140.10	251.30	784.40	2220.70	119.40	30.20	13.80	8.80	5.30	
7	7.00	155.00	277.90	104.70	185.20	582.90	1315.20	119.40	26.30	13.00	8.20	5.30	
8	6.50	123.60	181.40	91.80	173.70	358.50	1007.80	103.00	33.90	13.80	8.20	4.20	
9	5.00	117.00	147.50	81.60	170.00	319.00	799.30	114.70	26.30	13.00	7.60	4.70	
10	7.00	1333.70	133.50	70.80	162.50	305.30	670.30	119.40	33.90	14.70	7.00	4.70	
11	11.80	2951.70	126.90	75.10	147.50	352.60	576.70	110.10	37.60	15.50	7.60	4.20	
12	9.60	670.30	117.00	66.60	200.60	545.90	430.20	106.50	30.20	15.50	7.60	5.30	
13	11.80	370.30	120.30	81.60	208.30	921.20	364.40	103.00	26.30	15.50	8.20	7.00	
14	18.00	337.40	113.80	62.30	155.00	1361.50	346.60	99.50	23.70	15.50	6.50	7.00	
15	18.00	352.60	104.70	113.80	147.50	1040.60	309.80	92.60	22.40	16.40	7.00	6.50	
16	19.20	200.60	86.70	259.80	170.00	533.60	376.30	85.60	27.60	14.70	7.00	7.00	
17	14.90	147.50	81.60	277.90	177.50	364.40	595.80	75.30	22.40	16.40	7.00	7.00	
18	13.40	576.70	51.00	239.60	166.20	342.00	769.50	64.60	22.40	14.70	5.90	9.60	
19	14.90	754.60	60.20	259.80	231.70	314.40	643.10	67.30	14.70	14.70	6.50	8.80	
20	33.40	697.60	123.60	216.10	251.30	319.00	478.60	64.60	41.30	14.70	7.00	8.20	
21	110.50	490.80	212.20	151.20	259.80	300.70	412.20	67.30	43.20	13.80	15.50	8.20	
22	40.50	319.00	170.00	155.00	173.70	382.20	364.40	62.00	35.70	13.00	14.70	7.00	
23	25.30	243.60	133.50	133.50	117.00	460.40	332.80	59.30	28.90	13.00	13.80	6.50	
24	27.70	223.90	89.30	107.30	113.80	418.10	287.00	64.60	22.40	12.10	11.30	6.50	
25	30.50	166.20	110.50	99.50	110.50	533.60	273.40	67.30	15.50	11.30	10.50	5.90	
26	29.10	208.30	126.90	91.80	762.00	436.10	268.90	64.60	13.00	10.50	8.20	4.70	
27	36.20	259.80	200.60	84.20	1856.70	1241.40	247.40	64.60	11.30	10.50	7.00	5.30	
28	30.50	264.40	200.60	81.60	968.30	992.00	204.50	59.30	28.90	10.50	7.60	5.30	
29	39.10	192.90	155.00	84.20	472.50	851.70	189.00	54.10	33.90	10.50	7.00	5.30	
30	147.50	212.20	133.50	77.30	358.50	1352.30	177.50	43.20	26.30	10.50		4.70	
31		287.00		73.00	533.60		192.90		23.70	10.50		4.70	
Total	763.90	12745.40	4330.30	3811.10	10623.60	16986.40	27785.20	2914.90	909.30	395.50	261.40	191.30	81718.30
Mean	25.50	411.10	144.30	122.90	342.70	566.20	896.30	97.20	29.30	12.80	9.00	6.20	
Max	147.50	2951.70	277.90	277.90	1856.70	1361.50	4394.80	268.90	51.50	16.40	15.50	9.60	4394.80
Min	5.00	79.50	51.00	62.30	110.50	247.40	177.50	43.20	11.30	7.60	5.90	4.20	4.20

WATER YEAR : 2011**PING RIVER BASIN****Nam Mae Tha at Ban Sop Mae Sapuad , Lamphun (P.77)**

Lat 18 - 25 - 57 N Long 99 - 05 - 02 E

Location : on left bank at the bridge on road.

	Ban	Sop Mae Sapuad	Amphoe	Mae Tha	Changwat	Lamphun
Drainage Area	550	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2001-Cont'd					
Actual Measurement	2001-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	37					
R-Square	0.9325					
Remarks	Continued Sediment Station					

$$QS = 2.0059 QW^{1.60410}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.70	60.70	9.30	48.70	6666.00	88.50	282.40	32.50	5.60	1.80	0.40	0.50	
2	6.70	60.70	10.00	46.20	1267.20	231.50	1631.30	39.40	5.60	1.80	0.30	0.30	
3	6.70	32.60	11.40	544.00	1021.60	162.00	741.40	26.20	4.80	1.80	0.50	0.50	
4	6.10	77.20	8.60	301.30	615.20	100.90	489.10	32.50	4.00	1.80	0.60	0.50	
5	6.70	39.20	3.10	122.80	187.10	73.70	374.50	46.70	4.00	1.80	0.80	0.50	
6	6.10	12.20	173.90	73.70	67.10	516.40	301.30	32.50	4.80	1.70	1.40	0.50	
7	7.30	20.70	80.60	54.60	67.10	1370.90	223.80	20.40	4.00	1.70	1.30	0.60	
8	6.70	16.60	32.60	37.00	100.90	722.70	150.40	20.40	4.00	1.70	1.10	0.50	
9	6.70	14.10	23.50	39.20	84.50	2033.50	122.80	20.40	4.00	1.70	0.70	0.50	
10	6.70	1663.60	23.50	48.70	77.20	1318.60	113.80	15.10	4.00	1.50	0.70	0.50	
11	6.70	489.10	20.70	57.60	96.70	936.50	118.30	15.10	2.60	1.40	0.70	0.50	
12	6.70	139.10	20.70	51.60	187.10	704.50	113.80	15.10	3.30	1.30	0.70	0.60	
13	10.70	51.60	19.30	46.20	180.00	2139.10	92.60	10.50	2.60	1.30	0.40	0.60	
14	80.60	60.70	30.50	48.70	133.60	1423.90	88.50	9.40	2.60	1.40	0.70	0.70	
15	30.50	264.00	19.30	876.00	133.60	1794.80	84.50	8.40	2.60	1.70	0.70	0.90	
16	19.30	96.70	30.50	475.90	109.40	586.30	88.50	8.40	2.60	1.80	0.70	4.00	
17	11.40	109.40	46.20	264.00	247.00	340.50	92.60	20.40	2.00	1.80	0.60	0.60	
18	6.70	301.30	32.60	109.40	449.70	187.10	92.60	6.50	2.00	1.80	0.60	0.90	
19	6.10	208.80	23.50	70.40	571.90	156.10	88.50	5.60	1.80	1.80	0.60	1.50	
20	5.60	374.50	37.00	63.90	571.90	156.10	80.60	5.60	2.00	1.80	0.60	1.30	
21	5.60	156.10	173.90	54.60	320.70	156.10	80.60	5.60	2.00	1.50	0.40	1.40	
22	5.60	63.90	46.20	46.20	180.00	264.00	70.40	5.60	2.00	1.40	0.70	1.50	
23	4.70	25.00	30.50	34.80	113.80	386.80	67.10	5.60	2.00	1.40	0.70	1.40	
24	6.70	23.50	23.50	37.00	73.70	386.80	67.10	5.60	2.00	1.30	0.70	1.40	
25	12.20	15.40	16.60	46.20	84.50	411.30	63.90	5.60	2.00	1.00	0.60	1.30	
26	9.30	15.40	80.60	54.60	208.80	273.20	60.70	4.80	2.00	0.40	0.60	1.10	
27	8.00	15.40	704.50	41.50	330.50	255.00	60.70	4.80	1.80	0.40	0.60	1.30	
28	6.70	16.60	167.90	39.20	264.00	1397.30	60.70	4.80	2.00	0.40	0.60	1.00	
29	5.10	10.70	92.60	34.80	118.30	1370.90	57.60	4.80	2.00	0.40	0.60	1.00	
30	5.10	10.70	60.70	28.50	133.60	362.30	32.50	4.80	2.00	0.40		0.90	
31		10.70		73.70	100.90		39.40		1.80	0.40		0.80	
Total	319.70	4456.20	2053.80	3871.00	14763.60	20307.30	6032.00	443.10	90.50	42.40	19.60	29.60	52428.80
Mean	10.70	143.70	68.50	124.90	476.20	676.90	194.60	14.80	2.90	1.40	0.70	1.00	
Max	80.60	1663.60	704.50	876.00	6666.00	2139.10	1631.30	46.70	5.60	1.80	1.40	4.00	6666.00
Min	4.70	10.70	3.10	28.50	67.10	73.70	32.50	4.80	1.80	0.40	0.30	0.30	0.30

WATER YEAR : 2011**PING RIVER BASIN****Khlong Khlung at Ban Sam Ruean , Kamphaeng Phet (P.78)**

Lat 16 - 11 - 03 N Long 99 - 36 - 09 E

Location : on left bank at Ban Sam Ruean.

	Ban	Sam Ruean	Amphoe	Khlong Khlung	Changwat	Kamphaeng Phet
Drainage Area	1,119	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2002-Cont'd					
Actual Measurement	2002-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	20					
R-Square	0.9663					
Remarks	Continued Sediment Station					

$$QS = 9.8696 QW^{1.13490}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	8.20	314.60	245.90	156.20	364.50	391.80	242.60	14.50	1.80	1.70	1.50	
2	0.80	7.70	694.70	206.90	194.10	275.60	639.60	210.10	21.70	1.80	1.70	1.50	
3	0.70	34.30	756.30	121.40	146.90	262.40	784.50	187.70	20.40	1.80	1.70	1.50	
4	0.60	25.40	644.70	326.10	121.40	262.40	1648.40	175.00	19.20	1.80	1.70	1.50	
5	0.60	15.60	807.10	387.80	86.20	495.10	1967.80	137.70	18.00	1.80	1.70	1.50	
6	0.50	11.00	901.00	219.80	57.80	387.80	3794.50	140.80	16.80	1.80	1.70	1.50	
7	0.40	46.20	1609.40	118.70	43.60	333.70	4013.40	126.60	14.50	1.80	1.70	1.50	
8	0.30	94.90	1435.10	380.00	42.20	242.60	2970.30	124.00	8.20	1.80	1.70	1.50	
9	0.30	75.40	522.00	289.00	15.60	150.00	1894.40	113.50	5.00	1.80	1.70	1.50	
10	0.20	49.40	252.50	252.50	66.90	203.70	1894.40	129.30	4.00	1.80	1.70	1.50	
11	0.10	35.60	110.90	30.50	29.20	442.00	2170.80	110.90	4.00	1.80	1.70	1.50	
12	0.10	27.90	56.10	64.80	22.90	1142.40	1190.80	118.70	3.80	1.80	1.70	1.50	
13	0.00	26.70	46.20	39.60	57.80	3885.60	950.70	103.80	3.50	1.80	1.70	1.50	
14	0.00	22.90	126.60	84.00	121.40	3940.30	666.90	79.70	3.20	1.80	1.70	1.50	
15	0.00	1273.30	47.60	349.10	81.90	2986.40	544.50	99.30	3.00	1.80	1.70	1.50	
16	0.00	2795.00	9.30	383.90	101.60	1544.90	2182.10	79.70	3.00	1.80	1.70	1.50	
17	0.00	1978.30	7.70	360.70	43.60	1121.70	4123.40	25.40	2.70	1.80	1.70	1.50	
18	0.00	1535.70	6.60	181.30	44.90	925.70	3740.00	31.80	2.50	1.80	1.70	1.50	
19	0.00	1435.10	31.80	156.20	236.10	672.40	2858.70	34.30	2.50	1.80	1.50	1.50	
20	1.70	446.40	66.90	99.30	175.00	468.50	1769.40	25.40	2.30	1.80	1.50	1.50	
21	0.00	314.60	14.50	110.90	178.20	387.80	1142.40	20.40	2.30	1.80	1.50	1.50	
22	0.00	203.70	129.30	73.30	121.40	411.30	876.10	9.90	2.00	1.80	1.50	1.50	
23	0.60	219.80	88.40	63.00	92.70	1250.30	678.00	19.20	1.90	1.80	1.50	1.50	
24	0.70	322.30	54.40	329.80	64.80	807.10	569.30	34.30	1.90	1.80	1.50	1.50	
25	0.30	310.80	4.50	197.30	64.80	1228.00	513.00	39.60	1.80	1.80	1.50	1.50	
26	0.10	345.10	2.50	197.30	134.60	1401.70	446.40	43.60	1.80	1.80	1.50	1.50	
27	0.10	282.30	1.70	265.70	59.60	1149.30	364.50	44.90	1.80	1.80	1.50	1.50	
28	2.50	242.60	18.00	337.60	75.40	584.30	341.40	39.60	1.80	1.80	1.50	1.50	
29	1.70	239.30	9.90	341.40	223.00	540.00	310.80	40.90	1.80	1.80	1.50	1.50	
30	6.60	299.40	4.00	407.30	229.50	569.30	322.30	24.10	1.80	1.80		1.50	
31		289.00		200.50	564.40		292.30		1.80	1.80		1.50	
Total	19.90	13013.90	8774.30	6821.60	3653.70	28436.80	46052.90	2612.80	193.50	55.80	47.10	46.50	109728.80
Mean	0.70	419.80	292.50	220.10	117.90	947.90	1485.60	87.10	6.20	1.80	1.60	1.50	
Max	6.60	2795.00	1609.40	407.30	564.40	3940.30	4123.40	242.60	21.70	1.80	1.70	1.50	4123.40
Min	0.00	7.70	1.70	30.50	15.60	150.00	292.30	9.90	1.80	1.80	1.50	1.50	0.00

WATER YEAR : 2011**PING RIVER BASIN****Nam Mae Kuang at Ban Mae Wan , Chiang Mai (P.79)**

Lat 18 - 57 - 45 N Long 99 - 14 - 31 E

Location : on left bank at the bridge on road.

	Ban Mae Wan	Amphoe Doi Saket	Changwat Chiang Mai
Drainage Area	136 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2001-Cont'd		
Actual Measurement	2001-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.9530		
Remarks	Continued Sediment Station		

$$QS = 6.6050 QW^{1.09680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.40	26.90	13.50	26.90	253.00	39.90	37.90	12.40	10.30	10.30	10.30	10.30	
2	0.90	6.20	11.40	23.70	70.30	23.70	31.90	12.40	9.30	10.30	10.30	10.30	
3	0.90	11.40	12.40	22.00	48.20	22.00	28.60	12.40	10.30	10.30	10.30	10.30	
4	1.40	15.70	14.60	18.80	33.90	20.40	25.30	12.40	10.30	10.30	10.30	10.30	
5	0.90	14.60	37.90	15.70	25.30	37.90	20.40	11.40	10.30	10.30	10.30	10.30	
6	0.90	12.40	42.00	15.70	20.40	30.20	22.00	11.40	10.30	10.30	10.30	10.30	
7	1.40	9.30	22.00	14.60	20.40	68.10	22.00	10.30	10.30	10.30	10.30	10.30	
8	4.00	9.30	17.30	11.40	23.70	22.00	20.40	10.30	10.30	10.30	10.30	10.30	
9	3.00	15.70	14.60	10.30	37.90	22.00	20.40	10.30	10.30	10.30	10.30	10.30	
10	5.20	46.10	13.50	12.40	46.10	20.40	20.40	10.30	10.30	10.30	10.30	10.30	
11	5.20	39.90	15.70	17.30	128.80	20.40	18.80	10.30	10.30	10.30	10.30	10.30	
12	5.20	20.40	17.30	18.80	86.40	23.70	17.30	9.30	10.30	10.30	10.30	10.30	
13	4.60	14.60	30.20	13.50	137.30	23.70	17.30	9.30	10.30	10.30	10.30	10.30	
14	4.00	13.50	15.70	17.30	44.00	26.90	17.30	10.30	10.30	10.30	10.30	10.30	
15	3.00	17.30	14.60	37.90	28.60	56.80	17.30	7.20	10.30	10.30	10.30	10.30	
16	2.40	22.00	15.70	44.00	18.80	22.00	18.80	9.30	9.30	10.30	10.30	10.30	
17	2.40	23.70	14.60	37.90	15.70	18.80	20.40	9.30	8.20	10.30	10.30	10.30	
18	1.90	42.00	12.40	23.70	23.70	17.30	18.80	9.30	10.30	10.30	10.30	10.30	
19	1.40	33.90	11.40	18.80	37.90	20.40	18.80	9.30	10.30	10.30	10.30	10.30	
20	1.90	42.00	13.50	17.30	26.90	25.30	15.70	9.30	10.30	10.30	10.30	10.30	
21	8.20	25.30	31.90	17.30	30.20	23.70	15.70	9.30	10.30	10.30	10.30	10.30	
22	6.20	18.80	15.70	14.60	18.80	23.70	14.60	9.30	10.30	10.30	10.30	10.30	
23	42.00	15.70	13.50	15.70	15.70	25.30	14.60	10.30	10.30	10.30	10.30	10.30	
24	68.10	12.40	13.50	22.00	30.20	22.00	14.60	10.30	10.30	10.30	10.30	10.30	
25	61.30	10.30	26.90	22.00	111.90	23.70	13.50	10.30	10.30	10.30	10.30	10.30	
26	12.40	11.40	167.10	18.80	30.20	20.40	12.40	9.30	10.30	10.30	10.30	10.30	
27	9.30	14.60	59.00	15.70	25.30	22.00	13.50	9.30	10.30	10.30	10.30	10.30	
28	10.30	18.80	48.20	13.50	22.00	103.60	14.60	9.30	10.30	10.30	10.30	10.30	
29	8.20	20.40	33.90	12.40	17.30	52.30	13.50	10.30	10.30	10.30	10.30	10.30	
30	17.30	33.90	30.20	11.40	31.90	33.90	14.60	10.30	10.30	10.30		10.30	
31		17.30		56.80	35.90		14.60		10.30	10.30		10.30	
Total	295.30	635.80	800.20	638.20	1496.70	912.50	586.00	304.50	315.20	319.30	298.70	319.30	6921.70
Mean	9.80	20.50	26.70	20.60	48.30	30.40	18.90	10.10	10.20	10.30	10.30	10.30	
Max	68.10	46.10	167.10	56.80	253.00	103.60	37.90	12.40	10.30	10.30	10.30	10.30	253.00
Min	0.90	6.20	11.40	10.30	15.70	17.30	12.40	7.20	8.20	10.30	10.30	10.30	0.90

WATER YEAR : 2011**PING RIVER BASIN****Nam Mae Lai at Ban Pong Din , Chiang Mai (P.80)**

Lat 18 - 54 - 49 N Long 99 - 14 - 17 E

Location : on left bank at the bridge on road.

	Ban Pong Din	Amphoe Doi Saket	Changwat Chiang Mai
Drainage Area	129 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2007-Cont'd		
Actual Measurement	2007-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.7784		
Remarks	Continued Sediment Station		

$$QS = 1.2596 QW^{1.84080}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	27.30	3.70	10.30	1661.40	42.60	126.30	18.50	6.90	5.20	3.10	2.20	
2	0.60	23.30	3.70	14.60	197.20	45.90	206.40	16.50	6.90	5.20	3.10	2.20	
3	0.60	17.40	4.20	12.80	103.40	37.60	126.30	15.50	6.90	5.20	3.10	2.20	
4	0.60	9.50	3.10	8.80	60.90	47.70	166.50	13.70	6.90	5.20	3.10	2.20	
5	0.70	3.40	10.30	6.30	49.80	72.90	100.20	13.70	6.90	5.20	3.10	2.20	
6	2.80	1.90	33.00	6.30	44.20	407.40	75.50	13.70	6.30	5.20	3.10	1.90	
7	2.20	2.80	8.80	5.20	47.70	356.60	83.30	12.80	6.90	5.20	3.10	2.20	
8	2.20	3.10	5.20	6.30	60.90	122.90	83.30	11.90	6.90	5.20	3.10	2.20	
9	2.20	11.90	3.70	10.30	70.40	151.30	75.50	11.10	6.90	5.20	3.10	2.20	
10	1.90	78.10	4.20	10.30	170.60	278.20	70.40	11.10	6.90	4.20	3.10	2.20	
11	1.90	18.50	5.20	28.70	674.30	136.70	56.30	11.10	6.90	3.70	2.80	1.50	
12	2.20	8.20	5.20	8.20	329.60	126.30	56.30	9.50	6.90	3.70	2.80	2.20	
13	2.20	2.80	3.70	11.10	508.00	126.30	51.90	9.50	6.90	3.70	2.80	2.20	
14	2.20	2.80	3.70	36.00	106.50	106.50	51.90	8.80	6.30	3.70	2.80	2.50	
15	1.90	3.10	3.70	17.40	94.30	83.30	54.10	9.50	6.30	3.70	2.80	2.80	
16	1.90	3.10	3.70	9.50	78.10	80.70	60.90	9.50	6.30	3.70	2.80	2.80	
17	1.70	3.40	3.40	6.30	58.60	75.50	63.20	8.20	6.30	3.70	2.80	2.50	
18	0.70	4.20	4.20	6.30	109.70	75.50	51.90	8.20	6.30	3.70	2.80	2.50	
19	0.70	8.80	2.20	6.30	230.10	83.30	47.70	8.20	6.30	3.40	2.80	2.20	
20	0.70	5.70	2.50	6.30	109.70	78.10	44.20	8.20	6.30	3.40	2.80	2.20	
21	0.70	3.40	7.50	6.30	116.20	83.30	40.90	8.20	6.30	3.10	2.50	2.20	
22	0.70	1.70	3.10	5.70	183.70	140.30	39.20	8.20	5.20	3.10	2.50	2.20	
23	0.80	2.20	2.20	6.90	44.20	147.60	34.50	8.20	6.30	3.40	2.50	2.20	
24	4.20	2.20	2.80	17.40	45.90	499.00	31.50	8.20	6.30	3.10	2.50	1.90	
25	94.30	1.90	19.70	10.30	162.60	143.90	30.00	8.20	6.30	3.10	2.50	1.90	
26	3.70	1.70	303.60	7.50	1130.60	103.40	28.70	8.20	6.30	3.40	2.20	1.90	
27	1.90	2.80	58.60	6.30	126.30	166.50	31.50	8.20	5.70	3.40	2.20	1.90	
28	1.50	5.20	39.20	6.30	60.90	473.30	28.70	8.20	5.70	3.40	2.20	1.90	
29	2.20	6.30	17.40	6.30	54.10	240.00	19.70	7.50	5.70	3.40	2.20	2.20	
30	45.90	40.90	12.80	6.30	94.30	88.80	25.90	6.90	5.70	3.40		2.20	
31		5.70		78.10	49.80		28.70		5.70	3.10		2.20	
Total	186.40	313.30	584.30	384.70	6834.00	4621.40	1991.40	309.20	198.40	123.30	80.30	67.80	15694.50
Mean	6.20	10.10	19.50	12.40	220.50	154.00	64.20	10.30	6.40	4.00	2.80	2.20	
Max	94.30	78.10	303.60	78.10	1661.40	499.00	206.40	18.50	6.90	5.20	3.10	2.80	1661.40
Min	0.60	1.70	2.20	5.20	44.20	37.60	19.70	6.90	5.20	3.10	2.20	1.50	0.60

WATER YEAR : 2011**PING RIVER BASIN****Nam Mae Wang at Ban Sop Win , Chiang Mai (P.82)**

Lat 18 - 39 - 08 N Long 98 - 41 - 26 E

Location : on left bank at Ban Mae Win.

	Ban Sop Win	Amphoe Mae Wang	Changwat Chiang Mai
Drainage Area	389 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2003-Cont'd		
Actual Measurement	2003-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.7742		
Remarks	Continued Sediment Station		

$$QS = 0.4920 QW^{1.86640}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.80	1.60	4.40	7.70	71.70	66.10	343.50	68.90	35.80	20.60	11.90	6.80	
2	1.30	3.50	6.80	6.40	100.00	49.40	1076.60	66.10	34.20	20.60	14.10	6.80	
3	0.80	5.50	14.80	8.70	66.10	83.60	1632.70	63.30	34.20	19.60	13.30	6.40	
4	0.80	8.10	68.90	14.80	51.60	66.10	2090.40	63.30	34.20	19.60	13.30	5.90	
5	0.80	5.50	71.70	13.30	23.90	83.60	639.50	63.30	32.50	19.60	11.90	5.90	
6	0.80	4.80	291.70	10.60	18.60	351.20	320.80	60.90	32.50	18.60	11.30	5.90	
7	0.80	10.00	56.20	7.20	17.60	384.30	250.40	58.50	31.00	18.60	10.00	5.90	
8	0.80	14.80	22.70	5.50	14.80	107.00	225.00	58.50	29.40	17.60	8.70	5.20	
9	1.00	5.90	16.70	5.90	12.60	107.00	185.90	56.20	22.70	17.60	9.30	5.90	
10	2.60	22.70	13.30	6.40	14.80	138.10	156.20	56.20	21.70	18.60	9.30	5.90	
11	2.80	39.30	14.80	8.70	15.70	125.60	138.10	56.20	26.40	18.60	8.10	5.90	
12	3.30	7.70	23.90	10.00	21.70	795.20	121.70	56.20	27.90	17.60	8.70	5.90	
13	5.20	6.80	23.90	8.70	37.50	1197.00	114.30	51.60	27.90	19.60	8.10	6.40	
14	4.10	12.60	14.10	11.30	22.70	475.30	107.00	51.60	27.90	20.60	8.10	6.80	
15	3.80	17.60	11.90	23.90	16.70	207.90	100.00	49.40	26.40	18.60	8.10	5.90	
16	2.40	20.60	11.90	31.00	19.60	138.10	107.00	47.30	25.00	17.60	8.10	5.90	
17	1.60	96.50	10.60	15.70	58.50	100.00	207.90	47.30	25.00	17.60	8.10	5.90	
18	1.60	114.30	10.60	10.00	56.20	89.90	313.40	45.10	25.00	15.70	8.10	5.90	
19	2.40	83.60	10.60	9.30	86.80	366.90	147.00	45.10	25.00	14.80	8.10	5.20	
20	4.10	45.10	11.30	8.70	207.90	142.50	118.00	43.10	25.00	14.80	8.10	5.20	
21	2.20	12.60	9.30	11.90	96.50	138.10	110.60	43.10	23.90	14.10	8.10	5.20	
22	1.80	7.20	7.70	11.30	58.50	133.70	100.00	41.00	23.90	14.10	8.10	5.20	
23	2.00	4.10	5.90	7.70	37.50	129.40	89.90	41.00	23.90	13.30	8.10	5.20	
24	5.50	3.10	5.90	6.80	27.90	103.50	83.60	39.30	23.90	13.30	7.70	5.20	
25	7.20	2.60	7.70	8.70	32.50	138.10	83.60	39.30	22.70	13.30	7.70	4.80	
26	2.60	2.80	15.70	11.90	151.60	125.60	77.60	39.30	22.70	13.30	7.20	4.80	
27	2.60	3.10	25.00	7.20	47.30	118.00	77.60	39.30	22.70	12.60	7.20	5.20	
28	1.80	5.20	14.80	5.50	32.50	291.70	74.60	37.50	22.70	12.60	7.20	5.20	
29	1.60	5.50	11.30	4.40	32.50	118.00	74.60	37.50	22.70	11.90	7.20	5.20	
30	1.50	13.30	8.70	4.40	74.60	86.80	74.60	35.80	21.70	11.90		4.80	
31		5.20		6.40	56.20		71.70		21.70	11.30		4.40	
Total	71.60	591.20	822.80	310.00	1582.60	6457.70	9313.80	1501.20	822.20	508.20	263.20	174.80	22419.30
Mean	2.40	19.10	27.40	10.00	51.10	215.30	300.40	50.00	26.50	16.40	9.10	5.60	
Max	7.20	114.30	291.70	31.00	207.90	1197.00	2090.40	68.90	35.80	20.60	14.10	6.80	2090.40
Min	0.80	1.60	4.40	4.40	12.60	49.40	71.70	35.80	21.70	11.30	7.20	4.40	0.80

WATER YEAR : 2011**PING RIVER BASIN****Nam Mae Wang at Ban Phan Ton , Chiang Mai (P.84)**

Lat 18 - 35 - 20 N Long 98 - 47 - 59 E

Location : on left bank at Ban Mae Chaem.

	Ban Phan Ton	Amphoe Mae Wang	Changwat Chiang Mai
Drainage Area	491 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2003-Cont'd		
Actual Measurement	2003-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.7464		
Remarks	Continued Sediment Station		

$$QS = 2.4898 QW^{1.60360}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.30	1.00	11.50	51.00	158.10	269.20	197.70	99.80	64.80	8.70	7.20	
2	0.20	1.00	4.00	11.50	147.70	121.20	2182.00	197.70	99.80	62.60	9.10	5.80	
3	0.20	1.20	11.50	13.30	111.90	236.30	2819.20	206.00	111.90	58.60	8.30	6.20	
4	0.20	2.00	37.80	16.40	118.20	181.40	2726.90	193.50	131.00	52.60	8.30	6.50	
5	0.20	2.40	43.50	15.40	48.00	245.20	1678.20	201.80	111.90	42.00	8.70	6.50	
6	0.40	4.00	412.30	13.30	22.60	1327.00	619.70	206.00	96.80	19.20	7.60	6.50	
7	0.50	1.70	105.60	5.90	28.50	1644.50	534.50	197.70	94.40	18.50	6.50	5.80	
8	2.00	2.90	58.60	2.70	12.10	309.40	512.10	193.50	96.80	18.50	6.50	3.10	
9	10.40	3.40	32.40	2.40	9.90	365.60	504.70	189.40	96.80	19.20	5.80	4.00	
10	0.40	24.90	13.30	2.20	8.80	461.20	454.10	189.40	96.80	14.50	6.90	3.60	
11	0.20	84.90	5.90	1.00	9.30	284.00	405.50	181.40	91.90	13.30	6.50	4.00	
12	0.40	18.40	12.10	2.00	48.00	405.50	372.10	185.40	87.10	12.70	6.50	5.50	
13	0.30	8.30	21.50	7.80	62.60	2657.70	359.10	177.40	91.90	13.90	6.90	5.80	
14	3.70	4.30	10.40	14.50	37.80	1627.90	340.80	169.50	89.40	11.50	6.50	6.90	
15	0.60	51.00	9.90	17.40	19.40	572.60	335.50	165.60	84.90	12.10	5.50	7.20	
16	0.20	26.10	9.90	19.40	33.70	468.30	335.50	165.60	87.10	13.30	5.50	5.50	
17	0.90	264.30	8.30	18.40	140.90	304.20	862.80	158.10	87.10	13.90	6.50	4.60	
18	1.20	189.40	19.40	4.70	137.50	335.50	778.50	158.10	82.50	12.70	6.50	2.50	
19	0.40	140.90	13.90	2.40	105.60	461.20	482.70	158.10	77.90	11.10	6.90	0.80	
20	0.50	69.00	23.70	7.30	314.50	504.70	346.20	154.70	71.30	10.30	6.50	3.80	
21	1.20	42.00	15.40	6.90	154.70	454.10	289.00	147.70	73.40	10.70	6.50	4.00	
22	0.40	19.40	11.50	5.50	108.70	512.10	294.10	134.20	71.30	12.70	6.50	3.80	
23	0.20	5.50	8.30	1.70	77.90	527.00	264.30	121.20	69.00	12.10	6.20	3.30	
24	1.50	0.90	7.80	1.00	66.80	335.50	279.00	121.20	71.30	11.10	6.20	2.30	
25	0.50	1.20	12.10	1.50	71.30	475.50	264.30	118.20	73.40	9.90	6.50	2.50	
26	1.20	5.50	33.70	1.40	173.40	335.50	264.30	114.90	77.90	9.10	6.50	2.30	
27	0.40	0.30	62.60	0.20	140.90	461.20	259.50	111.90	73.40	8.70	7.20	2.90	
28	0.30	2.40	32.40	0.20	77.90	808.60	227.50	108.70	73.40	9.10	6.50	4.60	
29	0.20	8.30	22.60	0.50	108.70	412.30	240.70	108.70	69.00	8.70	6.90	3.60	
30	0.30	33.70	15.40	0.20	365.60	330.20	245.20	105.60	66.80	9.10		2.90	
31		3.70		1.00	121.20		218.80		66.80	8.30		3.30	
Total	29.30	1023.30	1076.80	209.60	2935.10	17323.50	19766.00	4838.90	2672.80	604.80	199.20	137.30	50816.60
Mean	1.00	33.00	35.90	6.80	94.70	577.50	637.60	161.30	86.20	19.50	6.90	4.40	
Max	10.40	264.30	412.30	19.40	365.60	2657.70	2819.20	206.00	131.00	64.80	9.10	7.20	2819.20
Min	0.20	0.30	1.00	0.20	8.80	121.20	218.80	105.60	66.80	8.30	5.50	0.80	0.20

WATER YEAR : 2011**WANG RIVER BASIN****Wang River at Setuwaree Bridge , Lampang (W.1C)**

Lat 18 - 17 - 51 N Long 99 - 30 - 56 E

Location : on left bank at the bridge.

	Ban Setuwaree Bridge	Amphoe Mueang	Changwat Lampang
Drainage Area	3,478 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1996-Cont'd		
Actual Measurement	1996-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.8572		
Remarks	Continued Sediment Station		

$$QS = 0.8824 QW^{1.61940}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	157.30	52.00	235.50	472.20	3207.50	3273.50	3508.60	293.70	76.30	9.40	130.20	8.30	
2	189.00	130.20	223.50	434.80	19854.10	3576.90	6218.70	167.30	73.90	11.60	148.10	21.00	
3	109.20	217.60	223.50	788.90	19986.30	3109.50	7765.00	67.00	73.90	9.40	162.00	31.50	
4	293.70	667.80	235.50	839.50	8797.10	2861.60	2302.50	31.50	73.90	5.10	152.70	35.40	
5	751.70	409.90	229.50	346.10	4279.80	1082.70	3975.70	24.30	62.60	5.10	125.90	38.50	
6	764.00	434.80	279.30	97.30	2861.60	434.80	826.70	30.30	67.00	9.90	14.00	44.10	
7	776.40	401.70	217.60	54.10	2229.10	1347.80	260.20	178.00	82.20	8.30	7.30	54.10	
8	852.30	401.70	189.00	35.40	2180.60	2253.40	172.60	444.10	73.90	7.80	6.00	54.10	
9	878.20	167.30	167.30	25.50	1967.80	2982.20	279.30	308.30	67.00	9.40	7.30	50.00	
10	852.30	2454.90	162.00	36.70	1052.50	3975.70	109.20	481.70	69.30	9.40	6.40	56.20	
11	852.30	3975.70	194.60	330.80	1295.10	2037.80	353.80	500.90	69.30	7.80	9.40	25.50	
12	703.30	3938.30	189.00	97.30	2713.60	1609.20	301.00	632.90	69.30	8.80	18.90	22.10	
13	500.90	3508.60	178.00	36.70	2982.20	1923.00	229.50	644.50	34.10	10.40	9.90	50.00	
14	462.70	3012.60	67.00	31.50	2253.40	2253.40	223.50	656.10	12.70	9.90	60.40	26.60	
15	434.80	1670.30	30.30	139.00	1923.00	3863.90	194.60	125.90	13.30	10.40	211.80	17.80	
16	434.80	353.80	36.70	143.50	1732.20	4126.70	260.20	109.20	6.00	10.40	260.20	12.10	
17	434.80	167.30	139.00	418.10	839.50	3474.60	286.50	76.30	3.70	11.00	266.50	10.40	
18	361.60	235.50	29.00	591.10	1732.20	1690.80	279.30	148.10	3.70	9.90	279.30	10.40	
19	50.00	172.60	15.80	481.70	1690.80	703.30	194.60	157.30	3.40	9.90	71.60	13.30	
20	279.30	434.80	12.10	130.20	2156.60	580.80	143.50	148.10	3.10	9.40	46.10	11.60	
21	434.80	727.40	11.00	121.70	2426.80	1113.30	121.70	85.90	3.00	9.90	29.00	9.90	
22	444.10	691.40	11.00	121.70	1879.90	2684.40	121.70	71.60	3.10	8.30	17.80	5.50	
23	361.60	679.50	11.00	40.40	1098.00	1649.80	121.70	35.40	4.70	3.90	12.70	3.90	
24	346.10	632.90	11.60	50.00	1037.50	2061.40	109.20	30.30	4.70	3.60	6.90	4.70	
25	353.80	611.90	17.80	93.50	1037.50	3109.50	101.20	18.90	3.90	3.60	4.70	6.40	
26	82.20	656.10	247.70	622.40	1128.70	3826.90	152.70	18.90	4.30	3.40	3.90	11.60	
27	62.60	550.30	481.70	560.40	3542.70	3901.00	40.40	18.90	3.90	3.10	3.70	16.80	
28	97.30	426.50	1037.50	134.60	1312.60	4203.00	22.10	19.90	5.10	2.80	5.50	15.80	
29	97.30	401.70	656.10	93.50	1037.50	6016.70	18.90	36.70	4.30	2.80	8.30	12.70	
30	105.20	418.10	540.30	82.20	814.00	3863.90	46.10	76.30	5.50	3.60		11.00	
31		286.50		211.80	491.30		315.70		7.30	73.90		11.00	
Total	12523.60	28889.70	6079.90	7662.60	101541.50	79591.50	29056.40	5638.30	988.40	302.20	2086.50	702.30	275062.90
Mean	417.50	931.90	202.70	247.20	3275.50	2653.10	937.30	187.90	31.90	9.70	71.90	22.70	
Max	878.20	3975.70	1037.50	839.50	19986.30	6016.70	7765.00	656.10	82.20	73.90	279.30	56.20	19986.30
Min	50.00	52.00	11.00	25.50	491.30	434.80	18.90	18.90	3.00	2.80	3.70	3.90	2.80

WATER YEAR : 2011**WANG RIVER BASIN****Wang River at Ban Don Chai , Lampang (W.3A)**

Lat 17 - 38 - 28 N Long 99 - 14 - 01 E

Location : on right bank about 30 meters upstream from Siriyong Bridge.

	Ban	Don Chai	Amphoe	Thoen	Changwat	Lampang
Drainage Area	8,924	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1997-Cont'd					
Actual Measurement	1997-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	36					
R-Square	0.9569					
Remarks	Continued Sediment Station					

$$QS = 0.1407 QW^{1.85850}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	16.30	169.00	473.20	1090.50	742.90	4028.90	7887.50	773.30	174.60	57.90	42.50	42.50	
2	36.50	60.00	311.60	758.00	15686.30	4330.30	11550.90	727.90	180.30	57.90	40.70	42.50	
3	50.90	50.90	271.60	900.70	43517.50	5183.00	39431.30	602.90	180.30	60.00	97.70	46.60	
4	33.20	241.40	248.80	2177.30	60097.50	4280.90	75240.10	484.40	174.60	60.00	209.80	65.70	
5	26.10	390.10	311.60	2622.30	38026.20	3242.00	87781.80	380.90	174.60	63.00	203.70	87.20	
6	27.80	542.10	554.10	1237.20	13944.10	2445.90	49263.50	319.90	169.00	63.00	174.60	94.50	
7	22.90	758.00	1325.30	554.10	9038.40	2696.40	14184.10	311.60	152.80	60.00	116.10	94.50	
8	26.10	495.70	1130.10	311.60	7246.70	4280.90	5072.50	328.40	163.50	65.70	84.20	94.50	
9	29.70	390.10	628.00	203.70	6189.60	4747.80	3323.70	419.00	169.00	84.20	60.00	108.70	
10	40.70	8397.10	363.00	180.30	5019.40	5352.40	3002.50	380.90	163.50	74.90	55.40	108.70	
11	44.70	28713.50	256.30	287.30	4590.80	10197.00	2143.60	311.60	152.80	77.80	50.90	119.70	
12	46.60	19199.50	263.90	530.40	9805.20	9323.10	1985.40	303.40	147.50	74.90	50.90	116.10	
13	33.20	8397.10	287.30	354.20	10605.30	9900.20	1691.80	311.60	142.40	74.90	50.90	97.70	
14	14.70	5183.00	234.90	147.50	8672.30	11983.20	1474.10	319.90	127.40	71.60	57.90	127.40	
15	13.20	4747.80	112.10	137.30	6440.10	11444.00	1090.50	319.90	127.40	74.90	65.70	142.40	
16	11.70	3981.10	55.40	354.20	5882.90	12655.40	1303.90	319.90	116.10	90.80	147.50	123.80	
17	7.20	2177.30	33.20	2015.70	5129.30	9805.20	2112.40	311.60	101.50	90.80	186.00	104.80	
18	5.50	3456.30	31.20	2377.40	4330.30	6631.00	3833.60	287.30	90.80	87.20	209.80	90.80	
19	5.50	6189.60	127.40	1554.10	7325.40	4854.90	3161.20	311.60	74.90	87.20	203.70	87.20	
20	7.80	4536.90	152.80	1237.20	5294.50	4590.80	2048.50	295.30	60.00	84.20	174.60	87.20	
21	15.40	3549.00	142.40	655.00	8397.10	3930.70	1474.10	256.30	57.90	81.20	127.40	94.50	
22	108.70	2177.30	123.80	451.20	10000.20	3456.30	1173.70	228.50	55.40	81.20	112.10	90.80	
23	174.60	1396.10	65.70	328.40	6567.10	4910.60	1049.90	197.70	53.30	77.80	94.50	74.90	
24	147.50	1049.90	38.60	209.80	3201.50	3691.40	884.30	147.50	53.30	71.60	84.20	63.00	
25	169.00	727.90	29.70	169.00	2309.80	3981.10	773.30	127.40	53.30	60.00	71.60	50.90	
26	328.40	820.10	46.60	263.90	3930.70	5019.40	727.90	119.70	57.90	53.30	57.90	44.70	
27	174.60	1194.10	507.10	566.10	8397.10	6858.90	640.80	119.70	60.00	48.50	50.90	46.60	
28	55.40	1069.30	3161.20	640.80	6858.90	10708.50	578.20	116.10	55.40	48.50	48.50	57.90	
29	60.00	820.10	3161.20	295.30	5129.30	14061.20	484.40	112.10	57.90	46.60	46.60	74.90	
30	77.80	683.70	1953.10	203.70	3833.60	14545.00	399.30	123.80	60.00	44.70		87.20	
31		590.50		209.80	4590.80		507.10		57.90	42.50		87.20	
Total	1811.70	112154.50	16401.20	23024.00	330800.80	203136.40	326275.90	9370.10	3465.30	2116.80	2976.30	2655.1 1	34188.30
Mean	60.40	3617.90	546.70	742.70	10671.00	6771.20	10525.00	312.30	111.80	68.30	102.60	85.60	
Max	328.40	28713.50	3161.20	2622.30	60097.50	14545.00	87781.80	773.30	180.30	90.80	209.80	142.40	87781.80
Min	5.50	50.90	29.70	137.30	742.90	2445.90	399.30	112.10	53.30	42.50	40.70	42.50	5.50

WATER YEAR : 2011**WANG RIVER BASIN****Wang River at Ban Wang Man , Tak (W.4A)**

Lat 17 - 12 - 19 N Long 99 - 06 - 05 E

Location : on left bank about 200 meters upstream from the bridge on highway.

	Ban Wang Man	Amphoe Sam Ngao	Changwat Tak
Drainage Area	10,439 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1989-Cont'd		
Actual Measurement	1989-Cont'd		
Using Rating Curve Water Year	1989-2011		
Number of observation	394		
R-Square	0.9149		
Remarks	Continued Sediment Station		

$$QS = 1.7411 QW^{1.44810}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.00	239.80	1315.70	2485.20	561.70	7745.10	16075.40	967.40	249.10	32.80	13.00	22.20	
2	25.60	287.40	1098.30	1929.10	1412.80	7414.80	14985.80	1731.60	253.80	31.60	13.90	17.90	
3	53.90	194.90	893.40	1357.10	11871.30	7701.00	14865.30	1701.80	277.70	30.40	19.00	17.90	
4	96.50	149.00	720.00	1188.30	15106.60	8324.90	22111.10	1357.10	297.30	31.60	157.10	17.90	
5	100.00	272.90	774.30	2220.10	16889.70	7701.00	27681.40	1222.70	282.60	32.80	203.70	17.90	
6	67.50	488.00	1010.40	3547.20	24762.80	6393.70	21858.10	1098.30	277.70	45.40	249.10	24.50	
7	56.10	782.60	1441.00	2658.90	30175.30	5442.10	19378.50	801.10	268.10	43.30	230.60	43.30	
8	65.20	1109.40	2238.60	1109.40	27681.40	5610.20	13326.20	710.30	268.10	39.30	226.00	49.60	
9	69.90	1098.30	1975.60	754.40	13326.20	7214.90	12732.50	630.70	253.80	45.40	212.50	60.60	
10	79.50	956.70	1302.00	531.80	10896.80	7616.50	9882.70	1054.10	244.40	60.60	62.90	67.50	
11	93.00	5745.80	872.60	524.40	9475.60	8825.60	8190.00	914.30	235.20	53.90	53.90	69.90	
12	100.00	12891.10	622.90	700.60	9009.80	11716.80	6702.90	728.20	226.00	43.30	43.30	86.20	
13	96.50	13130.00	584.40	903.90	10503.20	12970.60	5745.80	561.70	221.50	45.40	26.80	96.50	
14	72.20	9678.50	622.90	801.10	10615.20	15106.60	4870.90	509.80	217.00	45.40	23.30	86.20	
15	47.40	7095.70	524.40	473.60	10727.60	16725.80	3643.50	509.80	203.70	45.40	23.30	82.80	
16	37.30	6470.60	403.90	397.10	9428.70	17550.00	3357.00	569.20	173.60	47.40	23.30	153.00	
17	31.60	5711.80	282.60	821.30	9831.50	17550.00	4608.60	554.20	133.30	58.30	47.40	114.40	
18	26.80	4783.00	208.10	2359.70	8688.10	16562.50	5197.50	615.20	103.60	60.60	194.90	89.60	
19	22.20	5408.70	177.80	3571.20	8190.00	12891.10	6355.40	509.80	93.00	58.30	173.60	60.60	
20	16.90	7701.00	317.30	2698.00	9475.60	9627.70	6126.90	524.40	89.60	56.10	173.60	34.10	
21	21.10	6202.80	377.00	2271.00	8234.90	8324.90	5077.90	495.20	67.50	56.10	212.50	49.60	
22	30.40	5378.30	363.70	1426.90	9526.20	7414.80	4322.50	561.70	49.60	56.10	173.60	67.50	
23	100.00	4162.00	337.70	1010.40	10191.50	6432.10	3057.50	488.00	29.10	53.90	110.80	58.30	
24	244.40	2678.40	268.10	841.70	9882.70	8460.60	2562.00	445.30	17.90	53.90	86.20	45.40	
25	287.40	2101.30	217.00	622.90	6586.40	6702.90	2151.30	397.10	35.40	49.60	65.20	35.40	
26	302.30	1791.70	203.70	509.80	5442.10	8145.10	2006.80	332.50	34.10	43.30	56.10	25.60	
27	417.50	1761.50	337.70	903.90	7833.40	8145.10	1441.00	302.30	39.30	43.30	41.30	20.00	
28	438.30	2038.20	554.20	1199.80	9288.40	9934.00	1343.20	272.90	41.30	43.30	27.90	19.00	
29	212.50	2006.80	3016.80	1329.50	9381.90	11180.80	1247.70	244.40	39.30	17.90	25.60	17.90	
30	169.40	1852.40	3765.00	1021.30	8505.90	12891.10	1188.30	226.00	32.80	19.00		17.90	
31		1412.80		546.70	7657.00		1109.40		32.80	14.90		19.00	
Total	3400.40	115581.40	26827.10	42716.30	341160.30	298322.30	253203.10	21037.10	4788.20	1358.60	2970.40	1588.20	1112953.60
Mean	113.30	3728.40	894.20	1377.90	11005.20	9944.10	8167.80	701.20	154.50	43.80	102.40	51.20	
Max	438.30	13130.00	3765.00	3571.20	30175.30	17550.00	27681.40	1731.60	297.30	60.60	249.10	153.00	30175.30
Min	16.90	149.00	177.80	397.10	561.70	5442.10	1109.40	226.00	17.90	14.90	13.00	17.90	13.00

WATER YEAR : 2011**WANG RIVER BASIN****Nam Mae Soi at Ban Nong Nao , Lampang (W.17)**

Lat 18 - 43 - 13 N Long 99 - 34 - 04 E

Location : on right at the bridge of Lampang - Wang Nua Road.

	Ban	Nong Nao	Amphoe	Chae Hom	Changwat	Lampang
Drainage Area	726	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1996-Cont'd					
Actual Measurement	1996-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	36					
R-Square	0.9421					
Remarks	Continued Sediment Station					

$$QS = 0.3881 QW^{2.11760}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.30	24.20	11.70	35.10	45474.10	810.10	1816.20	297.90	36.40	12.70	8.00	2.40	
2	0.30	26.20	28.30	26.20	12308.60	835.80	3858.30	311.20	33.20	14.10	8.70	1.50	
3	0.30	28.30	20.40	61.70	5655.20	471.60	1557.90	247.80	39.80	14.10	8.70	1.30	
4	0.10	32.70	18.80	37.50	1304.30	353.00	2743.10	283.40	36.40	14.10	8.70	1.20	
5	0.10	22.30	24.20	24.20	595.40	595.40	1985.80	166.40	36.40	10.20	8.00	1.00	
6	0.10	18.80	202.50	20.40	415.20	2411.50	1186.70	146.90	30.10	11.00	5.50	0.90	
7	0.80	14.30	61.70	13.00	397.50	10918.10	1074.90	146.90	28.00	10.20	3.60	0.90	
8	1.00	14.30	30.50	6.60	367.50	1928.10	1074.90	137.70	28.00	10.20	2.80	0.80	
9	2.50	18.80	18.80	14.30	367.50	1074.90	900.80	120.10	33.20	9.50	3.20	0.80	
10	22.30	4828.70	15.80	79.60	297.90	710.50	868.20	120.10	30.10	10.20	3.60	0.80	
11	8.30	734.50	11.70	397.50	1471.40	573.90	784.30	111.80	30.10	9.50	3.60	0.70	
12	5.80	122.80	11.70	49.80	1003.40	759.00	810.10	111.80	28.00	10.20	3.60	1.20	
13	13.00	65.90	11.70	24.20	710.50	1761.90	734.50	111.80	26.00	9.50	5.50	2.40	
14	18.80	53.60	9.40	32.70	353.00	2411.50	662.80	137.70	26.00	10.20	5.00	2.80	
15	4.00	42.60	5.80	662.80	285.00	1471.40	617.30	103.70	28.00	11.00	5.00	7.30	
16	1.40	35.10	7.30	285.00	224.60	900.80	784.30	74.90	17.10	8.00	5.00	3.20	
17	0.50	49.80	5.80	137.30	259.90	784.30	900.80	59.40	15.60	8.00	4.00	1.80	
18	0.40	65.90	6.60	57.60	311.20	595.40	1003.40	59.40	18.70	7.30	5.00	1.50	
19	10.50	102.70	10.50	42.60	2162.70	759.00	868.20	55.20	18.70	7.30	4.00	1.00	
20	11.70	382.30	13.00	102.70	1038.60	868.20	734.50	55.20	15.60	6.70	3.20	0.90	
21	2.50	70.30	11.70	61.70	734.50	784.30	617.30	55.20	11.90	7.30	4.00	0.90	
22	1.20	35.10	11.70	37.50	452.60	1038.60	595.40	51.10	12.70	8.70	3.20	0.70	
23	7.30	15.80	11.70	24.20	311.20	1264.60	552.40	55.20	14.10	8.00	2.80	0.60	
24	28.30	14.30	9.40	144.90	272.30	6684.40	367.50	47.20	14.10	6.70	2.80	0.50	
25	35.10	14.30	5.80	968.40	259.90	2886.40	324.80	43.40	15.60	5.00	2.80	0.40	
26	49.80	37.50	7.30	162.00	1386.20	1264.60	311.20	43.40	15.60	5.50	3.20	0.40	
27	14.30	22.30	5.80	46.20	5778.90	1386.20	338.80	39.80	12.70	5.50	3.20	0.50	
28	8.30	17.20	6.60	30.50	1304.30	3435.40	324.80	33.20	10.20	5.50	2.80	0.50	
29	5.20	15.80	10.50	26.20	471.60	4036.10	338.80	36.40	12.70	5.50	2.80	0.50	
30	4.00	18.80	13.00	24.20	2162.70	2162.70	531.40	36.40	14.10	6.10		0.30	
31		15.80		224.60	835.80		367.50		14.10	8.00		0.50	
Total	258.20	6961.00	619.70	3861.20	88973.50	55937.70	29636.90	3300.60	703.20	275.80	132.30	40.20	190700.30
Mean	8.60	224.50	20.70	124.60	2870.10	1864.60	956.00	110.00	22.70	8.90	4.60	1.30	
Max	49.80	4828.70	202.50	968.40	45474.10	10918.10	3858.30	311.20	39.80	14.10	8.70	7.30	45474.10
Min	0.10	14.30	5.80	6.60	224.60	353.00	311.20	33.20	10.20	5.00	2.80	0.30	0.10

WATER YEAR : 2011**WANG RIVER BASIN****Wang River at Ban Tha Dua , Lampang (W.21)**

Lat 18 - 20 - 18 N Long 99 - 32 - 27 E

Location : on left bank at the bridge on highway.

	Ban Tha Dua	Amphoe Mueang	Changwat Lampang
Drainage Area	3,367 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1999-Cont'd		
Actual Measurement	1999-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.8409		
Remarks	Continued Sediment Station		

$$QS = 1.2715 QW^{1.48280}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	169.90	15.90	307.50	506.40	6613.90	2434.90	2468.50	338.40	135.50	5.90	189.30	6.20	
2	163.50	86.70	302.50	493.60	6354.20	2639.70	3807.00	214.30	123.60	7.30	193.40	32.50	
3	106.80	173.20	297.40	750.90	5871.50	2284.70	3916.00	96.60	114.90	4.10	210.00	50.00	
4	104.30	579.00	312.60	766.80	4723.30	2137.90	1649.50	46.30	117.80	3.00	205.90	53.80	
5	106.80	348.90	302.50	359.50	3135.70	994.00	2170.40	34.20	94.10	5.90	160.30	59.60	
6	109.50	343.60	302.50	106.80	3720.50	468.10	650.40	57.70	106.80	7.30	9.00	70.30	
7	117.80	328.00	244.80	63.60	2889.60	1387.80	267.90	59.60	132.50	5.50	2.80	81.90	
8	138.50	302.50	222.90	34.20	2154.20	1866.80	222.90	244.80	117.80	4.70	3.00	79.60	
9	144.60	193.40	210.00	19.30	1610.20	2367.80	365.30	144.60	112.00	5.90	4.70	74.90	
10	144.60	1509.00	214.30	59.60	1662.60	2468.50	169.90	41.00	112.00	8.10	3.00	77.20	
11	150.80	2743.90	249.20	365.30	3256.40	1496.70	443.30	39.20	109.50	5.20	6.50	20.40	
12	144.60	3002.40	244.80	120.70	3154.90	1340.20	328.00	104.30	109.50	4.90	21.60	22.80	
13	114.90	2743.90	231.60	50.00	3078.30	1546.00	138.50	109.50	79.60	6.20	5.50	70.30	
14	14.90	2519.50	89.20	46.30	2536.50	1809.30	218.70	160.30	34.20	6.20	112.00	29.30	
15	7.30	1214.10	30.90	144.60	2605.10	2726.50	249.20	166.70	6.20	6.50	282.50	19.30	
16	5.90	376.90	21.60	210.00	2434.90	2691.80	302.50	157.10	2.30	5.50	328.00	8.10	
17	5.50	244.80	22.80	519.30	2536.50	2384.50	292.40	117.80	1.70	5.90	328.00	5.20	
18	5.90	263.00	21.60	642.90	2570.80	1143.80	297.40	197.50	1.30	5.20	312.60	8.10	
19	37.50	177.10	6.50	525.90	1571.40	665.70	214.30	210.00	0.90	5.20	86.70	11.80	
20	253.70	487.20	4.40	163.50	2605.10	565.70	166.70	201.70	0.70	5.20	65.90	5.90	
21	317.70	782.70	4.10	157.10	3422.80	1153.80	147.70	132.50	0.90	5.50	41.00	4.70	
22	322.80	758.70	3.30	147.70	2709.10	2076.20	160.30	112.00	1.20	4.40	14.90	1.30	
23	267.90	727.20	4.10	50.00	1610.20	1423.80	163.50	55.70	1.10	3.30	5.90	1.00	
24	258.20	711.60	3.60	74.90	1203.90	1702.10	150.80	46.30	0.90	2.80	2.60	1.30	
25	263.00	704.00	9.00	144.60	1295.90	2401.20	144.60	21.60	1.10	1.70	1.10	2.10	
26	41.00	719.50	201.70	758.70	975.90	2674.20	91.60	19.30	1.30	1.70	1.10	6.20	
27	35.80	613.10	412.70	558.90	1911.10	2691.80	53.80	20.40	1.90	1.00	1.10	10.90	
28	57.70	487.20	975.90	163.50	1823.00	2815.20	15.90	21.60	2.60	0.80	1.90	9.90	
29	61.60	487.20	658.00	132.50	1675.90	3677.40	11.80	68.10	2.80	0.70	4.70	8.10	
30	63.60	468.10	539.10	112.00	2317.90	2639.70	57.70	123.60	2.80	2.10		6.20	
31		348.90		437.10	2691.80		338.40		4.40	205.90		7.30	
Total	3736.60	24461.20	6451.10	8686.20	86723.10	58675.80	19674.90	3362.70	1533.90	343.60	2605.00	846.20	217100.30
Mean	124.60	789.10	215.00	280.20	2797.50	1955.90	634.70	112.10	49.50	11.10	89.80	27.30	
Max	322.80	3002.40	975.90	766.80	6613.90	3677.40	3916.00	338.40	135.50	205.90	328.00	81.90	6613.90
Min	5.50	15.90	3.30	19.30	975.90	468.10	11.80	19.30	0.70	0.70	1.10	1.00	0.70

WATER YEAR : 2011**WANG RIVER BASIN****Wang River at Ban Chiang Rai , Tak (W.23)**

Lat 17 - 22 - 01 N Long 99 - 06 - 55 E

Location : on left bank at Amphoe Sam Ngao.

	Ban Chiang Rai	Amphoe Sam Ngao	Changwat Tak
Drainge Area	9,930 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2001-Cont'd		
Actual Measurement	2001-Cont'd		
Using Rating Curve Water Year	2001-2011		
Number of observation	172		
R-Square	0.9438		
Remarks	Continued Sediment Station		

$$QS = 0.8819 QW^{1.59090}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	49.00	212.30	751.30	1435.40	463.50	6359.50	17778.90	868.00	178.90	50.90	20.40	34.40	
2	72.60	208.00	621.70	1206.50	3138.20	5732.80	12075.90	985.10	242.00	50.90	21.80	38.30	
3	108.60	170.90	472.10	796.50	18962.80	7967.20	20391.30	842.70	237.50	50.90	148.60	34.40	
4	128.50	170.90	482.30	906.40	26693.80	7541.60	36000.00	761.70	226.40	60.10	208.00	36.60	
5	93.90	399.10	705.40	2237.40	39147.30	5652.50	51029.00	695.40	216.60	62.80	246.60	52.80	
6	83.70	610.50	673.80	1955.60	39671.40	3765.00	83457.20	631.40	222.00	62.80	305.80	72.60	
7	80.00	705.40	1149.60	998.40	24124.90	3324.50	58123.10	499.90	212.30	60.10	212.30	83.70	
8	93.90	739.30	1435.40	631.40	15086.60	4137.70	26312.60	472.10	193.20	77.70	105.20	89.90	
9	89.90	558.80	945.40	443.50	10208.70	6782.80	11483.20	399.10	198.50	93.90	74.80	101.10	
10	101.10	1235.30	685.40	347.40	8204.20	7404.40	6825.70	673.80	202.70	77.70	55.40	116.20	
11	108.60	12562.00	491.10	499.90	7586.20	8986.40	4232.00	453.50	193.20	72.60	49.00	124.00	
12	116.20	18803.40	399.10	520.80	8741.30	14882.70	3405.50	399.10	193.20	72.60	44.70	132.10	
13	116.20	14815.00	417.00	673.80	14077.60	16852.40	2752.70	372.30	188.10	72.60	36.60	132.10	
14	86.80	6825.70	381.60	425.30	13369.30	18565.10	2034.70	425.30	184.00	72.60	36.60	101.10	
15	58.10	4630.90	305.80	267.30	10721.00	18406.80	1417.90	408.70	170.90	72.60	58.10	184.00	
16	46.60	4264.80	212.30	291.20	8350.90	17623.20	1858.30	499.90	144.90	67.60	49.00	162.10	
17	42.30	3351.40	157.20	1052.50	8204.20	17468.00	2278.90	463.50	112.80	72.60	188.10	136.60	
18	36.60	3164.60	128.50	2196.30	6527.60	13812.90	4079.50	417.00	89.90	74.80	237.50	108.60	
19	33.30	5887.20	170.90	2135.20	7493.10	9612.50	5887.20	417.00	101.10	69.80	298.40	86.80	
20	33.30	6317.70	252.30	1688.00	9190.50	7128.70	3514.70	453.50	64.80	64.80	291.20	83.70	
21	42.30	4297.60	259.20	1206.50	8986.40	6955.00	2362.50	443.50	62.80	67.60	184.00	108.60	
22	93.90	3138.20	252.30	751.30	11365.00	5289.40	1763.00	435.10	40.00	62.80	132.10	101.10	
23	184.00	2054.60	232.00	685.40	12018.10	6401.40	1488.20	347.40	49.00	60.10	112.80	80.00	
24	246.60	1470.50	166.00	540.40	7493.10	6825.70	1093.70	322.00	50.90	58.10	93.90	60.10	
25	232.00	1163.70	124.00	372.30	3033.60	4664.80	1135.50	282.70	44.70	50.90	74.80	49.00	
26	291.20	1038.90	119.70	364.40	3138.20	8062.50	998.40	237.50	60.10	34.40	62.80	36.60	
27	399.10	1206.50	237.50	610.50	9453.40	8690.00	855.30	222.00	50.90	26.50	50.90	34.40	
28	216.60	1338.20	1293.70	868.00	9559.30	11421.70	761.70	193.20	46.60	64.80	40.00	33.30	
29	148.60	1264.40	2603.80	739.30	8741.30	15635.20	673.80	178.90	50.90	26.50	34.40	38.30	
30	193.20	1025.30	2341.50	453.50	6697.30	18249.10	652.40	174.90	49.00	24.10		60.10	
31		685.40		364.40	6782.80		631.40		60.10	20.40		74.80	
Total	3626.70	104316.50	18467.90	27664.80	367231.60	294201.50	367354.20	13976.20	4138.00	1856.60	3473.80	2587.40	1208895.30
Mean	120.90	3365.00	615.60	892.40	11846.20	9806.70	11850.10	465.90	133.50	59.90	119.80	83.50	
Max	399.10	18803.40	2603.80	2237.40	39671.40	18565.10	83457.20	985.10	242.00	93.90	305.80	184.00	83457.20
Min	33.30	170.90	119.70	267.30	463.50	3324.50	631.40	174.90	40.00	20.40	20.40	33.30	20.40

WATER YEAR : 2011**WANG RIVER BASIN****Wang River at Ban Huai Kod , Lampang (W.25)**

Lat 19 - 02 - 09 N Long 99 - 37 - 10 E

Location : on right bank at Ban Huai Kod.

	Ban Huai Kod	Amphoe Wang Nua	Changwat Lampang
Drainage Area	762 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.9386		
Remarks	Continued Sediment Station		

$$QS = 91.0300 QW^{1.28520}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.30	971.40	611.20	1161.20	68626.00	3870.40	12217.60	900.70	1714.90	16.90	0.60	0.60	
2	7.30	1110.00	1069.40	1265.10	24092.80	3611.50	12433.20	689.00	1498.20	16.90	0.60	0.60	
3	7.30	1533.10	1403.00	1424.50	13800.80	2774.90	5436.90	525.10	1288.20	13.00	1.00	0.60	
4	6.00	2007.40	910.50	1009.10	5436.90	1665.70	3870.40	656.10	1085.60	4.10	9.30	0.60	
5	7.30	4086.80	621.90	589.80	3437.70	3354.20	2692.70	757.50	1085.60	3.00	3.00	0.60	
6	9.30	10932.00	1059.30	757.50	2855.00	4086.80	2077.40	656.10	705.50	9.30	0.60	0.60	
7	7.30	2692.70	1059.30	1714.90	2692.70	3781.90	1732.90	724.00	219.00	4.10	0.60	0.60	
8	9.30	1265.10	525.10	705.50	6897.00	2774.90	1599.10	589.80	367.20	4.10	0.60	0.60	
9	7.30	1009.10	472.20	91.00	7050.20	12653.00	1869.00	793.30	82.90	13.00	0.60	0.20	
10	7.30	17088.90	1403.00	757.50	7358.80	4638.90	1599.10	793.30	52.30	7.30	0.60	0.20	
11	7.30	9679.20	1755.40	793.30	9269.20	2855.00	1265.10	656.10	38.30	3.00	0.60	0.20	
12	7.30	3019.40	705.50	656.10	16809.00	18218.40	1161.20	621.90	52.30	3.00	0.60	0.20	
13	9.30	1937.90	38.30	372.00	14879.40	20388.20	935.90	558.10	38.30	9.30	0.60	0.20	
14	75.00	1599.10	16.90	910.50	5553.20	14337.80	900.70	525.10	15.30	15.30	0.60	0.20	
15	891.00	1009.10	45.20	900.70	3611.50	13310.70	827.50	492.50	13.00	31.70	0.60	0.20	
16	67.20	935.90	45.20	4416.20	2692.70	6023.50	1009.10	462.10	16.90	59.70	0.60	0.20	
17	38.30	1370.90	45.20	5321.20	2613.60	4416.20	3870.40	430.50	15.30	38.30	0.60	0.20	
18	11.50	1265.10	82.90	2219.00	3524.40	3611.50	4751.20	341.90	9.30	25.40	0.60	0.20	
19	9.30	1265.10	45.20	1665.70	10722.60	6023.50	2935.70	341.90	16.90	9.30	0.60	0.20	
20	9.30	1424.50	45.20	2007.40	5670.00	13091.90	1533.10	341.90	15.30	1.50	0.60	0.20	
21	11.50	971.40	16.90	1424.50	6441.90	5206.10	1161.20	611.20	16.90	1.50	0.60	0.20	
22	13.00	863.90	15.30	1161.20	6592.80	8621.60	935.90	611.20	15.30	1.50	0.60	0.20	
23	19.40	558.10	9.30	689.00	4527.30	4864.00	900.70	611.20	13.00	1.50	0.60	0.20	
24	1069.40	1233.70	13.00	621.90	5091.50	5321.20	757.50	910.50	11.50	1.00	0.60	0.20	
25	656.10	462.10	31.70	4751.20	3185.80	3978.30	724.00	1403.00	11.50	1.00	0.60	0.20	
26	558.10	621.90	17934.50	2077.40	13800.80	2613.60	462.10	1577.00	13.00	1.00	0.60	0.20	
27	525.10	656.10	14337.80	1265.10	18218.40	3019.40	372.00	1937.90	19.40	1.00	0.60	0.60	
28	910.50	656.10	4751.20	757.50	7050.20	11142.40	462.10	1937.90	38.30	0.60	0.60	0.60	
29	1069.40	525.10	2452.10	757.50	5321.20	10299.70	401.00	1937.90	38.30	0.60	0.60	0.60	
30	1937.90	793.30	1265.10	525.10	7514.20	6291.80	2007.40	1714.90	16.90	0.60		0.20	
31		558.10		6441.90	4864.00		1478.60		16.90	0.60		0.20	
Total	7971.60	74102.50	52786.80	49210.50	300201.60	206847.00	74380.70	25109.60	8541.30	299.10	28.90	10.60	799490.30
Mean	265.70	2390.40	1759.60	1587.40	9683.90	6894.90	2399.40	837.00	275.50	9.60	1.00	0.30	
Max	1937.90	17088.90	17934.50	6441.90	68626.00	20388.20	12433.20	1937.90	1714.90	59.70	9.30	0.60	68626.00
Min	6.00	462.10	9.30	91.00	2613.60	1665.70	372.00	341.90	9.30	0.60	0.60	0.20	0.20

WATER YEAR : 2011**Yom RIVER BASIN****Yom River at Ban Nam Khong , Phrae (Y.1C)**

Lat 18 - 07 - 57 N Long 100 - 07 - 42 E

Location : on right bank about 5 meters downstream from Phathana Phak Nua 8 Bridge.

	Ban Nam Khong	Amphoe Mueang	Changwat Phrae
Drainage Area	7,749 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	35		
R-Square	0.9085		
Remarks	Continued Sediment Station		

$$QS = 0.5083 QW^{1.71450}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.50	283.70	4285.50	11764.70	109161.80	7082.10	7673.00	688.70	189.40	30.30	35.00	4.60	
2	11.00	1074.00	1657.70	5701.00	162860.20	10986.10	25430.30	566.90	189.40	27.20	35.00	3.70	
3	7.50	1348.60	1094.20	3986.50	156349.10	10502.30	45050.70	552.40	189.40	18.90	38.10	3.70	
4	6.40	3221.00	598.10	3819.70	82027.30	6288.30	31079.50	523.80	189.40	16.50	38.10	3.70	
5	5.50	3495.10	833.50	3655.90	29947.60	6178.20	19981.20	482.10	173.20	18.90	38.10	6.40	
6	5.50	2312.50	1218.60	2028.60	14966.80	15684.90	10094.90	468.60	157.70	18.90	38.10	6.40	
7	8.60	2460.10	10570.90	1304.70	10502.30	20081.60	6455.10	428.80	135.50	18.90	41.30	5.50	
8	6.40	2371.10	11126.00	943.00	16509.40	19881.10	4910.20	415.90	121.60	27.20	38.10	5.50	
9	18.00	1261.40	3022.80	854.60	15957.70	21302.20	4416.40	441.90	108.20	36.80	35.00	5.50	
10	29.10	1282.90	1532.80	1053.90	12347.70	20485.10	4028.70	382.30	121.60	30.30	32.00	1.70	
11	12.30	17540.90	833.50	1304.70	30070.60	18989.20	3861.20	468.60	121.60	24.30	32.00	5.50	
12	6.40	33174.00	396.10	2957.90	94790.30	11764.70	3221.00	404.60	108.20	27.20	35.00	7.50	
13	4.60	6399.30	259.80	2168.60	127251.70	12423.90	2925.70	349.80	101.80	27.20	32.00	41.30	
14	3.70	2400.60	183.30	1304.70	59358.30	21508.50	2798.30	328.90	101.80	30.30	29.10	44.60	
15	3.00	2001.10	101.80	2028.60	23732.50	20892.00	2400.60	318.60	89.40	33.50	22.80	41.30	
16	3.00	1508.40	74.90	25201.10	14789.50	19981.20	2611.60	328.90	59.30	33.50	26.30	41.30	
17	8.60	1865.80	66.70	42283.60	12963.30	13916.20	4329.00	371.30	40.20	24.30	29.10	38.10	
18	22.80	4372.60	59.00	21508.50	20892.00	9430.90	4416.40	371.30	36.80	27.20	24.60	74.90	
19	18.00	6794.10	79.20	10639.60	20892.00	6288.30	3022.80	318.60	33.50	24.30	48.10	83.50	
20	8.60	9430.90	55.20	6288.30	41382.40	8407.80	2225.70	288.60	27.20	18.90	26.30	70.80	
21	5.50	10434.00	26.30	5054.70	41382.40	14701.20	1683.20	278.80	24.30	18.90	26.30	32.00	
22	1.60	3221.00	22.80	4329.00	53186.40	12808.20	1415.70	278.80	24.30	24.30	24.60	24.60	
23	1.40	1683.20	15.00	4199.20	32250.60	10777.70	1239.90	288.60	18.90	67.70	19.50	21.20	
24	83.50	1074.00	8.60	3696.60	18114.50	10027.70	1035.10	259.80	18.90	7.50	12.30	11.00	
25	365.90	183.30	214.70	4113.60	12963.30	7914.80	907.20	250.50	21.60	9.70	7.50	9.70	
26	527.00	1508.40	12053.20	7257.30	10777.70	5599.50	786.40	250.50	24.30	19.50	12.30	6.40	
27	635.10	2028.60	61356.10	3415.90	17731.20	8036.90	720.70	241.30	21.60	29.10	9.70	5.50	
28	183.30	1218.60	92982.20	2225.70	25315.60	9430.90	704.60	223.40	18.90	24.60	9.70	4.60	
29	163.50	919.10	108690.00	2460.10	21302.20	19284.60	611.40	223.40	14.10	32.00	4.60	2.30	
30	135.50	2611.60	46619.50	2225.70	11056.00	13512.20	611.40	223.40	16.50	32.00		2.30	
31		6123.40		19383.50	7613.00		672.90		14.10	35.00		1.70	
Total	2298.80	135603.30	360038.00	209159.50	1308445.50	394168.30	201320.80	11019.10	2512.70	814.90	800.60	616.80	2626798.30
Mean	76.60	4374.30	12001.30	6747.10	42207.90	13138.90	6494.20	367.30	81.10	26.30	27.60	19.90	
Max	635.10	33174.00	108690.00	42283.60	162860.20	21508.50	45050.70	688.70	189.40	67.70	48.10	83.50	162860.20
Min	1.40	183.30	8.60	854.60	7613.00	5599.50	611.40	223.40	14.10	7.50	4.60	1.70	1.40

WATER YEAR : 2011**Yom RIVER BASIN****Yom River at Ban Kaeng Luang , Sukhothai (Y.6)**

Lat 17 - 26 - 05 N Long 99 - 47 - 30 E

Location : on left bank about 150 meters upstream from Kaeng Luang.

	Ban Kaeng Luang	Amphoe Si Satchanalai	Changwat Sukhothai
Drainage Area	12,769 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1963 - 1987,1997-Cont'd		
Actual Measurement	1963 - 1987,1997-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	17		
R-Square	0.9762		
Remarks	Continued Sediment Station		

$$QS = 0.3943 QW^{1.66600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	592.50	3214.60	65268.70	13870.00	6518.10	10818.80	1572.80	225.60	19.20	1.70	0.00	
2	0.60	1649.40	3421.60	19890.60	108631.70	6318.40	7939.90	1029.00	187.90	16.20	1.00	0.00	
3	1.50	1915.20	2110.60	5880.40	161993.20	7703.10	25503.40	1062.70	191.70	14.80	0.40	0.00	
4	3.00	962.70	882.50	4254.50	166291.30	8099.30	73830.00	914.20	187.90	18.30	0.30	0.00	
5	5.40	1114.20	625.90	4876.80	166909.00	5880.40	51521.20	737.10	225.60	35.90	0.30	0.00	
6	8.70	1887.90	995.60	3022.20	154730.10	8099.30	22853.40	559.80	211.60	47.30	0.30	0.00	
7	9.40	2411.40	3022.20	2054.00	31444.40	11571.20	11571.20	444.30	191.70	50.50	0.30	0.00	
8	8.90	1434.40	3463.60	1998.00	10729.10	13766.60	7062.80	399.50	168.90	61.40	0.30	0.00	
9	8.70	1012.20	7132.10	3895.00	10999.10	15139.10	5280.90	1257.80	143.80	50.50	0.30	0.00	
10	8.70	2411.40	4028.30	1479.90	11959.00	24683.10	4346.30	946.50	158.00	43.80	0.30	0.00	
11	9.40	7271.60	1434.40	1301.10	12950.60	18694.50	3850.90	625.90	172.70	43.80	0.30	0.00	
12	7.60	4485.60	882.50	1344.90	40115.80	13973.70	3296.80	946.50	172.70	28.70	0.30	0.00	
13	14.20	13870.00	637.20	1279.40	64628.90	13254.30	3059.80	1457.10	180.20	34.30	0.30	0.00	
14	429.20	12154.80	485.40	1833.80	83178.50	27856.50	6925.00	603.50	180.20	30.10	0.30	0.00	
15	603.50	2515.10	429.20	1434.40	96285.80	31636.10	3590.90	406.80	191.70	19.20	0.30	0.00	
16	791.20	2026.00	697.40	1807.00	54261.60	28717.00	3807.10	444.30	21.70	3.50	0.20	0.00	
17	660.00	2515.10	550.30	5697.90	14496.80	20295.90	3633.70	414.20	61.40	0.60	0.00	0.30	
18	476.40	1998.00	316.60	21116.20	12154.80	13870.00	3983.70	399.50	495.60	0.40	0.00	1.00	
19	385.00	3548.30	277.60	21397.60	16157.60	10285.10	4596.00	392.20	614.70	0.80	0.00	6.10	
20	251.10	5164.10	322.30	8099.30	24520.40	7341.70	3214.60	356.60	271.30	2.50	0.00	17.70	
21	211.60	5398.80	310.90	4300.30	19355.30	6652.60	2275.70	370.70	61.40	6.70	0.00	26.10	
22	261.60	5164.10	240.70	3059.80	29238.20	9419.80	1753.80	230.60	50.50	15.30	0.00	50.50	
23	158.00	3463.60	199.60	2727.90	39033.30	11764.40	1389.40	256.30	58.00	30.10	0.00	58.00	
24	136.90	1344.90	154.40	2242.30	29064.10	8421.90	1152.30	235.60	61.40	54.20	0.00	43.80	
25	130.20	750.40	123.60	3097.60	12351.80	7553.60	1301.10	161.60	50.50	27.20	0.00	24.80	
26	187.90	494.50	98.60	2656.20	9590.40	5941.80	930.30	215.70	40.80	15.30	0.20	14.20	
27	272.20	299.70	444.30	3338.20	16851.30	6518.10	930.30	288.60	31.60	17.70	0.20	7.60	
28	266.90	697.40	21397.60	2836.80	16503.00	5880.40	820.30	245.90	21.70	19.20	0.20	5.60	
29	392.20	995.60	46477.80	1479.90	16272.40	7341.70	710.60	230.60	18.30	23.40	0.00	3.80	
30	866.70	2480.30	58861.80	1062.70	19355.30	11571.20	603.50	251.10	17.70	23.40		2.50	
31		1194.00		1257.80	9762.30		684.40		17.70	5.40		1.50	
Total	6567.10	93223.20	163239.20	205991.20	1473684.90	374768.90	273238.20	17457.00	4684.50	759.70	7.50	263.50	2613885.00
Mean	218.90	3007.20	5441.30	6644.90	47538.20	12492.30	8814.10	581.90	151.10	24.50	0.30	8.50	
Max	866.70	13870.00	58861.80	65268.70	166909.00	31636.10	73830.00	1572.80	614.70	61.40	1.70	58.00	166909.00
Min	0.40	299.70	98.60	1062.70	9590.40	5880.40	603.50	161.60	17.70	0.40	0.00	0.00	0.00

WATER YEAR : 2011**Yom RIVER BASIN****Yom River at Ban Don Rabiang , Sukhothai (Y.14)**

Lat 17 - 35 - 42 N Long 99 - 43 - 06 E

Location : on left bank about 50 meters from Si Satchanalai - Den Chai Highway No.101 at guidepost 44 th.

	Ban Don Rabiang	Amphoe Si Satchanalai	Changwat Sukhothai
Drainage Area	12,100 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1964-Cont'd		
Actual Measurement	1964-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	18		
R-Square	0.9782		
Remarks	Continued Sediment Station		

$$QS = 0.1743 QW^{1.81820}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.0	896.0	7685.0	94047.0	46762.0	12484.0	19624.0	1664.0	289.0	51.0	29.0	17.0	
2	3.0	3891.0	7619.0	21823.0	161631.0	13191.0	18417.0	1564.0	280.0	47.0	27.0	16.0	
3	3.0	4021.0	4469.0	8849.0	214249.0	16787.0	51725.0	1515.0	265.0	42.0	27.0	9.0	
4	3.0	2574.0	2219.0	7065.0	220353.0	15609.0	99433.0	1348.0	265.0	44.0	30.0	9.0	
5	3.0	2848.0	1794.0	7553.0	213744.0	12571.0	66513.0	1240.0	249.0	54.0	33.0	9.0	
6	3.0	4469.0	2744.0	6134.0	177392.0	17087.0	35396.0	1139.0	235.0	51.0	30.0	8.0	
7	3.0	5209.0	7553.0	4378.0	33045.0	23517.0	19737.0	967.0	213.0	49.0	32.0	8.0	
8	3.0	3472.0	8849.0	2918.0	17188.0	25621.0	13101.0	930.0	206.0	47.0	35.0	7.0	
9	3.0	3318.0	13824.0	1741.0	20307.0	29605.0	10236.0	948.0	199.0	42.0	30.0	7.0	
10	2.0	8638.0	7553.0	1982.0	23022.0	43578.0	9062.0	880.0	180.0	42.0	27.0	6.0	
11	2.0	15225.0	3393.0	3318.0	26431.0	30971.0	8155.0	880.0	167.0	42.0	27.0	7.0	
12	3.0	11540.0	2127.0	3472.0	71484.0	25353.0	7553.0	770.0	154.0	47.0	25.0	12.0	
13	9.0	29156.0	1690.0	2709.0	95302.0	24955.0	7125.0	848.0	143.0	54.0	24.0	13.0	
14	23.0	15803.0	1371.0	1061.0	112637.0	52574.0	11794.0	755.0	143.0	49.0	24.0	12.0	
15	16.0	5368.0	912.0	1139.0	123009.0	50672.0	7368.0	740.0	137.0	49.0	24.0	9.0	
16	4.0	3513.0	785.0	1219.0	59100.0	44959.0	7685.0	725.0	137.0	49.0	23.0	27.0	
17	7.0	3763.0	469.0	17188.0	24296.0	33876.0	7752.0	652.0	127.0	44.0	21.0	56.0	
18	8.0	4561.0	531.0	39955.0	22780.0	24427.0	8568.0	624.0	113.0	44.0	14.0	56.0	
19	8.0	8361.0	880.0	27681.0	27973.0	18625.0	9277.0	638.0	99.0	44.0	13.0	49.0	
20	9.0	12484.0	864.0	13642.0	39775.0	14284.0	6592.0	610.0	87.0	44.0	12.0	38.0	
21	33.0	12571.0	832.0	9133.0	34379.0	14192.0	5157.0	518.0	78.0	42.0	11.0	35.0	
22	67.0	11039.0	544.0	7005.0	52574.0	20193.0	3891.0	480.0	75.0	42.0	8.0	44.0	
23	27.0	7553.0	335.0	6304.0	61464.0	20193.0	3637.0	480.0	67.0	38.0	7.0	35.0	
24	51.0	3170.0	280.0	5745.0	42411.0	16687.0	3355.0	458.0	60.0	33.0	6.0	24.0	
25	67.0	1928.0	186.0	7005.0	20537.0	15130.0	2813.0	458.0	60.0	32.0	5.0	21.0	
26	335.0	1302.0	199.0	6078.0	19965.0	12137.0	2508.0	436.0	56.0	30.0	5.0	20.0	
27	597.0	666.0	2038.0	8292.0	21823.0	13551.0	2127.0	405.0	54.0	29.0	5.0	16.0	
28	681.0	2443.0	47167.0	6078.0	30665.0	10957.0	1982.0	374.0	51.0	29.0	12.0	14.0	
29	864.0	2883.0	71750.0	3721.0	29755.0	15321.0	1794.0	374.0	51.0	27.0	17.0	10.0	
30	1004.0	4607.0	90942.0	1690.0	29605.0	22659.0	1614.0	335.0	51.0	25.0		9.0	
31		4109.0		3472.0	16588.0		1873.0		51.0	25.0		9.0	
Total	3844.0	201381.0	291604.0	332397.0	2090246.0	691766.0	455864.0	23755.0	4342.0	1287.0	583.0	612.0	4097681.0
Mean	128.0	6496.0	9720.0	10722.0	67427.0	23059.0	14705.0	792.0	140.0	42.0	20.0	20.0	
Max	1004.0	29156.0	90942.0	94047.0	220353.0	52574.0	99433.0	1664.0	289.0	54.0	35.0	56.0	220353.0
Min	2.0	666.0	186.0	1061.0	16588.0	10957.0	1614.0	335.0	51.0	25.0	5.0	6.0	2.0

WATER YEAR : 2011**Yom RIVER BASIN****Yom River at Ban Kong , Sukhothai (Y.15)**

Lat 16 - 55 - 47 N Long 99 - 57 - 41 E

Location : on left bank at Ban Kong.

	Ban Kong	Amphoe Kong Krailat	Changwat Sukhothai
Drainage Area	19,936 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2009-2011		
Number of observation	53		
R-Square	0.9100		
Remarks	Continued Sediment Station		

$$QS = 5.7448 QW^{1.06390}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	451.70	339.80	1322.00	1251.00	1577.60	3937.20	3469.40	1396.70	78.70	0.00	10.10	216.50	
2	406.60	437.50	1317.00	1426.50	1539.10	3783.60	3553.00	1352.60	78.70	0.00	10.70	210.40	
3	379.00	502.70	1332.20	1629.10	1577.60	3668.20	3553.00	1306.80	70.10	0.00	13.90	201.30	
4	390.00	583.90	1347.50	1797.70	1812.40	3553.00	3581.70	1251.00	52.50	0.00	56.00	174.20	
5	401.90	668.90	1352.60	1858.20	2017.70	3417.30	3725.80	1212.20	43.50	0.50	306.40	177.20	
6	383.70	702.30	1347.50	1951.80	2192.00	3365.30	3968.00	1174.30	36.60	0.50	304.00	184.70	
7	372.70	724.40	1332.20	1983.00	2412.70	3235.50	4533.30	1136.50	30.50	0.50	261.60	195.20	
8	357.80	763.70	1322.00	2017.70	2655.90	3157.80	4813.00	1094.50	39.30	2.70	240.90	213.40	
9	347.70	791.60	1327.10	1920.50	2904.90	3157.80	4796.50	1045.20	44.80	5.70	237.00	260.00	
10	339.80	800.60	1337.30	1842.70	3054.30	3157.80	4823.90	1007.60	33.90	8.20	214.90	273.10	
11	321.90	826.10	1357.70	1724.50	3209.60	3235.50	4533.30	966.80	12.00	10.70	210.40	234.70	
12	314.10	872.30	1384.80	1639.40	3391.30	3391.30	4029.50	912.90	16.50	12.00	207.40	216.50	
13	351.60	923.60	1402.70	1577.60	3553.00	3581.70	3783.60	863.20	19.10	11.40	216.50	213.40	
14	447.00	978.50	1414.60	1546.80	3754.70	3725.80	3639.30	840.10	13.90	12.60	213.40	225.60	
15	466.00	1083.60	1408.60	1523.70	3968.00	3814.30	3469.40	826.10	8.80	13.90	211.90	228.60	
16	375.10	1153.30	1378.90	1508.40	4311.90	3937.20	3524.20	797.30	5.10	15.90	210.40	222.50	
17	329.70	1191.10	1357.70	1516.00	4459.40	4091.20	3365.30	748.10	1.60	15.90	195.20	192.20	
18	323.50	1199.50	1327.10	1523.70	4607.20	4385.60	3183.70	696.60	0.50	15.90	168.20	169.70	
19	510.70	1240.90	1296.60	1562.20	4681.20	4681.20	3028.50	638.10	0.00	15.20	156.20	157.70	
20	711.30	1266.20	1271.30	1709.80	4607.20	4755.30	2856.90	591.90	0.00	14.60	141.40	148.80	
21	144.30	1296.60	1251.00	1936.10	4533.30	4823.90	2696.60	515.50	0.00	12.60	128.80	136.90	
22	65.80	1337.30	1230.70	2104.80	4385.60	4533.30	2534.20	430.30	0.00	10.70	118.50	125.90	
23	57.40	1352.60	1212.20	2139.60	4311.90	4091.20	2352.20	375.10	0.00	8.80	108.30	118.50	
24	73.70	1384.80	1178.50	2104.80	4311.90	4029.50	2209.50	323.50	0.00	7.60	122.20	108.30	
25	93.00	1396.70	1140.70	2052.50	4311.90	3937.20	2069.90	289.30	0.00	7.00	134.70	102.50	
26	69.40	1390.80	1115.50	1967.40	4311.90	3783.60	1889.40	231.70	0.00	7.00	148.80	97.40	
27	74.40	1414.60	1087.00	1889.40	4311.90	3697.00	1768.40	167.40	0.00	7.60	174.20	89.40	
28	154.70	1384.80	1076.10	1827.10	4164.70	3814.30	1649.70	124.40	0.00	7.60	208.90	83.00	
29	234.70	1357.70	1098.70	1753.80	4311.90	3697.00	1546.80	108.30	0.00	8.20	216.50	75.10	
30	263.90	1332.20	1153.30	1709.80	4164.70	3581.70	1480.20	90.10	0.00	8.80		67.30	
31		1322.00		1639.40	4029.50		1432.50		0.00	8.80		60.20	
Total	9213.10	32020.60	38481.10	54635.00	109436.90	114021.30	97860.70	22514.10	586.10	250.90	4947.40	5180.20	489147.40
Mean	307.10	1032.90	1282.70	1762.40	3530.20	3800.70	3156.80	750.50	18.90	8.10	170.60	167.10	
Max	711.30	1414.60	1414.60	2139.60	4681.20	4823.90	4823.90	1396.70	78.70	15.90	306.40	273.10	4823.90
Min	57.40	339.80	1076.10	1251.00	1539.10	3157.80	1432.50	90.10	0.00	0.00	10.10	60.20	0.00

WATER YEAR : 2011**Yom RIVER BASIN****Yom River at Ban Huai Sak , Phrae (Y.20)**

Lat 18 - 35 - 06 N Long 100 - 09 - 16 E

Location : on left bank about 1 kilometer downstream from Sop Ngao.

	Ban Huai Sak	Amphoe Song	Changwat Phrae
Drainage Area	5,394 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.9784		
Remarks	Continued Sediment Station		

$$QS = 50.1000 QW^{0.85000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	136.40	1321.70	2295.20	4045.30	18305.90	4371.60	6818.50	1533.90	747.80	449.10	351.70	184.30	
2	136.40	1568.80	1806.90	3436.40	14241.20	4763.40	11482.40	1404.90	712.00	437.50	351.70	149.90	
3	131.80	3062.40	1498.90	3077.20	10221.20	3995.20	8322.50	1345.50	700.00	414.10	362.20	136.40	
4	127.50	2915.00	1463.80	3333.20	6503.10	3436.40	7801.30	1309.70	700.00	403.80	362.20	131.80	
5	123.10	2585.70	1643.80	2706.20	4847.20	4468.20	5190.90	1285.70	687.90	403.80	362.20	145.30	
6	118.40	2202.30	4352.30	2248.90	3995.20	7037.90	4194.90	1249.60	651.50	472.10	330.40	154.10	
7	114.00	2721.40	6115.80	1942.80	3759.90	6673.30	3641.30	1225.40	639.30	506.30	308.90	145.30	
8	123.10	1643.80	3121.00	1769.50	4294.10	6070.20	3505.00	1201.20	617.50	460.60	253.90	149.90	
9	123.10	1164.60	2016.30	1893.60	4028.60	5864.10	3298.60	1164.60	595.60	437.50	220.00	145.30	
10	136.40	3776.80	1631.20	2217.80	3573.30	6024.50	3333.20	1237.50	595.60	425.80	196.80	208.40	
11	136.40	10133.70	1381.20	3419.30	12979.60	4888.90	3194.20	1201.20	584.50	425.80	196.80	528.90	
12	171.40	3641.30	1237.50	3223.20	17488.70	4244.50	2915.00	1140.10	573.50	403.80	192.40	449.10	
13	196.80	2004.10	1103.20	2403.00	9664.60	5055.40	2585.70	1069.80	573.50	383.10	184.30	393.50	
14	362.20	2077.10	1002.40	2040.70	6624.70	5308.00	2372.40	1036.20	562.40	372.70	179.90	372.70	
15	308.90	1732.00	911.30	5702.90	5331.40	5190.90	2310.80	1013.70	562.40	383.10	179.90	551.30	
16	231.40	1918.20	876.80	11253.50	4622.00	4660.30	2418.40	1002.40	551.30	393.50	175.50	528.90	
17	192.40	2016.30	795.10	7434.60	5564.10	3995.20	2959.20	991.10	528.90	403.80	179.90	483.60	
18	184.30	4011.90	795.10	5167.50	7112.60	3470.70	3033.10	979.80	517.60	372.70	184.30	425.80	
19	162.80	4742.40	771.50	3995.20	5702.90	4045.30	2631.00	968.40	506.30	362.20	184.30	308.90	
20	154.10	5841.10	723.90	3539.20	8533.60	5587.30	2248.90	934.20	494.90	351.70	184.30	308.90	
21	154.10	3266.90	700.00	3470.70	11645.40	5955.90	2065.00	911.30	483.60	351.70	184.30	287.20	
22	140.70	2040.70	700.00	3077.20	8477.70	5237.80	1955.10	888.30	483.60	341.10	179.90	265.10	
23	136.40	1568.80	687.90	3505.00	6649.00	5167.50	1844.10	876.80	494.90	319.70	166.90	253.90	
24	149.90	1297.70	651.50	3018.40	5564.10	4602.80	1744.50	865.20	472.10	298.10	166.90	242.70	
25	506.30	1782.00	1475.50	4721.50	4909.80	4078.60	1656.50	853.60	460.60	276.20	166.90	196.80	
26	1416.70	2676.30	14620.60	3658.30	4972.30	3522.10	1593.10	830.30	460.60	276.20	166.90	188.40	
27	911.30	1942.80	19777.00	2721.40	6206.90	3995.20	1580.30	818.60	460.60	265.10	166.90	192.40	
28	853.60	1605.80	17661.30	2781.20	7564.80	5214.40	1498.90	795.10	460.60	276.20	166.90	184.30	
29	617.50	2616.00	9339.70	3208.70	4993.10	6161.40	1475.50	783.30	460.60	265.10	184.30	184.30	
30	494.90	3945.00	5564.10	2479.50	4228.00	4294.10	1498.90	771.50	449.10	287.20		179.90	
31		4128.50		4429.60	3995.20		1580.30		460.60	330.40		171.40	
Total	8752.30	87951.10	106720.80	111921.50	226600.20	147381.10	102749.50	31688.90	17249.40	11550.00	6491.50	8248.70	867305.00
Mean	291.70	2837.10	3557.40	3610.40	7309.70	4912.70	3314.50	1056.30	556.40	372.60	223.80	266.10	
Max	1416.70	10133.70	19777.00	11253.50	18305.90	7037.90	11482.40	1533.90	747.80	506.30	362.20	551.30	19777.00
Min	114.00	1164.60	651.50	1769.50	3573.30	3436.40	1475.50	771.50	449.10	265.10	166.90	131.80	114.00

WATER YEAR : 2011**Yom RIVER BASIN****Nam Mae Mok at Ban Mae Phu , Lampang (Y.26)**

Lat 17 - 19 - 37 N Long 99 - 27 - 42 E

Location : on left bank downstream from Ban Mae Phu Tambon Wiang Mok.

	Ban	Mae Phu	Amphoe	Thoen	Changwat	Lampang
Drainage Area	784	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1997-Cont'd					
Actual Measurement	1997-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	17					
R-Square	0.7523					
Remarks	Continued Sediment Station					

$$QS = 1.8811 QW^{1.07180}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.70	1.90	2.70	11.10	15.60	10.00	116.90	16.70	0.80	18.10	18.10	16.00	
2	1.70	1.30	2.50	12.60	14.60	7.50	103.80	16.70	0.80	18.10	18.10	16.00	
3	1.60	1.30	2.50	19.10	13.10	12.80	170.30	7.80	0.80	17.70	18.10	16.00	
4	1.60	1.20	2.50	19.10	12.60	12.60	259.90	7.50	6.40	17.70	18.40	16.00	
5	1.60	1.40	4.20	12.00	12.00	12.60	237.10	7.50	16.70	17.70	18.10	15.60	
6	1.60	1.40	26.90	11.40	11.70	12.80	186.10	7.50	17.00	17.70	17.70	15.60	
7	2.90	2.30	10.30	11.70	11.70	18.80	136.40	7.50	17.00	17.70	17.40	15.60	
8	2.90	3.30	6.90	13.10	11.70	19.10	105.30	1.80	17.40	17.70	17.00	15.60	
9	2.90	4.80	6.70	11.70	11.40	23.00	84.30	1.70	17.40	17.40	17.40	15.60	
10	2.90	4.60	6.10	11.70	11.40	26.00	64.30	1.70	17.40	17.40	17.70	15.60	
11	2.90	1.90	6.10	12.00	12.30	27.30	50.00	1.60	17.70	18.40	17.70	16.70	
12	2.70	1.50	6.10	11.10	12.60	38.10	40.60	1.70	18.10	18.40	17.70	16.30	
13	2.70	1.40	6.40	11.10	11.70	389.00	34.60	1.70	18.40	18.40	17.00	16.70	
14	2.70	1.90	6.10	11.10	10.60	457.00	30.70	1.70	18.40	18.40	17.00	16.70	
15	2.70	1.80	6.40	11.10	10.60	229.80	26.90	1.00	18.80	18.40	17.40	18.10	
16	2.50	4.40	8.30	11.10	11.40	124.60	65.00	1.00	18.80	18.40	17.00	9.40	
17	2.50	4.20	6.90	11.10	11.10	79.80	64.30	1.00	18.80	18.10	17.00	2.50	
18	2.50	6.90	7.80	11.10	12.00	65.60	57.60	1.00	18.80	18.10	17.00	2.90	
19	1.90	5.00	6.90	11.10	11.70	50.50	51.00	5.70	19.10	18.10	17.00	2.90	
20	1.80	4.00	6.90	11.10	9.10	42.50	41.00	5.70	19.10	18.10	16.70	1.70	
21	1.20	3.70	6.70	11.70	7.50	35.10	36.60	5.70	19.10	18.10	16.70	1.60	
22	1.20	3.50	6.90	11.40	7.20	30.70	31.10	5.70	19.10	18.10	16.70	1.50	
23	1.20	2.70	8.00	11.40	6.40	34.20	26.40	5.70	19.10	18.10	16.30	1.50	
24	8.00	2.50	11.40	11.70	6.40	36.60	23.00	1.20	19.10	18.10	16.30	1.50	
25	2.10	2.50	10.90	12.60	6.10	41.00	20.50	1.10	18.80	17.70	16.30	1.50	
26	1.40	3.30	13.70	11.40	9.10	36.10	19.10	1.00	18.80	18.10	16.30	1.50	
27	1.30	2.70	12.80	11.10	9.10	58.70	17.70	1.00	18.80	18.10	16.30	1.50	
28	1.30	10.00	14.30	10.90	7.20	207.00	17.40	1.00	18.40	18.10	16.30	1.50	
29	1.40	3.70	11.40	10.30	6.40	537.20	17.40	0.90	18.40	18.10	16.30	1.50	
30	1.40	3.10	11.10	10.00	7.80	225.50	17.70	0.80	18.80	18.40		1.50	
31		2.90		13.70	7.80		17.70		18.80	18.10		1.40	
Total	66.80	97.10	246.40	371.60	319.90	2901.50	2170.70	122.60	504.90	559.00	497.00	278.00	8135.50
Mean	2.20	3.10	8.20	12.00	10.30	96.70	70.00	4.10	16.30	18.00	17.10	9.00	
Max	8.00	10.00	26.90	19.10	15.60	537.20	259.90	16.70	19.10	18.40	18.40	18.10	537.20
Min	1.20	1.20	2.50	10.00	6.10	7.50	17.40	0.80	0.80	17.40	16.30	1.40	0.80

WATER YEAR : 2011**Yom RIVER BASIN****Huai Pong at Ban Pong , Lampang (Y.30)**

Lat 18 - 42 - 29 N Long 99 - 57 - 40 E

Location : on right bank at the bridge on highway.

	Ban Pong	Amphoe Ngao	Changwat Lampang
Drainage Area	325 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.8866		
Remarks	Continued Sediment Station		

$$QS = 3.5301 QW^{1.59640}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	103.90	6.40	24.70	2641.80	146.10	1342.20	24.70	4.70	2.00	1.20	0.70	
2	0.30	16.70	5.80	21.70	754.70	349.30	486.50	23.20	4.70	1.70	1.40	1.20	
3	0.30	9.00	7.00	24.70	355.90	91.10	519.50	23.20	4.70	1.40	1.20	1.00	
4	0.30	9.90	8.20	29.10	158.80	78.90	557.90	23.20	4.10	1.40	1.20	0.90	
5	0.30	7.00	14.60	17.70	110.60	110.60	291.90	23.20	3.60	2.20	0.90	0.70	
6	0.20	6.40	27.60	13.60	84.90	107.30	204.10	21.70	2.70	2.00	1.00	0.90	
7	0.20	3.10	12.70	6.40	81.80	470.20	176.60	21.70	2.20	1.70	1.00	0.70	
8	0.20	1.40	7.00	6.40	67.70	131.50	158.80	20.40	2.00	1.70	0.70	0.90	
9	0.10	1.70	4.10	15.60	59.70	124.30	124.30	20.40	2.40	1.70	0.70	0.70	
10	0.30	678.90	2.70	32.30	52.10	94.10	110.60	19.10	2.40	1.40	0.90	1.00	
11	0.20	511.20	2.20	27.60	597.20	81.80	94.10	20.40	2.40	1.70	0.90	0.70	
12	0.30	41.80	2.00	14.60	384.70	120.90	84.90	19.10	2.40	1.20	0.90	0.50	
13	0.30	23.20	1.70	7.60	233.30	699.90	78.90	17.70	2.40	1.20	0.90	0.70	
14	0.50	26.10	2.00	5.80	84.90	342.70	70.40	15.60	2.40	1.20	0.90	0.70	
15	0.60	50.00	2.70	172.00	91.10	190.20	67.70	16.70	2.70	1.20	0.90	0.50	
16	0.60	19.10	1.40	163.20	88.10	138.70	70.40	14.60	2.20	1.20	0.70	0.50	
17	0.50	45.80	1.40	36.00	84.90	100.70	78.90	10.80	2.20	1.00	0.70	0.50	
18	0.50	23.20	2.00	21.70	78.90	100.70	76.00	8.20	2.00	0.90	0.90	0.90	
19	0.40	81.80	2.20	11.70	190.20	103.90	65.00	9.00	2.40	0.70	0.70	0.70	
20	0.40	233.30	2.20	8.20	422.80	384.70	47.90	8.20	2.00	0.70	0.70	0.90	
21	0.30	52.10	4.10	13.60	699.90	454.20	45.80	9.00	2.00	1.00	0.70	0.70	
22	0.40	29.10	5.80	7.00	336.20	250.00	47.90	6.40	1.70	0.90	0.70	0.50	
23	0.50	17.70	1.70	7.00	154.60	218.70	45.80	5.80	2.00	1.00	0.50	0.50	
24	0.60	13.60	1.70	5.20	113.90	150.40	39.80	7.00	2.20	0.90	0.70	0.50	
25	0.60	8.20	6.40	15.60	100.70	117.40	36.00	5.80	2.20	0.90	0.90	0.40	
26	0.90	7.00	627.40	16.70	185.70	107.30	36.00	5.80	2.20	1.00	0.90	0.50	
27	0.80	7.00	310.60	17.70	285.80	154.60	34.10	5.20	2.00	1.00	1.00	0.70	
28	0.40	5.20	298.10	9.00	120.90	1125.30	30.70	4.10	2.20	0.90	0.90	0.50	
29	0.40	4.70	59.70	7.00	84.90	422.80	27.60	3.60	2.20	1.00	1.00	0.70	
30	0.20	5.80	41.80	7.00	76.00	233.30	26.10	4.10	2.00	1.20		0.50	
31		7.00		36.00	76.00		27.60		2.00	1.00		1.40	
Total	11.80	2050.90	1473.20	802.40	8858.70	7201.60	5104.00	417.90	79.30	39.00	25.70	22.20	26086.70
Mean	0.40	66.20	49.10	25.90	285.80	240.10	164.60	13.90	2.60	1.30	0.90	0.70	
Max	0.90	678.90	627.40	172.00	2641.80	1125.30	1342.20	24.70	4.70	2.20	1.40	1.40	2641.80
Min	0.10	1.40	1.40	5.20	52.10	78.90	26.10	3.60	1.70	0.70	0.50	0.40	0.10

WATER YEAR : 2011**Yom RIVER BASIN****Yom River at Ban Wang Chin , Phrae (Y.37)**

Lat 17 - 53 - 48 N Long 99 - 36 - 28 E

Location : on left bank at the bridge on road.

	Ban Wang Chin	Amphoe Wang Chin	Changwat Phrae
Drainage Area	10,305 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2007-Cont'd		
Actual Measurement	2007-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	36		
R-Square	0.9452		
Remarks	Continued Sediment Station		

$$QS = 0.8170 QW^{1.57760}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	20.90	2184.00	6227.30	38729.60	58644.00	8197.80	11491.60	1167.90	277.40	22.20	15.30	6.70		
2	19.20	3798.90	4982.00	9775.90	128347.80	9596.00	15897.30	1167.90	259.10	22.20	16.40	6.70		
3	17.60	2369.90	2209.60	5834.10	144827.40	12319.20	43506.20	1041.60	219.90	47.90	19.20	6.20		
4	16.40	2536.70	1492.20	5177.60	143956.60	9540.30	46125.60	1006.50	207.10	34.40	22.60	5.90		
5	15.30	3697.30	1340.00	5139.60	118394.00	9044.20	28975.00	939.30	170.20	27.10	24.30	5.40		
6	13.10	4520.10	2566.10	4074.90	41991.70	12389.10	17811.20	878.80	188.80	25.70	24.30	5.40		
7	11.00	3090.50	5215.80	2593.20	17388.40	18066.70	10445.80	819.70	200.30	22.20	24.30	5.40		
8	11.00	2425.00	10322.80	1790.40	14534.50	17726.40	7648.20	776.50	194.50	22.20	22.60	4.90		
9	10.00	2970.30	8881.00	1470.10	18066.70	24300.10	6271.50	734.10	175.70	6.20	20.90	5.90		
10	13.10	7695.90	3697.30	1790.40	17136.50	27514.10	5920.60	720.10	170.20	9.10	20.90	6.20		
11	33.90	8718.90	2108.10	1814.20	28975.00	21197.40	5298.90	678.90	158.50	28.00	20.90	6.20		
12	45.60	17472.70	1492.20	1959.10	52767.00	16719.60	4863.40	762.20	158.50	31.90	20.90	6.20		
13	39.00	22266.80	1167.90	3798.90	70443.30	15978.80	6183.10	678.90	147.20	31.90	17.60	6.20		
14	28.00	6822.10	924.00	3061.60	82314.50	30002.50	5920.60	628.20	147.20	31.90	15.30	7.30		
15	19.20	3030.20	720.10	3090.50	60470.60	29088.50	4556.40	590.50	136.10	31.90	13.10	29.90		
16	14.20	2941.80	590.50	6183.10	22565.70	26299.60	4709.00	566.30	136.10	31.90	12.00	56.10		
17	9.10	2650.20	485.20	25343.80	16719.60	20069.10	5379.30	577.60	130.30	31.90	11.00	63.60		
18	7.30	4480.80	519.00	29544.20	17136.50	15170.20	6494.60	566.30	114.90	31.90	11.00	49.00		
19	63.60	6539.50	577.60	16060.50	23069.00	11491.60	5580.50	530.00	104.90	31.90	11.00	15.30		
20	130.30	8665.10	566.30	8989.70	22266.80	9098.80	4147.90	485.20	85.70	31.90	9.10	22.60		
21	213.00	9655.80	508.10	6449.70	28184.90	10631.40	3244.40	440.50	55.50	29.90	10.00	31.90		
22	119.70	8504.50	429.00	5662.40	41092.50	14930.70	2680.10	440.50	51.90	26.20	10.00	35.90		
23	158.50	3563.30	365.70	4900.70	40794.30	12811.70	2289.20	429.00	51.90	24.30	8.20	31.90		
24	163.90	1959.10	297.20	5177.60	24199.40	11085.70	2008.30	407.50	44.50	20.90	8.20	5.90		
25	417.50	1382.80	259.10	4745.90	14771.70	9896.50	1743.20	386.40	40.60	19.20	6.70	16.40		
26	706.30	1024.00	734.10	5619.70	14534.50	7995.70	1536.80	365.70	37.50	19.20	6.20	12.00		
27	849.10	1604.50	19539.40	6449.70	17472.70	7159.10	1361.30	354.90	30.90	19.20	6.20	7.30		
28	908.80	2566.10	47857.40	3798.90	21969.30	8935.30	1280.40	336.00	27.10	17.60	6.20	5.40		
29	1024.00	2913.40	61946.60	2650.20	22066.50	13311.20	1205.00	315.30	27.10	17.60	6.20	2.40		
30	893.80	2369.90	70236.80	2620.40	16142.40	18152.10	1149.60	306.20	25.70	15.30		2.10		
31		5964.10		3431.20	9836.10		1167.90		23.90	17.60		9.10		
Total	5992.40	160384.20	258258.40	227727.90	1351079.90	458719.30	266892.90	19098.50	3799.20	781.30	420.60	481.40	2753636.00	Ton
Mean	199.70	5173.70	8608.60	7346.10	43583.20	15290.60	8609.40	636.60	122.60	25.20	14.50	15.50		
Max	1024.00	22266.80	70236.80	38729.60	144827.40	30002.50	46125.60	1167.90	277.40	47.90	24.30	63.60	144827.40	
Min	7.30	1024.00	259.10	1470.10	9836.10	7159.10	1149.60	306.20	23.90	6.20	6.20	2.10	2.10	

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Forestry Office , Nan (N.1)**

Lat 18 - 46 - 26 N Long 100 - 46 - 56 E

Location : on right bank in front of Forestry Office.

	Ban	Forestry Office	Amphoe	Mueang	Changwat	Nan
Drainage Area	4,560	sq.km.				
Method of sampling	Depth	Integrating				
Instrument Used	US.D-49					
Period of Available Records	1979-Cont'd					
Actual Measurement	1979-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	36					
R-Square	0.9760					
Remarks	Continued Sediment Station					

$$QS = 0.1270 QW^{1.98160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.70	428.20	998.70	32262.60	43198.70	11278.90	15394.00	1648.40	289.60	120.70	69.60	23.30		
2	13.80	344.10	585.30	23820.50	49077.40	9880.70	25903.50	1350.30	289.60	120.70	69.60	21.50		
3	12.50	200.60	453.90	13088.40	42269.80	7845.00	14834.80	1124.40	279.30	120.70	73.50	21.50		
4	11.20	665.90	616.90	10468.70	27872.10	6418.40	9504.60	1039.80	279.30	114.90	73.50	21.50		
5	10.00	554.50	585.30	7597.40	16252.00	27208.00	7353.70	998.70	269.10	132.70	69.60	21.50		
6	10.00	958.50	1350.30	5257.10	12958.50	35481.10	5883.80	938.60	249.40	132.70	65.80	19.90		
7	23.30	1103.00	4217.20	3843.50	92373.40	39841.80	5136.00	880.40	239.80	126.60	51.60	19.90		
8	355.60	355.60	1622.50	3100.50	91267.90	70103.80	4897.90	824.00	231.60	120.70	36.30	19.90		
9	99.20	223.70	1596.70	2888.40	42578.30	70544.10	4897.90	805.60	223.70	109.40	36.30	18.30		
10	62.10	249.40	1103.00	5136.00	44452.70	36048.10	4551.20	1146.10	223.70	103.80	36.30	18.30		
11	48.30	1545.80	716.80	14973.70	54098.70	20084.20	3791.50	899.60	215.90	99.20	36.30	19.90		
12	39.10	1446.40	539.40	7515.70	41046.90	14696.70	3195.00	751.70	215.90	99.20	42.10	21.50		
13	30.90	699.60	616.90	7762.10	32984.90	11590.50	2816.40	699.60	208.20	94.60	45.20	25.10		
14	23.30	665.90	649.40	58740.30	21646.80	11486.10	2605.80	649.40	208.20	94.60	42.10	25.10		
15	23.30	524.50	509.90	164781.40	15820.10	12192.80	2537.40	601.00	200.60	99.20	39.10	39.10		
16	21.50	585.30	415.70	119411.10	11818.70	13881.00	3100.50	554.50	185.80	114.90	36.30	58.40		
17	18.30	699.60	379.10	165574.50	20598.60	12318.90	2924.80	539.40	178.70	103.80	36.30	45.20		
18	16.70	1571.10	332.90	61997.70	26334.80	33807.00	2370.40	524.50	164.90	90.20	36.30	33.60		
19	12.50	3007.40	379.10	26551.80	29912.20	110604.00	2177.40	509.90	164.90	85.90	36.30	25.10		
20	11.20	2640.40	453.90	31785.50	166369.50	48739.00	1992.50	495.40	158.20	81.70	33.60	19.90		
21	11.20	2675.10	554.50	33257.80	138642.90	72766.10	1844.60	467.10	158.20	77.50	30.90	18.30		
22	12.50	1787.00	441.00	30375.20	169568.30	67922.80	1702.40	441.00	158.20	77.50	28.90	16.70		
23	12.50	842.60	321.80	21824.00	115595.70	31548.20	1571.10	415.70	151.60	73.50	28.90	16.70		
24	18.30	524.50	279.30	36048.10	64926.80	26334.80	1471.00	403.30	151.60	69.60	26.90	15.20		
25	114.90	682.70	1422.10	29912.20	39543.30	18908.90	1350.30	379.10	151.60	65.80	26.90	15.20		
26	171.70	1471.00	181001.80	13614.20	39543.30	16252.00	1326.80	367.20	145.10	65.80	25.10	15.20		
27	85.90	1124.40	324349.50	10074.80	33257.80	21646.80	1303.50	355.60	138.80	65.80	25.10	15.20		
28	58.40	1060.70	312073.40	14422.20	26118.70	14015.30	1303.50	332.90	138.80	62.10	25.10	19.90		
29	65.80	1257.50	178520.60	9596.30	16397.20	10971.60	1190.10	310.90	132.70	62.10	23.30	23.30		
30	65.80	1350.30	42578.30	7845.00	12445.50	9596.30	1326.80	300.20	126.60	65.80		19.90		
31		1422.10		20426.40	11695.20		2924.80		120.70	69.60		18.30		
Total	1476.50	32667.40	1059665.30	993953.10	1550666.80	894013.00	143184.00	20754.30	6050.30	2921.30	1206.80	712.40	4707272.00	Ton
Mean	49.20	1053.80	35322.20	32063.00	50021.50	29800.40	4618.80	691.80	195.20	94.20	41.60	23.00		
Max	355.60	3007.40	324349.50	165574.50	169568.30	110604.00	25903.50	1648.40	289.60	132.70	73.50	58.40	324349.50	
Min	10.00	200.60	279.30	2888.40	11695.20	6418.40	1190.10	300.20	120.70	62.10	23.30	15.20	10.00	

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Ban Rat Chang Khwan , Phichit (N.7A)**

Lat 16 - 28 - 03 N Long 100 - 20 - 05 E

Location : on right bank in front of Phichit Phitthaya Khom School

	Ban Rat Chang Khwan	Amphoe Mueang	Changwat Phichit
Drainage Area	27,897 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2001-Cont'd		
Actual Measurement	2001-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	28		
R-Square	0.8008		
Remarks	Continued Sediment Station		

$$QS = 1.0101 QW^{1.35680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1380.70	1197.40	4085.80	3066.70	9738.40	20071.60	20591.40	7836.90	1153.50	3649.10	5076.10	4018.90	
2	1571.60	1515.00	4557.60	2975.60	11599.00	20071.60	20554.10	7836.90	1334.20	3585.40	5278.20	3979.00	
3	1531.00	1783.40	4383.10	3344.20	13979.00	20108.60	20628.60	7652.50	1522.50	3438.00	5437.70	3912.70	
4	1443.30	1901.90	3912.70	3723.70	15419.20	20108.60	20479.70	7537.90	1531.00	3417.10	5635.50	3798.80	
5	1759.00	1759.00	3532.60	4005.60	15869.70	20145.60	20479.70	7332.70	1404.50	3710.70	5635.50	3748.70	
6	1651.60	1701.70	3344.20	4032.30	16218.50	20182.70	20516.90	6794.40	1342.40	4166.30	5340.80	3849.00	
7	1296.30	2265.80	3480.00	3673.90	16078.70	20219.70	20516.90	6462.60	1205.30	4452.70	5200.30	3735.60	
8	1072.20	2570.10	3899.40	3385.80	15453.70	20145.60	20516.90	6020.40	1183.30	4815.00	4922.10	3710.70	
9	945.00	2372.80	4126.00	3076.80	15453.70	20145.60	20516.90	5602.40	1685.30	5340.80	4891.40	3723.70	
10	951.70	2125.20	4112.60	2885.20	15730.70	20256.80	20331.00	5819.10	1620.00	4845.60	4999.00	3543.10	
11	1250.60	1935.80	3849.00	2825.40	15730.70	20293.90	20145.60	5652.70	1515.00	3810.70	5060.70	3553.70	
12	1547.00	1759.00	3543.10	2955.50	16009.00	20368.20	19849.90	5029.80	1850.30	3406.70	5060.70	3899.40	
13	1563.00	1620.00	3230.30	3046.40	16745.50	20442.50	19225.30	4738.90	1825.60	3490.50	5060.70	4072.40	
14	1499.10	1522.50	2955.50	3158.50	17526.40	20479.70	18533.50	4572.60	2063.90	3469.50	5107.10	3992.30	
15	2107.80	1783.40	2775.80	3490.50	17669.30	20516.90	18136.10	4512.60	2765.90	3375.40	4860.80	4045.60	
16	2211.70	2168.40	2648.00	4287.90	17848.50	20554.10	17848.50	4220.20	3087.00	3438.00	4769.30	3773.70	
17	1977.90	2502.40	2570.10	5138.10	17848.50	20554.10	17562.10	3810.70	3543.10	3406.70	5184.70	3723.70	
18	1926.80	2390.70	2736.30	6133.90	18100.10	20554.10	17134.80	3532.60	3354.60	3036.20	5520.60	3127.80	
19	1892.90	2238.70	3138.00	7332.70	18642.30	20628.60	16569.30	3375.40	3271.60	3220.00	5487.60	2746.20	
20	1751.20	2417.20	3406.70	8068.90	19079.10	20554.10	15869.70	3158.50	2875.30	3564.30	5520.60	2211.70	
21	1801.10	2677.30	3522.10	8609.30	19335.20	20591.40	15044.10	2835.40	2945.40	3532.60	5537.70	1817.80	
22	1620.00	2677.30	3480.00	8986.10	19555.30	20628.60	14492.80	2309.70	3230.30	3553.70	5422.00	1783.40	
23	1491.60	2435.20	3375.40	9164.80	19776.10	20591.40	13915.10	2038.50	3251.00	3687.00	5404.90	1342.40	
24	1109.20	2107.80	3281.90	9219.00	19849.90	20628.60	13060.30	2029.40	3490.50	3710.70	5422.00	1197.40	
25	1101.50	1783.40	3097.20	9062.60	19702.50	20591.40	12033.60	1676.60	3574.80	3723.70	5356.50	1168.40	
26	1334.20	1725.90	2667.50	8656.70	19813.00	20591.40	11225.80	1555.50	3344.20	3798.80	5262.60	1168.40	
27	1404.50	1834.50	2381.20	8732.50	20034.60	20591.40	10827.60	1460.00	3148.20	3735.60	5153.60	1160.50	
28	1428.50	2003.10	2492.80	8732.50	20034.60	20591.40	9793.60	1388.90	3281.90	4126.00	5060.70	1109.20	
29	1228.30	2195.20	2975.60	8757.70	20071.60	20628.60	8935.20	1304.40	3606.60	4512.60	4328.60	1145.70	
30	1079.10	2337.00	3302.60	8960.70	20145.60	20591.40	8443.90	1220.30	3638.50	4754.10		1036.40	
31		2915.30		9113.60	20108.60		8068.90		3723.70	5122.60		1028.80	
Total	44928.40	64222.40	100863.10	178603.10	539167.00	612428.10	511847.80	129318.50	77369.40	119896.10	150998.00	87125.10	2616767.30
Mean	1497.60	2071.70	3362.10	5761.40	17392.50	20414.30	16511.20	4310.60	2495.80	3867.60	5206.80	2810.50	
Max	2211.70	2915.30	4557.60	9219.00	20145.60	20628.60	20628.60	7836.90	3723.70	5340.80	5635.50	4072.40	20628.60
Min	945.00	1197.40	2381.20	2825.40	9738.40	20071.60	8068.90	1220.30	1153.50	3036.20	4328.60	1028.80	945.00

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Ban Hor Krai , Phichit (N.8A)**

Lat 16 - 04 - 45 N Long 100 - 24 - 00 E

Location : on right bank opposite to Wat Bang Mun Nak.

	Ban Hor Krai	Amphoe Bang Mun Nak	Changwat Phichit
Drainge Area	31,472 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2001-Cont'd		
Actual Measurement	2001-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	27		
R-Square	0.8045		
Remarks	Continued Sediment Station		

$$QS = 2.0064 QW^{1.25060}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1216.40	1201.00	4180.70	3199.10	10069.20	21959.30	20586.50	10369.00	1894.60	2972.10	3952.20	3510.00		
2	1388.10	1256.40	4821.20	3269.70	10557.20	22156.80	20489.10	9100.60	1867.90	2902.90	3873.20	3216.70		
3	1485.50	1475.10	5097.30	3474.20	11394.90	22354.70	20586.50	9007.10	1813.80	2812.60	3931.60	3137.70		
4	1464.80	1637.90	5025.00	4014.30	12883.00	22453.80	20683.90	8913.80	1776.60	2648.50	4045.40	3076.40		
5	1454.50	1648.50	4809.20	4422.20	14063.80	22564.30	20683.90	8758.80	1760.00	2655.90	4149.40	3015.50		
6	1548.00	1606.20	4528.10	4604.90	14734.30	22675.00	20409.40	8640.50	1749.20	2928.80	4149.40	3032.90		
7	1423.50	1819.70	4538.70	4464.50	15102.60	22675.00	20409.40	8611.00	1413.30	3181.50	4014.30	2989.40		
8	1235.40	2251.40	4833.10	4118.10	14856.80	22785.80	20250.10	8522.60	1296.60	3411.70	3892.70	2902.90		
9	1088.20	2398.90	5206.20	3689.00	14856.80	22896.70	20091.00	7920.70	1266.40	3757.00	3737.70	2928.80		
10	1010.80	2298.70	5489.00	3296.20	15041.10	23118.80	20091.00	7499.70	1246.30	3864.10	3766.10	2972.10		
11	1039.70	2087.60	5409.50	3015.50	15164.10	23230.00	19852.90	7405.90	1226.30	3746.80	3804.80	2998.10		
12	1191.10	1911.50	5145.70	3032.90	15534.50	23007.70	19615.40	7125.90	1246.30	3313.90	3834.40	3015.50		
13	1266.40	1760.00	4729.40	3155.20	15968.90	23007.70	19299.60	6666.70	1611.00	3128.90	3864.10	3164.00		
14	1301.20	1723.00	4264.40	3269.70	16630.40	23118.80	18758.80	6301.80	1659.10	3146.40	3901.80	3190.30		
15	1281.00	1878.80	3718.50	3384.90	17103.00	23118.80	18317.80	5924.90	1835.40	3155.20	3882.40	3164.00		
16	1331.60	1933.30	3376.10	3718.50	17442.20	23230.00	18025.00	5680.80	2104.80	3093.90	3746.80	3085.20		
17	1444.10	1900.60	3137.70	3993.60	17660.30	23230.00	17733.10	5568.80	2398.90	3146.40	3804.80	2972.10		
18	1659.10	2392.70	2885.60	5696.90	18025.00	23230.00	17374.20	5425.40	2567.20	2980.70	4024.60	2775.10		
19	1653.30	2372.00	2920.10	6605.60	18685.10	22896.70	17238.50	5314.40	2486.40	2820.10	4139.00	2385.40		
20	1642.70	2345.10	3456.30	7335.70	19220.80	22354.70	16900.10	5218.40	2392.70	2722.80	4159.80	2145.30		
21	1569.00	2479.10	3699.20	7893.00	19615.40	21959.30	16630.40	4845.10	2211.50	2797.60	4170.30	1846.20		
22	1527.10	2552.50	3746.80	8463.80	20011.60	21762.10	16160.40	4285.40	2258.60	2937.40	4107.70	1691.00		
23	1464.80	2508.40	3669.80	8882.80	20091.00	21270.60	15782.50	3834.40	2345.10	2998.10	4086.90	1637.90		
24	1331.60	2385.40	3593.10	9194.20	20329.70	21270.60	15349.10	3554.80	2501.10	3067.70	4066.10	1429.10		
25	1195.60	2076.50	3429.50	9416.20	20329.70	21172.60	14489.70	3164.00	2685.60	3059.00	4035.00	1372.30		
26	1131.80	1873.90	3181.50	9450.40	20586.50	20879.10	14003.20	2851.20	2859.80	3041.60	4014.30	1246.30		
27	1235.40	1841.30	2885.60	9621.50	20683.90	20976.90	13423.10	2604.10	2790.10	3041.60	3983.20	1226.30		
28	1321.40	1950.20	2508.40	9758.80	20879.10	21172.60	12829.20	2479.10	2365.80	2980.70	3962.60	1166.70		
29	1301.20	2171.70	2545.10	9827.60	20976.90	20976.90	11962.20	2191.10	2501.10	3128.90	3727.50	1122.00		
30	1246.30	2663.30	2937.40	9862.10	21466.90	20781.50	11066.70	1955.20	2678.20	3474.20		1063.50		
31		3411.70		9896.50	21663.60		10708.30		2894.20	3786.60		1039.70		
Total	40449.60	63812.40	119768.20	184027.60	531628.30	668286.80	539801.00	179741.20	63703.90	96703.60	114828.10	74518.40	2677269.30	Ton
Mean	1348.30	2058.50	3992.30	5936.40	17149.30	22276.20	17412.90	5991.40	2055.00	3119.50	3959.60	2403.80		
Max	1659.10	3411.70	5489.00	9896.50	21663.60	23230.00	20683.90	10369.00	2894.20	3864.10	4170.30	3510.00	23230.00	
Min	1010.80	1201.00	2508.40	3015.50	10069.20	20781.50	10708.30	1955.20	1226.30	2648.50	3727.50	1039.70	1010.80	

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Ban Tha Ngam , Phitsanulok (N.22A)**

Lat 16 - 59 - 33 N Long 100 - 19 - 31 E

Location : on left bank at Ban Tha Ngam.

	Ban	Tha Ngam	Amphoe	Wat Bot	Changwat	Phitsanulok
Drainage Area	4,774	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2008-Cont'd					
Actual Measurement	2008-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	20					
R-Square	0.7166					
Remarks	Continued Sediment Station					

$$QS = 2.4365 QW^{1.21430}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	288.60	185.20	336.00	475.20	928.40	2498.70	2708.40	557.40	128.50	750.10	529.70	560.50	
2	280.40	87.00	319.10	525.90	724.20	2847.70	2562.20	411.40	71.70	724.20	536.60	242.60	
3	266.70	89.20	316.30	502.30	1022.10	2847.70	2586.50	367.30	91.50	724.20	539.70	307.90	
4	277.60	55.40	310.70	495.50	1043.60	2786.10	3054.90	310.70	64.20	738.80	547.40	203.20	
5	283.10	79.30	299.60	481.90	1082.50	2816.90	3219.20	218.80	64.20	720.90	536.60	165.10	
6	283.10	75.50	316.30	478.20	1078.20	2594.60	3207.70	288.60	98.30	709.70	543.50	128.50	
7	305.20	121.40	296.80	478.20	970.80	1998.40	3277.20	305.20	242.60	699.20	539.70	119.10	
8	350.10	116.70	253.30	547.40	1152.30	1698.10	3219.20	258.60	399.00	684.80	539.70	79.30	
9	519.00	79.30	247.90	557.40	1222.90	2313.90	3096.60	396.10	344.40	652.10	547.40	140.50	
10	519.00	89.20	261.30	560.50	1280.80	2643.20	3013.20	210.90	361.50	634.70	560.50	79.30	
11	547.40	98.30	258.60	557.40	1388.80	2331.80	2343.70	145.40	355.80	677.60	557.40	83.10	
12	333.10	87.00	280.40	554.30	1562.90	2225.90	2003.30	192.90	361.50	663.20	550.40	100.50	
13	404.90	75.50	288.60	574.40	1507.50	2765.60	1969.50	170.10	364.40	652.10	539.70	73.80	
14	567.40	272.20	418.00	627.60	1321.10	3562.00	1811.50	165.10	441.60	630.70	499.30	73.80	
15	441.60	384.50	396.10	585.30	1502.90	3641.40	2134.60	155.20	484.90	623.60	488.70	93.70	
16	396.10	421.70	355.80	617.40	1461.70	3641.40	2037.20	135.70	738.80	613.40	522.80	114.40	
17	390.30	411.40	438.70	695.20	1702.80	4293.80	1821.00	203.20	554.30	599.30	516.00	73.80	
18	157.70	378.80	488.70	699.20	2139.50	4957.40	1712.20	165.10	468.40	620.50	499.30	98.30	
19	461.70	396.10	488.70	674.40	2183.60	5263.20	1731.10	147.80	239.90	623.60	495.50	83.10	
20	147.80	182.70	471.40	502.30	1974.30	5242.50	1665.30	145.40	418.00	536.60	499.30	105.10	
21	89.20	255.90	471.40	358.70	1945.40	5221.90	1521.30	145.40	441.60	578.30	481.90	98.30	
22	157.70	213.60	471.40	190.30	2409.50	5221.90	924.20	133.30	432.00	606.40	478.20	79.30	
23	147.80	190.30	471.40	140.50	2409.50	5098.50	878.00	126.20	415.10	536.60	478.20	96.00	
24	140.50	172.60	464.70	121.40	2403.50	4650.40	367.30	119.10	432.00	567.40	471.40	83.10	
25	208.40	187.80	458.00	121.40	2526.90	4093.20	319.10	116.70	424.60	532.80	441.60	93.70	
26	145.40	277.60	475.20	126.20	2806.60	3807.60	367.30	102.80	421.70	401.90	499.30	85.30	
27	55.40	296.80	481.90	213.60	3054.90	3978.30	353.00	83.10	564.30	613.40	458.00	81.50	
28	1.30	316.30	475.20	321.90	2878.60	4126.20	338.80	81.50	757.40	645.00	428.30	73.80	
29	43.80	294.10	461.70	347.30	2491.70	3898.80	324.70	64.20	746.10	543.50	418.00	73.80	
30	208.40	408.50	468.40	367.30	2435.50	3173.00	327.50	64.20	732.30	543.50		73.80	
31		502.30		381.60	2307.90		333.10		716.90	532.80		73.80	
Total	8418.70	6802.20	11541.60	13880.20	54920.90	106240.10	55228.80	5987.40	12377.50	19380.90	14744.10	3838.00	313360.40
Mean	280.60	219.40	384.70	447.70	1771.60	3541.30	1781.60	199.60	399.30	625.20	508.40	123.80	
Max	567.40	502.30	488.70	699.20	3054.90	5263.20	3277.20	557.40	757.40	750.10	560.50	560.50	5263.20
Min	1.30	55.40	247.90	121.40	724.20	1698.10	319.10	64.20	64.20	401.90	418.00	73.80	1.30

WATER YEAR : 2011**NAN RIVER BASIN****Khek River at Ban Wang Nok Aen , Phitsanulok (N.24A)**

Lat 16 - 50 - 36 N Long 100 - 31 - 20 E

Location : on right bank about 2 kilometers downstream from Sakunothayan Fall.

	Ban Wang Nok Aen	Amphoe Wang Thong	Changwat Phitsanulok
Drainage Area	1,838 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1996-Cont'd		
Actual Measurement	1996-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	22		
R-Square	0.8843		
Remarks	Continued Sediment Station		

$$QS = 1.2138 QW^{1.53890}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.60	501.20	1260.00	314.40	728.80	2602.10	1750.00	164.60	32.10	10.20	5.00	1.20	
2	1.80	551.30	844.20	892.70	4028.90	2523.10	1693.10	156.30	30.90	9.90	4.70	1.00	
3	2.50	326.20	702.70	619.60	2732.10	5144.10	2309.40	148.20	29.80	9.50	5.60	0.90	
4	2.70	72.00	557.70	659.80	1880.50	2796.40	2496.00	138.30	28.60	9.10	9.10	0.90	
5	2.70	145.20	581.90	498.10	1201.00	2084.80	1757.20	129.60	27.50	9.10	15.30	0.70	
6	2.30	504.30	704.40	430.70	782.20	4790.10	1917.30	122.90	25.30	8.70	11.90	0.60	
7	5.90	695.80	836.80	291.20	588.40	5678.80	1611.30	118.20	24.80	8.70	11.00	0.40	
8	5.90	515.10	603.10	212.70	518.30	3605.90	1114.30	114.60	24.20	8.30	9.50	0.40	
9	5.60	578.60	501.20	176.20	609.70	5102.40	923.00	107.30	23.20	8.30	7.30	0.40	
10	11.50	286.10	387.70	220.70	548.10	6407.50	789.40	115.50	22.70	8.00	5.60	0.40	
11	12.30	214.90	305.30	148.20	464.70	4628.10	699.20	109.10	21.60	8.00	5.00	2.00	
12	9.90	188.10	475.30	145.20	771.40	3773.10	644.60	110.00	20.10	7.30	4.40	9.90	
13	4.40	114.60	379.30	124.80	1085.90	7545.10	734.10	107.30	19.60	6.90	4.10	3.30	
14	4.70	28.60	548.10	326.20	816.60	7829.50	702.70	94.10	19.10	6.60	3.50	2.30	
15	4.40	255.10	311.80	343.60	721.80	5238.30	813.00	83.20	18.60	6.20	3.50	2.30	
16	2.50	209.20	255.10	504.30	959.50	5947.50	1209.40	77.50	18.20	6.20	3.30	3.00	
17	4.40	102.80	518.30	397.60	1560.60	4715.60	695.80	73.60	17.70	5.90	3.00	4.40	
18	3.80	103.70	521.40	277.30	1625.20	3294.30	551.30	70.50	16.70	5.90	2.70	17.20	
19	8.00	269.80	1075.90	1443.00	959.50	2701.40	475.30	68.10	16.30	5.60	2.70	9.50	
20	6.60	1114.30	609.70	923.00	1521.80	2469.00	411.90	65.10	15.30	5.30	2.50	5.60	
21	11.50	994.50	433.60	915.40	3399.10	2671.00	424.90	62.10	15.30	5.30	2.30	3.50	
22	5.90	400.40	464.70	1043.80	4044.90	2561.10	406.10	57.70	14.90	5.60	2.30	2.70	
23	11.90	191.40	311.80	1039.90	2640.60	2690.30	314.40	58.50	14.40	7.30	2.00	2.00	
24	20.60	117.30	243.00	666.60	1636.80	4329.80	282.30	54.20	14.00	8.00	1.80	1.60	
25	7.60	110.00	199.10	575.40	1067.80	3360.00	267.30	51.40	13.10	6.90	1.60	1.40	
26	6.20	129.60	249.00	847.90	909.70	2542.10	249.00	43.90	12.70	6.60	1.40	1.20	
27	5.90	279.80	305.30	857.10	940.20	2807.70	230.00	37.50	12.30	7.60	1.40	0.90	
28	11.50	244.20	256.30	621.20	1071.80	3387.00	214.90	34.50	11.90	7.30	1.40	0.60	
29	19.10	737.60	261.20	678.60	926.80	2640.60	202.50	33.90	11.50	5.90	1.40	0.40	
30	76.00	2402.10	214.90	513.60	3117.40	2262.30	188.10	33.30	11.00	5.60		0.40	
31		2036.80		364.00	4807.00		176.20		10.60	5.00		0.30	
Total	279.70	14420.60	14918.80	17072.80	48667.10	118129.00	26254.00	2641.00	594.00	224.80	135.30	81.40	243418.50
Mean	9.30	465.20	497.30	550.70	1569.90	3937.60	846.90	88.00	19.20	7.30	4.70	2.60	
Max	76.00	2402.10	1260.00	1443.00	4807.00	7829.50	2496.00	164.60	32.10	10.20	15.30	17.20	7829.50
Min	1.60	28.60	199.10	124.80	464.70	2084.80	176.20	33.30	10.60	5.00	1.40	0.30	0.30

WATER YEAR : 2011**NAN RIVER BASIN****Nam Khwae Noi at Ban Nong Krathao , Phitsanulok (N.36)**

Lat 17 - 04 - 59 N Long 100 - 49 - 44 E

Location : on left bank about 50 meters upstream from the bridge along Lom Sak - Nakhon Thai Road, Tambon Nong Krathao.

	Ban	Nong Krathao	Amphoe	Nakhon Thai	Changwat	Phitsanulok
Drainage Area	1,710	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2000-Cont'd					
Actual Measurement	2000-Cont'd					
Using Rating Curve Water Year	2000-2011					
Number of observation	168					
R-Square	0.7848					
Remarks	Continued Sediment Station					

$$QS = 4.7680 QW^{1.36040}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	29.30	355.70	1371.90	987.00	2685.90	6436.60	5028.20	269.30	84.80	38.00	31.40	20.30	
2	29.30	413.80	780.20	1543.10	7509.50	6175.40	4566.50	259.90	52.10	34.70	33.60	21.30	
3	26.20	258.00	454.50	1636.90	7969.20	6262.10	6878.30	235.90	49.70	38.00	41.40	27.20	
4	27.20	300.00	534.30	1418.60	6878.30	7876.70	9448.60	219.60	52.10	35.80	50.90	26.20	
5	23.20	543.40	582.40	1450.90	5379.90	6262.10	6967.60	191.50	49.70	36.90	57.10	24.20	
6	30.40	394.80	465.40	987.00	4016.10	7057.20	5309.10	186.40	46.10	36.90	43.70	24.20	
7	27.20	378.20	641.10	636.30	2996.10	9332.40	4566.50	179.50	43.70	36.90	44.90	23.20	
8	29.30	367.90	424.40	456.60	2428.80	8986.30	3093.00	167.80	42.60	36.90	39.10	22.20	
9	39.10	575.50	321.50	378.20	2188.60	8304.70	2469.50	151.30	41.40	35.80	32.50	21.30	
10	22.20	339.50	300.00	361.80	1913.80	7969.20	2080.70	144.90	41.40	32.50	30.40	22.20	
11	36.90	280.70	225.00	378.20	1929.70	7509.50	1679.60	140.10	49.70	32.50	27.20	43.70	
12	62.10	296.10	367.90	305.80	2459.30	6101.90	1430.30	133.80	38.00	32.50	27.20	54.60	
13	39.10	140.10	1067.80	296.10	2703.30	6436.60	1342.90	138.50	36.90	33.60	26.20	55.80	
14	35.80	269.30	910.60	370.00	2575.30	7327.70	1591.30	129.10	36.90	33.60	26.20	53.30	
15	30.40	399.00	660.20	790.20	2348.00	7692.60	1850.50	126.00	41.40	33.60	25.20	52.10	
16	29.30	245.10	394.80	1392.20	2071.00	7876.70	1907.40	121.40	39.10	35.80	23.20	52.10	
17	29.30	146.50	718.30	1766.10	1901.10	10425.90	1392.20	100.50	42.60	33.60	22.20	52.10	
18	21.30	144.90	1673.50	1220.10	2459.30	9101.30	928.90	97.60	43.70	30.40	19.30	52.10	
19	24.20	382.30	2152.50	1543.10	3219.90	6967.60	755.30	97.60	39.10	28.30	19.30	50.90	
20	32.50	1615.60	1564.20	2685.90	4889.30	5665.80	691.50	97.60	36.90	28.30	19.30	49.70	
21	34.70	2530.80	992.30	2428.80	8192.50	4566.50	631.60	90.50	39.10	36.90	15.70	49.70	
22	15.70	1652.10	650.60	2234.80	6878.30	4690.90	641.10	89.00	38.00	42.60	13.90	49.70	
23	18.40	428.60	478.50	2087.20	5737.90	5379.90	532.00	87.60	38.00	49.70	15.70	46.10	
24	32.50	212.50	347.60	1850.50	4820.20	5451.00	494.00	84.80	39.10	39.10	18.40	39.10	
25	47.30	378.20	345.50	1621.60	3381.30	5028.20	445.80	78.00	42.60	36.90	23.20	34.70	
26	44.90	450.10	1325.50	1679.60	2647.70	4502.70	394.80	71.30	39.10	34.70	21.30	27.20	
27	43.70	686.60	2172.10	2025.70	2479.70	4316.50	370.00	68.60	38.00	28.30	21.30	19.30	
28	41.40	547.90	2080.70	1948.80	2291.20	7237.20	333.50	73.90	38.00	28.30	23.20	19.30	
29	55.80	1923.30	1735.10	1929.70	1828.60	7876.70	305.80	73.90	39.10	31.40	24.20	14.80	
30	130.70	2208.30	1245.50	1652.10	2271.20	6524.30	305.80	86.20	38.00	31.40		21.30	
31		1766.10		1161.30	5665.80		278.80		38.00	31.40		21.30	
Total	1089.40	20630.90	26983.90	41224.20	116716.80	205342.20	68711.10	3992.10	1334.90	1075.30	817.20	1091.20	489009.30
Mean	36.30	665.50	899.50	1329.80	3765.10	6844.70	2216.50	133.10	43.10	34.70	28.20	35.20	
Max	130.70	2530.80	2172.10	2685.90	8192.50	10425.90	9448.60	269.30	84.80	49.70	57.10	55.80	10425.90
Min	15.70	140.10	225.00	296.10	1828.60	4316.50	278.80	68.60	36.90	28.30	13.90	14.80	13.90

WATER YEAR : 2011**NAN RIVER BASIN****Khlong Wang Pong at Ban Wang Pong , Phetchabun (N.54)**

Lat 16 - 19 - 34 N Long 100 - 48 - 17 E

Location : on left bank at the bridge on road.

	Ban Wang Pong	Amphoe Chon Dan	Changwat Phetchabun
Drainage Area	174 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1999-Cont'd		
Actual Measurement	1999-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	22		
R-Square	0.7024		
Remarks	Continued Sediment Station		

$$QS = 7.4610 QW^{1.59440}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.00	8.70	1.10	3157.80	768.50	696.20	32.20	3.30	1.10	0.60	0.20	
2	0.20	0.00	1145.10	1.10	1199.90	664.20	583.70	40.70	2.50	1.10	0.60	0.20	
3	0.60	0.00	209.50	293.20	507.10	728.70	748.50	32.20	3.30	1.70	0.60	0.00	
4	0.60	0.00	140.40	94.00	326.60	664.20	857.40	32.20	4.20	1.70	0.60	0.00	
5	0.60	0.00	892.50	40.70	201.40	507.10	583.70	30.10	3.30	1.70	0.60	0.00	
6	0.20	201.40	715.60	8.70	109.80	2063.40	664.20	28.20	5.20	1.70	0.60	0.00	
7	0.20	55.00	1083.50	14.20	376.60	1160.60	583.70	19.00	4.20	1.10	0.60	0.00	
8	0.20	40.70	140.40	7.50	293.20	2526.10	536.10	24.40	3.30	1.10	0.60	0.00	
9	0.20	50.10	116.30	1223.70	1548.70	4352.70	495.70	28.20	4.20	1.10	0.60	0.00	
10	0.60	45.30	76.30	1479.70	252.30	1462.70	341.30	166.00	3.30	1.10	0.60	0.00	
11	0.20	30.10	55.00	158.50	429.20	1304.30	495.70	103.40	2.50	1.10	0.60	0.20	
12	0.20	76.30	32.20	60.10	1304.30	2791.90	565.70	76.30	2.50	1.10	0.60	0.20	
13	0.20	28.20	7.50	19.00	507.10	1370.20	366.40	50.10	2.50	1.10	0.60	0.20	
14	0.20	15.80	19.00	30.10	261.20	664.20	366.40	40.70	2.50	1.10	0.60	0.20	
15	0.20	70.80	7.50	768.50	781.90	1098.80	341.30	28.20	2.50	1.10	0.60	0.00	
16	0.20	45.30	3.30	565.70	5158.00	2589.00	270.20	19.00	2.50	1.10	0.60	0.00	
17	0.20	32.20	12.80	696.20	1060.80	1690.10	230.50	15.80	2.50	1.10	0.60	0.00	
18	0.20	40.70	5.20	201.40	748.50	583.70	193.30	14.20	2.50	1.10	0.60	0.00	
19	0.20	22.50	30.10	715.60	2641.90	748.50	133.30	19.00	2.50	1.10	0.20	0.00	
20	0.20	14.20	5.20	715.60	9027.10	536.10	109.80	24.40	2.50	0.60	0.20	0.00	
21	0.20	5.20	4.20	748.50	1864.00	1247.70	109.80	22.50	1.70	1.10	0.20	0.00	
22	0.20	0.60	2.50	583.70	1882.60	1199.90	103.40	19.00	1.70	1.10	0.20	0.00	
23	0.20	0.60	8.70	386.90	728.70	1522.70	147.50	15.80	2.50	0.60	0.20	0.00	
24	0.20	0.60	2.50	507.10	1808.40	1939.10	133.30	14.20	1.70	1.10	0.20	0.00	
25	0.20	0.60	2.50	209.50	583.70	1263.80	109.80	12.80	1.70	1.10	0.20	0.00	
26	0.20	1.10	1.10	326.60	715.60	1836.10	88.00	10.00	1.70	1.10	0.20	0.00	
27	0.20	1.10	1.10	126.40	781.90	1864.00	65.30	8.70	1.70	1.10	0.20	0.00	
28	0.20	0.60	1.10	768.50	583.70	1808.40	50.10	8.70	1.70	1.10	0.20	0.00	
29	0.20	0.60	261.20	166.00	1437.20	2300.50	55.00	7.50	1.70	1.10	0.20	0.00	
30	0.20	1.10	14.20	140.40	802.30	871.40	40.70	5.20	1.70	1.70		0.00	
31		1.10		748.50	748.50		32.20		1.10	1.10		0.00	
Total	7.60	781.80	5005.20	11806.70	41830.00	44128.60	10098.20	948.70	80.70	36.10	13.00	1.20	114737.80
Mean	0.30	25.20	166.80	380.90	1349.40	1471.00	325.70	31.60	2.60	1.20	0.40	0.00	
Max	0.60	201.40	1145.10	1479.70	9027.10	4352.70	857.40	166.00	5.20	1.70	0.60	0.20	9027.10
Min	0.20	0.00	1.10	1.10	109.80	507.10	32.20	5.20	1.10	0.60	0.20	0.00	0.00

WATER YEAR : 2011**NAN RIVER BASIN****Nam Phak at Ban Tha Sakae , Phitsanulok (N.55)**

Lat 17 - 15 - 06 N Long 100 - 37 - 53 E

Location : on left bank at the bridge of Nakhon Thai - Chat Trakan Road , Tambon Pa Daeng.

	Ban Tha Sakae	Amphoe Chat Trakan	Changwat Phitsanulok
Drainage Area	971 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1994-Cont'd		
Actual Measurement	1994-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	23		
R-Square	0.8980		
Remarks	Continued Sediment Station		

$$QS = 1.2420 QW^{1.52090}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.40	14.40	143.40	121.90	3714.40	1087.20	1159.10	85.00	24.00	10.60	6.30	3.60	
2	4.10	21.40	99.90	92.40	4853.70	924.40	1114.20	80.30	22.90	10.60	5.90	3.60	
3	4.10	24.00	75.60	169.10	3609.40	890.10	1537.30	77.10	22.40	10.20	5.60	3.30	
4	4.10	11.80	74.80	127.40	3531.40	911.70	2095.60	74.00	22.40	10.20	5.60	3.00	
5	3.80	9.80	70.20	100.80	2710.30	821.00	2014.30	69.50	21.90	9.80	6.60	3.30	
6	3.80	16.10	62.90	77.90	2054.80	1100.70	1653.50	68.00	19.90	9.50	8.30	3.30	
7	4.70	26.10	55.10	62.10	1866.60	1264.90	1342.60	63.60	16.60	9.10	7.30	3.30	
8	5.60	15.70	42.50	52.30	1214.60	1159.10	1024.40	59.30	19.00	8.70	6.90	3.60	
9	5.00	10.60	36.90	47.00	983.20	1200.60	840.30	57.20	19.90	8.70	5.60	3.60	
10	5.60	9.80	35.10	42.50	770.90	1806.80	657.70	54.40	19.40	8.70	5.00	3.30	
11	5.60	9.10	31.60	39.30	1242.60	1806.80	502.90	53.00	18.50	8.70	5.00	4.70	
12	5.30	8.00	38.10	35.10	1765.70	1546.00	410.10	49.00	16.60	8.70	5.00	7.60	
13	5.60	8.00	51.00	34.50	1684.70	1409.30	408.70	49.00	15.70	8.00	5.60	7.30	
14	5.60	8.30	78.70	40.60	1451.50	1451.50	324.00	41.80	15.70	8.30	5.00	6.60	
15	5.30	11.80	75.60	143.40	1106.50	1635.80	355.00	41.20	16.10	8.70	4.40	5.60	
16	5.00	36.30	81.00	159.00	886.50	2621.50	440.80	39.30	16.60	8.30	4.10	4.70	
17	5.00	48.30	111.10	127.40	845.60	2293.60	305.20	40.00	15.70	7.30	3.80	4.70	
18	5.00	29.90	183.50	128.30	1214.60	1765.70	279.40	38.10	15.20	7.30	3.60	4.40	
19	3.80	53.70	113.80	140.50	1342.60	1426.10	229.20	37.50	16.60	7.60	3.00	7.30	
20	5.60	176.30	68.00	143.40	1417.70	1186.70	236.00	36.30	13.50	7.30	3.80	6.60	
21	5.30	91.50	49.00	162.00	2182.80	1125.90	259.20	35.10	12.20	8.70	4.10	3.80	
22	4.40	54.40	43.70	183.50	2451.90	1359.20	190.90	34.50	13.10	11.00	3.80	4.40	
23	5.00	36.90	36.90	175.20	1974.00	1206.60	165.00	33.30	13.50	10.20	3.80	5.00	
24	8.00	26.60	31.60	273.40	1528.60	1222.60	151.10	30.50	13.10	9.10	3.80	4.70	
25	14.40	19.90	28.80	266.20	1172.90	1062.30	137.70	29.90	12.70	10.20	3.60	4.40	
26	8.70	24.00	49.00	216.90	1228.60	970.20	126.50	27.70	11.80	6.60	3.60	3.00	
27	7.60	33.30	425.30	258.00	1214.60	826.20	121.90	26.60	11.40	5.90	3.60	3.00	
28	6.30	154.10	489.60	223.60	1192.70	1094.90	115.60	25.50	11.00	5.60	3.80	3.30	
29	6.60	161.00	410.10	272.20	1056.60	1451.50	106.80	24.00	10.20	5.60	3.60	3.30	
30	12.70	223.60	193.00	197.30	779.40	1375.80	96.50	22.40	9.80	6.30		3.00	
31		263.90		312.70	890.10		91.50		9.80	6.30		3.00	
Total	176.00	1638.60	3285.80	4425.90	53939.50	40004.70	18493.00	1403.10	497.20	261.80	140.10	134.30	124400.00
Mean	5.90	52.90	109.50	142.80	1740.00	1333.50	596.50	46.80	16.00	8.40	4.80	4.30	
Max	14.40	263.90	489.60	312.70	4853.70	2621.50	2095.60	85.00	24.00	11.00	8.30	7.60	4853.70
Min	3.80	8.00	28.80	34.50	770.90	821.00	91.50	22.40	9.80	5.60	3.00	3.00	3.00

WATER YEAR : 2011**NAN RIVER BASIN****Nam Fua at Ban Nam Fua , Phitsanulok (N.58)**

Lat 17 - 08 - 45 N Long 100 - 56 - 04 E

Location : on left bank at the bridge of Nakhon Thai - Dan Sai Road from the guidpost 11.5

	Ban	Nam Fua	Amphoe	Nakhon Thai	Changwat	Phitsanulok
Drainage Area	317	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2001-Cont'd					
Actual Measurement	2001-Cont'd					
Using Rating Curve Water Year	2001-2011					
Number of observation	157					
R-Square	0.7254					
Remarks	Continued Sediment Station					

$$QS = 13.2740 QW^{1.60890}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	11.20	61.80	11397.00	310.90	619.60	104.20	40.50	31.20	17.80	15.50	
2	0.00	0.30	3.00	160.10	1351.70	14454.00	513.60	104.20	40.50	31.20	17.80	15.50	
3	0.00	0.30	11.20	99.60	218.30	1302.80	1426.10	99.60	40.50	31.20	17.80	15.50	
4	0.30	0.00	3.00	69.60	138.70	884.60	4048.10	99.60	40.50	31.20	17.80	15.50	
5	0.00	1.00	20.20	61.80	95.10	310.90	619.60	95.10	40.50	31.20	17.80	15.50	
6	0.00	0.00	13.30	104.20	65.60	310.90	310.90	95.10	40.50	31.20	17.80	15.50	
7	0.00	0.30	11.20	86.20	54.30	684.90	310.90	90.60	40.50	31.20	17.80	15.50	
8	0.00	0.30	9.30	77.70	77.70	959.00	310.90	90.60	40.50	31.20	17.80	15.50	
9	0.00	1.90	7.50	69.60	160.10	684.90	310.90	90.60	37.30	31.20	17.80	15.50	
10	0.00	0.30	7.50	95.10	224.50	782.30	310.90	86.20	37.30	31.20	17.80	15.50	
11	0.30	0.30	11.20	82.00	138.70	310.90	310.90	86.20	34.20	31.20	17.80	20.20	
12	0.00	1.90	376.70	69.60	12461.20	853.40	303.90	86.20	34.20	25.50	15.50	86.20	
13	0.00	3.00	28.30	47.20	1605.70	1114.50	250.00	86.20	34.20	25.50	15.50	54.30	
14	0.00	1.90	13.30	25.50	369.10	812.50	224.50	82.00	34.20	25.50	15.50	31.20	
15	0.00	0.30	13.30	15.50	310.90	1035.70	212.20	82.00	34.20	25.50	15.50	212.20	
16	0.00	1.00	7.50	13.30	310.90	18170.90	212.20	82.00	34.20	22.80	15.50	37.30	
17	0.00	0.30	4.40	11.20	310.90	1658.50	194.20	77.70	34.20	22.80	15.50	22.80	
18	0.00	1.00	28.30	22.80	310.90	713.60	194.20	77.70	34.20	22.80	15.50	22.80	
19	0.00	58.00	13.30	15.50	16146.40	310.90	182.60	77.70	34.20	22.80	15.50	20.20	
20	0.00	423.20	11.20	61.80	2859.60	310.90	182.60	73.60	31.20	20.20	15.50	20.20	
21	0.00	160.10	9.30	176.80	310.90	6729.00	171.20	69.60	31.20	20.20	15.50	20.20	
22	0.30	69.60	13.30	99.60	310.90	1401.10	171.20	69.60	31.20	20.20	15.50	20.20	
23	0.00	34.20	13.30	113.70	310.90	1605.70	171.20	69.60	31.20	20.20	15.50	20.20	
24	0.00	15.50	11.20	149.30	310.90	853.40	160.10	65.60	31.20	20.20	15.50	17.80	
25	0.00	65.60	9.30	113.70	310.90	853.40	160.10	65.60	31.20	17.80	15.50	17.80	
26	0.30	99.60	592.40	77.70	310.90	916.20	160.10	58.00	31.20	17.80	15.50	17.80	
27	0.00	47.20	407.50	176.80	310.90	4235.80	160.10	54.30	31.20	17.80	15.50	17.80	
28	0.00	22.80	496.70	144.00	310.90	1766.00	113.70	50.70	31.20	17.80	15.50	15.50	
29	0.00	28.30	1046.80	138.70	310.90	959.00	113.70	47.20	31.20	17.80	15.50	13.30	
30	0.00	11.20	1013.50	5.80	310.90	1502.10	128.50	34.20	31.20	17.80		13.30	
31		28.30		1137.40	310.90		128.50		31.20	17.80		13.30	
Total	1.20	1077.70	4218.20	3583.60	52027.20	66798.70	12687.20	2351.50	1080.80	762.00	474.80	869.60	145932.50
Mean	0.00	34.80	140.60	115.60	1678.30	2226.60	409.30	78.40	34.90	24.60	16.40	28.10	
Max	0.30	423.20	1046.80	1137.40	16146.40	18170.90	4048.10	104.20	40.50	31.20	17.80	212.20	18170.90
Min	0.00	0.00	3.00	5.80	54.30	310.90	113.70	34.20	31.20	17.80	15.50	13.30	0.00

WATER YEAR : 2011**NAN RIVER BASIN****Lam Nam Khan at Ban Na Chan , Phitsanulok (N.59)**

Lat 17 - 01 - 49 N Long 100 - 50 - 35 E

Location : on left bank at Ban Na Chan.

	Ban Na Chan	Amphoe Nakhon Thai	Changwat Phitsanulok
Drainage Area	415 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2001-Cont'd		
Actual Measurement	2001-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	20		
R-Square	0.9092		
Remarks	Continued Sediment Station		

$$QS = 3.5589 QW^{1.63020}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.10	112.10	221.40	139.70	753.00	3083.80	432.50	35.50	6.90	3.60	2.50	0.80	
2	1.10	118.80	182.70	403.20	703.10	1203.60	541.10	30.00	6.90	3.60	2.50	0.80	
3	1.10	18.00	62.50	210.00	818.50	5962.10	425.10	26.20	6.90	3.60	7.70	1.10	
4	1.10	20.20	81.00	300.60	462.50	1181.70	2496.90	26.20	6.20	3.00	9.30	0.80	
5	1.10	323.50	147.00	164.50	256.80	776.20	955.50	24.90	6.20	3.00	6.20	0.80	
6	1.10	316.90	159.40	137.30	154.40	10726.30	1063.60	24.90	6.20	3.00	3.60	0.80	
7	0.50	421.40	204.50	71.50	101.30	11088.10	565.60	24.90	6.20	3.00	3.00	0.80	
8	0.50	307.10	81.00	66.00	81.00	8820.70	388.80	23.70	6.20	3.00	3.00	0.80	
9	1.10	101.30	62.50	64.30	247.70	3837.40	294.20	22.50	6.20	3.00	2.50	0.80	
10	0.80	69.70	55.60	64.30	164.50	3036.30	215.70	22.50	6.20	2.50	2.50	1.10	
11	0.80	114.30	44.40	134.90	238.80	1304.40	144.50	21.30	5.50	2.50	2.50	11.00	
12	2.00	54.00	42.80	57.30	320.20	1181.70	81.00	20.20	5.50	2.50	2.50	11.00	
13	1.50	27.40	60.70	137.30	210.00	1681.20	250.70	18.00	5.50	2.50	2.50	3.00	
14	1.10	27.40	374.70	109.90	188.10	1619.00	159.40	16.90	4.80	2.50	2.00	2.00	
15	0.80	156.90	62.50	262.90	188.10	1361.70	241.80	15.90	4.80	3.00	2.00	1.50	
16	0.80	31.40	75.30	762.30	127.90	2585.20	385.30	14.80	4.20	3.00	2.00	2.00	
17	0.80	27.40	360.70	347.00	307.10	6199.20	105.60	14.80	4.20	2.50	2.00	3.00	
18	0.50	62.50	1154.40	159.40	470.20	1509.20	107.70	14.80	4.20	2.00	2.00	2.00	
19	0.50	221.40	350.40	1338.70	425.10	986.00	101.30	13.80	3.60	2.50	2.00	1.50	
20	4.20	970.70	196.20	569.70	2053.20	721.10	79.10	13.80	3.60	3.00	2.00	1.10	
21	1.10	196.20	109.90	396.00	920.50	1074.20	73.40	11.00	3.00	4.20	2.00	1.10	
22	0.80	81.00	95.00	291.00	481.70	582.10	64.30	9.30	3.00	3.60	1.50	1.10	
23	147.00	42.80	93.00	241.80	303.80	1016.80	62.50	9.30	3.00	3.00	1.50	0.80	
24	9.30	75.30	62.50	218.50	221.40	1021.90	57.30	9.30	3.00	2.50	1.50	0.80	
25	3.60	201.70	79.10	188.10	144.50	1006.50	55.60	8.50	2.50	2.50	1.50	0.80	
26	4.80	118.80	79.10	218.50	218.50	730.20	50.70	8.50	2.50	2.50	1.50	0.80	
27	6.20	201.70	75.30	244.70	513.10	1327.20	49.10	8.50	2.50	2.50	1.50	0.80	
28	2.50	481.70	149.40	330.10	215.70	2183.50	47.50	7.70	2.50	2.50	1.10	0.80	
29	8.50	1293.00	93.00	281.50	182.70	1281.70	47.50	7.70	2.50	2.50	1.10	0.80	
30	4.20	685.30	71.50	353.80	2026.20	658.90	42.80	7.70	2.50	2.50		0.80	
31		367.70		253.70	8654.60		38.40		2.50	2.50		0.80	
Total	210.50	7247.60	4887.50	8518.50	22154.20	79747.90	9624.50	513.10	139.50	88.10	77.50	56.10	133265.00
Mean	7.00	233.80	162.90	274.80	714.70	2658.30	310.50	17.10	4.50	2.80	2.70	1.80	
Max	147.00	1293.00	1154.40	1338.70	8654.60	11088.10	2496.90	35.50	6.90	4.20	9.30	11.00	11088.10
Min	0.50	18.00	42.80	57.30	81.00	582.10	38.40	7.70	2.50	2.00	1.10	0.80	0.50

WATER YEAR : 2011**NAN RIVER BASIN****Nan River at Ban Pha Khwang , Nan (N.64)**

Lat 19 - 00 - 32 N Long 100 - 47 - 19 E

Location : on right bank at the bridge on highway from Tambon Bo.

	Ban	Pha Khwang	Amphoe	Mueang	Changwat	Nan
Drainage Area	3,476	sq.km.				
Method of sampling	Depth	Integrating				
Instrument Used	US.D-49					
Period of Available Records	1994-Cont'd					
Actual Measurement	1994-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	36					
R-Square	0.8619					
Remarks	Continued Sediment Station					

$$QS = 0.01400 QW^{2.40970}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.30	146.30	492.00	48601.10	18420.20	8863.90	24726.60	1248.00	84.70	27.60	17.00	8.00	
2	3.30	54.90	198.70	22503.70	28499.60	7615.90	21613.40	1053.30	84.70	27.60	15.20	6.90	
3	2.10	59.30	162.70	14111.10	28706.90	5335.50	11161.10	854.10	84.70	25.20	15.20	6.90	
4	2.10	332.60	146.30	11161.10	10923.50	8370.80	7524.50	444.90	79.00	25.20	15.20	6.90	
5	2.10	238.90	154.40	6394.10	10923.50	23972.00	5552.20	332.60	68.60	25.20	15.20	6.90	
6	1.80	658.50	901.60	4017.40	10007.50	27073.10	4201.30	283.50	54.90	25.20	15.20	6.90	
7	18.90	307.50	1661.90	2989.20	72399.70	48601.10	3499.30	271.90	46.80	25.20	13.60	6.90	
8	63.90	90.60	581.00	2146.60	66385.60	81998.50	3289.60	249.60	46.80	25.20	13.60	6.90	
9	17.00	54.90	699.40	2028.30	33038.80	49831.20	3238.30	228.40	43.00	25.20	13.60	8.00	
10	5.90	218.20	372.50	10923.50	33719.50	34214.60	2845.20	218.20	39.40	23.00	13.60	8.00	
11	8.00	1731.80	228.40	13170.40	22684.30	23415.00	2481.60	208.30	32.70	23.00	13.60	8.00	
12	8.00	415.10	208.30	5335.50	28499.60	13435.30	2146.60	208.30	32.70	23.00	12.00	9.20	
13	4.90	162.70	198.70	6077.80	23785.50	10342.60	1731.80	208.30	32.70	25.20	12.00	9.20	
14	5.90	146.30	146.30	67120.70	17318.50	10228.70	1527.10	208.30	32.70	23.00	12.00	8.00	
15	4.10	116.50	130.90	81998.50	12908.50	11891.80	1462.20	198.70	32.70	23.00	12.00	12.00	
16	4.10	116.50	116.50	78317.00	9270.40	16555.70	1951.60	180.20	32.70	25.20	12.00	13.60	
17	4.90	154.40	109.70	121848.10	18420.20	14386.90	1399.00	171.30	32.70	25.20	10.60	12.00	
18	5.90	2146.60	96.70	41874.00	16107.70	43859.40	1162.20	162.70	32.70	23.00	10.60	12.00	
19	5.90	1307.20	90.60	21967.00	29756.50	102382.40	1079.90	154.40	32.70	20.90	10.60	9.20	
20	4.10	1001.20	146.30	41039.50	97266.60	48907.00	901.60	138.50	32.70	20.90	10.60	9.20	
21	3.30	1876.60	138.50	32813.70	88355.40	76712.50	808.00	130.90	32.70	20.90	9.20	8.00	
22	2.70	741.80	116.50	30828.30	173787.90	56586.70	720.40	123.60	30.10	18.90	9.20	8.00	
23	2.70	171.30	90.60	20402.20	79533.20	30828.30	619.10	123.60	30.10	18.90	8.00	5.90	
24	13.60	96.70	96.70	30828.30	41316.50	24536.70	562.50	116.50	27.60	18.90	8.00	5.90	
25	50.80	295.30	1399.00	18904.60	31263.30	19562.00	492.00	116.50	27.60	17.00	8.00	4.90	
26	20.90	400.60	201682.70	9687.50	29969.10	18260.40	492.00	109.70	27.60	17.00	8.00	4.90	
27	8.00	249.60	561321.50	7894.10	24726.60	23599.90	492.00	109.70	30.10	15.20	8.00	4.90	
28	5.90	429.80	408289.50	8863.90	21613.40	13974.40	492.00	103.10	27.60	15.20	8.00	10.60	
29	6.90	619.10	105237.70	5699.60	13170.40	10228.70	460.30	96.70	27.60	15.20	8.00	9.20	
30	10.60	444.90	30182.60	4583.50	10457.30	9687.50	415.10	96.70	27.60	15.20		5.90	
31		599.90		9270.40	9582.20		415.10		27.60	17.00		4.90	
Total	301.60	15385.60	1315398.40	783400.80	1112817.90	875258.40	109463.60	8150.50	1275.80	676.40	337.80	247.80	4222715.50
Mean	10.10	496.30	43846.60	25271.00	35897.40	29175.30	3531.10	271.70	41.20	21.80	11.60	8.00	
Max	63.90	2146.60	561321.50	121848.10	173787.90	102382.40	24726.60	1248.00	84.70	27.60	17.00	13.60	561321.50
Min	1.80	54.90	90.60	2028.30	9270.40	5335.50	415.10	96.70	27.60	15.20	8.00	4.90	1.80

WATER YEAR : 2011**NAN RIVER BASIN****Huai Om Sing at Ban Noen Phoem , Phitsanulok (N.66)**

Lat 17 - 07 - 22 N Long 100 - 53 - 58 E

Location : on right bank at Ban Noen Phoem.

	Ban	Noen Phoem	Amphoe	Nakhon Thai	Changwat	Phitsanulok
Drainage Area	152	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2001-Cont'd					
Actual Measurement	2001-Cont'd					
Using Rating Curve Water Year	2001-2011					
Number of observation	143					
R-Square	0.7591					
Remarks	Continued Sediment Station					

$$QS = 12.2970 QW^{1.43680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.40	19.90	16.00	56.80	690.40	90.10	197.30	16.00	2.20	0.40	0.00	0.00	
2	0.40	110.20	16.00	124.20	235.30	80.60	326.60	14.10	1.20	0.00	0.00	0.00	
3	0.40	5.90	16.00	56.80	385.50	3221.10	3444.20	14.10	1.20	0.00	0.00	0.00	
4	0.40	100.00	54.00	106.70	218.10	226.60	745.10	12.30	1.20	0.00	3.30	0.00	
5	0.00	45.90	62.50	56.80	153.70	149.90	270.70	12.30	1.20	0.00	2.20	0.00	
6	0.00	40.70	35.70	43.30	124.20	1926.20	222.40	12.30	1.20	0.00	1.20	0.00	
7	0.40	35.70	28.60	33.30	96.70	1716.30	173.10	10.60	1.20	0.00	0.40	0.00	
8	0.00	19.90	17.90	24.20	74.40	690.40	146.10	10.60	1.20	0.00	0.40	0.00	
9	0.40	35.70	26.40	19.90	83.70	360.60	120.60	10.60	2.20	0.00	0.00	0.00	
10	0.40	19.90	16.00	38.20	62.50	996.40	100.00	8.90	1.20	0.00	0.00	1.20	
11	0.40	16.00	12.30	17.90	411.00	302.90	83.70	8.90	1.20	0.00	0.00	14.10	
12	1.20	4.50	43.30	14.10	193.20	523.00	74.40	8.90	0.40	0.00	0.00	7.40	
13	0.40	7.40	28.60	12.30	131.40	1506.40	185.10	7.40	1.20	0.00	0.00	8.90	
14	0.40	3.30	62.50	177.10	100.00	1312.20	86.90	7.40	1.20	0.00	0.00	3.30	
15	0.40	8.90	19.90	59.60	93.40	890.60	68.40	5.90	1.20	0.00	0.00	226.60	
16	0.40	12.30	68.40	127.80	62.50	1926.20	59.60	5.90	0.40	0.40	0.00	16.00	
17	0.40	3.30	51.20	65.40	239.60	672.40	51.20	5.90	0.40	0.00	0.00	4.50	
18	0.40	3.30	146.10	56.80	832.70	302.90	48.50	5.90	0.40	0.00	0.00	4.50	
19	0.00	201.40	80.60	832.70	763.60	832.70	43.30	5.90	0.40	0.00	0.00	2.20	
20	0.00	181.00	56.80	213.90	2853.30	226.60	40.70	4.50	0.40	3.30	0.00	0.40	
21	0.00	43.30	48.50	142.40	1126.50	763.60	38.20	4.50	0.40	3.30	0.00	0.40	
22	0.00	17.90	51.20	153.70	293.60	336.20	33.30	4.50	0.40	3.30	0.00	0.40	
23	0.00	10.60	26.40	100.00	201.40	284.40	30.90	4.50	0.40	2.20	0.00	0.00	
24	0.40	7.40	19.90	71.40	157.50	345.90	28.60	4.50	0.40	0.40	0.00	0.00	
25	0.40	7.40	35.70	185.10	124.20	239.60	24.20	3.30	0.40	0.40	0.00	0.00	
26	0.40	22.00	157.50	218.10	131.40	181.00	24.20	3.30	0.00	0.40	0.00	0.00	
27	0.00	56.80	96.70	124.20	90.10	331.40	22.00	3.30	0.00	0.40	0.00	0.00	
28	0.00	80.60	83.70	62.50	77.50	910.20	19.90	3.30	0.00	0.40	0.00	0.00	
29	2.20	71.40	74.40	62.50	59.60	996.40	17.90	2.20	0.40	0.00	0.00	0.00	
30	4.50	35.70	43.30	30.90	83.70	248.40	17.90	2.20	0.00	0.00		0.00	
31		26.40		120.60	169.20		16.00		0.00	0.00		0.00	
Total	14.70	1254.70	1496.10	3409.20	10319.90	22591.20	6761.00	224.00	23.60	14.90	7.50	289.90	46406.70
Mean	0.50	40.50	49.90	110.00	332.90	753.00	218.10	7.50	0.80	0.50	0.30	9.40	
Max	4.50	201.40	157.50	832.70	2853.30	3221.10	3444.20	16.00	2.20	3.30	3.30	226.60	3444.20
Min	0.00	3.30	12.30	12.30	59.60	80.60	16.00	2.20	0.00	0.00	0.00	0.00	0.00

WATER YEAR : 2011**NAN RIVER BASIN****Khlong Tron at Ban Wang Pla Kod , Uttaradit (N.72)**

Lat 17 - 27 - 24 N Long 100 - 16 - 39 E

Location : on right bank at Ban Wang Pla Kod.

	Ban	Wang Pla Kod	Amphoe	Thong Saen Khan	Changwat	Uttaradit
Drainage Area	225	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2005-Cont'd					
Actual Measurement	2005-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	30					
R-Square	0.9573					
Remarks	Continued Sediment Station					

$$QS = 3.6686 QW^{1.45530}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.60	113.90	94.20	19.90	7246.80	327.50	697.10	29.60	10.10	2.20	1.00	2.20	
2	6.60	77.00	38.20	23.70	5303.80	406.40	1165.90	29.60	10.10	2.20	0.60	2.20	
3	7.30	33.80	20.80	49.80	4537.00	453.80	1444.00	29.60	8.60	1.70	1.00	1.70	
4	23.70	15.60	32.70	53.40	5634.60	242.20	1464.80	21.80	6.60	1.70	3.10	1.70	
5	5.40	18.10	112.40	22.70	2720.50	432.30	1044.90	22.70	6.00	1.70	7.30	1.70	
6	7.30	15.60	110.80	13.10	1149.70	1358.30	724.80	19.90	6.00	1.70	8.60	1.70	
7	3.10	10.80	54.70	10.80	815.80	1314.40	495.30	19.90	6.00	1.70	8.60	1.70	
8	4.80	9.30	25.60	10.10	594.80	672.40	369.70	18.10	6.00	1.70	9.30	1.70	
9	58.40	7.90	15.60	10.10	446.60	589.60	270.50	19.00	6.00	26.60	10.10	26.60	
10	103.10	13.10	12.30	34.90	345.10	3403.20	234.40	20.80	6.00	24.60	10.10	25.60	
11	49.80	10.10	10.80	27.60	992.10	3655.00	213.10	29.60	6.00	22.70	10.10	22.70	
12	29.60	8.60	10.80	26.60	3636.50	1331.20	167.30	17.30	6.00	20.80	10.10	21.80	
13	30.60	7.30	10.80	67.50	2707.80	1866.30	207.40	19.00	6.00	15.60	10.10	16.40	
14	29.60	6.60	15.60	81.20	2241.00	4389.10	470.80	18.10	6.00	13.90	8.60	13.90	
15	19.00	13.90	10.80	85.50	2272.90	3389.60	371.90	16.40	5.40	13.10	6.00	13.10	
16	15.60	45.00	10.10	88.30	645.30	2644.80	522.80	15.60	5.40	12.30	4.80	12.30	
17	10.80	46.20	13.10	213.10	898.10	1740.10	270.50	14.70	5.40	11.60	4.80	11.60	
18	4.80	81.20	20.80	532.90	2365.20	1204.90	232.40	14.70	5.40	10.80	3.70	10.80	
19	2.20	126.70	12.30	163.70	3016.50	833.20	172.60	13.90	5.40	8.60	3.10	9.30	
20	163.70	213.10	10.10	113.90	2413.80	787.00	167.30	13.90	4.80	6.00	3.70	7.30	
21	31.70	136.50	7.90	198.10	2118.90	839.10	136.50	13.90	4.80	4.80	5.40	5.40	
22	14.70	40.40	7.90	238.30	1464.80	1130.40	85.50	13.90	4.80	4.20	7.30	4.20	
23	57.20	19.90	7.30	207.40	792.70	2087.80	77.00	13.90	4.80	4.80	7.90	4.80	
24	198.10	13.10	7.30	207.40	510.30	1389.00	64.90	13.90	4.20	5.40	8.60	5.40	
25	165.50	10.10	7.90	187.00	362.90	850.80	57.20	13.10	3.70	5.40	9.30	5.40	
26	54.70	10.80	22.70	125.00	369.70	615.90	47.40	13.10	3.70	5.40	9.30	5.40	
27	28.60	46.20	158.50	123.40	381.00	520.30	32.70	13.10	3.10	4.80	9.30	5.40	
28	19.00	148.20	126.70	115.50	1051.10	2607.30	46.20	13.10	3.10	3.10	9.30	3.70	
29	15.60	59.70	64.90	306.00	736.00	2025.90	40.40	13.10	3.10	1.70	8.60	1.70	
30	13.90	198.10	46.20	201.80	483.00	1351.50	29.60	13.10	3.10	1.30		1.30	
31		378.80		165.50	495.30		22.70		3.10	1.00		1.00	
Total	1183.00	1935.60	1099.80	3724.20	58749.60	44459.30	11347.60	538.40	168.70	243.10	199.70	249.70	123898.70
Mean	39.40	62.40	36.70	120.10	1895.10	1482.00	366.10	17.90	5.40	7.80	6.90	8.10	
Max	198.10	378.80	158.50	532.90	7246.80	4389.10	1464.80	29.60	10.10	26.60	10.10	26.60	7246.80
Min	2.20	6.60	7.30	10.10	345.10	242.20	22.70	13.10	3.10	1.00	0.60	1.00	0.60

WATER YEAR : 2011**CHAO PHRAYA RIVER BASIN****Chao Phraya River at Ban Bang Phutsa, Sing Buri (C.3)**

Lat 14 - 53 - 50 N Long 100 - 24 - 18 E

Location : on right bank at Ban Bang Phutsa.

	Ban Bang Phutsa	Amphoe Mueang	Changwat Sing Buri
Drainage Area	118,752 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1950-Cont'd		
Actual Measurement	1950-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	29		
R-Square	0.8544		
Remarks	Continued Sediment Station		

$$QS = 0.3906 QW^{1.37620}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	278.70	720.00	6320.30	1512.90	7792.50	15350.30	20826.00	21307.80	5505.30	1421.10	2921.00	3287.70	
2	289.10	894.90	6663.40	1818.00	7840.80	16134.70	20746.00	21227.30	4446.20	1565.60	2882.20	3056.60	
3	307.60	825.70	6706.70	2014.40	7937.70	16462.80	20626.10	21106.70	3555.80	1574.50	3029.20	2895.10	
4	299.60	938.90	6663.40	2135.50	8230.50	16682.40	20706.00	20946.20	2818.00	1445.40	3273.10	2696.20	
5	320.90	1027.10	6277.80	2508.30	8744.70	16829.30	20826.00	20586.20	2352.60	1199.70	3464.50	2600.30	
6	304.90	1146.90	6299.00	4091.10	9280.90	17198.10	20946.20	20426.80	2145.70	1168.90	3665.40	2508.30	
7	297.00	1061.90	6577.20	5268.70	9416.30	17830.00	21026.40	20267.70	2034.40	1285.40	3797.10	2474.70	
8	276.10	938.90	7171.50	5628.60	8108.20	18392.70	21106.70	19950.50	1717.60	1627.70	3780.50	2396.80	
9	228.20	1090.10	8230.50	5190.80	7889.20	18929.30	21307.80	19477.40	1230.70	1974.40	3830.20	2419.00	
10	208.80	1574.50	8132.60	4214.50	7865.00	19595.40	21428.70	19046.40	1118.40	2289.60	3714.60	2463.50	
11	218.40	1744.80	7865.00	3317.00	8108.20	20108.90	21549.80	18581.30	1154.00	2463.50	3813.60	2474.70	
12	218.40	1699.50	7816.60	2720.30	8480.00	20906.10	21509.50	18167.00	1254.10	2612.20	3681.80	2530.80	
13	211.20	1309.10	7147.90	2895.10	8798.00	21630.70	21428.70	17755.30	1269.70	2268.80	3830.20	2720.30	
14	192.80	972.00	6024.20	3185.80	9119.10	21914.30	21388.40	17235.10	1104.20	2064.60	3847.40	2805.20	
15	184.70	1041.00	4997.20	3070.40	9470.60	21954.90	21348.10	16426.20	1027.10	1994.40	3847.40	2805.20	
16	194.90	1556.80	4126.30	3747.50	9634.00	21954.90	21348.10	15595.00	1207.40	2094.90	3847.40	2756.60	
17	180.60	2419.00	3243.90	4536.20	10184.20	21995.50	21428.70	14898.60	1461.70	2014.40	3797.10	2648.10	
18	182.60	3618.30	2519.50	5405.90	10814.00	22036.10	21590.30	14313.60	1735.70	2217.30	3587.00	2508.30	
19	188.70	4882.80	1885.40	5752.80	11724.90	21995.50	21671.10	13738.80	1895.20	2084.80	3665.40	2248.20	
20	196.90	5327.40	1836.40	5268.70	12383.40	21954.90	21630.70	13305.40	2044.50	2054.50	3618.30	1914.90	
21	240.60	5074.40	1708.60	5327.40	12552.80	21995.50	21630.70	12996.00	1914.90	2648.10	3797.10	1478.10	
22	255.60	4736.00	1846.20	5546.30	12620.70	21954.90	21630.70	12263.00	1681.50	2636.20	3847.40	958.30	
23	273.50	4681.30	1855.90	6512.70	12654.70	22036.10	21549.80	11665.50	1348.80	2576.50	3797.10	655.30	
24	278.70	4091.10	1790.50	6663.40	12620.70	21995.50	21509.50	10988.70	1146.90	2542.00	3681.80	405.50	
25	289.10	3665.40	1744.80	6796.50	12202.80	21833.20	21509.50	10184.20	1041.00	2732.40	3649.70	357.50	
26	291.70	3317.00	1548.00	7384.80	12172.80	21711.60	21509.50	9416.30	1013.20	2933.90	3587.00	329.70	
27	291.70	3361.10	1504.20	7913.50	12323.10	21469.10	21509.50	8532.70	1069.00	2869.40	3509.10	326.70	
28	307.60	4196.80	1495.50	8181.50	12417.20	21227.30	21509.50	7768.30	837.10	2805.20	3434.90	323.60	
29	478.60	4699.50	1405.00	8230.50	12586.70	21146.90	21509.50	7053.70	820.00	2744.50	3287.70	318.30	
30	753.00	4997.20	1364.80	8157.00	13133.30	20946.20	21509.50	6341.60	958.30	2856.50		318.30	
31		5587.40		7889.20	14519.30		21428.70		1230.70	2793.10		315.60	
Total	8240.20	83196.80	132768.30	152885.30	321626.30	606173.10	661245.70	461569.30	54139.70	67559.50	104485.20	57997.40	2711887.30
Mean	274.70	2683.80	4425.60	4931.80	10375.00	20205.80	21330.50	15385.60	1746.40	2179.30	3602.90	1870.90	
Max	753.00	5587.40	8230.50	8230.50	14519.30	22036.10	21671.10	21307.80	5505.30	2933.90	3847.40	3287.70	22036.10
Min	180.60	720.00	1364.80	1512.90	7792.50	15350.30	20626.10	6341.60	820.00	1168.90	2882.20	315.60	180.60

WATER YEAR : 2011**CHAO PHRAYA RIVER BASIN****Chao Phraya River at Ban Bang Kaeo, Ang Thong (C.7A)**

at 14 - 35 - 05 N Long 100 - 27 - 12 E

Location : on left bank at Ban Bang Kaco.

	Ban Bang Keao	Amphoe Mueang	Changwat Ang Thong
Drainage Area	Flood Plain		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2006-Cont'd		
Actual Measurement	2006-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	29		
R-Square	0.8255		
Remarks	Continued Sediment Station		

$$QS = 0.2758 QW^{1.48900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	186.70	378.60	7367.30	1188.80	9963.80	21201.10	28884.50	29692.70	9215.30	1565.20	3011.10	3116.10	
2	212.30	378.60	8216.20	1607.50	10164.20	22559.70	28811.40	29545.20	7763.00	1678.80	2969.40	2927.90	
3	230.10	451.20	8471.60	1869.00	10366.00	23266.40	28884.50	29545.20	6565.10	1736.60	3137.30	2784.30	
4	252.90	551.60	8618.60	2112.00	10691.60	23786.00	29324.40	29324.40	5553.90	1621.70	3308.10	2527.10	
5	252.90	608.40	7865.30	2332.50	11352.50	23981.90	29618.90	28738.30	4805.40	1359.30	3906.20	2396.80	
6	290.00	658.40	7729.70	3658.60	11941.40	24506.70	29766.60	28592.40	4299.20	1214.50	4159.10	2221.30	
7	278.70	727.20	8004.10	5405.60	12068.90	25300.90	29988.40	28519.50	4066.50	1201.60	4393.40	2174.20	
8	243.70	650.00	8545.00	6191.00	10773.50	26170.60	30359.50	28156.10	3725.60	1454.20	4417.10	2065.70	
9	262.20	658.40	9923.80	6037.20	9685.30	26931.90	30508.30	27577.80	3137.30	1809.70	4393.40	2112.00	
10	273.20	967.20	10325.60	4964.60	9606.20	27938.70	30657.30	27003.40	2763.90	2221.30	4182.30	2112.00	
11	262.20	1240.50	9804.30	3680.90	9804.30	28592.40	30657.30	26372.70	2683.10	2429.10	4135.90	2174.20	
12	243.70	1266.60	9488.00	2825.10	10366.00	29692.70	30657.30	25835.00	2663.00	2743.70	3974.70	2268.70	
13	252.90	1032.10	8325.30	2643.00	10814.50	30285.10	30582.80	25300.90	2623.00	2445.40	3997.60	2461.70	
14	170.20	727.20	7139.60	2990.20	11310.80	30508.30	30582.80	24638.50	2412.90	2158.60	3997.60	2643.00	
15	85.70	727.20	6221.90	2990.20	11772.20	30433.80	30508.30	23720.90	2221.30	1943.90	3906.20	2784.30	
16	92.30	1010.10	4937.90	3503.80	12111.50	30433.80	30508.30	22559.70	2237.10	2004.50	3906.20	2603.10	
17	99.00	1751.20	3793.00	4346.20	13001.60	30210.90	30582.80	21568.80	2380.60	1913.80	3860.80	2461.70	
18	154.20	2927.90	2886.70	5524.10	14164.70	29840.50	30582.80	20957.00	2583.20	1989.30	3592.00	2316.50	
19	166.10	4704.30	2237.10	6377.10	15374.90	29766.60	30582.80	20202.90	2723.40	2019.70	3636.40	2004.50	
20	154.20	5915.20	1913.80	5945.60	16242.00	29766.60	30433.80	19467.50	2804.60	1974.10	3503.80	1736.60	
21	203.70	5884.80	1565.20	5824.10	17019.90	29766.60	30433.80	19131.10	2763.90	2035.00	3680.90	1240.50	
22	248.20	5583.70	1509.40	6067.90	17334.40	29692.70	30433.80	18298.60	2445.40	2221.30	3793.00	847.60	
23	284.30	5098.50	1509.40	7042.80	17334.40	29545.20	30359.50	17650.80	2174.20	2527.10	3793.00	496.70	
24	301.30	4779.10	1495.50	7663.40	17334.40	29471.60	30136.70	16759.30	1898.80	2527.10	3680.90	290.00	
25	273.20	4066.50	1426.90	7865.30	17019.90	29471.60	30136.70	15628.30	1751.20	2763.90	3592.00	257.50	
26	324.50	3636.40	1386.20	8545.00	16915.50	29324.40	30136.70	14741.50	1664.50	2927.90	3503.80	273.20	
27	273.20	3329.70	1253.50	9370.20	16863.40	29250.90	30136.70	13642.60	1607.50	2927.90	3416.40	312.80	
28	174.20	4089.60	1076.50	9963.80	16759.30	29177.50	30136.70	12598.50	1413.30	2866.10	3373.00	262.20	
29	178.30	5018.00	1032.10	10325.60	17124.50	29104.20	30136.70	11603.70	1253.50	2866.10	3222.30	239.10	
30	336.30	5613.60	1032.10	10366.00	18023.90	29030.90	30062.50	10487.70	1240.50	2886.70		208.00	
31		6129.30		10204.50	19749.30		29840.50		1413.30	2845.60		182.50	
Total	6760.40	80561.10	155101.60	169431.60	423054.90	839010.20	934433.20	667861.10	96853.50	66879.70	108443.90	52501.80	3600893.00
Mean	225.30	2598.70	5170.10	5465.50	13646.90	27967.00	30143.00	22262.00	3124.30	2157.40	3739.40	1693.60	
Max	336.30	6129.30	10325.60	10366.00	19749.30	30508.30	30657.30	29692.70	9215.30	2927.90	4417.10	3116.10	30657.30
Min	85.70	378.60	1032.10	1188.80	9606.20	21201.10	28811.40	10487.70	1240.50	1201.60	2969.40	182.50	85.70

WATER YEAR : 2011**CHAO PHRAYA RIVER BASIN****Chao Phraya River at Ban Bang Luang, Chai Nat (C.13)**

Lat 15 - 10 - 07 N Long 100 - 11 - 48 E

Location : on left bank at Wat Pho Ngam about 1.5 kilometers downstream from Chao Phraya Diversion Dam

	Ban Bang Luang	Amphoe Sanphaya	Changwat Chai Nat
Drainage Area	117,187 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1953-Cont'd		
Actual Measurement	1953-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	26		
R-Square	0.8928		
Remarks	Continued Sediment Station		

$$QS = 0.2628 QW^{1.47060}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	188.30	748.50	7509.20	1650.00	9373.30	22652.20	42381.30	36804.50	4831.70	1470.50	3326.50	3818.70		
2	236.30	897.70	7712.00	1903.30	9473.10	23627.10	42589.40	36527.20	3691.50	1670.30	3326.50	3374.20		
3	239.00	949.40	7828.70	2024.00	9606.60	23955.00	42381.30	36158.50	2755.80	1569.40	3454.30	2861.10		
4	264.80	1047.70	7422.80	2134.70	10085.30	24350.40	42797.90	35699.40	2259.90	1421.80	4095.70	2725.90		
5	256.30	1109.70	7108.70	3406.20	11004.20	24482.70	43320.50	34695.80	1794.00	1101.90	3984.10	2711.00		
6	239.00	1279.00	7365.30	5378.10	11681.50	26019.90	43425.20	33881.60	1721.50	1133.30	4264.80	2725.90		
7	219.80	964.30	7828.70	6552.90	11378.90	27349.60	43425.20	33186.30	1609.50	1451.00	4436.20	2637.00		
8	182.00	1001.90	9174.90	6450.60	9043.30	28327.60	43740.00	32242.30	1063.10	1804.50	4417.00	2755.80		
9	154.80	1480.30	10303.50	5400.30	9707.10	29338.80	43950.30	31053.50	694.90	2247.30	4436.20	2651.70		
10	150.30	1975.40	9640.00	4151.80	9439.80	30464.50	43950.30	30058.80	825.60	2592.90	4189.40	2740.80		
11	150.30	1939.20	9439.80	3200.20	10085.30	32327.70	43845.10	29259.20	934.50	2755.80	4378.80	2921.80		
12	150.30	1529.60	8717.10	2755.80	10596.70	35242.10	43635.00	28327.60	1024.70	2906.60	4397.90	2952.40		
13	150.30	1063.10	7480.30	3454.30	10929.80	38107.40	43425.20	27349.60	979.30	2433.20	4639.70	2983.00		
14	150.30	927.10	6197.00	3406.20	11228.50	40317.90	43215.80	26290.30	804.30	2036.20	4513.00	3215.90		
15	150.30	1188.90	5026.20	3655.50	11681.50	42589.40	43111.20	24020.80	861.40	2159.60	4767.40	3137.60		
16	150.30	2048.50	3764.00	4660.90	12118.50	44688.70	43006.70	22523.20	1172.90	2234.70	4397.90	3075.50		
17	150.30	3390.20	2830.90	5773.40	13497.30	45963.70	43006.70	21119.80	1431.50	2060.70	4302.70	2876.20		
18	150.30	5026.20	2222.10	6771.10	14956.00	46391.20	43006.70	20024.40	1762.80	2418.80	4208.20	2725.90		
19	151.80	6046.40	1846.40	6578.60	16047.50	46498.30	42902.20	18743.10	1857.00	2272.50	4302.70	2433.20		
20	190.50	5971.50	1660.10	6021.40	17109.70	46823.70	42485.30	17974.90	2197.00	2285.20	4378.80	1891.30		
21	204.00	5601.80	1609.50	6247.40	17109.70	46823.70	42173.50	17378.60	1867.50	2375.90	4534.00	1354.60		
22	228.20	5091.60	1804.50	6911.10	16949.00	46605.40	41862.30	15890.10	1629.70	2725.90	4534.00	683.40		
23	236.30	5048.00	1903.30	8211.80	17056.00	46391.20	41448.70	14853.40	1149.10	2830.90	4359.80	349.90		
24	256.30	4283.80	1804.50	8152.50	16522.80	46391.20	40933.50	13544.50	1001.90	3106.50	4208.20	282.30		
25	256.30	3855.20	1680.50	8555.50	16047.50	46177.30	40420.30	11955.50	934.50	2815.80	4227.10	247.60		
26	250.40	3390.20	1629.70	9406.50	16258.20	45857.00	40011.20	10670.50	897.70	2891.40	4151.80	197.20		
27	253.20	3947.20	1490.10	10012.90	16522.80	45324.70	39298.60	9273.90	941.90	3075.50	4095.70	178.20		
28	337.20	5091.60	1383.30	10194.20	16842.10	44583.00	38893.30	8182.10	689.20	3106.50	3947.20	144.50		
29	724.00	5400.30	1326.10	10085.30	17002.50	44160.80	38590.20	7080.40	689.20	3294.70	3764.00	130.20		
30	724.00	5897.00	1307.20	9808.00	18853.70	43530.10	38107.40	6021.40	1078.60	2906.60		128.80		
31		6911.10		9373.30	21183.00		37268.20		1326.10	3278.90		128.80		
Total	7145.20	95102.40	147016.40	182287.80	419391.20	1135362.30	1302608.60	690791.20	46478.30	72434.80	122039.60	61040.40	4281698.50	Ton
Mean	238.20	3067.80	4900.50	5880.30	13528.70	37845.40	42019.60	23026.40	1499.30	2336.60	4208.30	1969.00		
Max	724.00	6911.10	10303.50	10194.20	21183.00	46823.70	43950.30	36804.50	4831.70	3294.70	4767.40	3818.70	46823.70	
Min	150.30	748.50	1307.20	1650.00	9043.30	22652.20	37268.20	6021.40	689.20	1101.90	3326.50	128.80	128.80	

WATER YEAR : 2011**SAKAE KRANG RIVER BASIN****Nam Mae Wong at Ban Pang Makha, Kamphaeng Phet (Ct.5A)**

Lat 15 - 55 - 33 N Long 99 - 30 - 22 E

Location : on left bank behind Wat Pang Makha.

	Ban	Pang Makha	Amphoe	Khanu Worakabsaburi	Changwat	Kamphaeng Phet
Drainage Area	977	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1969-Cont'd					
Actual Measurement	1969-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	32					
R-Square	0.8912					
Remarks	Continued Sediment Station					

$$QS = 1.4890 QW^{1.60060}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.10	39.90	70.20	24.80	84.80	107.60	382.00	372.50	20.80	12.60	6.50	4.50	
2	18.30	23.50	242.60	18.30	153.40	326.30	282.50	282.50	20.80	12.60	6.50	4.20	
3	16.00	1011.50	544.90	14.80	112.40	214.30	122.20	257.30	19.60	12.60	19.60	3.80	
4	14.80	93.70	581.30	19.60	112.40	164.40	2898.20	214.30	19.60	12.10	19.60	3.50	
5	13.70	50.10	411.00	63.20	77.40	137.50	3903.10	193.90	18.30	12.10	12.60	3.20	
6	16.00	70.20	353.70	42.40	63.20	102.90	2338.10	158.90	18.30	12.10	10.60	2.80	
7	22.10	89.20	308.50	30.50	50.10	89.20	3404.00	137.50	18.30	12.10	10.10	2.60	
8	24.80	132.30	1273.50	22.10	47.50	84.80	2198.30	127.20	22.10	11.60	9.60	2.30	
9	20.80	63.20	214.30	19.60	47.50	81.10	1139.60	112.40	20.80	11.60	9.60	2.30	
10	17.10	66.60	142.70	16.00	47.50	363.10	1121.00	102.90	20.80	11.10	8.60	2.00	
11	16.00	37.50	63.20	19.60	23.50	1580.20	959.70	84.80	19.60	11.10	9.10	2.00	
12	17.10	26.20	50.10	13.20	20.80	6750.80	911.60	73.70	19.60	11.10	8.20	1.50	
13	14.80	22.10	132.30	17.10	37.50	13205.90	790.30	66.60	19.60	10.60	7.70	1.50	
14	14.80	13.70	39.90	37.50	23.50	2806.70	2452.20	63.20	19.60	10.60	7.70	1.40	
15	13.70	4557.40	26.20	20.80	107.60	1536.50	1029.40	59.80	19.60	10.10	7.30	1.40	
16	13.70	1293.00	26.20	26.20	50.10	776.60	4557.40	56.50	19.60	10.10	7.30	1.30	
17	12.60	1695.60	23.50	18.30	89.20	420.90	5674.20	53.30	18.30	9.60	6.90	1.30	
18	11.10	532.90	23.50	13.70	164.40	228.30	5990.30	44.90	18.30	9.60	6.90	1.10	
19	9.10	282.50	23.50	12.10	93.70	326.30	3096.80	37.50	18.30	9.10	6.50	1.10	
20	7.70	89.20	19.60	11.10	93.70	344.50	1603.00	35.10	17.10	9.10	6.50	1.00	
21	9.10	70.20	18.30	19.60	102.90	265.60	1177.30	32.80	17.10	9.10	6.00	1.00	
22	10.10	42.40	18.30	35.10	73.70	391.60	1011.50	28.30	17.10	9.10	6.00	0.90	
23	9.60	37.50	14.80	47.50	53.30	975.90	959.70	26.20	16.00	9.10	5.60	0.90	
24	11.60	30.50	13.70	59.80	39.90	682.80	880.00	26.20	16.00	8.60	5.60	0.90	
25	22.10	37.50	13.20	28.30	44.90	2394.90	927.50	24.80	16.00	8.20	5.30	0.80	
26	13.20	452.00	12.10	37.50	59.80	521.00	818.10	23.50	14.80	7.70	5.30	0.80	
27	9.60	102.90	23.50	98.20	66.60	265.60	735.80	23.50	14.80	7.30	4.90	0.70	
28	9.10	127.20	47.50	63.20	556.90	631.30	631.30	22.10	14.80	6.90	4.90	0.70	
29	9.60	117.20	32.80	187.30	249.90	335.30	497.60	22.10	13.70	6.90	4.50	0.70	
30	16.00	102.90	23.50	77.40	326.30	265.60	631.30	22.10	13.70	6.90		0.70	
31		112.40		42.40	164.40		521.00		13.20	6.90		0.60	
Total	436.30	11423.00	4788.40	1157.20	3238.80	36377.50	53645.00	2786.40	556.20	308.20	235.50	53.50	115006.00
Mean	14.50	368.50	159.60	37.30	104.50	1212.60	1730.50	92.90	17.90	9.90	8.10	1.70	
Max	24.80	4557.40	1273.50	187.30	556.90	13205.90	5990.30	372.50	22.10	12.60	19.60	4.50	13205.90
Min	7.70	13.70	12.10	11.10	20.80	81.10	122.20	22.10	13.20	6.90	4.50	0.60	0.60

WATER YEAR : 2011**SAKAE KRANG RIVER BASIN****Khlong Pho at Ban Mai Khlong Charoen, Nakhon Sawan (Ct.7)**

Lat 15 - 38 - 24 N Long 99 - 32 - 24 E

Location : on right bank at Ban Mai Khlong Charoen.

	Ban Mai Khlong Charoen	Amphoe Mae Poen	Changwat Nakhon Sawan
Drainage Area	453	sq.km.	
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	18		
R-Square	0.7734		
Remarks	Continued Sediment Station		

$$QS = 6.8392 QW^{0.81440}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.40	2.70	3.70	2.70	3.70	75.00	91.30	80.40	6.00	34.70	3.50	9.80		
2	1.20	2.50	3.50	2.90	3.70	75.00	90.40	80.40	5.70	34.70	3.30	9.10		
3	1.20	2.30	3.70	2.70	3.70	74.10	89.50	48.20	11.70	34.70	30.80	9.10		
4	1.20	2.90	3.70	4.50	3.70	90.40	93.20	47.50	12.90	34.70	30.20	9.10		
5	1.20	42.60	3.70	4.20	3.70	86.70	93.20	44.00	13.30	26.60	30.20	20.40		
6	1.00	24.80	4.50	3.70	3.70	84.80	92.20	44.00	13.30	26.00	29.60	19.80		
7	1.00	22.60	4.50	3.50	3.70	86.70	91.30	12.90	18.80	25.40	29.60	19.30		
8	1.00	20.40	4.50	3.50	3.70	84.80	92.20	11.30	20.40	10.20	29.00	19.30		
9	1.00	18.80	4.50	3.50	5.10	83.00	90.40	10.90	31.40	7.20	29.00	19.30		
10	1.00	15.00	5.10	3.10	5.10	93.20	91.30	10.20	31.40	6.30	28.40	18.30		
11	1.00	4.50	5.10	2.90	5.10	96.10	90.40	9.50	31.40	5.70	28.40	34.70		
12	1.00	3.30	5.40	2.90	5.10	111.40	90.40	9.10	31.40	5.40	28.40	41.30		
13	1.00	2.90	9.50	10.90	4.80	103.10	89.50	25.40	67.10	4.50	28.40	40.60		
14	1.00	2.70	16.60	8.70	4.80	75.90	90.40	26.00	66.30	4.80	6.80	0.00		
15	1.00	9.80	6.30	6.00	4.80	40.60	91.30	25.40	40.60	4.50	4.80	0.00		
16	1.00	6.30	5.10	5.40	5.10	68.90	105.10	25.40	40.00	4.20	3.70	0.00		
17	0.00	13.70	4.20	4.20	5.10	82.10	134.70	25.40	39.30	4.20	3.30	0.00		
18	0.00	6.30	4.50	4.20	5.10	99.10	163.30	10.90	39.30	3.90	3.30	0.00		
19	0.00	6.60	4.20	4.20	5.10	98.10	151.30	36.70	16.60	3.90	2.70	0.00		
20	0.00	4.50	3.70	3.90	5.10	98.10	130.50	36.70	15.00	5.40	2.30	0.00		
21	0.00	3.90	3.50	3.90	5.10	96.10	109.30	37.30	14.40	4.20	2.50	0.00		
22	0.00	3.50	3.50	3.70	5.10	102.10	95.10	32.10	14.40	3.90	1.70	0.00		
23	0.00	3.50	3.50	3.70	5.10	102.10	87.60	10.50	9.80	3.90	1.50	0.00		
24	0.00	3.10	3.10	4.20	5.10	99.10	83.90	9.10	7.60	3.90	1.40	0.00		
25	0.00	3.10	3.10	6.00	5.10	103.10	83.90	8.00	6.80	3.70	1.40	0.00		
26	0.00	10.50	3.10	6.30	5.10	95.10	83.00	7.60	6.60	3.70	1.40	0.00		
27	0.00	7.20	3.30	6.00	5.10	93.20	83.00	6.80	6.00	3.70	1.20	0.00		
28	0.00	5.70	3.10	5.40	5.10	99.10	83.00	6.60	36.00	3.70	1.20	0.00		
29	6.00	5.40	3.10	4.50	5.10	98.10	82.10	6.30	35.40	3.70	10.20	0.00		
30	3.10	5.10	2.90	4.20	5.10	91.30	82.10	6.30	35.40	3.70		0.00		
31		4.80		4.20	5.10		81.20		35.40	3.50		0.00		
Total	26.30	271.00	138.20	139.70	146.00	2686.40	3006.10	750.90	759.70	328.60	378.20	270.10	8901.20	Ton
Mean	0.90	8.70	4.60	4.50	4.70	89.50	97.00	25.00	24.50	10.60	13.00	8.70		
Max	6.00	42.60	16.60	10.90	5.10	111.40	163.30	80.40	67.10	34.70	30.80	41.30	163.30	
Min	0.00	2.30	2.90	2.70	3.70	40.60	81.20	6.30	5.70	3.50	1.20	0.00	0.00	

WATER YEAR : 2011**SAKAE KRANG RIVER BASIN****Huai Tak Dad at Ban Don Yai, Uthai Thani (Ct.19)**

Lat 15 - 27 - 07 N Long 100 - 02 - 00 E

Location : on right bank at Ban Don Yai.

	Ban	Don Yai	Amphoe	Mueang	Changwat	Uthai Thani
Drainage Area	3,454	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1998-Cont'd					
Actual Measurement	1998-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	17					
R-Square	0.9150					
Remarks	Continued Sediment Station					

$$QS = 10.8820 QW^{1.11760}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	270.90	3200.10	17.10	558.30	497.90	3386.40	2079.40	114.30	2.60	0.00	0.00	
2	0.10	331.30	2161.00	21.00	400.80	574.90	3402.00	1912.10	100.40	2.00	0.00	0.00	
3	0.10	322.60	1346.00	22.30	318.20	916.10	3417.60	1776.50	84.40	1.50	0.00	0.00	
4	0.00	288.00	1011.60	86.60	322.60	882.20	3495.70	1631.60	66.50	1.00	0.00	0.00	
5	0.00	220.30	1508.50	340.00	266.60	1376.30	3778.10	1508.50	57.70	0.50	0.00	0.00	
6	0.00	224.40	1559.70	569.30	216.10	2114.40	4008.40	1406.70	48.40	0.00	0.00	0.00	
7	0.00	224.40	1580.20	503.40	161.90	2387.20	4208.20	1295.60	47.00	0.00	0.00	0.00	
8	0.00	224.40	2464.50	191.30	100.40	2938.10	4372.50	1165.60	45.50	0.00	0.00	0.00	
9	0.00	224.40	2999.50	188.00	107.30	2907.40	4409.00	1043.00	45.50	0.00	0.00	0.00	
10	0.00	220.30	2862.50	237.00	161.90	2555.00	4153.60	916.10	38.50	0.00	0.00	0.00	
11	0.00	204.50	1828.50	232.80	142.70	3370.90	3809.60	794.80	18.40	0.00	0.00	0.00	
12	0.00	201.20	959.20	98.10	140.30	4723.60	3605.20	662.30	6.70	0.00	0.00	0.00	
13	0.00	194.60	503.40	98.10	165.20	5652.00	3542.60	541.80	1.20	0.00	0.00	0.00	
14	0.00	188.00	326.90	470.70	375.10	5856.60	3433.20	432.90	0.80	0.00	0.00	0.00	
15	0.00	181.40	171.70	1011.60	361.90	6194.70	3511.30	340.00	1.40	0.00	0.00	0.00	
16	0.00	181.40	95.80	1621.30	406.10	6857.40	3730.90	266.60	3.70	0.00	0.00	0.00	
17	0.00	808.20	68.70	1998.20	922.80	6325.20	3917.90	220.30	5.60	0.00	0.00	0.00	
18	0.00	1518.70	45.50	1498.30	916.10	5464.40	4427.30	201.20	5.60	0.00	0.00	0.00	
19	0.00	1569.90	28.90	944.40	1157.20	4354.20	4640.70	201.20	3.70	0.00	0.00	0.00	
20	0.00	1123.90	26.30	629.60	1376.30	3899.80	4744.30	184.70	3.70	0.00	0.00	0.00	
21	0.00	922.80	27.60	400.80	1210.40	3827.70	4599.30	171.70	3.70	0.00	0.00	0.00	
22	0.00	855.20	31.70	331.30	1325.80	3809.60	4080.90	165.20	3.70	0.00	0.00	0.00	
23	0.00	835.00	31.70	322.60	1115.60	4080.90	3433.20	158.70	3.70	0.00	0.00	0.00	
24	0.00	140.30	30.30	331.30	569.30	4354.20	3122.80	152.30	3.70	0.00	0.00	0.00	
25	0.00	135.50	27.60	701.80	370.70	4445.70	2968.80	145.90	3.90	0.00	0.00	0.00	
26	95.80	270.90	23.60	1396.50	322.60	4409.00	2819.90	142.70	4.10	0.00	0.00	0.00	
27	105.00	1335.90	23.60	1325.80	245.40	4299.40	2692.60	137.90	4.10	0.00	0.00	0.00	
28	114.30	3045.70	21.00	996.30	245.40	3881.80	2593.90	135.50	4.10	0.00	0.00	0.00	
29	119.00	4482.30	18.40	649.20	207.80	3605.20	2503.30	133.10	4.10	0.00	0.00	0.00	
30	207.80	2284.40	17.10	366.30	443.70	3511.30	2387.20	126.00	4.10	0.00		0.00	
31		3277.60		335.60	662.30		2233.30		4.10	0.00		0.00	
Total	642.20	26308.40	25001.10	17936.60	15296.80	110073.10	111429.70	20049.90	742.30	7.60	0.00	0.00	327487.70
Mean	21.40	848.70	833.40	578.60	493.40	3669.10	3594.50	668.30	23.90	0.20	0.00	0.00	
Max	207.80	4482.30	3200.10	1998.20	1376.30	6857.40	4744.30	2079.40	114.30	2.60	0.00	0.00	6857.40
Min	0.00	135.50	17.10	17.10	100.40	497.90	2233.30	126.00	0.80	0.00	0.00	0.00	0.00

WATER YEAR : 2011**PASAK RIVER BASIN****Pasak River at Ban Pa , Saraburi (S.9)**

Lat 14 - 37 - 39 N Long 101 - 01 - 02 E

Location : on left bank at Ban Mueang Nua railway bridge.

	Ban Pa	Amphoe Kaeng Khoi	Changwat Saraburi
Drainge Area	14,233 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1978-Cont'd		
Actual Measurement	1978-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	39		
R-Square	0.7639		
Remarks	Continued Sediment Station		

$$QS = 1.3139 QW^{1.27170}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	101.00	91.00	77.20	185.30	2546.40	3398.40	10933.50	430.70	202.80	487.40	188.20	217.70	
2	98.50	91.00	74.00	260.30	2639.30	3463.10	10768.20	333.70	202.80	487.40	197.00	214.70	
3	88.50	63.90	72.00	451.00	2417.40	2884.30	11062.40	320.60	199.90	487.40	254.10	197.00	
4	83.60	51.50	77.20	482.60	1991.40	2686.10	11823.80	263.40	199.90	463.80	288.50	197.00	
5	57.80	47.20	75.60	482.60	1195.30	2630.00	12067.40	251.00	202.80	355.60	288.50	199.90	
6	62.30	53.00	74.00	482.60	559.40	2289.90	12961.80	254.10	188.20	248.00	260.30	188.20	
7	70.40	50.00	515.90	603.60	359.50	1848.70	12747.60	257.20	103.50	208.70	260.30	197.00	
8	65.80	47.20	1754.10	714.60	323.90	1385.30	11898.60	248.00	83.60	238.80	275.90	197.00	
9	67.30	48.60	969.60	866.70	248.00	1319.10	10786.50	241.80	101.00	257.20	314.20	202.80	
10	65.80	50.00	898.90	893.50	251.00	2217.70	9716.40	248.00	108.70	294.90	314.20	205.80	
11	59.30	53.00	1030.30	997.10	298.10	4635.20	8944.20	248.00	145.90	301.30	310.90	220.60	
12	54.80	62.30	1058.10	926.00	410.70	4883.50	8207.60	223.60	148.70	301.30	317.40	202.80	
13	111.20	70.40	1047.00	904.30	525.50	3900.30	6288.70	211.70	154.20	317.40	288.50	199.90	
14	185.30	81.20	1047.00	750.70	648.50	2742.40	4511.20	197.00	232.70	359.50	288.50	197.00	
15	191.10	96.00	1041.40	588.80	803.00	2023.40	3867.10	199.90	323.90	363.40	279.10	202.80	
16	191.10	72.00	1299.40	442.90	986.10	1418.70	3800.90	197.00	394.80	367.30	279.10	208.70	
17	188.20	70.40	1358.80	414.70	1144.00	1587.90	3647.50	197.00	390.80	359.50	279.10	226.70	
18	188.20	127.00	1345.50	398.70	1286.30	2244.70	3398.40	197.00	298.10	363.40	266.50	226.70	
19	165.40	182.50	1035.80	410.70	1425.40	3027.70	3669.30	211.70	279.10	320.60	272.80	226.70	
20	173.90	103.50	689.00	434.80	1458.90	4131.30	3789.90	214.70	257.20	314.20	272.80	194.00	
21	176.70	83.60	496.80	704.40	1533.30	4573.10	3757.00	214.70	241.80	320.60	269.60	191.10	
22	143.20	83.60	390.80	975.10	1560.60	5360.50	3757.00	214.70	241.80	323.90	269.60	182.50	
23	113.80	81.20	301.30	1319.10	1567.40	5898.10	3724.00	217.70	241.80	317.40	266.50	171.00	
24	119.10	68.90	294.90	1378.70	1567.40	7709.20	3484.60	214.70	241.80	307.70	248.00	173.90	
25	121.70	67.30	254.10	1418.70	1574.20	8968.40	2667.40	214.70	238.80	298.10	197.00	165.40	
26	86.00	67.30	263.40	1581.10	1684.40	9466.00	1372.00	208.70	310.90	275.90	191.10	188.20	
27	86.00	74.00	263.40	1817.30	1943.60	10640.10	803.00	208.70	330.40	238.80	188.20	199.90	
28	83.60	77.20	232.70	2023.40	2128.20	11228.60	745.60	205.80	406.70	235.70	214.70	199.90	
29	86.00	88.50	188.20	2079.70	2176.90	11228.60	719.70	205.80	473.20	232.70	220.60	191.10	
30	91.00	179.60	179.60	2262.80	2193.20	11043.90	699.20	205.80	492.10	197.00		188.20	
31		121.70		2417.40	2695.50		673.80		487.40	185.30		182.50	
Total	3376.60	2504.60	18406.00	29669.20	42142.80	140834.20	187294.30	7057.40	7925.30	9830.20	7561.20	6156.70	462758.50
Mean	112.60	80.80	613.50	957.10	1359.40	4694.50	6041.80	235.20	255.70	317.10	260.70	198.60	
Max	191.10	182.50	1754.10	2417.40	2695.50	11228.60	12961.80	430.70	492.10	487.40	317.40	226.70	12961.80
Min	54.80	47.20	72.00	185.30	248.00	1319.10	673.80	197.00	83.60	185.30	188.20	165.40	47.20

WATER YEAR : 2011**PASAK RIVER BASIN****Lam Sonthi at Ban Tha Yiam , Lop Buri (S.13)**

Lat 15 - 20 - 23 N Long 101 - 22 - 30 E

Location : on left bank near Wat Tha Yiam.

	Ban Tha Yiam	Amphoe Lam Sonthi	Changwat Lop Buri
Drainage Area	357 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1988-Cont'd		
Actual Measurement	1988-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	20		
R-Square	0.8354		
Remarks	Continued Sediment Station		

$$QS = 7.9791 QW^{1.30020}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	46.80	183.10	2.90	152.90	12.10	22.20	455.60	6.20	3.40	5.40	9.90	77.70		
2	46.80	9.50	2.90	14.10	12.10	32.60	253.10	6.20	3.20	5.40	9.90	77.70		
3	45.90	5.80	6.20	6.60	72.50	12.10	312.70	5.80	3.20	5.80	9.90	77.70		
4	45.90	4.50	6.20	7.80	48.70	33.30	234.60	5.80	3.20	5.80	9.90	77.70		
5	46.80	3.40	4.70	4.20	36.80	14.10	152.90	5.40	3.20	5.40	9.90	77.70		
6	46.80	2.90	3.70	3.20	34.20	34.20	158.40	5.40	2.90	5.40	9.90	77.70		
7	44.00	2.70	4.50	2.70	34.20	32.60	113.00	5.40	2.90	5.40	9.90	76.30		
8	44.00	2.70	4.20	2.70	34.20	70.10	93.50	5.40	2.90	4.50	9.90	76.30		
9	41.30	2.70	3.70	2.40	34.20	589.50	90.60	5.80	2.90	4.50	9.90	76.30		
10	11.20	2.70	2.90	2.70	141.30	246.90	90.60	5.80	2.90	4.20	9.90	76.30		
11	3.20	2.70	2.70	3.90	97.90	535.50	11.70	5.40	2.90	4.20	9.90	76.30		
12	2.90	2.70	2.70	2.90	190.80	476.00	9.50	5.40	2.90	4.20	9.90	76.30		
13	2.70	2.70	2.40	2.70	190.80	298.20	29.70	5.40	2.90	4.20	9.90	74.90		
14	2.70	2.40	2.40	2.70	190.80	226.50	136.50	5.00	2.70	3.90	9.50	74.90		
15	2.70	3.40	2.40	13.50	284.70	295.80	158.40	5.00	2.70	3.90	9.50	71.30		
16	2.70	4.50	2.40	4.20	240.70	668.00	200.60	5.00	2.70	3.90	9.50	52.70		
17	2.40	2.70	2.20	3.40	981.00	827.70	120.70	5.00	2.70	4.50	9.50	47.80		
18	6.60	4.70	2.20	2.90	421.00	317.50	70.10	5.00	2.70	4.70	24.90	47.80		
19	42.20	3.90	2.00	2.90	286.80	196.70	57.20	5.00	2.70	4.70	34.20	47.80		
20	41.30	4.70	2.00	0.00	305.40	171.60	36.80	5.00	2.70	5.40	34.20	47.80		
21	40.40	3.20	2.00	44.00	291.10	320.00	34.20	4.50	2.70	5.40	34.20	45.00		
22	40.40	2.90	2.70	65.40	255.20	57.20	21.60	4.20	2.70	9.50	34.20	33.30		
23	43.10	3.20	2.20	116.10	242.80	46.80	19.60	4.20	2.70	10.30	34.20	27.60		
24	42.20	26.30	2.20	24.20	232.60	29.70	17.10	4.20	2.70	9.90	34.20	27.60		
25	41.30	26.90	2.20	0.20	246.90	20.90	16.50	4.20	2.40	9.90	34.20	27.60		
26	53.80	26.90	2.00	34.20	238.70	17.10	15.30	4.20	2.40	9.90	34.20	27.60		
27	66.50	26.90	2.00	23.60	152.90	366.90	10.80	3.90	2.40	9.90	60.70	27.60		
28	60.70	26.30	2.00	14.10	117.60	1298.80	9.50	4.20	2.40	9.90	79.10	47.80		
29	50.60	7.00	2.20	12.10	105.40	1294.40	9.50	4.20	2.40	9.90	79.10	47.80		
30	4.20	3.90	2.00	11.20	76.30	410.20	9.50	3.90	2.40	9.90		65.40		
31		0.00		11.70	76.30		9.00		2.40	9.90		64.20		
Total	972.10	407.90	86.80	595.20	5686.00	8963.10	2958.80	150.10	85.90	199.80	684.10	1830.50	22620.30	Ton
Mean	32.40	13.20	2.90	19.20	183.40	298.80	95.40	5.00	2.80	6.40	23.60	59.00		
Max	66.50	183.10	6.20	152.90	981.00	1298.80	455.60	6.20	3.40	10.30	79.10	77.70	1298.80	
Min	2.40	0.00	2.00	0.00	12.10	12.10	9.00	3.90	2.40	3.90	9.50	27.60	0.00	

WATER YEAR : 2011**PASAK RIVER BASIN****Pasak River at Ban Kaeng Sua Taen , Lop Buri (S.28)**

Lat 14 - 50 - 21 N Long 101 - 04 - 08 E

Location : on left bank at Ban Kaeng Sua Taen.

	Ban	Kaeng Sua Taen	Amphoe	Phatthana Nikhom	Changwat	Lop Buri
Drainge Area	8,778	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1998-Cont'd					
Actual Measurement	1998-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	38					
R-Square	0.7459					
Remarks	Continued Sediment Station					

$$QS = 0.3580 QW^{1.29650}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.40	10.80	0.00	10.60	782.50	1075.60	2935.90	43.40	24.70	114.50	35.40	60.80		
2	10.40	8.60	8.40	32.70	775.00	910.30	2910.40	41.50	25.10	112.90	46.50	53.60		
3	10.40	4.10	8.60	90.80	660.40	763.70	2956.30	33.80	25.10	111.40	82.00	49.70		
4	6.20	4.30	8.80	169.40	496.60	745.00	3058.90	28.40	25.10	110.50	82.80	49.70		
5	4.50	4.30	8.80	174.00	195.90	722.70	3089.90	27.70	24.70	74.20	71.50	48.10		
6	4.50	4.30	17.90	183.00	98.90	566.20	3136.40	27.30	14.70	41.50	59.20	48.10		
7	4.50	4.10	127.80	193.10	75.90	435.60	2992.10	26.90	6.90	39.00	58.40	47.40		
8	4.30	4.00	231.70	227.80	49.70	341.60	2738.40	28.80	8.00	54.30	65.70	46.50		
9	4.30	4.00	268.90	257.90	38.60	343.60	2468.90	30.00	10.40	56.80	80.20	46.50		
10	4.30	4.50	291.00	269.90	39.50	587.30	2243.60	30.00	13.70	73.30	80.20	46.50		
11	4.50	5.10	328.00	273.90	62.50	863.80	1911.60	26.20	17.00	74.20	80.20	46.50		
12	11.80	8.20	330.00	259.00	92.60	695.10	1439.70	22.50	16.70	76.70	79.30	45.80		
13	17.90	8.40	330.00	232.70	147.40	560.20	1141.80	22.20	23.60	82.80	78.50	45.80		
14	20.70	8.80	326.90	183.00	174.00	421.30	941.70	22.20	48.10	86.40	77.50	45.00		
15	21.50	9.00	362.70	149.20	240.30	384.10	868.20	21.80	82.80	90.80	76.70	45.00		
16	21.10	8.40	421.30	121.10	301.10	283.90	877.00	21.80	90.80	94.40	76.70	44.30		
17	21.10	8.80	419.00	117.80	347.80	449.10	801.50	21.80	89.80	95.20	75.90	43.40		
18	19.00	7.50	386.40	119.50	384.10	675.00	846.20	24.00	47.40	89.00	75.00	42.80		
19	15.00	2.90	241.30	122.00	406.90	1021.10	946.20	25.80	44.30	74.20	74.20	42.30		
20	15.00	5.10	201.40	156.10	420.10	1221.70	950.70	25.80	37.80	74.20	72.50	42.30		
21	13.00	7.80	109.60	233.60	438.90	1327.10	952.90	25.80	37.40	74.20	72.50	42.30		
22	10.80	7.80	75.90	302.20	441.30	1539.30	985.20	25.80	37.00	74.20	71.50	42.30		
23	11.40	8.20	63.20	401.50	443.40	1820.90	987.80	25.80	36.60	74.20	70.80	42.30		
24	11.40	8.60	52.80	401.50	447.70	2128.40	844.00	25.40	36.60	72.50	64.90	42.30		
25	11.00	8.40	50.40	443.40	456.20	2537.40	518.60	25.40	39.90	73.30	43.40	46.50		
26	10.40	8.40	55.20	517.10	482.10	2698.30	226.80	25.40	70.00	56.80	43.40	54.30		
27	10.40	8.60	45.00	575.20	537.80	2905.30	173.00	25.10	69.10	46.50	49.70	53.60		
28	10.40	8.40	32.70	633.30	581.20	2956.30	168.50	25.40	95.20	45.00	63.20	52.80		
29	10.60	8.60	28.10	665.90	587.30	2961.40	165.80	25.10	117.10	35.80	62.50	52.00		
30	10.60	2.10	23.20	719.00	636.90	2941.00	162.30	25.10	117.10	27.30		51.20		
31		0.00		763.70	866.00		127.80		117.10	27.30		46.50		
Total	341.40	202.10	4855.00	8999.90	11708.60	36882.30	44568.10	806.20	1449.80	2233.40	1970.30	1466.20	115483.30	Ton
Mean	11.40	6.50	161.80	290.30	377.70	1229.40	1437.70	26.90	46.80	72.00	67.90	47.30		
Max	21.50	10.80	421.30	763.70	866.00	2961.40	3136.40	43.40	117.10	114.50	82.80	60.80	3136.40	
Min	4.30	0.00	0.00	10.60	38.60	283.90	127.80	21.80	6.90	27.30	35.40	42.30	0.00	

WATER YEAR : 2011**PASAK RIVER BASIN****Pasak River at Ban Tha Hi Yong , Phetchabun (S.33)**

Lat 17 - 00 - 10 N Long 101 - 21 - 23 E

Location : on left bank at Ban Tha Hai Yong

	Ban	Tha Hai Yong	Amphoe	Lom Kao	Changwat	Phetchabun
Drainage Area	521	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2001-Cont'd					
Actual Measurement	2001-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	26					
R-Square	0.7445					
Remarks	Continued Sediment Station					

$$QS = 9.3642 QW^{1.59690}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.90	21.90	54.10	346.80	15171.90	904.60	3454.70	223.90	114.60	78.90	63.00	45.70	
2	23.90	21.90	45.70	437.30	10204.20	3717.20	3759.20	219.10	110.90	78.90	63.00	45.70	
3	23.90	21.90	40.50	134.30	15696.30	2612.70	9399.70	209.40	110.90	78.90	57.00	45.70	
4	21.90	21.90	54.10	155.10	3120.50	1066.50	3675.20	209.40	103.40	75.70	57.00	45.70	
5	28.30	19.80	30.60	264.40	1284.80	2060.20	2312.70	204.70	103.40	75.70	57.00	40.50	
6	48.50	19.80	181.50	126.30	692.20	38069.60	1765.50	195.30	103.40	72.40	57.00	40.50	
7	30.60	19.80	66.10	92.60	482.10	8851.40	1428.90	190.60	103.40	72.40	57.00	40.50	
8	33.00	19.80	40.50	78.90	370.10	3844.00	1164.70	190.60	103.40	72.40	57.00	40.50	
9	28.30	19.80	57.00	69.20	324.00	8620.20	1031.60	186.00	103.40	72.40	57.00	40.50	
10	28.30	19.80	57.00	146.60	285.50	7553.50	912.90	190.60	99.80	69.20	57.00	57.00	
11	28.30	19.80	48.50	89.10	626.30	3523.10	768.40	186.00	99.80	69.20	54.10	223.90	
12	28.30	19.80	159.40	75.70	980.10	44257.40	677.40	186.00	99.80	69.20	54.10	66.10	
13	28.30	33.00	72.40	99.80	462.70	35108.00	640.70	181.50	99.80	69.20	54.10	48.50	
14	28.30	63.00	57.00	569.70	388.00	9558.60	662.60	177.00	92.60	66.10	54.10	45.70	
15	26.10	33.00	48.50	1498.10	280.20	7426.20	699.70	172.50	92.60	66.10	54.10	45.70	
16	26.10	28.30	155.10	418.50	243.80	5149.40	597.70	168.10	92.60	66.10	54.10	45.70	
17	23.90	26.10	92.60	177.00	699.70	3675.20	562.80	168.10	92.60	66.10	54.10	40.50	
18	21.90	72.40	82.30	163.70	2196.60	2951.80	488.70	159.40	92.60	66.10	48.50	23.90	
19	19.80	181.50	72.40	707.20	1829.50	6079.80	418.50	159.40	92.60	66.10	48.50	48.50	
20	19.80	92.60	501.80	195.30	32457.00	3212.80	406.20	155.10	92.60	72.40	48.50	40.50	
21	19.80	48.50	142.50	238.80	6731.70	8202.30	400.10	146.60	92.60	82.30	48.50	40.50	
22	19.80	30.60	66.10	285.50	2026.60	3717.20	388.00	146.60	89.10	82.30	48.50	40.50	
23	19.80	28.30	45.70	163.70	1284.80	3633.50	341.00	142.50	89.10	82.30	48.50	40.50	
24	19.80	37.90	37.90	181.50	963.10	3759.20	318.40	142.50	89.10	75.70	45.70	40.50	
25	19.80	54.10	48.50	346.80	730.00	2312.70	301.80	134.30	89.10	72.40	45.70	40.50	
26	19.80	114.60	482.10	181.50	863.70	1808.10	280.20	130.30	82.30	72.40	45.70	40.50	
27	19.80	48.50	223.90	190.60	562.80	7299.70	264.40	126.30	82.30	69.20	45.70	37.90	
28	19.80	168.10	376.10	155.10	583.60	6079.80	259.20	122.40	82.30	66.10	45.70	37.90	
29	23.90	259.20	364.30	146.60	437.30	6978.10	264.40	114.60	82.30	66.10	45.70	37.90	
30	23.90	92.60	134.30	195.30	1399.60	2649.60	248.90	114.60	82.30	66.10		37.90	
31		92.60		24047.20	1182.90		228.80		82.30	66.10		37.90	
Total	747.60	1750.90	3838.50	31978.20	104561.60	244682.40	38123.00	5053.40	2947.00	2224.50	1525.90	1503.80	438936.80
Mean	24.90	56.50	128.00	1031.60	3373.00	8156.10	1229.80	168.40	95.10	71.80	52.60	48.50	
Max	48.50	259.20	501.80	24047.20	32457.00	44257.40	9399.70	223.90	114.60	82.30	63.00	223.90	44257.40
Min	19.80	19.80	30.60	69.20	243.80	904.60	228.80	114.60	82.30	66.10	45.70	23.90	19.80

WATER YEAR : 2011**PASAK RIVER BASIN****Pasak River at Ban Phun Sap , Lop Buri (S.43)**

Lat 15 - 19 - 39 N Long 101 - 12 - 45 E

Location : on right bank at the bridge.

	Ban Phun Sap	Amphoe Chai Badan	Changwat Lop Buri
Drainage Area	-	sq.km.	
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2011-Cont'd		
Actual Measurement	2011-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	24		
R-Square	0.8426		
Remarks	Continued Sediment Station		

$$QS = 42.3720 QW^{0.77190}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	288.50	168.90	1701.70	846.50	2541.50	3700.50	8133.50	554.80	250.60	0.00	0.00	0.00	
2	299.50	66.70	1849.20	973.40	2222.20	3746.70	7930.80	539.40	238.90	0.00	0.00	0.00	
3	306.90	69.50	2089.10	1031.10	2006.90	3774.50	7635.00	524.00	221.10	0.00	0.00	0.00	
4	310.50	66.70	2743.00	1137.80	2021.60	3808.30	7287.30	508.30	208.90	0.00	0.00	0.00	
5	314.10	60.90	3163.00	1338.10	2232.40	3853.20	6991.10	500.50	196.60	0.00	0.00	0.00	
6	321.30	42.40	3374.90	1523.10	2363.00	3987.10	6846.00	492.60	184.00	0.00	0.00	0.00	
7	324.90	227.10	3508.70	1595.30	2433.50	4119.70	6693.40	484.60	177.60	0.00	0.00	0.00	
8	314.10	492.60	3460.70	1586.30	2482.70	4130.70	6527.90	468.60	171.10	0.00	0.00	0.00	
9	303.20	508.30	3364.20	1518.60	2509.20	4288.70	6315.70	454.10	158.00	0.00	0.00	0.00	
10	299.50	666.30	3223.20	1394.40	2568.70	4523.30	6102.20	434.50	137.60	0.00	0.00	0.00	
11	299.50	717.90	3091.50	1218.60	2669.30	4797.30	5875.80	434.50	123.50	0.00	0.00	0.00	
12	299.50	670.70	2969.20	1019.70	2760.20	5149.30	5659.10	460.60	109.00	0.00	0.00	0.00	
13	288.50	564.00	2777.30	797.40	2845.50	5319.50	5525.40	468.60	93.80	0.00	0.00	0.00	
14	269.70	489.40	2343.00	670.70	2941.20	5415.80	5380.60	468.60	69.50	0.00	0.00	0.00	
15	254.50	688.00	1815.90	595.70	3013.80	5471.80	5281.90	454.10	39.10	0.00	0.00	0.00	
16	235.00	760.10	1389.70	618.00	3085.90	5626.00	5193.60	441.10	24.80	0.00	0.00	0.00	
17	215.00	613.60	1099.30	730.60	3288.50	5820.90	5073.20	434.50	0.00	0.00	0.00	0.00	
18	202.80	542.50	926.40	846.50	3321.00	6071.30	4882.00	427.90	0.00	0.00	0.00	0.00	
19	190.30	582.10	838.40	1046.40	3310.20	7007.00	4632.40	407.90	0.00	0.00	0.00	0.00	
20	173.30	332.10	776.80	1328.70	3288.50	8133.50	4355.40	394.50	0.00	0.00	0.00	0.00	
21	168.90	454.10	764.30	1504.90	3337.20	8493.60	4075.70	380.90	0.00	0.00	0.00	0.00	
22	164.60	450.80	805.70	1599.70	3434.00	8629.90	3819.60	367.10	0.00	0.00	0.00	0.00	
23	146.80	427.90	858.60	1639.80	3540.60	8772.30	3583.00	353.20	0.00	0.00	0.00	0.00	
24	83.30	559.40	898.60	1706.10	3667.30	8715.40	2716.30	339.20	0.00	0.00	0.00	0.00	
25	88.60	559.40	854.60	1792.10	3751.90	8602.70	2210.00	324.90	0.00	0.00	0.00	0.00	
26	77.90	595.70	805.70	1912.10	3763.20	8332.00	1823.40	317.70	0.00	0.00	0.00	0.00	
27	72.40	559.40	780.90	2191.70	3718.00	7997.60	1470.70	303.20	0.00	0.00	0.00	0.00	
28	83.30	554.80	717.90	2498.40	3651.50	7953.10	1113.00	295.90	0.00	0.00	0.00	0.00	
29	77.90	554.80	700.90	2754.50	3604.10	7975.30	838.40	281.00	0.00	0.00	0.00	0.00	
30	77.90	854.60	739.10	2845.50	3619.90	8064.20	685.10	265.90	0.00	0.00		0.00	
31		1238.00		2771.60	3662.10		600.20		0.00	0.00		0.00	
Total	6552.20	15138.70	54431.50	45033.30	93655.60	182281.20	145257.70	12582.70	2404.10	0.00	0.00	0.00	557337.10
Mean	218.40	488.30	1814.40	1452.70	3021.10	6076.00	4685.70	419.40	77.60	0.00	0.00	0.00	
Max	324.90	1238.00	3508.70	2845.50	3763.20	8772.30	8133.50	554.80	250.60	0.00	0.00	0.00	8772.30
Min	72.40	42.40	700.90	595.70	2006.90	3700.50	600.20	265.90	0.00	0.00	0.00	0.00	0.00

WATER YEAR : 2011**THA CHIN BASIN****Lower Huai Kra Sieo at Ban Thap Man, Suphan Buri (T.12A)**

Lat 15 - 00 - 45 N Long 99 - 37 - 12 E

Location : on left bank at Ban Thap Man.

	Ban Thap Man	Amphoe Dan Chang	Changwat Suphan Buri
Drainage Area	686 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2006-Cont'd		
Actual Measurement	2006-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	27		
R-Square	0.8706		
Remarks	Continued Sediment Station		

$$QS = 4.3854 QW^{1.61280}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.70	264.40	1131.30	41.90	76.80	208.50	208.50	234.80	81.00	23.70	72.60	34.60	
2	5.10	424.70	780.00	41.90	89.80	217.10	191.50	217.10	76.80	23.70	72.60	30.10	
3	5.90	95.40	545.50	44.40	72.60	119.20	159.40	199.90	76.80	21.80	72.60	27.90	
4	9.80	56.90	1082.70	49.60	60.70	107.00	284.80	191.50	76.80	19.80	76.80	23.70	
5	9.80	41.90	723.10	76.80	53.20	175.20	399.30	183.30	72.60	18.00	131.80	21.80	
6	14.50	37.00	437.70	1180.70	49.60	138.30	244.50	167.20	72.60	18.00	125.50	18.00	
7	16.20	37.00	2506.90	159.40	49.60	119.20	350.30	145.00	72.60	16.20	119.20	18.00	
8	16.20	217.10	374.50	64.60	47.00	113.10	479.90	145.00	76.80	16.20	119.20	18.00	
9	14.50	274.50	225.90	41.90	47.00	113.10	2324.00	145.00	76.80	16.20	44.40	14.50	
10	9.80	47.00	175.20	34.60	47.00	145.00	1256.30	125.50	76.80	14.50	34.60	12.90	
11	9.80	34.60	138.30	25.80	44.40	2506.90	1082.70	119.20	72.60	14.50	27.90	11.30	
12	9.80	34.60	113.10	23.70	41.90	10642.30	614.30	119.20	68.60	12.90	23.70	8.40	
13	11.30	27.90	101.20	34.60	44.40	5338.40	579.50	113.10	64.60	12.90	18.00	8.40	
14	23.70	85.30	89.80	39.40	44.40	1578.10	1760.60	107.00	60.70	21.80	85.30	7.50	
15	3.70	113.10	81.00	30.10	60.70	614.30	1823.10	107.00	53.20	21.80	72.60	34.60	
16	3.70	1131.30	76.80	27.90	89.80	386.80	3036.90	101.20	47.00	25.80	53.20	34.60	
17	3.70	2952.50	81.00	30.10	234.80	284.80	7033.00	107.00	44.40	8.40	47.00	32.30	
18	3.10	760.90	76.80	30.10	138.30	274.50	5338.40	101.20	41.90	8.40	41.90	30.10	
19	2.50	614.30	64.60	25.80	89.80	327.40	2506.90	95.40	37.00	6.70	37.00	34.60	
20	3.70	437.70	64.60	25.80	76.80	362.30	1359.80	85.30	34.60	7.50	34.60	37.00	
21	3.70	191.50	56.90	25.80	72.60	362.30	903.00	81.00	34.60	64.60	21.80	16.20	
22	3.10	145.00	56.90	27.90	60.70	704.50	723.10	76.80	32.30	68.60	21.80	14.50	
23	3.10	64.60	53.20	32.30	53.20	881.70	614.30	81.00	32.30	68.60	21.80	11.30	
24	47.00	41.90	49.60	101.20	47.00	2288.10	545.50	81.00	34.60	68.60	39.40	9.80	
25	34.60	44.40	47.00	818.90	53.20	839.60	464.00	85.30	34.60	85.30	41.90	8.40	
26	23.70	704.50	44.40	1359.80	53.20	399.30	399.30	85.30	34.60	85.30	41.90	7.50	
27	9.80	686.10	41.90	350.30	131.80	464.00	374.50	85.30	32.30	89.80	39.40	7.50	
28	14.50	254.40	44.40	167.20	1854.70	327.40	327.40	85.30	30.10	85.30	37.00	6.70	
29	1918.50	1412.80	41.90	199.90	1668.40	274.50	274.50	81.00	34.60	81.00	37.00	6.70	
30	1548.40	8959.50	39.40	89.80	946.20	234.80	254.40	81.00	34.60	76.80		5.90	
31		1983.00		72.60	350.30		234.80		34.60	76.80		5.90	
Total	3789.90	22175.80	9345.60	5274.80	6749.90	30547.70	36148.50	3632.90	1653.40	1179.50	1612.50	558.70	122669.20
Mean	126.30	715.30	311.50	170.20	217.70	1018.30	1166.10	121.10	53.30	38.00	55.60	18.00	
Max	1918.50	8959.50	2506.90	1359.80	1854.70	10642.30	7033.00	234.80	81.00	89.80	131.80	37.00	10642.30
Min	2.50	27.90	39.40	23.70	41.90	107.00	159.40	76.80	30.10	6.70	18.00	5.90	2.50

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Lam Ta Phoen at Ban Thung Na Nang Rok , Kanchanaburi (K.12)**

Lat 14 - 09 - 17 N Long 99 - 25 - 07 E

Location : on left bank about 50 meters downstream from Wat Thung Na Nang Rok.

	Ban	Thung Na Nang Rok	Amphoe	Mueang	Changwat	Kanchanaburi
Drainage Area	2,375	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1999-Cont'd					
Actual Measurement	1999-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	30					
R-Square	0.8790					
Remarks	Continued Sediment Station					

$$QS = 3.3724 QW^{1.30940}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.40	13.50	74.70	19.10	15.00	42.90	29.50	84.50	9.40	5.70	3.20	2.70	
2	22.10	16.00	138.80	18.00	24.90	32.20	26.30	76.10	11.10	6.00	2.30	2.70	
3	20.70	17.50	185.70	17.00	37.80	22.80	24.90	69.20	15.00	6.00	1.50	2.50	
4	18.00	20.70	183.20	17.00	47.20	18.00	27.00	62.50	15.00	6.00	2.30	1.70	
5	17.00	27.70	143.10	19.60	37.80	17.00	38.80	58.60	14.50	5.70	2.10	1.40	
6	15.00	26.30	130.40	28.60	30.40	15.50	74.70	57.30	13.00	5.00	2.50	2.10	
7	13.00	21.40	185.70	34.00	27.70	11.10	126.20	53.40	12.50	4.70	2.10	1.70	
8	12.00	23.50	258.00	26.30	24.90	10.60	266.50	50.90	12.00	3.40	2.10	1.40	
9	8.60	33.10	260.80	22.10	23.50	9.80	308.40	45.00	15.00	3.40	1.40	1.40	
10	6.40	35.80	198.40	17.00	19.60	10.20	275.50	35.80	14.00	3.70	0.90	1.40	
11	7.10	38.80	132.50	16.00	17.00	14.00	425.70	29.50	13.50	3.70	1.20	1.30	
12	7.50	35.80	91.90	15.00	16.50	23.50	716.60	30.40	13.00	2.70	1.00	0.60	
13	6.80	30.40	69.20	15.00	15.50	20.70	1078.70	30.40	13.00	2.50	1.00	0.40	
14	6.00	26.30	54.70	15.50	15.00	37.80	918.80	31.30	13.50	2.10	1.20	0.50	
15	6.40	40.90	42.90	15.00	14.00	49.70	653.40	31.30	12.50	1.90	0.90	0.40	
16	7.10	93.40	37.80	14.50	14.50	39.80	562.70	29.50	13.50	2.10	0.90	0.50	
17	7.50	161.30	34.90	14.00	17.00	31.30	562.70	28.60	13.50	1.90	1.50	0.40	
18	6.40	154.40	34.00	14.00	18.00	26.30	732.70	27.00	12.50	1.90	3.40	0.40	
19	6.00	112.40	34.00	13.50	7.90	24.20	1457.30	22.80	11.50	1.40	2.50	2.70	
20	6.80	73.30	34.00	7.10	12.50	21.40	1917.20	20.20	11.50	1.30	1.90	8.20	
21	6.40	52.20	33.10	10.60	20.20	20.20	1365.40	19.10	10.60	1.50	2.30	9.40	
22	7.90	41.90	30.40	13.50	20.20	17.00	837.60	17.50	11.50	1.70	2.50	7.90	
23	7.90	35.80	28.60	14.00	19.60	17.50	548.60	16.00	12.00	1.90	2.70	5.00	
24	9.80	29.50	26.30	14.00	24.90	14.50	394.90	15.50	11.10	1.90	3.70	2.30	
25	13.00	25.60	24.90	14.00	19.10	15.00	288.50	14.50	10.20	1.90	3.20	1.30	
26	17.50	23.50	24.90	13.00	15.50	28.60	213.80	14.50	10.20	2.10	2.90	1.00	
27	12.00	20.20	24.90	11.50	15.50	39.80	175.80	14.00	9.40	1.30	2.30	0.90	
28	9.80	20.20	23.50	16.50	24.20	40.90	132.50	11.10	6.80	1.40	3.70	0.40	
29	9.40	22.10	19.60	15.00	48.40	35.80	110.40	8.60	7.10	1.20	3.20	0.30	
30	13.50	26.30	19.10	14.00	47.20	36.80	96.60	9.40	7.10	1.70		0.10	
31		38.80		12.00	56.00		91.90		6.40	3.70		0.00	
Total	329.00	1338.60	2580.00	506.40	747.50	744.90	14479.60	1014.50	361.90	91.40	62.40	63.00	22319.20
Mean	11.00	43.20	86.00	16.30	24.10	24.80	467.10	33.80	11.70	2.90	2.20	2.00	
Max	22.10	161.30	260.80	34.00	56.00	49.70	1917.20	84.50	15.00	6.00	3.70	9.40	1917.20
Min	6.00	13.50	19.10	7.10	7.90	9.80	24.90	8.60	6.40	1.20	0.90	0.00	0.00

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Lam Phachi at Ban Bo , Ratchaburi (K.17)**

Lat 13 - 32 - 31 N Long 99 - 21 - 24 E

Location : on left bank oppositeto the 'Sai Ngam' fronter police station.

	Ban Bo	Amphoe Suan Phung	Changwat Ratchaburi
Drainage Area	1,344 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1999-Cont'd		
Actual Measurement	1999-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	32		
R-Square	0.8542		
Remarks	Continued Sediment Station		

$$QS = 0.7582 QW^{1.88890}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.90	34.30	18.80	8.10	216.40	6.70	11.20	285.40	27.90	4.90	4.90	0.60	
2	3.90	20.30	20.30	8.10	947.60	6.70	12.30	216.40	25.90	4.90	3.90	0.80	
3	3.00	49.80	29.90	8.10	339.00	6.70	13.50	181.90	23.90	4.90	4.40	1.80	
4	3.90	52.90	302.00	8.10	140.10	6.70	12.30	145.70	22.10	4.90	3.90	1.00	
5	6.10	32.10	62.40	12.30	59.20	6.10	10.10	124.10	20.30	4.40	3.40	0.50	
6	8.10	25.90	41.30	12.30	34.30	5.50	8.10	118.90	18.80	4.40	3.00	0.60	
7	16.10	44.10	27.90	10.10	22.10	4.90	181.90	113.90	17.40	4.40	3.00	0.50	
8	11.20	32.10	20.30	8.10	18.80	4.90	4666.50	113.90	14.80	3.90	2.50	0.50	
9	9.10	23.90	17.40	7.40	16.10	6.70	1321.70	109.40	12.30	3.90	2.00	0.60	
10	12.30	22.10	14.80	6.10	14.80	17.40	647.80	104.90	10.10	3.40	1.80	1.00	
11	10.10	25.90	11.20	6.10	13.50	49.80	424.50	100.60	8.10	3.00	2.30	1.00	
12	6.70	22.10	10.10	5.50	12.30	109.40	1127.30	92.20	6.70	3.00	1.80	1.30	
13	5.50	27.90	10.10	4.90	11.20	100.60	1675.10	84.20	6.10	3.00	1.50	1.30	
14	4.90	145.70	10.10	4.40	16.10	44.10	810.90	76.40	5.50	3.00	2.30	1.00	
15	4.40	181.90	10.10	3.90	17.40	27.90	482.50	65.80	4.40	3.00	1.80	1.00	
16	3.90	380.60	11.20	3.90	14.80	22.10	632.50	62.40	5.50	2.50	1.10	0.50	
17	3.90	181.90	10.10	3.90	14.80	18.80	1081.00	56.00	5.50	2.50	1.80	0.60	
18	4.40	169.00	14.80	3.40	13.50	17.40	1856.70	52.90	5.50	2.50	1.30	1.30	
19	6.70	118.90	22.10	3.40	12.30	16.10	947.60	49.80	5.50	2.30	1.10	1.30	
20	11.20	80.30	18.80	3.00	12.30	13.50	663.40	46.90	5.50	2.30	2.00	1.00	
21	7.40	52.90	25.90	3.00	11.20	13.50	632.50	46.90	5.50	2.50	2.00	0.80	
22	6.10	41.30	46.90	8.10	10.10	12.30	544.00	44.10	5.50	5.50	1.30	0.60	
23	4.40	34.30	29.90	10.10	9.10	12.30	402.20	41.30	5.50	6.10	0.80	0.50	
24	11.20	22.10	18.80	10.10	7.40	13.50	319.00	41.30	5.50	4.90	0.80	0.50	
25	38.90	22.10	14.80	9.10	6.70	13.50	285.40	38.90	5.50	4.40	1.30	0.40	
26	41.30	38.90	11.20	13.50	6.70	17.40	380.60	36.50	5.50	3.90	1.10	0.40	
27	25.90	38.90	13.50	12.30	6.10	17.40	253.60	34.30	5.50	3.40	1.00	0.40	
28	16.10	27.90	17.40	10.10	8.10	14.80	319.00	34.30	5.50	3.40	0.80	0.50	
29	18.80	20.30	12.30	7.40	11.20	13.50	587.40	32.10	5.50	3.00	0.60	0.40	
30	23.90	17.40	10.10	10.10	10.10	11.20	602.30	29.90	5.50	3.90		0.50	
31		18.80		59.20	8.10		402.20		4.90	4.40		1.30	
Total	333.30	2006.60	884.50	284.10	2041.40	631.40	21315.10	2581.30	311.70	116.50	59.50	24.50	30589.90
Mean	11.10	64.70	29.50	9.20	65.90	21.00	687.60	86.00	10.10	3.80	2.10	0.80	
Max	41.30	380.60	302.00	59.20	947.60	109.40	4666.50	285.40	27.90	6.10	4.90	1.80	4666.50
Min	3.00	17.40	10.10	3.00	6.10	4.90	8.10	29.90	4.40	2.30	0.60	0.40	0.40

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Huai Mae Nam Noi at Ban Nam Chon , Kanchanaburi (K.31)**

Lat 14 - 26 - 04 N Long 98 - 49 - 20 E

Location : on right bank about 2 kilometers downstream from station K.22A

	Ban Nam Chon	Amphoe Sai Yok	Changwat Kanchanaburi
Drainage Area	799 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1997-Cont'd		
Actual Measurement	1997-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	51		
R-Square	0.8384		
Remarks	Continued Sediment Station		

$$QS = 0.7895 QW^{1.31570}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.70	5.60	6.20	39.30	1371.90	60.80	59.50	26.00	11.20	6.60	4.40	2.90	
2	2.70	4.70	5.60	39.30	750.40	80.10	70.20	25.20	11.20	6.20	4.40	2.90	
3	2.50	4.40	5.60	36.60	422.40	73.00	58.10	24.40	11.20	6.20	5.30	2.90	
4	2.90	4.20	6.60	33.00	257.30	68.90	63.40	23.50	10.70	6.20	5.30	2.70	
5	4.20	3.60	10.70	30.30	188.20	59.50	53.00	22.70	10.20	6.60	6.20	2.70	
6	4.20	3.90	11.20	26.00	151.70	54.20	55.50	22.70	10.20	6.20	5.30	2.50	
7	4.40	5.30	11.20	21.90	127.90	62.10	59.50	21.90	9.80	6.20	5.30	2.50	
8	4.20	5.30	8.20	19.20	132.20	80.10	395.40	19.90	9.80	6.20	4.40	2.30	
9	6.20	11.20	7.00	17.90	138.60	134.30	168.40	18.50	9.80	5.90	4.20	2.30	
10	7.40	36.60	6.60	17.20	153.90	117.50	109.60	17.90	9.80	5.90	4.20	2.30	
11	5.00	26.90	8.20	17.20	153.90	163.50	107.90	17.20	9.40	5.60	3.90	2.30	
12	4.20	15.90	13.70	17.20	138.60	228.60	88.10	16.50	9.00	5.60	3.90	2.30	
13	3.90	13.20	17.20	18.50	119.50	156.30	75.80	16.50	8.60	5.30	3.90	2.90	
14	3.10	12.20	16.50	18.50	106.20	125.80	70.20	15.90	8.60	5.30	4.20	2.70	
15	3.10	16.50	22.70	19.20	94.60	117.50	63.40	15.90	8.60	5.30	3.90	2.90	
16	3.40	17.90	74.40	18.50	93.00	107.90	60.80	15.30	8.60	5.30	3.60	3.10	
17	3.90	12.20	149.50	24.40	149.50	96.20	67.50	14.70	8.20	5.30	3.60	3.10	
18	3.10	12.20	163.50	25.20	101.20	99.50	56.80	14.20	8.20	5.30	3.40	2.70	
19	2.70	9.40	109.60	33.00	107.90	96.20	51.70	14.20	8.20	5.00	5.30	2.50	
20	2.50	5.00	74.40	73.00	104.50	89.70	47.90	13.70	7.80	5.30	5.30	2.30	
21	2.30	7.80	68.90	323.70	97.90	115.40	42.90	13.20	7.80	5.90	4.40	2.30	
22	2.50	7.40	66.10	514.00	86.50	93.00	39.30	13.20	7.80	5.90	3.60	2.30	
23	2.90	7.00	64.80	200.90	68.90	115.40	37.50	12.70	7.80	5.30	3.60	2.10	
24	13.70	7.40	50.40	125.80	62.10	101.20	36.60	12.70	7.40	5.30	3.40	2.10	
25	11.20	8.60	39.30	88.10	60.80	80.10	34.70	12.70	7.40	5.00	3.40	2.10	
26	6.20	7.80	39.30	67.50	59.50	74.40	32.10	12.70	7.00	4.70	3.40	2.10	
27	5.60	7.80	89.70	60.80	59.50	63.40	30.30	12.20	7.00	4.70	3.10	3.60	
28	5.30	8.20	138.60	50.40	86.50	56.80	29.40	12.20	6.60	4.40	3.10	4.40	
29	5.60	7.00	66.10	42.90	71.60	51.70	27.70	11.70	6.60	4.40	2.90	3.60	
30	6.20	6.20	45.40	44.20	68.90	50.40	26.90	11.70	6.60	4.40		2.90	
31		7.00		251.50	62.10		25.20		6.60	4.70		2.50	
Total	137.80	308.40	1397.20	2315.20	5647.70	2873.50	2145.30	501.80	267.70	170.20	120.90	82.80	15968.50
Mean	4.60	9.90	46.60	74.70	182.20	95.80	69.20	16.70	8.60	5.50	4.20	2.70	
Max	13.70	36.60	163.50	514.00	1371.90	228.60	395.40	26.00	11.20	6.60	6.20	4.40	1371.90
Min	2.30	3.60	5.60	17.20	59.50	50.40	25.20	11.70	6.60	4.40	2.90	2.10	2.10

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Huai Bong Ti at Ban Bong Ti , Kanchanaburi (K.32A)**

Lat 14 - 16 - 27 N Long 98 - 56 - 04 E

Location : on right bank at Ban Bong Ti.

	Ban	Bong Ti	Amphoe	Sai Yok	Changwat	Kanchanaburi
Drainage Area	518	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1998-Cont'd					
Actual Measurement	1998-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	19					
R-Square	0.7797					
Remarks	Continued Sediment Station					

$$QS = 1.6057 QW^{1.77070}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	2.00	4.90	8.70	273.40	6.10	3.50	7.60	1.00	0.40	0.30	0.00	
2	0.00	1.40	3.20	9.30	367.30	7.00	3.20	6.50	1.00	0.40	0.30	0.00	
3	0.00	1.00	10.60	7.60	317.70	8.70	2.70	6.10	0.90	0.40	0.30	0.00	
4	0.10	0.90	27.60	7.00	167.50	6.50	2.70	5.70	0.90	0.30	0.30	0.00	
5	0.10	0.60	12.60	17.10	92.40	5.30	2.40	5.30	0.90	0.30	0.20	0.00	
6	0.10	0.50	7.00	58.30	58.30	4.50	4.90	4.90	0.90	0.30	0.20	0.00	
7	0.10	0.50	5.30	17.90	31.50	4.90	19.50	4.20	0.90	0.30	0.20	0.00	
8	0.30	0.60	3.90	10.60	22.70	5.70	390.30	3.50	0.70	0.30	0.20	0.00	
9	0.50	1.00	2.90	7.00	18.70	19.50	446.30	3.50	0.70	0.30	0.10	0.00	
10	4.90	1.80	2.70	5.70	18.70	21.50	525.10	3.20	0.70	0.30	0.10	0.00	
11	2.40	2.20	2.20	4.50	16.30	37.80	554.10	2.70	0.70	0.20	0.10	0.00	
12	0.90	1.80	2.00	4.20	15.50	292.10	398.10	2.70	0.70	0.20	0.10	0.00	
13	0.40	1.80	2.00	3.90	14.00	189.60	228.40	2.70	0.70	0.20	0.10	0.00	
14	0.30	2.70	2.20	2.90	12.60	110.70	267.60	2.40	0.60	0.20	0.10	0.00	
15	3.50	9.30	2.40	2.70	11.90	71.00	317.70	2.20	0.60	0.20	0.10	2.70	
16	1.50	14.80	11.20	2.40	21.50	41.20	311.20	2.20	0.60	0.20	0.10	0.90	
17	3.50	12.60	11.90	2.40	76.10	28.80	479.70	2.20	0.60	0.20	0.10	0.40	
18	1.40	11.90	21.50	2.00	44.80	21.50	292.10	2.00	0.60	0.10	0.10	0.40	
19	0.50	5.30	27.60	2.00	30.20	17.10	176.20	2.00	0.60	0.10	0.10	0.40	
20	0.30	3.20	14.80	2.20	23.90	13.30	113.90	1.80	0.60	0.10	0.10	0.30	
21	0.20	2.40	10.60	4.90	19.50	10.60	73.60	1.80	0.60	0.40	0.10	0.20	
22	2.40	1.80	9.30	34.50	15.50	8.70	52.30	1.50	0.60	0.60	0.10	0.10	
23	1.20	1.50	7.60	32.90	12.60	8.10	30.20	1.40	0.60	0.60	0.10	0.10	
24	26.30	1.40	6.10	19.50	10.60	7.60	23.90	1.40	0.60	0.50	0.10	0.10	
25	11.20	4.20	4.90	15.50	8.70	6.50	18.70	1.40	0.60	0.50	0.10	0.00	
26	5.30	2.40	4.20	13.30	7.60	5.70	15.50	1.40	0.50	0.40	0.10	0.10	
27	9.30	4.50	14.80	11.90	7.00	4.90	13.30	1.20	0.60	0.30	0.10	0.10	
28	3.90	3.50	48.50	8.10	6.10	4.50	11.20	1.20	0.50	0.30	0.00	0.10	
29	4.20	2.40	20.40	6.50	11.20	4.20	11.20	1.20	0.40	0.30	0.00	0.10	
30	2.70	1.80	11.90	5.30	8.10	3.90	9.90	1.00	0.40	0.30		0.10	
31		7.00		4.90	7.00		8.70		0.40	0.30		0.10	
Total	87.60	108.80	316.80	335.70	1748.90	977.50	4808.10	86.90	20.70	9.50	3.90	6.20	8510.60
Mean	2.90	3.50	10.60	10.80	56.40	32.60	155.10	2.90	0.70	0.30	0.10	0.20	
Max	26.30	14.80	48.50	58.30	367.30	292.10	554.10	7.60	1.00	0.60	0.30	2.70	554.10
Min	0.00	0.50	2.00	2.00	6.10	3.90	2.40	1.00	0.40	0.10	0.00	0.00	0.00

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Khwaee Noi River at Ban Wang Yen , Kanchanaburi (K.37)**

Lat 13 - 55 - 54 N Long 99 - 25 - 38 E

Location : on left bank at Ban Wang Yen.

	Ban Wang Yen	Amphoe Mueang	Changwat Kanchanaburi
Drainage Area	10,557 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	30		
R-Square	0.7392		
Remarks	Continued Sediment Station		

$$QS = 0.3378 QW^{1.47110}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	351.40	388.60	337.30	237.90	1497.30	2614.80	690.60	690.60	729.80	759.60	330.30	1053.60	
2	330.30	381.00	366.00	189.90	3362.20	2685.10	654.40	541.10	810.20	960.90	344.30	1089.10	
3	323.30	289.20	309.50	183.90	4214.50	2614.80	830.70	499.40	820.40	663.40	323.30	1113.00	
4	344.30	344.30	373.50	180.90	3482.30	2632.30	872.20	483.10	789.80	1254.00	337.30	1077.20	
5	228.00	396.20	483.10	177.90	2995.20	2289.50	938.10	458.80	601.30	1373.90	351.40	1053.60	
6	381.00	218.30	344.30	188.40	3165.10	1137.70	938.10	654.40	769.60	1428.30	337.30	1293.60	
7	351.40	170.20	316.40	247.90	2995.20	1333.60	1176.00	710.10	820.40	1455.80	351.40	1030.20	
8	330.30	179.40	344.30	182.40	3013.90	1360.40	2084.80	672.50	830.70	1581.40	830.70	1089.10	
9	351.40	151.60	295.90	183.90	2865.00	1497.30	3705.90	893.20	820.40	1176.00	1089.10	1125.00	
10	316.40	151.60	247.90	208.70	2939.20	1624.00	3563.10	872.20	769.60	458.80	1176.00	1101.00	
11	337.30	316.40	228.00	199.20	3165.10	1681.30	2441.90	915.60	800.00	442.90	1227.80	1150.40	
12	330.30	411.60	228.00	186.90	3282.90	2038.60	2883.50	1030.20	739.70	388.60	1280.40	1137.70	
13	474.90	419.30	237.90	208.70	3070.30	2720.40	2846.60	915.60	636.50	381.00	1214.80	995.40	
14	419.30	427.10	237.90	316.40	2809.90	2579.90	2459.00	882.60	830.70	388.60	983.80	995.40	
15	381.00	466.90	185.40	435.00	2902.00	2241.10	1812.70	893.20	820.40	330.30	1030.20	1113.00	
16	419.30	435.00	176.50	654.40	2809.90	2702.70	1753.90	800.00	789.80	358.60	1065.40	1333.60	
17	427.10	483.10	185.40	690.60	2846.60	2828.20	1857.20	592.60	749.60	358.60	1101.00	1609.70	
18	435.00	450.80	302.70	749.60	3089.20	2755.90	2084.80	710.10	820.40	366.00	1101.00	1539.10	
19	419.30	366.00	358.60	800.00	2939.20	2323.10	2527.90	800.00	739.70	396.20	1089.10	1442.00	
20	396.20	344.30	396.20	789.80	2791.50	1887.10	2256.90	810.20	719.90	435.00	1030.20	1387.50	
21	316.40	323.30	302.70	627.70	2809.90	2579.90	2100.20	779.70	810.20	419.30	960.90	1469.60	
22	344.30	278.70	278.70	1113.00	2846.60	2562.50	1977.50	729.80	789.80	403.90	1053.60	1320.20	
23	323.30	237.90	247.90	1739.30	2791.50	2545.20	1638.30	800.00	769.60	381.00	1065.40	1280.40	
24	450.80	189.90	189.90	1638.30	2809.90	2755.90	1483.40	789.80	749.60	323.30	1077.20	1293.60	
25	396.20	182.40	188.40	1497.30	2597.40	2632.30	1306.90	779.70	739.70	396.20	1113.00	1320.20	
26	396.20	185.40	180.90	1214.80	2738.10	2306.30	1306.90	779.70	759.60	366.00	1101.00	1469.60	
27	373.50	258.00	160.80	1227.80	2773.70	1768.60	1214.80	739.70	749.60	330.30	1041.90	1455.80	
28	396.20	344.30	185.40	1137.70	2545.20	2178.10	1150.40	739.70	759.60	323.30	983.80	1539.10	
29	427.10	323.30	483.10	1176.00	2162.40	2053.90	1201.90	810.20	779.70	358.60	1018.50	1511.20	
30	442.90	344.30	373.50	1053.60	1113.00	1030.20	1227.80	729.80	749.60	330.30		1469.60	
31		208.70		1065.40	2510.60		1176.00		719.90	323.30		1428.30	
Total	11214.40	9667.10	8546.10	20503.30	87934.80	65960.70	54162.40	22503.60	23785.80	18913.40	26010.10	39286.80	388488.50
Mean	373.80	311.80	284.90	661.40	2836.60	2198.70	1747.20	750.10	767.30	610.10	896.90	1267.30	
Max	474.90	483.10	483.10	1739.30	4214.50	2828.20	3705.90	1030.20	830.70	1581.40	1280.40	1609.70	4214.50
Min	228.00	151.60	160.80	177.90	1113.00	1030.20	654.40	458.80	601.30	323.30	323.30	995.40	151.60

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Huai Lin Thin at Ban Nong Bang , Kanchanaburi (K.38A)**

Lat 14 - 34 - 28 N Long 98 - 49 - 07 E

Location : on left bank at KM. 95+700 on Kanchanaburi - Thong Pha Phum Highway.

	Ban	Nong Bang	Amphoe	Thong Pha Phum	Changwat	Kanchanaburi
Drainage Area	122	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2001-Cont'd					
Actual Measurement	2001-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	32					
R-Square	0.8653					
Remarks	Continued Sediment Station					

$$QS = 2.3304 QW^{1.94810}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.10	1.00	2.80	307.10	6.30	13.20	10.80	2.80	1.00	0.50	0.20	
2	0.00	0.10	0.80	2.80	167.70	10.80	13.20	10.80	2.80	1.00	0.50	0.20	
3	0.00	0.10	0.80	2.50	75.90	6.80	12.40	10.10	2.50	1.00	1.70	0.20	
4	0.00	0.10	0.80	2.20	35.40	6.80	16.00	8.60	2.20	1.20	1.20	0.10	
5	0.00	2.50	1.00	2.50	26.80	5.80	15.00	8.60	2.20	1.20	0.80	0.10	
6	0.00	1.20	2.50	1.70	21.70	6.80	13.20	8.60	1.90	1.20	0.70	0.10	
7	0.00	1.20	0.80	1.70	16.00	5.80	125.50	10.80	1.90	1.00	0.70	0.10	
8	0.00	1.20	0.70	1.70	10.80	8.00	102.10	10.10	1.90	1.00	0.50	0.10	
9	0.00	2.20	0.50	1.70	7.30	6.30	125.50	10.80	1.70	0.80	0.50	0.10	
10	0.00	3.20	0.50	1.90	7.30	8.60	98.40	10.10	1.70	0.80	0.50	0.10	
11	0.00	1.40	1.40	1.40	7.30	33.90	62.00	9.30	1.70	0.80	0.50	0.10	
12	0.00	1.40	0.80	2.20	7.30	125.50	48.10	8.60	1.40	0.80	0.50	0.10	
13	0.00	1.00	0.80	1.20	7.30	48.10	41.80	7.30	1.40	0.80	0.40	0.10	
14	0.00	0.80	1.20	1.20	8.60	33.90	40.10	7.30	1.40	0.70	0.40	0.10	
15	0.00	0.50	1.00	1.20	15.00	29.50	48.10	7.30	1.40	0.70	0.40	1.40	
16	0.00	0.50	1.70	1.70	10.80	29.50	75.90	7.30	1.20	0.70	0.40	0.30	
17	0.00	0.50	3.50	1.70	22.90	26.80	41.80	6.80	1.20	0.50	0.30	0.20	
18	0.00	1.70	3.20	1.40	12.40	32.40	35.40	6.30	1.20	0.50	0.30	0.10	
19	0.00	1.20	4.80	1.40	10.80	36.90	29.50	6.30	1.20	0.50	0.40	0.10	
20	0.00	1.20	3.50	3.20	8.60	26.80	29.50	5.80	1.20	0.40	0.40	0.10	
21	0.00	0.80	2.50	21.70	7.30	21.70	28.10	5.80	1.20	0.40	0.40	0.10	
22	0.00	0.50	2.50	10.10	6.30	28.10	24.10	4.80	1.20	0.40	0.30	0.10	
23	0.00	0.50	2.80	7.30	5.80	26.80	20.50	4.40	1.20	0.40	0.30	0.10	
24	0.10	0.50	1.90	4.80	5.80	26.80	18.20	3.50	1.00	0.40	0.30	0.00	
25	0.10	0.30	1.70	3.20	4.80	26.80	17.10	3.50	1.00	0.40	0.30	0.00	
26	0.10	3.20	1.70	2.80	4.80	24.10	16.00	3.20	1.00	0.40	0.20	0.00	
27	0.40	2.20	1.90	2.80	4.80	19.30	14.10	3.20	1.00	0.40	0.20	0.10	
28	0.30	1.70	2.20	2.80	5.80	17.10	13.20	3.20	1.00	0.40	0.20	0.10	
29	0.10	1.20	1.90	2.80	6.80	12.40	11.60	2.80	1.00	0.40	0.20	0.00	
30	0.10	0.80	2.20	4.80	5.80	14.10	11.60	2.80	1.00	0.40		0.00	
31		0.80		19.30	4.80		10.80		1.00	0.40		0.00	
Total	1.20	34.60	52.60	120.50	849.80	712.50	1172.00	208.80	46.50	21.00	14.00	4.40	3237.90
Mean	0.00	1.10	1.80	3.90	27.40	23.70	37.80	7.00	1.50	0.70	0.50	0.10	
Max	0.40	3.20	4.80	21.70	307.10	125.50	125.50	10.80	2.80	1.20	1.70	1.40	307.10
Min	0.00	0.10	0.50	1.20	4.80	5.80	10.80	2.80	1.00	0.40	0.20	0.00	0.00

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Huai Ong Thi at Ban Ong Thi , Kanchanaburi (K.39)**

Lat 14 - 42 - 21 N Long 98 - 40 - 19 E

Location : on right bank at KM. 121+600 on Kanchanaburi - Thong Pha Phum Highway.

	Ban	Ong Thi	Amphoe	Thong Pha Phum	Changwat	Kanchanaburi
Drainage Area	51	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1998-Cont'd					
Actual Measurement	1998-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	35					
R-Square	0.8753					
Remarks	Continued Sediment Station					

$$QS = 3.2460 QW^{1.30770}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.10	0.50	1.20	44.90	10.00	3.70	1.80	0.70	0.40	0.40	0.20		
2	0.10	0.10	0.40	0.90	26.10	9.30	3.20	1.60	0.70	0.40	0.40	0.20		
3	0.10	0.10	0.40	0.80	15.70	7.50	3.00	1.60	0.60	0.40	0.40	0.20		
4	0.20	0.10	0.30	2.00	10.00	7.50	3.20	1.60	0.60	0.40	0.60	0.20		
5	0.10	0.20	0.30	2.30	7.50	5.00	3.20	1.40	0.60	0.40	0.70	0.20		
6	0.10	0.10	0.20	1.20	6.50	6.00	2.70	1.40	0.60	2.50	0.50	0.20		
7	0.10	0.10	0.20	0.90	6.00	5.50	6.50	1.20	0.50	0.80	0.40	0.20		
8	0.10	0.10	0.20	0.80	26.10	8.70	7.50	1.20	0.50	0.60	0.40	0.10		
9	0.10	0.40	0.20	0.90	26.10	18.30	4.10	1.00	0.50	0.50	0.40	0.10		
10	0.10	1.40	0.20	1.00	16.60	11.30	4.10	1.00	0.50	0.40	0.40	0.10		
11	0.10	0.40	0.30	0.80	7.50	27.20	3.70	1.00	0.50	0.60	0.40	0.10		
12	0.10	0.40	0.20	2.70	8.00	29.50	2.70	1.00	0.50	0.40	0.30	0.10		
13	0.10	0.20	0.20	1.20	7.00	15.70	3.20	0.90	0.50	0.40	0.40	0.10		
14	0.10	0.20	0.40	0.80	6.50	9.30	3.70	0.90	0.50	0.40	0.40	0.10		
15	0.10	0.20	0.30	0.90	6.50	10.60	3.20	0.90	0.40	0.40	0.30	0.10		
16	0.10	0.10	0.90	1.40	6.00	10.60	8.70	0.90	0.40	0.40	0.30	0.10		
17	0.10	0.10	0.70	1.00	5.50	7.50	5.50	0.90	0.40	0.40	0.30	0.10		
18	0.10	0.10	2.70	1.60	5.50	7.50	4.10	0.90	0.40	0.40	0.30	0.10		
19	0.10	0.60	1.20	0.90	4.10	6.50	3.70	0.90	0.40	0.40	0.90	0.10		
20	0.10	0.40	1.00	10.60	5.00	6.50	3.00	0.80	0.40	0.40	0.80	0.10		
21	0.10	0.20	1.20	19.20	3.70	8.00	2.70	0.70	0.40	0.40	0.70	0.10		
22	0.10	0.20	1.20	7.50	3.00	6.00	2.50	0.70	0.40	0.40	0.40	0.10		
23	0.10	0.20	1.00	5.00	2.70	5.00	2.50	0.70	0.40	0.40	0.40	0.10		
24	0.40	0.10	0.70	4.10	3.00	5.00	2.30	0.60	0.40	0.30	0.30	0.10		
25	0.20	0.10	0.70	2.00	2.50	4.60	2.00	0.60	0.40	0.30	0.20	0.10		
26	0.10	0.20	0.50	3.20	2.30	4.60	1.80	0.60	0.40	0.30	0.20	0.10		
27	0.10	0.70	12.00	2.70	3.20	4.10	1.80	0.60	0.40	0.30	0.20	0.10		
28	0.10	2.70	5.00	2.30	13.40	5.50	2.00	0.60	0.40	0.30	0.20	0.10		
29	0.10	0.80	4.10	1.80	8.70	4.10	2.00	0.60	0.40	0.30	0.20	0.10		
30	0.10	0.70	1.80	3.20	8.00	3.70	1.80	0.70	0.40	0.40		0.10		
31		0.70		11.30	8.00		1.80		0.40	0.40		0.10		
Total	3.50	12.00	39.00	96.20	305.60	270.60	105.90	29.30	14.60	14.80	11.80	3.80	907.10	Ton
Mean	0.10	0.40	1.30	3.10	9.90	9.00	3.40	1.00	0.50	0.50	0.40	0.10		
Max	0.40	2.70	12.00	19.20	44.90	29.50	8.70	1.80	0.70	2.50	0.90	0.20	44.90	
Min	0.10	0.10	0.20	0.80	2.30	3.70	1.80	0.60	0.40	0.30	0.20	0.10	0.10	

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Huai Diso at Ban Hin Laem , Kanchanaburi (K.50)**

Lat 14 - 38 - 39 N Long 98 - 42 - 04 E

Location : on right bank at the bridge on Kanchanaburi - Thong Pha Phum Highway from Tambon Tha Khanun.

	Ban Hin Laem	Amphoe Thong Pha Phum	Changwat Kanchanaburi
Drainage Area	123 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	27		
R-Square	0.9737		
Remarks	Continued Sediment Station		

$$QS = 3.4253 QW^{1.62970}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	1.10	1.40	5.50	276.60	40.80	12.70	5.50	1.80	0.80	0.70	0.40		
2	0.40	0.90	0.80	4.70	259.20	49.80	10.90	5.10	1.80	0.80	0.70	0.40		
3	0.40	0.90	0.90	3.30	192.80	49.80	9.70	5.10	1.60	0.80	1.60	0.40		
4	0.60	0.70	0.90	3.00	70.70	37.20	13.50	5.10	1.60	1.10	1.80	0.40		
5	0.60	10.30	0.80	49.80	46.00	37.20	16.30	4.70	1.60	1.10	2.00	0.40		
6	0.70	6.80	0.80	7.70	31.70	22.90	10.30	4.70	1.60	12.10	1.30	0.40		
7	0.70	4.00	0.70	4.40	22.00	19.40	88.20	4.70	1.40	4.00	1.10	0.40		
8	0.70	10.30	0.50	3.70	58.90	39.60	46.00	4.70	1.40	1.60	0.90	0.40		
9	0.60	4.40	0.50	3.70	74.40	30.70	74.40	4.40	1.30	0.90	0.80	0.40		
10	0.80	11.50	0.70	3.30	65.40	294.50	40.80	4.40	1.30	0.90	0.80	0.30		
11	0.80	6.80	0.60	5.90	51.20	409.60	16.30	4.00	1.30	1.10	0.80	0.30		
12	0.70	5.10	0.60	7.70	43.30	281.20	12.70	4.00	1.10	1.10	0.80	0.30		
13	0.70	3.70	0.70	4.40	35.00	211.20	17.10	4.00	1.10	0.90	0.90	0.30		
14	0.60	1.60	0.80	3.30	17.10	101.70	12.70	3.70	1.10	0.90	0.80	0.30		
15	0.40	1.60	0.80	7.20	12.10	58.90	19.40	3.30	1.30	0.90	0.70	0.30		
16	0.40	1.40	1.60	5.50	32.80	55.80	322.10	3.30	1.10	0.80	0.60	1.10		
17	0.30	1.30	7.70	4.70	20.30	58.90	57.40	3.30	1.10	0.80	0.60	0.80		
18	0.20	1.10	10.90	4.00	20.30	42.10	24.80	3.00	1.10	0.80	0.60	0.70		
19	0.20	5.10	8.80	3.70	10.90	30.70	18.60	3.00	1.10	0.80	2.70	0.60		
20	0.20	4.00	7.70	6.80	10.90	25.70	13.50	3.00	1.10	0.80	1.40	0.40		
21	0.20	3.00	5.90	175.40	12.10	25.70	12.10	2.70	0.90	0.80	1.10	0.40		
22	0.10	2.20	5.50	123.90	9.30	35.00	10.90	2.40	0.90	0.70	0.90	0.40		
23	0.80	1.60	4.00	54.30	6.80	20.30	10.30	2.40	0.90	0.70	0.70	0.40		
24	0.70	1.60	2.70	21.10	7.70	17.80	9.30	2.40	0.90	0.70	0.70	0.30		
25	0.50	1.40	2.40	10.30	4.70	17.10	8.20	2.40	0.90	0.70	0.70	0.20		
26	0.40	3.30	2.20	11.50	3.70	16.30	7.70	2.40	0.80	0.70	0.70	0.20		
27	0.40	10.30	37.20	13.50	3.00	13.50	7.70	2.40	0.80	0.70	0.70	0.40		
28	0.30	6.30	40.80	8.80	54.30	17.10	6.80	2.40	0.80	0.70	0.60	0.40		
29	0.30	5.50	14.90	5.90	276.60	12.70	6.30	2.00	0.80	0.70	0.40	0.40		
30	0.60	3.30	8.20	26.60	65.40	10.90	6.30	1.80	0.80	0.70		0.30		
31		2.40		111.40	65.40		5.90		0.80	0.60		0.20		
Total	14.70	123.50	172.00	705.00	1860.60	2084.10	928.90	106.30	36.10	40.70	28.10	12.60	6112.60	Ton
Mean	0.50	4.00	5.70	22.70	60.00	69.50	30.00	3.50	1.20	1.30	1.00	0.40		
Max	0.80	11.50	40.80	175.40	276.60	409.60	322.10	5.50	1.80	12.10	2.70	1.10	409.60	
Min	0.10	0.70	0.50	3.00	3.00	10.90	5.90	1.80	0.80	0.60	0.40	0.20	0.10	

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Huai Mae Kraban at Ban Si Mong Khon , Kanchanaburi (K.53)**

Lat 14 - 01 - 38 N Long 99 - 13 - 23 E

Location : on right bank at the bridge on road.

	Ban Si Mong Khon	Amphoe Sai Yok	Changwat Kanchanaburi
Drainage Area	308 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2011		
Number of observation	188		
R-Square	0.9171		
Remarks	Continued Sediment Station		

$$QS = 8.5646 QW^{1.59030}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.00	20.90	2.60	0.80	2.80	1.40	0.50	0.50	0.30	0.20	0.10	0.00	
2	0.70	10.70	2.10	0.80	15.50	1.80	0.50	0.40	0.30	0.20	0.10	0.00	
3	0.60	4.90	3.80	0.70	7.20	2.30	0.40	0.30	0.30	0.20	0.10	0.00	
4	0.50	2.80	31.80	1.00	3.80	2.30	0.40	0.30	0.30	0.20	0.10	0.00	
5	0.60	3.80	14.10	2.80	2.60	1.80	0.60	0.30	0.30	0.20	0.10	0.00	
6	0.50	33.30	4.90	3.80	1.80	0.80	18.10	0.30	0.30	0.20	0.10	0.00	
7	0.50	5.40	3.30	1.80	1.40	0.70	195.60	0.30	0.30	0.20	0.10	0.00	
8	0.50	3.80	2.60	1.00	1.60	0.70	2163.40	0.30	0.30	0.20	0.10	0.00	
9	0.40	2.80	2.30	0.70	1.20	0.70	620.60	0.30	0.30	0.20	0.10	0.00	
10	0.50	2.60	1.80	0.60	1.40	0.70	280.00	0.30	0.30	0.20	0.10	0.00	
11	0.70	2.30	1.60	0.60	1.60	3.30	215.50	0.30	0.30	0.20	0.10	0.00	
12	0.60	2.10	1.40	0.60	1.60	141.80	127.00	0.30	0.30	0.10	0.10	0.00	
13	0.50	1.80	1.20	0.50	1.20	28.50	60.00	0.30	0.30	0.10	0.10	0.00	
14	0.40	1.80	1.20	0.50	1.20	9.70	82.30	0.30	0.30	0.10	0.10	0.00	
15	0.40	1.80	1.00	0.50	0.80	4.90	82.30	0.30	0.30	0.10	0.10	0.00	
16	0.40	3.80	1.20	0.50	0.80	2.60	78.30	0.30	0.30	0.10	0.10	0.00	
17	0.40	5.40	1.00	0.50	0.80	1.80	74.30	0.30	0.30	0.10	0.10	0.00	
18	0.30	4.90	1.20	0.50	0.80	1.20	54.50	0.30	0.30	0.10	0.10	0.00	
19	0.30	4.30	1.00	0.50	0.70	0.80	36.80	0.30	0.30	0.10	0.00	0.00	
20	0.30	3.30	0.80	0.50	0.70	0.80	25.40	0.30	0.30	0.10	0.00	0.00	
21	0.30	2.60	0.80	0.60	0.60	0.70	18.10	0.30	0.30	0.10	0.00	0.00	
22	0.30	2.30	0.80	0.70	0.60	0.70	11.90	0.30	0.30	0.10	0.00	0.00	
23	2.10	1.80	0.70	0.70	0.60	0.70	7.90	0.30	0.20	0.10	0.00	0.00	
24	170.10	1.80	0.70	0.80	0.60	0.80	7.20	0.30	0.20	0.10	0.00	0.00	
25	122.20	1.60	0.60	0.70	0.50	0.70	4.90	0.30	0.20	0.10	0.00	0.00	
26	36.80	1.80	0.60	0.80	0.50	0.70	2.60	0.30	0.20	0.10	0.00	0.00	
27	10.70	2.10	1.00	0.80	0.50	0.60	1.20	0.30	0.20	0.10	0.00	0.00	
28	35.20	1.80	1.40	0.70	0.60	0.60	1.00	0.30	0.20	0.10	0.00	0.00	
29	280.00	1.40	1.00	0.60	18.10	0.50	0.80	0.30	0.20	0.10	0.00	0.00	
30	36.80	1.60	0.80	0.60	3.30	0.50	0.70	0.30	0.20	0.10		0.40	
31		2.10		0.60	2.10		0.60		0.20	0.10		0.00	
Total	704.60	143.40	89.30	26.80	77.50	215.10	4173.40	9.30	8.40	4.20	1.80	0.40	5454.20
Mean	23.50	4.60	3.00	0.90	2.50	7.20	134.60	0.30	0.30	0.10	0.10	0.00	
Max	280.00	33.30	31.80	3.80	18.10	141.80	2163.40	0.50	0.30	0.20	0.10	0.40	2163.40
Min	0.30	1.40	0.60	0.50	0.50	0.50	0.40	0.30	0.20	0.10	0.00	0.00	0.00

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Huai Kui Mang at Ban Kui Mang , Kanchanaburi (K.60)**

Lat 14 - 37 - 32 N Long 98 - 43 - 50 E

Location : on right bank at the bridge on road.

	Ban Kui Mang	Amphoe Thong Pha Phum	Changwat Kanchanaburi
Drainage Area	128 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2002-Cont'd		
Actual Measurement	2002-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	37		
R-Square	0.8517		
Remarks	Continued Sediment Station		

$$QS = 4.2259 QW^{1.45170}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.10	0.40	2.70	6.00	541.30	14.70	30.40	7.00	4.00	2.70	1.90	1.00	
2	0.10	0.40	2.50	7.00	446.90	31.40	16.50	7.00	4.00	2.70	4.50	0.80	
3	0.10	0.40	2.00	6.00	281.60	23.20	15.20	7.00	3.70	2.70	3.50	0.80	
4	0.10	0.30	1.90	6.70	111.80	29.30	23.20	7.00	3.70	2.70	2.50	0.70	
5	0.20	3.70	1.90	9.00	54.20	21.50	19.90	6.70	3.70	2.50	2.30	0.70	
6	0.20	1.60	1.90	6.30	33.40	15.20	15.20	6.70	3.70	2.50	1.90	0.70	
7	0.10	1.50	2.50	5.40	27.60	13.50	92.50	6.30	3.70	2.50	1.70	0.70	
8	0.10	1.50	2.00	4.90	37.50	21.50	172.70	6.30	3.70	2.30	1.60	0.60	
9	0.10	1.60	1.70	4.90	50.20	15.90	55.60	6.30	3.70	2.30	1.60	0.60	
10	0.10	2.90	1.90	4.50	55.60	64.30	101.00	6.00	3.50	2.30	1.50	0.60	
11	0.10	3.20	1.90	4.50	38.70	182.10	41.20	5.70	3.50	2.30	1.30	0.60	
12	0.10	1.90	2.00	5.40	31.40	521.50	26.60	5.70	3.50	2.30	2.00	0.50	
13	0.10	1.70	2.00	5.40	24.90	234.00	21.50	5.40	3.50	2.00	1.60	0.50	
14	0.10	1.60	2.50	4.90	24.00	118.50	18.40	5.40	3.50	2.00	1.60	0.50	
15	0.10	1.90	3.50	4.50	66.00	78.40	17.70	5.40	3.50	2.00	1.50	4.20	
16	0.10	1.70	2.90	5.40	69.50	58.30	111.80	5.10	3.20	2.00	1.50	1.90	
17	0.10	1.70	5.40	7.00	88.40	48.90	41.20	5.10	3.20	2.00	1.30	1.20	
18	0.10	2.70	10.90	6.00	67.70	55.60	30.40	4.90	3.20	1.90	1.30	1.00	
19	0.10	5.10	6.00	6.70	38.70	43.70	22.40	4.90	3.20	1.90	1.70	0.80	
20	0.10	3.70	7.30	13.50	34.30	37.50	19.10	4.50	3.20	1.90	1.70	0.70	
21	0.40	3.70	7.60	327.10	23.20	33.40	17.10	4.50	3.20	1.90	1.60	0.70	
22	0.40	3.70	6.00	96.70	18.40	46.30	15.20	4.50	2.90	1.90	1.60	0.70	
23	0.50	3.20	5.40	27.60	14.70	43.70	13.50	4.50	2.90	1.90	1.50	0.70	
24	1.10	2.30	5.10	11.40	15.20	46.30	12.40	4.20	2.90	1.70	1.30	0.70	
25	0.50	2.90	4.90	8.10	11.40	30.40	11.40	4.20	2.90	1.70	1.30	0.70	
26	0.50	5.10	4.50	17.70	9.40	25.70	10.40	4.20	2.90	1.70	1.20	0.70	
27	0.40	5.40	17.10	9.40	17.10	22.40	9.00	4.20	2.70	1.60	1.10	0.70	
28	0.40	4.50	14.10	8.10	31.40	19.90	8.10	4.20	2.70	1.60	1.10	0.70	
29	0.40	4.00	7.00	6.70	62.60	17.10	7.60	4.00	2.70	1.60	1.00	0.70	
30	0.40	3.70	6.00	7.60	22.40	17.10	7.30	4.00	2.70	1.50		0.60	
31		2.90		50.20	17.70		7.30		2.70	1.50		0.60	
Total	7.20	80.90	143.10	694.60	2367.20	1931.30	1011.80	160.90	102.10	64.10	50.20	26.60	6640.00
Mean	0.20	2.60	4.80	22.40	76.40	64.40	32.60	5.40	3.30	2.10	1.70	0.90	
Max	1.10	5.40	17.10	327.10	541.30	521.50	172.70	7.00	4.00	2.70	4.50	4.20	541.30
Min	0.10	0.30	1.70	4.50	9.40	13.50	7.30	4.00	2.70	1.50	1.00	0.50	0.10

WATER YEAR : 2011**MAE KLONG RIVER BASIN****Lam Phachi at Chom Bung , Ratchaburi (K.61)**

Lat 13 - 41 - 28 N Long 99 - 27 - 08 E

Location : on right bank at the bridge on highway.

	Ban -	Amphoe	Chom Bung	Changwat	Ratchaburi
Drainage Area	1,844	sq.km.			
Method of sampling	Depth Integrating				
Instrument Used	US.D-49				
Period of Available Records	2003-Cont'd				
Actual Measurement	2003-Cont'd				
Using Rating Curve Water Year	2003-2011				
Number of observation	225				
R-Square	0.8850				
Remarks	Continued Sediment Station				

$$QS = 2.1502 QW^{1.49480}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.00	44.60	93.80	74.90	155.10	78.50	82.30	262.70	71.20	58.40	52.70	20.60	
2	3.60	82.30	101.70	71.20	514.80	78.50	82.30	218.30	71.20	58.40	52.70	20.60	
3	3.60	61.30	97.70	71.20	362.80	78.50	82.30	234.90	71.20	61.30	49.90	20.60	
4	3.60	93.80	331.70	71.20	196.50	74.90	93.80	211.00	71.20	61.30	52.70	22.30	
5	8.50	64.20	234.90	82.30	138.30	74.90	89.90	189.30	71.20	58.40	49.90	24.00	
6	11.70	67.70	132.90	86.00	111.80	74.90	97.70	149.40	71.20	58.40	49.90	20.60	
7	31.20	71.20	117.00	78.50	97.70	71.20	373.40	155.10	74.90	58.40	47.20	19.00	
8	55.50	78.50	101.70	78.50	89.90	71.20	2290.40	149.40	74.90	55.50	47.20	19.00	
9	24.00	61.30	93.80	71.20	89.90	82.30	1515.10	138.30	74.90	55.50	47.20	19.00	
10	27.50	47.20	86.00	71.20	89.90	89.90	681.70	132.90	74.90	52.70	44.60	19.00	
11	29.30	55.50	82.30	67.70	86.00	101.70	540.60	132.90	74.90	47.20	39.40	19.00	
12	17.70	52.70	82.30	64.20	86.00	155.10	825.60	106.70	74.90	47.20	39.40	19.00	
13	10.60	67.70	78.50	64.20	86.00	182.30	966.10	117.00	74.90	47.20	36.90	20.60	
14	8.50	175.40	78.50	61.30	86.00	138.30	792.60	117.00	78.50	49.90	36.90	24.00	
15	6.80	225.80	78.50	64.20	93.80	117.00	502.00	106.70	78.50	49.90	36.90	22.30	
16	5.40	452.10	78.50	64.20	93.80	106.70	581.40	101.70	74.90	52.70	36.90	27.50	
17	4.80	218.30	82.30	64.20	89.90	101.70	595.40	97.70	71.20	49.90	35.00	29.30	
18	2.50	182.30	78.50	61.30	89.90	97.70	1103.90	97.70	67.70	49.90	31.20	31.20	
19	7.50	161.80	97.70	58.40	86.00	93.80	792.60	93.80	67.70	52.70	27.50	27.50	
20	101.70	132.90	89.90	58.40	86.00	93.80	540.60	89.90	67.70	49.90	25.70	27.50	
21	22.30	111.80	93.80	64.20	82.30	93.80	476.80	86.00	67.70	47.20	31.20	31.20	
22	10.60	101.70	111.80	71.20	82.30	89.90	476.80	82.30	67.70	52.70	33.00	27.50	
23	6.80	93.80	111.80	78.50	82.30	89.90	405.70	82.30	64.20	55.50	31.20	22.30	
24	10.60	86.00	93.80	82.30	78.50	89.90	321.50	86.00	64.20	52.70	27.50	19.00	
25	97.70	86.00	86.00	86.00	74.90	89.90	311.40	89.90	64.20	49.90	29.30	16.40	
26	175.40	101.70	82.30	82.30	78.50	93.80	373.40	78.50	64.20	49.90	35.00	14.00	
27	89.90	149.40	82.30	82.30	78.50	97.70	301.50	74.90	64.20	47.20	31.20	14.00	
28	47.20	132.90	86.00	82.30	78.50	93.80	291.60	74.90	64.20	47.20	25.70	12.80	
29	52.70	101.70	82.30	74.90	86.00	89.90	452.10	74.90	61.30	44.60	22.30	11.70	
30	55.50	89.90	78.50	74.90	86.00	86.00	502.00	71.20	58.40	44.60		11.70	
31		93.80		89.90	82.30		384.10		58.40	49.90		10.60	
Total	946.70	3545.30	3126.80	2253.10	3620.20	2877.50	16926.60	3703.30	2156.40	1616.20	1106.20	643.80	42522.10
Mean	31.60	114.40	104.20	72.70	116.80	95.90	546.00	123.40	69.60	52.10	38.10	20.80	
Max	175.40	452.10	331.70	89.90	514.80	182.30	2290.40	262.70	78.50	61.30	52.70	31.20	2290.40
Min	2.50	44.60	78.50	58.40	74.90	71.20	82.30	71.20	58.40	44.60	22.30	10.60	2.50

WATER YEAR : 2011**PRACHIN BURI RIVER BASIN****Khlong Phra Sathung at Ban Khao Chakan , Sa Kao (Kgt.9)**

Lat 13 - 40 - 11 N Long 102 - 04 - 38 E

Location : on right bank near Wat Khao Chakan.

	Ban Khao Chakan	Amphoe Khao Chakan	Changwat Sa Kao
Drainage Area	2,264 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2011		
Number of observation	178		
R-Square	0.8515		
Remarks	Continued Sediment Station		

$$QS = 5.2210 QW^{1.29500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	89.80	211.00	365.60	230.00	230.00	1528.80	1721.30	378.10	137.50	89.80	116.50	83.40	
2	96.40	174.10	403.40	220.50	429.00	3739.30	1573.40	328.60	116.50	103.00	116.50	83.40	
3	96.40	144.60	259.30	220.50	823.50	4161.60	1204.60	316.50	89.80	103.00	116.50	83.40	
4	89.80	137.50	328.60	192.30	521.60	3451.70	2190.40	304.50	89.80	109.70	109.70	83.40	
5	89.80	230.00	269.20	192.30	292.60	3445.80	2683.70	304.50	123.40	103.00	109.70	83.40	
6	71.00	292.60	239.70	230.00	259.30	1573.40	2921.50	249.40	130.40	89.80	109.70	83.40	
7	83.40	316.50	192.30	192.30	239.70	1551.10	3469.60	280.80	130.40	83.40	109.70	83.40	
8	103.00	239.70	159.20	192.30	416.20	1162.70	3496.30	280.80	130.40	89.80	103.00	83.40	
9	96.40	230.00	183.20	151.90	521.60	2137.00	2819.00	280.80	130.40	83.40	103.00	83.40	
10	96.40	280.80	151.90	151.90	1144.20	3863.70	8360.70	304.50	130.40	83.40	103.00	83.40	
11	96.40	211.00	151.90	151.90	2110.50	6892.80	17736.40	269.20	123.40	89.80	103.00	83.40	
12	77.10	183.20	166.60	137.50	3454.70	15792.50	14122.20	211.00	123.40	89.80	83.40	83.40	
13	64.90	166.60	183.20	137.50	4112.20	23667.50	9249.60	159.20	123.40	83.40	83.40	83.40	
14	390.70	230.00	159.20	130.40	1900.70	24429.60	3576.90	144.60	123.40	83.40	83.40	83.40	
15	89.80	292.60	192.30	269.20	2683.70	13828.30	2717.40	144.60	123.40	83.40	83.40	83.40	
16	83.40	328.60	230.00	292.60	3827.20	4261.00	4099.80	144.60	130.40	77.10	83.40	83.40	
17	89.80	353.20	192.30	292.60	6006.60	3772.60	4099.80	151.90	123.40	96.40	83.40	83.40	
18	83.40	1573.40	151.90	269.20	3703.10	3535.10	4248.60	174.10	116.50	109.70	83.40	83.40	
19	96.40	3654.90	166.60	259.30	2004.90	3351.20	2110.50	159.20	123.40	109.70	83.40	192.30	
20	109.70	1034.70	239.70	292.60	1332.20	2990.20	1797.70	166.60	116.50	96.40	83.40	192.30	
21	304.50	604.00	259.30	521.60	791.50	3529.10	3992.10	183.20	116.50	96.40	83.40	151.90	
22	292.60	390.70	239.70	1645.70	660.50	3502.30	3544.00	144.60	116.50	116.50	83.40	151.90	
23	416.20	259.30	230.00	2031.20	508.10	3526.10	1332.20	159.20	109.70	109.70	83.40	151.90	
24	403.40	183.20	220.50	857.90	378.10	4486.60	927.70	151.90	109.70	103.00	83.40	116.50	
25	328.60	249.40	192.30	998.70	1462.60	9950.30	747.20	159.20	109.70	109.70	83.40	116.50	
26	304.50	328.60	174.10	689.10	3541.00	12285.30	660.50	151.90	103.00	103.00	83.40	116.50	
27	230.00	442.00	159.20	403.40	5286.30	6277.40	548.80	144.60	103.00	109.70	83.40	116.50	
28	174.10	416.20	159.20	353.20	3564.90	4411.10	494.70	144.60	109.70	103.00	83.40	116.50	
29	166.60	403.40	166.60	378.10	3709.10	5655.50	442.00	137.50	103.00	103.00	83.40	116.50	
30	239.70	316.50	201.60	455.10	3727.20	4552.80	442.00	137.50	103.00	116.50		116.50	
31		280.80		239.70	1310.70		416.20		109.70	96.40		116.50	
Total	4954.20	14159.10	6388.60	12780.50	60953.50	187312.40	107746.80	6267.70	3629.70	3024.30	2701.50	3273.50	413191.80
Mean	165.10	456.70	213.00	412.30	1966.20	6243.70	3475.70	208.90	117.10	97.60	93.20	105.60	
Max	416.20	3654.90	403.40	2031.20	6006.60	24429.60	17736.40	378.10	137.50	116.50	116.50	192.30	24429.60
Min	64.90	137.50	151.90	130.40	230.00	1162.70	416.20	137.50	89.80	77.10	83.40	83.40	64.90

WATER YEAR : 2011**PRACHIN BURI RIVER BASIN****Khlong Phra Prong at Ban Kaeng , Sa Kao (Kgt.12)**

Lat 13 - 56 - 10 N Long 101 - 58 - 27 E

Location : on left bank near the railway station at Ban Kaeng at about 200 meters upstream from Thot Saphon Sawmill.

	Ban Kaeng	Amphoe Mueang	Changwat Sa Kao
Drainage Area	1,478 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2005-2011		
Number of observation	89		
R-Square	0.7690		
Remarks	Continued Sediment Station		

$$QS = 9.9180 QW^{1.02160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	60.60	66.40	79.50	87.90	157.30	922.30	1819.50	213.90	67.70	47.60	64.10	66.40	
2	60.60	65.30	77.20	159.90	176.10	990.20	1728.30	189.60	66.40	46.40	64.10	66.40	
3	59.40	65.30	94.20	264.30	197.70	1071.70	1530.60	168.00	66.40	45.30	64.10	66.40	
4	59.40	65.30	94.20	294.80	195.00	1159.50	1324.40	143.80	65.30	44.10	64.10	66.40	
5	59.40	64.10	109.10	251.30	170.70	1173.10	1217.10	124.00	64.10	45.30	64.10	67.70	
6	60.60	61.80	109.10	195.00	113.40	1085.20	1091.90	109.10	64.10	51.10	63.00	67.70	
7	63.00	60.60	92.10	154.60	224.70	949.20	1021.60	100.60	63.00	57.00	63.00	67.70	
8	63.00	60.60	79.50	124.00	424.40	791.60	986.30	96.40	61.80	58.20	63.00	67.70	
9	61.80	65.30	72.40	104.90	444.00	643.00	986.30	92.10	61.80	57.00	64.10	67.70	
10	63.00	64.10	72.40	90.00	494.70	594.10	1025.60	90.00	63.00	57.00	64.10	67.70	
11	63.00	63.00	70.00	84.30	530.30	735.50	1061.00	87.90	63.00	59.40	64.10	67.70	
12	64.10	60.60	68.90	80.80	623.50	922.30	1227.20	94.20	63.00	59.40	64.10	67.70	
13	64.10	60.60	72.40	78.40	730.70	1230.60	1369.60	90.00	61.80	58.20	63.00	67.70	
14	64.10	63.00	70.00	83.10	862.90	1510.20	1811.50	87.90	61.80	61.80	63.00	67.70	
15	64.10	67.70	67.70	86.70	826.60	2008.90	2100.30	86.70	60.60	63.00	64.10	67.70	
16	65.30	68.90	66.40	92.10	689.20	2460.10	1972.30	85.40	60.60	63.00	64.10	66.40	
17	65.30	74.80	68.90	98.50	865.70	2515.20	1728.30	84.30	59.40	63.00	64.10	66.40	
18	65.30	72.40	75.90	96.40	1085.20	2223.90	1578.30	83.10	59.40	64.10	64.10	66.40	
19	64.10	72.40	74.80	92.10	1119.00	1811.50	1482.90	80.80	59.40	65.30	65.30	66.40	
20	64.10	83.10	74.80	138.50	1071.70	1462.50	1375.30	79.50	58.20	65.30	65.30	65.30	
21	67.70	70.00	83.10	377.40	922.30	1206.90	1250.90	78.40	58.20	65.30	65.30	66.40	
22	68.90	64.10	87.90	444.50	742.80	925.70	1139.20	77.20	57.00	66.40	65.30	67.70	
23	66.40	61.80	86.70	499.10	549.80	781.90	1013.80	74.80	57.00	66.40	65.30	68.90	
24	66.40	60.60	84.30	553.30	444.50	769.70	871.30	73.60	55.80	66.40	65.30	68.90	
25	67.70	59.40	79.50	493.60	424.40	865.70	655.10	72.40	55.80	66.40	65.30	68.90	
26	70.00	59.40	74.80	440.10	444.00	1009.80	480.30	71.30	54.70	65.30	65.30	67.70	
27	70.00	60.60	71.30	325.40	494.70	1264.50	432.20	70.00	52.40	65.30	66.40	67.70	
28	70.00	70.00	68.90	219.30	530.30	1571.50	408.70	68.90	48.80	68.90	66.40	66.40	
29	68.90	83.10	67.70	170.70	623.50	1771.60	307.90	67.70	46.40	70.00	66.40	66.40	
30	67.70	84.30	73.60	135.80	730.70	1827.40	260.00	67.70	45.30	68.90		65.30	
31		83.10		138.50	862.90		235.60		45.30	66.40		64.10	
Total	1938.00	2081.70	2367.30	6455.30	17772.70	38255.30	35493.30	2909.30	1827.50	1867.20	1869.90	2079.60	114917.10
Mean	64.60	67.20	78.90	208.20	573.30	1275.20	1144.90	97.00	59.00	60.20	64.50	67.10	
Max	70.00	84.30	109.10	553.30	1119.00	2515.20	2100.30	213.90	67.70	70.00	66.40	68.90	2515.20
Min	59.40	59.40	66.40	78.40	113.40	594.10	235.60	67.70	45.30	44.10	63.00	64.10	44.10

WATER YEAR : 2011**PRACHIN BURI RIVER BASIN****Khlong Phra Prong at Ban Non Suk Phum , Prachin Buri (Kgt.13A)**

Lat 13 - 54 - 29 N Long 101 - 50 - 32 E

Location : on left bank about 21 kilometers upstream from station Kgt.13

	Ban	Non Suk Phum	Amphoe	Kabin Buri	Changwat	Prachin Buri
Drainage Area	4,906	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1998-Cont'd					
Actual Measurement	1998-Cont'd					
Using Rating Curve Water Year	1998-2011					
Number of observation	230					
R-Square	0.8418					
Remarks	Continued Sediment Station					

$$QS = 7.2002 QW^{1.12580}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.40	72.70	263.20	265.00	882.30	3645.90	6164.70	324.60	77.40	62.00	40.10	25.70	
2	31.40	78.90	268.50	383.80	772.10	3546.90	6260.40	313.70	74.30	50.00	36.20	31.40	
3	30.50	71.10	337.40	710.60	868.40	3822.00	5941.90	304.60	71.10	44.10	34.30	33.30	
4	31.40	52.90	381.90	949.10	1078.80	3997.30	5391.20	281.20	69.70	40.10	31.40	24.80	
5	31.40	42.10	400.60	879.50	954.70	4128.90	5167.60	261.50	66.60	35.30	37.20	24.80	
6	31.40	58.90	374.40	736.70	730.70	4194.90	4844.20	254.40	74.30	26.70	39.10	22.00	
7	31.40	75.80	344.80	455.20	635.20	3882.50	4063.00	229.50	77.40	32.40	52.90	18.40	
8	30.50	89.90	153.80	245.40	489.50	3456.30	3964.40	215.50	58.90	34.30	58.90	24.80	
9	30.50	99.60	153.80	245.40	378.20	2916.80	3866.10	210.30	56.00	48.50	22.90	26.70	
10	30.50	63.60	96.30	203.30	769.40	2735.10	3948.00	206.80	51.50	42.10	41.10	23.90	
11	31.40	88.30	65.00	198.10	1866.20	3094.90	4128.90	217.30	44.10	26.70	47.00	22.90	
12	32.40	65.00	82.00	102.70	1968.40	3508.10	4710.20	210.30	36.20	24.80	38.20	21.10	
13	33.30	51.50	212.00	94.70	2436.30	4377.00	5046.00	158.80	28.60	22.90	32.40	21.10	
14	0.00	44.10	201.50	89.90	3050.30	4827.40	5330.10	155.50	51.50	17.50	17.50	20.20	
15	191.20	74.30	187.80	172.40	3128.50	5046.00	5704.20	148.80	24.80	31.40	15.70	19.30	
16	189.50	122.20	181.00	226.10	3173.30	5957.70	5973.70	142.10	22.90	34.30	12.20	15.70	
17	32.40	193.00	167.30	343.10	3495.10	6324.40	5910.20	128.80	24.80	5.60	26.70	14.80	
18	29.50	194.70	184.30	396.80	3964.40	6564.80	5799.30	115.70	30.50	3.30	30.50	21.10	
19	28.60	326.50	224.30	447.70	4046.60	6164.70	5554.50	114.00	37.20	86.80	34.30	22.90	
20	22.00	1187.90	187.80	599.90	4096.00	5878.40	5452.40	112.40	44.10	93.20	36.20	14.80	
21	28.60	1022.20	224.30	791.30	3915.30	5391.20	4934.90	110.80	56.00	7.20	39.10	8.80	
22	189.50	143.70	295.60	1898.40	3139.70	4660.00	4063.00	109.20	36.20	48.50	34.30	7.20	
23	193.00	179.20	277.50	1963.10	1438.00	4710.20	2706.70	105.90	28.60	3.30	32.40	11.40	
24	193.00	163.90	229.50	2475.20	1438.00	3748.50	2622.00	105.90	24.80	77.40	24.80	6.40	
25	227.80	153.80	177.50	2235.20	1770.00	4777.10	1616.80	105.90	42.10	7.20	21.10	4.10	
26	219.00	80.50	147.10	1877.00	2744.50	5187.90	1245.40	105.90	42.10	38.20	21.10	1.50	
27	189.50	160.50	89.90	1277.90	2772.90	5767.40	1198.60	105.90	47.00	39.10	19.30	0.00	
28	177.50	175.70	86.80	1110.00	2850.20	5862.50	957.50	93.20	36.20	0.50	21.10	0.00	
29	26.70	332.00	99.60	898.90	3028.00	6228.50	572.60	86.80	30.50	16.60	15.70	0.00	
30	23.90	350.40	75.80	700.70	3398.20	5989.50	367.00	82.00	27.60	42.10		0.00	
31		359.60		827.00	3645.90		328.40		34.30	4.10		0.00	
Total	2370.20	6174.50	6171.30	23800.10	68925.10	140392.80	123833.90	5117.30	1427.30	1046.20	913.70	489.10	380661.50
Mean	79.00	199.20	205.70	767.70	2223.40	4679.80	3994.60	170.60	46.00	33.70	31.50	15.80	
Max	227.80	1187.90	400.60	2475.20	4096.00	6564.80	6260.40	324.60	77.40	93.20	58.90	33.30	6564.80
Min	0.00	42.10	65.00	89.90	378.20	2735.10	328.40	82.00	22.90	0.50	12.20	0.00	0.00

WATER YEAR : 2011**PRACHIN BURI RIVER BASIN****Huai Yang at Ban Thung Faek , Prachin Buri (Kgt.14)**

Lat 14 - 09 - 29 N Long 101 - 52 - 50 E

Location : on left bank about 2 kilometers from Kabin Buri - Nakhon Ratchasima Highway.

	Ban Thung Faek	Amphoe Na Di	Changwat Prachin Buri
Drainage Area	354 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2008-2011		
Number of observation	62		
R-Square	0.8034		
Remarks	Continued Sediment Station		

$$QS = 7.4506 QW^{1.23220}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.00	62.20	1146.00	175.70	345.40	31.20	1.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	52.80	1080.00	114.00	271.40	31.20	0.40	0.00	0.00	0.00	
3	0.00	0.00	0.00	118.60	778.30	91.40	336.00	27.70	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	78.40	437.40	538.30	517.80	24.20	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	45.00	175.70	308.00	294.20	21.90	0.00	0.00	0.00	0.00	
6	0.00	0.00	5.70	25.30	102.60	139.80	871.90	19.70	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	15.40	72.00	175.70	477.30	17.50	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	9.30	58.20	102.60	192.50	16.40	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	6.50	87.00	114.00	144.60	15.40	0.00	0.00	0.00	0.00	
10	0.00	0.00	1.70	13.30	87.00	966.30	345.40	21.90	0.00	0.00	0.00	0.00	
11	0.00	0.00	9.30	16.40	102.60	1179.30	502.50	23.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	19.70	10.30	74.10	1565.40	195.90	16.40	0.00	0.00	0.00	0.00	
13	0.00	5.70	14.30	37.40	54.10	804.80	209.60	13.30	0.00	0.00	0.00	0.00	
14	0.00	0.00	2.40	76.20	118.60	600.60	253.40	12.30	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	165.80	303.40	317.30	147.00	11.30	0.00	0.00	0.00	0.00	
16	0.00	0.00	3.20	89.20	811.50	209.60	162.50	9.30	0.00	0.00	0.00	0.00	
17	0.00	0.00	17.50	51.50	189.10	192.50	910.30	9.30	0.00	0.00	0.00	0.00	
18	0.00	0.00	37.40	36.10	798.20	132.70	778.30	8.40	0.00	0.00	0.00	0.00	
19	0.00	0.00	55.50	30.00	2143.90	100.30	253.40	6.50	0.00	0.00	0.00	0.00	
20	0.00	0.00	223.40	30.00	1425.80	80.50	151.90	6.50	0.00	0.00	0.00	0.00	
21	0.00	0.00	116.30	52.80	374.00	383.60	120.90	4.00	0.00	1.00	0.00	0.00	
22	0.00	0.00	98.10	137.40	175.70	271.40	95.90	3.20	0.00	0.00	0.00	0.00	
23	0.00	0.00	34.90	95.90	116.30	477.30	72.00	3.20	0.00	0.00	0.00	0.00	
24	0.00	0.00	21.90	364.40	91.40	487.30	62.20	2.40	0.00	0.00	0.00	0.00	
25	0.00	0.00	16.40	132.70	93.60	303.40	58.20	2.40	0.00	0.00	0.00	0.00	
26	0.00	0.00	10.30	611.10	69.90	159.20	52.80	1.70	0.00	4.00	0.00	0.00	
27	0.00	0.00	51.50	192.50	56.80	235.70	47.50	1.70	0.00	0.00	0.00	0.00	
28	0.00	0.00	336.00	87.00	51.50	771.70	43.70	1.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	67.80	84.80	102.60	340.70	41.10	1.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	67.80	182.40	579.70	359.70	37.40	1.00	0.00	0.00		0.00	
31		0.00		336.00	427.50		33.70		0.00	0.00		0.00	
Total	0.00	5.70	1211.10	3246.70	12184.50	11698.80	8026.70	365.00	1.40	5.00	0.00	0.00	36744.90
Mean	0.00	0.20	40.40	104.70	393.00	390.00	258.90	12.20	0.00	0.20	0.00	0.00	
Max	0.00	5.70	336.00	611.10	2143.90	1565.40	910.30	31.20	1.00	4.00	0.00	0.00	2143.90
Min	0.00	0.00	0.00	6.50	51.50	80.50	33.70	1.00	0.00	0.00	0.00	0.00	0.00

WATER YEAR : 2011**PRACHIN BURI RIVER BASIN****Khlong Phra Sathung at Ban Tharapha , Sa Kao (Kgt.42)**

Lat 13 - 59 - 21 N Long 101 - 57 - 30 E

Location : on left bank at the bridge.

	Ban Tharapha	Amphoe Mueang	Changwat Sa Kao
Drainage Area	2,558 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	20		
R-Square	0.8377		
Remarks	Continued Sediment Station		

$$QS = 10.6310 QW^{1.10630}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.60	131.30	85.80	125.30	167.70	2098.70	4092.20	302.90	34.50	16.60	26.70	8.30	
2	6.60	100.20	80.00	223.70	173.80	2046.00	3417.50	252.20	33.20	14.80	26.10	8.30	
3	6.60	60.30	157.00	298.00	487.50	2869.00	2573.50	202.50	31.90	13.60	26.10	8.30	
4	6.60	29.30	144.80	245.00	725.80	3307.10	2122.10	146.30	30.60	13.00	28.60	8.30	
5	6.60	33.90	138.80	188.50	366.80	3215.30	2566.50	84.30	29.90	12.40	31.20	8.30	
6	6.60	101.70	114.90	149.40	181.50	2676.30	2587.40	70.10	29.30	11.80	22.90	8.30	
7	6.60	144.80	78.60	216.60	143.30	1865.40	2510.80	155.50	28.60	11.20	22.30	7.70	
8	33.90	160.00	65.90	123.80	170.70	1595.00	2732.40	169.20	28.00	10.60	21.60	7.70	
9	13.00	90.10	54.80	57.50	278.60	1477.40	2716.30	123.80	27.40	10.00	21.60	7.70	
10	13.60	100.20	46.60	32.60	580.00	2165.20	2652.30	65.90	26.70	10.00	20.40	7.20	
11	8.30	112.00	32.60	21.60	1299.00	2859.90	3463.60	109.00	26.70	9.50	19.70	7.20	
12	7.20	60.30	33.20	19.10	1958.40	3343.80	4200.70	150.90	26.10	9.50	19.10	7.20	
13	7.20	33.90	67.30	9.50	2489.90	3806.60	4891.00	109.00	25.40	8.90	18.50	6.60	
14	49.30	33.20	129.80	11.80	3069.00	4510.90	5130.10	67.30	24.80	8.30	17.90	6.00	
15	135.80	90.10	188.50	17.90	2330.50	5580.80	4637.30	56.10	24.20	7.70	17.30	5.50	
16	9.50	147.90	153.90	186.20	2337.40	5456.90	3920.60	47.90	22.90	7.70	16.60	5.50	
17	7.70	176.90	106.10	193.10	3005.20	4875.10	3676.50	35.20	21.60	7.70	16.00	5.50	
18	7.70	327.30	67.30	180.00	3353.00	3982.90	3754.90	41.20	19.70	7.20	15.40	57.50	
19	7.70	1491.60	90.10	200.10	3169.50	2859.90	3676.50	65.90	19.10	7.20	14.80	35.20	
20	7.70	2116.30	109.00	312.60	2566.50	1882.80	2941.60	57.50	18.50	6.00	14.20	32.60	
21	35.80	991.10	113.40	513.00	1463.20	1715.30	2220.20	49.30	26.70	4.90	13.60	23.50	
22	264.20	551.60	109.00	907.80	936.70	2069.40	2841.80	45.20	25.40	4.90	13.00	19.10	
23	209.50	230.80	119.40	1877.00	715.20	1964.20	2178.90	43.90	23.50	149.40	12.40	18.50	
24	351.90	23.50	103.20	1871.20	492.60	2496.80	1491.60	43.90	22.90	58.90	11.80	18.50	
25	298.00	13.60	82.90	991.10	1738.30	3279.50	1002.10	42.50	22.30	67.30	11.20	17.90	
26	237.90	15.40	64.50	1038.50	2302.80	3695.00	779.00	39.80	21.60	37.20	10.60	17.90	
27	186.20	95.90	37.20	569.60	2814.70	4119.30	627.70	35.80	21.00	22.90	10.00	17.30	
28	101.70	436.80	29.30	354.40	3261.20	4668.90	536.10	33.20	20.40	27.40	8.90	137.30	
29	45.20	364.30	37.20	235.50	3371.40	4621.50	467.10	29.90	19.70	29.30	8.30	144.80	
30	52.00	266.60	68.70	347.00	3334.60	4350.30	396.60	29.90	19.10	31.20		74.30	
31		141.80		446.90	3445.10		354.40		18.50	33.20		26.10	
Total	2137.20	8672.70	2709.80	11964.30	52729.90	95455.20	81159.30	2706.10	770.20	670.30	516.80	764.10	260255.90
Mean	71.20	279.80	90.30	385.90	1701.00	3181.80	2618.00	90.20	24.80	21.60	17.80	24.60	
Max	351.90	2116.30	188.50	1877.00	3445.10	5580.80	5130.10	302.90	34.50	149.40	31.20	144.80	5580.80
Min	6.60	13.60	29.30	9.50	143.30	1477.40	354.40	29.90	18.50	4.90	8.30	5.50	4.90

WATER YEAR : 2011**BANG PAKONG RIVER BASIN****Lower Khlong Ban Na at Ban Pa Kha , Nakhon Nayok (Ny.3)**

Lat 14 - 17 - 04 N Long 101 - 04 - 28 E

Location : on left bank near Wat Ban Pa Kha.

	Ban	Pa Kha	Amphoe	Ban Na	Changwat	Nakhon Nayok
Drainage Area	203	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1999-Cont'd					
Actual Measurement	1999-Cont'd					
Using Rating Curve Water Year	1999-2011					
Number of observation	219					
R-Square	0.7276					
Remarks	Continued Sediment Station					

$$QS = 9.4586 QW^{0.85010}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.20	5.10	10.70	26.10	63.50	79.30	146.70	16.30	4.30	5.20	3.90	1.10	
2	7.20	5.10	23.40	23.00	89.70	102.90	107.70	14.10	6.10	5.10	4.20	1.10	
3	7.20	9.10	11.80	17.80	90.20	120.00	106.40	12.40	5.70	4.80	4.20	1.10	
4	6.10	8.80	0.00	16.70	76.00	109.80	195.20	13.20	7.20	4.60	4.20	1.10	
5	6.10	11.40	0.00	16.00	66.40	139.70	172.40	12.60	8.20	4.80	4.20	1.10	
6	6.40	12.40	13.20	13.70	51.30	129.20	169.80	13.40	8.10	4.80	4.20	1.10	
7	7.70	7.00	14.10	12.60	39.00	101.50	196.70	13.00	7.70	4.80	3.90	1.10	
8	8.80	3.40	11.40	12.80	30.10	95.20	145.00	12.20	7.70	4.80	3.90	1.10	
9	8.10	2.90	11.00	11.80	24.10	140.60	114.60	12.20	7.40	4.80	3.90	1.10	
10	6.10	2.20	11.00	10.80	29.40	396.50	106.40	11.20	7.20	4.80	3.90	1.10	
11	6.00	2.70	11.00	11.40	35.90	581.50	174.90	10.40	7.00	4.80	3.90	1.10	
12	6.10	2.90	16.30	18.50	33.30	609.80	179.10	4.80	6.80	4.60	3.90	1.10	
13	6.60	6.80	22.00	18.10	23.40	459.70	184.10	3.20	6.60	4.60	3.90	1.10	
14	6.60	8.80	19.90	14.90	20.30	311.30	156.20	2.40	6.60	4.30	3.90	1.10	
15	6.60	8.60	17.10	51.30	30.10	202.70	116.60	1.90	6.40	4.30	3.70	1.10	
16	6.60	7.80	16.70	73.80	64.70	157.90	100.80	1.70	6.40	4.30	3.70	1.10	
17	7.40	6.80	14.90	92.40	61.20	129.20	84.80	1.30	6.10	4.60	3.70	1.10	
18	8.40	8.20	14.90	102.20	94.50	174.00	70.90	1.30	6.00	4.60	3.20	1.10	
19	6.80	10.00	16.30	67.00	110.50	169.80	58.90	1.70	6.00	4.30	1.30	1.10	
20	5.20	9.60	16.00	143.20	102.20	199.70	51.90	1.90	5.70	4.60	1.30	1.10	
21	4.80	10.00	17.40	152.80	91.30	362.50	35.90	2.90	5.70	4.60	1.10	1.10	
22	4.20	8.60	19.90	145.00	67.50	233.40	12.60	1.30	5.70	4.60	0.70	1.10	
23	6.00	7.00	17.10	119.30	50.10	160.50	9.50	1.30	5.70	4.30	0.70	1.10	
24	5.20	7.20	16.70	92.40	37.80	360.80	16.70	1.30	6.00	4.30	0.70	1.10	
25	5.20	7.00	13.00	85.90	47.00	379.60	87.50	1.30	6.00	4.20	0.70	1.10	
26	5.20	7.00	11.70	69.20	55.40	249.80	39.00	1.70	5.70	4.20	1.30	1.10	
27	5.20	6.60	27.40	68.70	39.00	248.90	23.70	2.40	5.50	4.20	1.30	1.10	
28	5.20	7.80	95.20	52.40	39.70	233.40	21.30	5.70	5.50	3.90	1.30	1.10	
29	5.20	7.40	63.00	39.70	143.20	162.20	20.60	4.60	5.50	3.90	1.10	1.10	
30	5.20	17.40	36.50	41.50	157.00	161.30	19.20	3.40	5.50	3.90		1.10	
31		53.00		50.10	107.70		17.80		5.20	3.70		1.10	
Total	188.60	278.60	589.60	1671.10	1971.50	6962.70	2942.90	187.10	195.20	139.30	81.90	34.10	15242.60
Mean	6.30	9.00	19.70	53.90	63.60	232.10	94.90	6.20	6.30	4.50	2.80	1.10	
Max	8.80	53.00	95.20	152.80	157.00	609.80	196.70	16.30	8.20	5.20	4.20	1.10	609.80
Min	4.20	2.20	0.00	10.80	20.30	79.30	9.50	1.30	4.30	3.70	0.70	1.10	0.00

WATER YEAR : 2011**BANG PAKONG RIVER BASIN****Khlong Samo Pun at Ban Noen Hom , Prachin Buri (Ny.4)**

Lat 14 - 17 - 27 N Long 101 - 24 - 25 E

Location : on left bank at the bridge of Prachin Buri - Khao Yai Highway.

	Ban	Noen Hom	Amphoe	Mueang	Changwat	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					
Using Rating Curve Water Year	1986-2011					
Number of observation	354					
R-Square	0.7709					
Remarks	Continued Sediment Station					

$$QS = 1.5760 QW^{1.36070}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	14.10	214.50	424.40	1039.40	128.60	176.00	9.00	1.20	0.00	0.00	0.00	
2	0.00	9.70	145.40	159.80	526.70	165.60	115.00	7.00	1.20	0.00	0.00	0.00	
3	0.00	4.00	79.90	210.60	195.00	108.40	106.40	6.40	1.00	0.00	0.00	0.00	
4	0.00	3.20	69.10	145.40	187.40	431.10	96.70	5.80	1.00	0.00	0.00	0.00	
5	0.00	2.70	91.00	98.60	307.40	148.20	78.00	5.80	1.00	0.00	0.00	0.00	
6	0.00	2.00	98.60	76.20	123.10	165.60	108.40	5.20	0.80	0.00	0.00	0.00	
7	0.00	1.60	78.00	60.50	89.10	131.30	91.00	4.60	0.60	0.00	0.00	0.00	
8	0.00	1.20	63.90	62.20	78.00	108.40	74.40	4.00	0.60	0.00	0.00	0.00	
9	0.00	3.00	67.40	55.50	145.40	120.40	60.50	3.80	0.60	0.00	0.00	0.00	
10	0.00	4.60	478.20	98.60	131.30	112.30	52.20	3.80	0.50	0.00	0.00	0.00	
11	0.00	22.30	159.80	108.40	102.50	388.00	91.00	3.50	0.50	0.00	0.00	0.00	
12	0.00	13.30	162.70	78.00	83.50	673.70	72.70	3.20	0.50	0.00	0.00	0.00	
13	0.00	87.20	179.80	81.70	168.60	339.00	91.00	3.20	0.50	0.00	0.00	0.00	
14	0.00	18.90	222.40	179.80	377.00	333.70	69.10	3.00	0.50	0.00	0.00	0.00	
15	0.00	52.20	112.30	261.50	159.80	162.70	92.90	3.00	0.50	0.00	0.00	0.00	
16	0.00	36.70	131.30	156.90	256.50	187.40	78.00	2.70	0.30	0.00	0.00	0.00	
17	0.00	17.20	261.50	162.70	614.60	286.70	62.20	2.70	0.30	0.00	0.00	0.00	
18	0.00	55.50	328.40	176.00	478.20	168.60	55.50	2.50	0.30	0.00	0.00	0.00	
19	0.00	25.80	123.10	256.50	339.00	128.60	49.00	2.50	0.30	0.00	0.00	0.00	
20	0.00	53.90	622.90	251.60	214.50	302.20	39.60	2.30	0.30	0.00	0.00	0.00	
21	0.00	24.90	159.80	230.40	131.30	139.70	33.70	2.30	0.20	0.20	0.00	0.00	
22	4.00	19.70	108.40	251.60	104.40	106.40	30.90	2.30	0.20	0.00	0.00	0.00	
23	1.80	15.60	74.40	128.60	76.20	104.40	29.50	2.00	0.20	0.00	0.00	0.00	
24	1.00	9.70	69.10	323.10	53.90	366.00	26.70	2.00	0.10	0.00	0.00	0.00	
25	0.50	9.70	53.90	125.80	47.40	142.50	49.00	1.80	0.10	0.00	0.00	0.00	
26	3.00	12.60	50.60	339.00	47.40	106.40	44.30	1.80	0.10	0.00	0.00	0.00	
27	2.30	6.40	2886.90	134.10	39.60	246.60	36.70	1.60	0.10	0.00	0.00	0.00	
28	1.00	23.10	261.50	136.90	55.50	478.20	29.50	1.40	0.10	0.00	0.00	0.00	
29	3.20	505.80	142.50	100.50	142.50	162.70	20.50	1.40	0.10	0.00	0.00	0.00	
30	3.50	151.10	4229.50	437.70	246.60	246.60	14.10	1.40	0.10	0.00		0.00	
31		62.20		168.60	168.60		9.70		0.10	0.00		0.00	
Total	20.30	1269.90	11726.80	5481.20	6730.40	6690.00	1984.20	102.00	13.90	0.20	0.00	0.00	34018.90
Mean	0.70	41.00	390.90	176.80	217.10	223.00	64.00	3.40	0.40	0.00	0.00	0.00	
Max	4.00	505.80	4229.50	437.70	1039.40	673.70	176.00	9.00	1.20	0.20	0.00	0.00	4229.50
Min	0.00	1.20	50.60	55.50	39.60	104.40	9.70	1.40	0.10	0.00	0.00	0.00	0.00

WATER YEAR : 2011**BANG PAKONG RIVER BASIN****Upper Khlong Ban Na at Ban Cha Om , Saraburi (Ny.6)**

Lat 14 - 24 - 34 N Long 101 - 07 - 30 E

Location : on left bank about 50 meters from the top staff gage.

	Ban Cha Om	Amphoe Kaeng Khoi	Changwat Saraburi
Drainage Area	126 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	1998-2011		
Number of observation	214		
R-Square	0.8150		
Remarks	Continued Sediment Station		

$$QS = 2.4347 QW^{1.16670}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	1.30	42.10	10.20	39.50	24.40	49.80	4.80	2.40	0.80	0.10	0.00		
2	0.00	4.50	30.00	7.40	45.90	32.40	39.50	4.80	2.40	0.80	0.10	0.00		
3	0.00	2.20	21.20	6.80	31.60	35.70	133.80	4.20	1.70	0.80	0.10	0.00		
4	0.00	1.90	12.30	8.10	30.00	43.40	85.40	4.20	1.70	0.80	0.10	0.00		
5	0.00	3.30	6.10	5.10	23.60	38.30	63.20	4.20	1.70	0.50	0.10	0.00		
6	0.00	2.20	5.50	4.20	18.20	37.00	82.60	4.20	1.30	0.50	0.10	0.00		
7	0.00	2.20	4.80	3.60	14.40	30.80	61.80	4.80	1.30	0.50	0.10	0.00		
8	0.00	1.90	4.50	4.50	11.60	32.40	48.50	4.80	1.30	0.50	0.10	0.00		
9	0.00	1.90	3.60	3.60	10.20	33.30	38.30	4.80	1.30	0.50	0.10	0.00		
10	0.00	1.60	12.30	3.00	11.60	785.90	35.70	4.80	1.30	0.50	0.10	0.00		
11	0.00	1.60	9.50	13.00	10.20	217.40	52.50	4.20	1.30	0.50	0.10	0.00		
12	0.00	1.60	9.50	7.40	10.20	366.30	60.50	4.20	1.10	0.50	0.10	0.00		
13	0.00	1.60	6.10	5.10	8.80	150.00	67.30	4.20	1.10	0.40	0.10	0.00		
14	0.00	1.60	5.50	4.50	16.70	131.80	48.50	4.20	1.10	0.40	0.10	0.00		
15	0.00	1.60	4.80	40.80	19.70	111.90	39.50	3.60	1.10	0.40	0.10	0.00		
16	0.00	1.60	5.50	20.50	21.20	82.60	34.10	3.60	1.10	0.40	0.10	0.00		
17	0.00	1.60	4.80	49.80	19.70	70.00	29.20	3.60	1.10	0.40	0.10	0.00		
18	0.00	2.20	8.10	28.40	52.50	102.60	25.20	3.00	1.10	0.30	0.10	0.00		
19	0.00	2.70	5.10	45.90	33.30	71.40	20.50	3.00	1.10	0.30	0.10	0.00		
20	0.00	2.40	12.30	59.10	37.00	119.80	18.90	3.00	0.80	0.30	0.10	0.00		
21	0.10	2.40	10.20	68.70	29.20	106.00	16.70	2.40	0.80	0.30	0.10	0.00		
22	0.10	2.40	8.80	65.90	21.20	79.80	14.40	2.40	0.80	0.30	0.10	0.00		
23	0.40	1.90	6.10	34.90	16.70	67.30	12.30	2.40	0.80	0.30	0.10	0.00		
24	0.40	1.90	4.80	47.20	13.70	174.90	12.30	2.40	0.80	0.30	0.10	0.00		
25	0.50	1.90	3.90	30.00	11.60	72.80	10.20	2.40	0.80	0.20	0.10	0.00		
26	0.50	1.60	5.10	37.00	10.20	70.00	8.80	2.40	0.80	0.20	0.10	0.00		
27	0.80	1.60	52.50	25.90	13.00	65.90	8.10	2.40	0.80	0.20	0.10	0.00		
28	0.80	1.30	27.50	17.40	15.20	61.80	8.10	2.40	0.80	0.20	0.10	0.00		
29	1.10	1.30	16.70	15.90	61.80	57.80	6.10	2.40	0.80	0.20	0.10	0.00		
30	1.10	28.40	13.70	19.70	42.10	53.80	5.50	2.40	0.80	0.20		0.00		
31		13.70		26.70	30.80		4.80		0.80	0.20		0.00		
Total	5.80	99.90	362.90	720.30	731.40	3327.50	1142.10	106.20	36.10	12.70	2.90	0.00	6547.80	Ton
Mean	0.20	3.20	12.10	23.20	23.60	110.90	36.80	3.50	1.20	0.40	0.10	0.00		
Max	1.10	28.40	52.50	68.70	61.80	785.90	133.80	4.80	2.40	0.80	0.10	0.00	785.90	
Min	0.00	1.30	3.60	3.00	8.80	24.40	4.80	2.40	0.80	0.20	0.10	0.00	0.00	

WATER YEAR : 2011**EAST COAST - GULF BASIN****Khlong Yai at Ban Si Bua Thong , Trat (Z.10)**

Lat 12 - 28 - 24 N Long 102 - 28 - 49 E

Location : on left bank at Ban Si Bua Thong

	Ban	Si Bua Thong	Amphoe	Khao Saming	Changwat	Trat
Drainage Area	779	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1978-Cont'd					
Actual Measurement	1978-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	46					
R-Square	0.7048					
Remarks	Continued Sediment Station					

$$QS = 0.3687 QW^{1.51370}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.90	48.20	58.00	571.30	1063.70	2033.00	526.00	59.50	7.80	2.60	0.80	10.30	
2	50.40	33.10	54.90	539.20	1562.40	1244.90	547.20	51.90	7.40	2.40	0.50	5.20	
3	54.90	31.80	50.40	388.60	1011.70	782.60	601.30	49.60	7.00	1.90	1.00	3.50	
4	75.00	20.60	57.20	400.50	579.40	643.00	615.10	48.90	7.00	2.10	4.90	2.80	
5	125.60	20.60	52.60	289.50	372.10	1086.30	645.80	46.00	7.00	1.90	6.30	2.60	
6	150.60	35.00	53.40	233.30	471.90	1501.10	1056.20	39.70	5.90	1.80	4.90	2.10	
7	137.90	26.90	58.70	199.40	429.50	815.90	975.00	35.70	8.20	1.70	3.20	3.70	
8	150.60	25.70	51.90	175.10	402.90	2083.00	1292.70	46.00	5.60	1.70	3.50	7.80	
9	143.00	54.10	50.40	688.50	308.40	3602.60	853.90	50.40	5.20	1.50	5.20	13.00	
10	144.20	73.30	46.70	773.60	735.00	3289.60	626.20	42.50	4.90	1.40	5.90	65.90	
11	178.30	66.70	43.90	515.60	1694.40	3755.00	568.60	36.30	4.00	1.40	8.60	28.10	
12	221.20	46.00	39.70	374.40	1101.50	6943.10	477.00	33.10	3.70	1.40	7.80	17.40	
13	104.50	46.70	52.60	598.50	568.60	7421.20	449.30	29.30	3.50	1.30	7.40	12.50	
14	153.20	44.60	94.40	645.80	390.90	5057.20	720.40	28.70	2.60	1.10	6.60	9.40	
15	134.20	43.90	201.00	850.40	574.00	3432.50	579.40	28.70	1.80	1.00	5.60	8.60	
16	110.20	34.40	1456.40	809.00	857.40	1989.50	386.20	28.70	3.00	0.90	4.90	8.20	
17	89.00	26.90	2756.40	541.90	1082.50	833.10	298.90	24.50	1.70	0.70	6.60	7.80	
18	81.00	393.30	4025.50	358.20	697.10	587.60	245.70	21.70	1.40	1.00	17.90	15.90	
19	72.50	178.30	3943.30	278.30	833.10	617.80	178.30	21.70	0.80	1.50	18.40	13.00	
20	72.50	104.50	3187.40	400.50	643.00	788.60	207.70	21.10	0.70	2.10	13.90	9.40	
21	125.60	75.90	2478.10	1162.80	454.30	1097.70	164.20	20.60	1.00	4.00	10.70	7.00	
22	149.40	57.20	1365.50	1097.70	351.30	1636.10	129.30	17.90	0.80	3.50	7.40	4.90	
23	223.00	58.00	740.90	651.40	291.30	1647.70	110.20	17.40	1.40	3.00	5.90	3.50	
24	316.10	64.30	376.80	1241.00	238.60	1885.30	96.60	16.90	3.00	5.60	5.90	4.00	
25	201.00	53.40	258.20	1037.60	282.00	1439.70	93.30	16.40	3.00	4.20	3.50	8.20	
26	304.60	61.10	249.20	761.60	280.10	1268.70	93.30	11.60	3.00	3.50	12.50	8.60	
27	287.60	51.10	634.50	631.80	466.80	1151.20	78.40	9.40	3.00	3.00	6.30	6.60	
28	51.90	50.40	1431.40	482.00	931.60	920.90	153.20	9.00	3.00	3.70	9.00	5.20	
29	41.10	51.10	1529.30	688.50	1618.80	826.20	91.10	8.60	1.90	4.50	5.20	5.20	
30	52.60	86.30	906.60	822.70	2818.80	735.00	65.90	8.20	1.80	3.00		4.20	
31		71.60		668.40	2359.10		62.70		1.80	3.00		1.10	
Total	4053.60	2035.00	26305.30	18877.10	25472.20	61116.10	12989.10	880.00	112.90	72.40	200.30	305.70	152419.70
Mean	135.10	65.60	876.80	608.90	821.70	2037.20	419.00	29.30	3.60	2.30	6.90	9.90	
Max	316.10	393.30	4025.50	1241.00	2818.80	7421.20	1292.70	59.50	8.20	5.60	18.40	65.90	7421.20
Min	41.10	20.60	39.70	175.10	238.60	587.60	62.70	8.20	0.70	0.70	0.50	1.10	0.50

WATER YEAR : 2011**EAST COAST - GULF BASIN****Chanthaburi River at Ban Puk , Chanthaburi (Z.13)**

Lat 12 - 45 - 38 N Long 102 - 08 - 33 E

Location : on left bank at Ban Puk

	Ban Puk	Amphoe Makham	Changwat Chanthaburi
Drainage Area	647 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1978-Cont'd		
Actual Measurement	1978-Cont'd		
Using Rating Curve Water Year	1978-2011		
Number of observation	327		
R-Square	0.7096		
Remarks	Continued Sediment Station		

$$QS = 0.8404 QW^{1.41940}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	46.10	48.50	616.40	841.40	563.40	576.50	0.00	1.10	0.00	0.00	0.00	
2	0.00	37.00	71.10	464.20	1235.50	418.70	650.10	0.00	7.80	0.00	0.00	0.00	
3	0.00	28.60	37.00	691.40	1914.50	407.50	550.40	0.00	6.40	0.00	0.00	0.00	
4	0.00	24.60	39.20	776.10	892.40	452.70	589.70	0.00	6.40	0.00	0.00	0.00	
5	1.10	19.00	39.20	385.40	429.90	537.50	797.70	0.00	5.20	0.00	0.00	0.00	
6	1.10	28.60	37.00	272.90	287.50	385.40	872.80	0.00	5.20	0.00	0.00	0.00	
7	1.10	37.00	37.00	210.60	407.50	316.00	603.00	0.00	6.40	0.00	0.00	0.00	
8	1.10	65.90	39.20	175.00	487.50	335.40	524.70	0.00	6.40	0.00	0.00	0.00	
9	4.00	123.30	53.30	180.80	670.70	464.20	537.50	0.00	5.20	0.00	0.00	0.00	
10	2.90	119.20	63.30	157.90	861.70	670.70	629.80	0.00	4.00	0.00	0.00	0.00	
11	2.90	91.40	58.20	136.00	895.20	983.50	511.90	0.00	5.20	0.00	0.00	15.50	
12	2.90	73.80	24.60	144.60	963.30	2886.20	563.40	0.00	4.00	0.00	0.00	12.20	
13	4.00	60.70	34.90	237.40	900.80	4505.80	797.70	0.00	4.00	0.00	0.00	6.40	
14	5.20	63.30	53.30	210.60	854.30	1504.80	846.90	0.00	4.00	0.00	0.00	4.00	
15	2.90	60.70	48.50	265.60	909.30	863.60	691.40	0.00	2.90	0.00	0.00	0.40	
16	1.90	53.30	63.30	375.30	2485.00	754.60	872.80	0.00	2.90	0.00	0.00	0.00	
17	1.10	43.80	73.80	265.60	2862.40	511.90	983.50	0.00	2.90	0.00	0.00	1.90	
18	1.10	111.00	91.40	210.60	986.30	407.50	691.40	0.00	1.90	0.00	0.00	1.10	
19	0.00	87.60	131.70	180.80	854.30	429.90	418.70	0.00	1.10	0.00	0.00	1.10	
20	0.40	71.10	296.90	280.10	712.30	912.10	325.60	0.00	0.40	0.00	0.00	1.10	
21	1.90	65.90	163.60	914.90	487.50	1097.90	272.90	0.00	0.00	0.00	0.00	0.00	
22	6.40	63.30	210.60	949.00	355.20	983.50	237.40	0.00	0.00	0.00	0.00	0.00	
23	5.20	60.70	223.60	819.50	345.20	909.30	223.60	0.00	0.00	0.00	0.00	0.00	
24	6.40	60.70	895.20	670.70	296.90	1078.10	180.80	0.00	0.00	0.00	0.00	0.00	
25	10.70	55.70	881.20	499.30	316.00	1557.50	157.90	0.00	0.00	0.00	0.00	0.00	
26	19.00	58.20	335.40	452.70	335.40	1522.30	140.30	0.00	0.00	0.00	0.00	0.40	
27	39.20	50.80	216.80	576.50	499.30	1007.60	127.50	0.00	0.00	0.00	0.00	1.10	
28	26.60	26.60	251.40	345.20	407.50	963.30	119.20	0.00	0.00	0.00	0.00	0.00	
29	28.60	46.10	306.40	365.20	1019.20	848.80	127.50	0.00	0.00	0.00	0.00	0.00	
30	32.70	58.20	204.60	375.30	1058.40	859.90	107.00	0.00	0.00	0.00		0.00	
31		58.20		280.10	850.60		91.40		0.00	0.00		0.00	
Total	210.40	1850.40	5030.20	12485.70	26423.00	29139.60	14821.00	0.00	83.40	0.00	0.00	45.20	90088.90
Mean	7.00	59.70	167.70	402.80	852.40	971.30	478.10	0.00	2.70	0.00	0.00	1.50	
Max	39.20	123.30	895.20	949.00	2862.40	4505.80	983.50	0.00	7.80	0.00	0.00	15.50	4505.80
Min	0.00	19.00	24.60	136.00	287.50	316.00	91.40	0.00	0.00	0.00	0.00	0.00	0.00

WATER YEAR : 2011**EAST COAST - GULF BASIN****Khlong Phayat at Ban Chaman , Chanthaburi (Z.14)**

Lat 12 - 44 - 34 N Long 102 - 12 - 35 E

Location : on left bank at the bridge of Khlong Prayat near Wat Chaman.

	Ban Chaman	Amphoe Makham	Changwat Chanthaburi
Drainage Area	229 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1978-Cont'd		
Actual Measurement	1978-Cont'd		
Using Rating Curve Water Year	1994-2011		
Number of observation	312		
R-Square	0.7866		
Remarks	Continued Sediment Station		

$$QS = 1.0227 QW^{1.44200}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.20	3.60	7.70	111.60	935.80	224.90	194.70	36.10	7.70	3.60	3.00	1.00	
2	3.40	4.70	11.20	97.00	825.70	251.50	235.70	34.20	8.50	3.80	2.40	1.30	
3	3.20	3.80	20.90	103.00	345.90	197.70	181.60	32.30	8.10	2.60	2.40	1.00	
4	2.60	4.10	20.30	94.60	194.70	199.20	203.60	30.40	8.10	2.40	2.20	1.80	
5	3.20	3.40	15.00	63.70	142.60	352.50	238.90	27.90	7.70	2.80	1.80	1.50	
6	3.00	3.80	12.10	53.00	107.90	248.40	229.50	27.90	7.30	2.60	1.80	1.50	
7	2.40	1.70	12.10	45.00	98.20	193.30	203.60	26.10	6.90	3.60	1.70	1.20	
8	2.60	1.20	13.50	40.20	117.90	402.20	215.70	24.90	6.90	4.70	1.70	1.30	
9	2.40	1.50	14.50	56.00	140.00	463.30	160.40	26.70	6.90	2.60	1.80	3.00	
10	2.60	1.50	16.60	60.60	160.40	502.30	339.30	23.70	6.50	2.00	1.80	7.30	
11	2.80	1.30	12.60	40.90	194.70	812.70	193.30	22.60	5.70	2.00	0.70	12.10	
12	2.40	2.40	31.00	67.60	191.80	1814.30	160.40	20.30	5.30	2.00	0.70	6.10	
13	2.60	2.60	121.70	83.30	134.70	1100.40	377.10	19.80	5.30	2.00	0.90	3.80	
14	2.60	3.20	98.20	97.00	129.40	659.20	245.20	18.70	5.30	2.20	1.00	3.00	
15	3.20	2.80	68.40	128.10	224.90	368.10	168.80	16.10	5.00	1.80	0.90	2.20	
16	3.00	3.20	80.80	154.80	716.10	279.90	235.70	14.50	5.00	2.20	1.00	1.70	
17	3.60	3.20	284.00	85.00	580.40	229.50	217.20	14.00	5.00	1.50	0.70	2.00	
18	3.60	5.00	451.40	63.70	267.60	184.50	262.80	15.00	4.70	3.20	1.80	1.70	
19	3.80	8.90	235.70	55.20	209.60	275.80	129.40	14.50	4.70	3.80	2.40	2.00	
20	3.20	5.30	275.80	218.80	167.40	473.00	119.10	14.00	4.70	3.40	1.80	1.80	
21	2.80	5.30	180.20	795.70	132.00	468.10	85.90	13.10	5.00	3.20	1.70	1.30	
22	2.80	5.00	209.60	425.40	98.20	468.10	75.00	13.50	5.30	3.40	1.70	1.70	
23	3.00	5.30	173.00	208.10	78.30	381.60	69.20	12.10	5.00	3.60	1.20	1.50	
24	3.20	24.90	78.30	292.30	73.30	470.60	66.00	11.20	5.00	4.30	1.20	1.20	
25	3.80	27.30	57.50	175.90	69.20	409.10	59.00	10.70	4.70	3.80	1.20	15.50	
26	4.30	47.90	51.50	275.80	66.80	390.70	55.20	10.30	4.50	4.50	1.20	6.90	
27	3.20	39.50	497.30	253.10	70.90	302.80	46.40	9.80	4.30	3.60	1.20	3.60	
28	3.20	53.00	1183.80	145.30	173.00	275.80	47.20	8.90	4.30	3.40	1.20	3.00	
29	3.20	55.20	326.30	361.40	977.10	242.00	52.20	8.90	4.50	2.60	0.90	3.00	
30	3.60	29.10	164.50	437.10	623.30	284.00	42.20	8.10	4.30	3.20		1.70	
31		21.40		223.30	256.30		37.50		4.30	3.60		1.00	
Total	92.50	381.10	4725.50	5312.50	8504.10	12925.50	4947.80	566.30	176.50	94.00	44.00	97.70	37867.50
Mean	3.10	12.30	157.50	171.40	274.30	430.80	159.60	18.90	5.70	3.00	1.50	3.20	
Max	4.30	55.20	1183.80	795.70	977.10	1814.30	377.10	36.10	8.50	4.70	3.00	15.50	1814.30
Min	2.40	1.20	7.70	40.20	66.80	184.50	37.50	8.10	4.30	1.50	0.70	1.00	0.70

WATER YEAR : 2011**EAST COAST - GULF BASIN****Khlong Aeng at Ban Nong Bon , Trat (Z.45)**

Lat 12 - 36 - 58 N Long 102 - 28 - 42 E

Location : on right bank near the highway bridge, Tambon Nong Bon.

	Ban	Nong Bon	Amphoe	Bo Rai	Changwat	Trat
Drainage Area	58	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2005-Cont'd					
Actual Measurement	2005-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	27					
R-Square	0.8754					
Remarks	Continued Sediment Station					

$$QS = 2.7465 QW^{1.81880}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	2.30	1.40	218.80	667.70	304.00	40.70	17.90	12.50	0.00	0.00	0.00	
2	0.00	1.10	1.80	149.40	500.70	287.60	59.00	16.70	10.60	0.00	0.00	0.00	
3	0.00	0.50	4.40	123.30	263.70	233.30	163.30	15.60	8.80	0.00	0.00	0.00	
4	0.00	0.50	8.00	99.60	187.60	609.70	140.50	14.50	4.40	0.00	0.00	0.00	
5	0.00	1.80	2.70	68.20	144.90	511.20	85.00	12.50	5.70	0.00	0.00	0.00	
6	0.00	0.80	2.30	53.20	158.60	667.70	172.80	11.50	6.50	0.00	0.00	0.00	
7	0.00	0.80	8.80	45.00	211.70	470.00	103.40	11.50	7.20	0.00	0.00	0.00	
8	0.00	5.10	6.50	39.00	168.00	790.90	103.40	21.50	8.00	0.00	0.00	0.10	
9	0.00	15.60	7.20	65.10	127.50	312.30	68.20	12.50	3.80	0.00	0.00	0.00	
10	0.00	26.80	8.80	47.60	218.80	740.50	53.20	9.70	5.70	0.00	0.00	0.50	
11	0.00	12.50	5.70	37.40	154.00	3367.30	88.50	8.80	6.50	0.00	0.00	0.00	
12	0.00	8.00	5.70	78.10	111.20	1083.40	115.20	8.00	8.00	0.00	0.00	0.00	
13	0.00	8.00	34.20	158.60	144.90	1294.50	115.20	7.20	4.40	0.00	0.00	0.00	
14	0.00	5.70	68.20	192.60	177.70	679.60	127.50	6.50	3.80	0.00	0.00	0.00	
15	0.00	3.30	50.40	279.50	149.40	420.60	95.80	5.70	3.80	0.00	0.00	0.00	
16	0.00	2.30	255.90	172.80	182.60	271.50	88.50	5.10	4.40	0.00	0.00	0.00	
17	0.00	1.80	1083.40	131.80	144.90	211.70	78.10	4.40	4.40	0.00	0.00	0.00	
18	0.00	88.50	1196.40	88.50	329.40	172.80	59.00	3.80	2.30	0.00	0.10	0.00	
19	0.00	0.00	829.70	71.50	655.90	411.00	47.60	6.50	2.70	0.00	0.00	0.00	
20	0.00	0.00	263.70	95.80	177.70	248.30	85.00	3.80	4.40	0.40	0.00	0.00	
21	0.00	0.00	192.60	218.80	144.90	218.80	42.30	4.40	3.30	0.10	0.00	0.00	
22	0.00	0.00	115.20	192.60	119.20	703.70	37.40	7.20	2.30	0.10	0.00	0.00	
23	0.50	0.40	115.20	204.70	85.00	940.60	34.20	8.00	0.00	0.00	0.00	0.00	
24	0.10	92.10	78.10	312.30	127.50	803.70	31.10	5.10	0.00	1.80	0.00	0.00	
25	0.00	95.80	42.30	177.70	88.50	140.50	32.60	4.40	0.00	0.00	0.00	0.00	
26	3.80	85.00	71.50	154.00	168.00	74.70	28.20	5.70	0.00	0.00	0.20	0.00	
27	7.20	56.10	3114.00	204.70	233.30	204.70	25.40	4.40	0.00	0.00	0.00	0.00	
28	2.30	5.10	1812.70	149.40	263.70	192.60	32.60	5.70	0.00	0.00	0.00	0.00	
29	17.90	5.10	958.00	240.80	1046.90	65.10	24.10	11.50	0.00	0.00	0.00	0.00	
30	13.50	5.10	329.40	204.70	543.20	99.60	21.50	1.10	0.00	0.00		0.00	
31		2.30		177.70	295.70		20.30		0.00	0.00		0.00	
Total	45.30	532.40	10674.20	4453.20	7992.80	16531.90	2219.60	261.20	123.50	2.40	0.30	0.60	42837.40
Mean	1.50	17.20	355.80	143.70	257.80	551.10	71.60	8.70	4.00	0.10	0.00	0.00	
Max	17.90	95.80	3114.00	312.30	1046.90	3367.30	172.80	21.50	12.50	1.80	0.20	0.50	3367.30
Min	0.00	0.00	1.40	37.40	85.00	65.10	20.30	1.10	0.00	0.00	0.00	0.00	0.00

WATER YEAR : 2011**PHETCHABURI RIVER BASIN****Phetchaburi River at Ban Song Phi Nong , Phetchaburi (B.3A)**

Lat 12 - 51 - 47 N Long 99 - 40 - 42 E

Location : on left bank at Ban Song Phi Nong.

	Ban	Song Phi Nong	Amphoe	Kaeng Krachan	Changwat	Phetchaburi
Drainage Area	2,220	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1997-Cont'd					
Actual Measurement	1997-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	24					
R-Square	0.9172					
Remarks	Continued Sediment Station					

$$QS = 0.5123 QW^{1.33910}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.00	9.70	6.20	30.90	138.60	30.20	157.90	54.90	36.60	64.30	89.30	96.50	
2	81.20	14.40	5.80	24.30	209.70	30.20	74.60	54.90	29.50	67.40	90.50	96.50	
3	119.10	36.60	2.70	24.90	206.20	28.20	73.50	54.90	23.70	84.60	90.50	96.50	
4	24.90	42.80	2.50	24.30	225.40	27.50	72.50	54.90	23.00	72.50	89.30	96.50	
5	14.40	8.00	3.00	24.90	246.80	72.50	73.50	55.80	23.00	52.20	89.30	90.50	
6	12.40	5.80	2.20	24.90	243.20	162.70	74.60	55.80	23.00	53.10	90.50	80.10	
7	12.40	5.40	2.50	24.90	180.80	56.70	76.80	63.30	21.80	53.10	90.50	79.00	
8	12.40	5.40	4.80	25.60	85.70	54.90	80.10	137.20	21.80	53.10	90.50	80.10	
9	83.40	10.60	5.80	27.50	83.40	51.30	74.60	140.00	21.20	53.10	90.50	72.50	
10	116.40	14.90	5.80	26.20	82.30	52.20	74.60	88.10	21.80	54.90	91.70	79.00	
11	86.90	12.90	5.40	20.50	82.30	53.10	73.50	59.50	16.50	56.70	91.70	82.30	
12	63.30	12.90	6.90	27.50	73.50	52.20	73.50	59.50	12.90	60.50	91.70	89.30	
13	64.30	16.50	6.50	32.30	73.50	54.00	54.00	62.40	12.90	60.50	91.70	88.10	
14	63.30	21.20	6.50	33.00	72.50	52.20	73.50	84.60	17.00	61.40	91.70	88.10	
15	34.40	20.50	5.80	56.70	73.50	53.10	41.20	85.70	23.00	61.40	91.70	88.10	
16	23.00	20.50	7.30	59.50	69.40	53.10	8.40	86.90	20.50	62.40	90.50	90.50	
17	7.60	13.40	1.50	58.60	66.30	60.50	7.30	86.90	20.50	62.40	69.40	92.90	
18	5.80	11.90	7.60	56.70	59.50	68.40	6.50	91.70	19.90	62.40	69.40	94.10	
19	5.80	6.90	5.10	58.60	58.60	68.40	5.10	74.60	19.90	63.30	70.40	89.30	
20	5.80	6.20	1.10	50.40	58.60	81.20	5.10	70.40	19.30	64.30	70.40	81.20	
21	5.40	5.80	3.80	37.30	57.70	79.00	5.40	61.40	19.90	64.30	72.50	82.30	
22	5.40	5.40	13.90	30.20	59.50	83.40	5.40	59.50	23.70	59.50	77.90	81.20	
23	11.00	5.40	16.00	30.20	61.40	85.70	5.40	58.60	19.30	53.10	77.90	82.30	
24	11.50	5.40	28.90	29.50	61.40	112.30	5.40	60.50	21.20	54.00	79.00	73.50	
25	12.40	5.40	41.20	29.50	62.40	84.60	5.10	60.50	19.90	54.00	94.10	82.30	
26	43.60	6.50	51.30	29.50	65.30	134.30	11.00	58.60	17.00	55.80	95.30	82.30	
27	2.20	6.90	52.20	32.30	65.30	260.00	48.70	54.00	18.10	58.60	96.50	82.30	
28	4.40	5.80	50.40	69.40	57.70	254.00	54.90	50.40	17.00	58.60	96.50	84.60	
29	5.40	5.40	49.60	67.40	47.00	248.60	54.90	36.60	16.50	58.60	96.50	83.40	
30	11.50	5.80	48.70	70.40	49.60	239.60	54.90	36.60	19.30	59.50		83.40	
31		6.90		69.40	46.10		54.90		28.20	66.30		83.40	
Total	1003.60	361.20	451.00	1207.30	3023.20	2744.10	1486.80	2058.70	647.90	1865.90	2517.40	2652.10	20019.20
Mean	33.50	11.70	15.00	38.90	97.50	91.50	48.00	68.60	20.90	60.20	86.80	85.60	
Max	119.10	42.80	52.20	70.40	246.80	260.00	157.90	140.00	36.60	84.60	96.50	96.50	260.00
Min	2.20	5.40	1.10	20.50	46.10	27.50	5.10	36.60	12.90	52.20	69.40	72.50	1.10

WATER YEAR : 2011**PHETCHABURI RIVER BASIN****Phetchaburi River at Ban Sarahed , Phetchaburi (B.9)**

Lat 12 - 48 - 18 N Long 99 - 46 - 27 E

Location : on left bank at Ban Sarahed.

	Ban	Sarahed	Amphoe	Tha Yang	Changwat	Phetchaburi
Drainage Area	2,617	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2008-Cont'd					
Actual Measurement	2008-Cont'd					
Using Rating Curve Water Year	2008-2011					
Number of observation	79					
R-Square	0.7353					
Remarks	Continued Sediment Station					

$$QS = 4.1326 QW^{0.85840}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.80	33.40	34.00	63.80	127.90	70.10	203.00	87.90	70.90	97.40	117.10	129.90	
2	21.40	36.60	28.50	51.10	200.80	67.70	108.90	88.70	70.10	100.90	118.00	130.90	
3	46.60	86.10	24.10	49.60	199.70	67.70	102.70	88.70	55.60	114.30	121.80	130.90	
4	22.50	91.30	18.70	48.10	203.00	67.70	100.90	87.90	54.10	115.30	119.90	132.90	
5	12.30	55.60	19.80	48.80	228.50	81.20	101.80	88.70	54.10	90.40	120.80	129.90	
6	12.30	41.90	19.20	48.80	227.40	182.70	102.70	87.90	53.30	89.60	120.80	118.00	
7	12.30	32.80	17.00	47.30	219.70	97.40	103.60	88.70	53.30	90.40	121.80	117.10	
8	17.60	32.20	19.20	47.30	120.80	87.00	119.90	144.80	53.30	89.60	121.80	118.00	
9	45.90	32.80	25.20	47.30	111.60	81.20	108.00	157.50	51.80	89.60	121.80	116.20	
10	100.90	51.80	25.70	46.60	109.80	79.50	104.50	137.90	53.30	90.40	122.80	117.10	
11	99.10	45.20	25.20	45.90	109.80	83.60	105.30	98.30	49.60	92.10	121.80	119.90	
12	90.40	46.60	25.70	56.30	103.60	84.50	104.50	95.60	39.80	96.50	123.80	130.90	
13	91.30	45.20	27.90	61.40	104.50	82.80	102.70	95.60	38.50	98.30	123.80	135.90	
14	91.30	55.60	26.70	60.70	105.30	82.00	102.70	112.50	38.50	98.30	123.80	135.90	
15	70.10	56.30	26.70	79.50	108.00	81.20	93.80	117.10	57.00	98.30	123.80	136.90	
16	51.10	56.30	27.90	81.20	103.60	82.00	45.90	118.90	52.60	98.30	124.80	137.90	
17	37.30	53.30	28.50	81.20	100.00	84.50	32.80	118.90	54.10	98.30	110.70	137.90	
18	24.10	40.50	19.80	80.30	93.00	94.70	29.70	122.80	54.10	99.10	105.30	140.80	
19	22.50	29.10	26.20	81.20	90.40	94.70	25.20	113.40	53.30	100.00	106.20	137.90	
20	22.50	31.00	25.20	71.60	89.60	98.30	22.50	108.00	53.30	100.90	106.20	125.80	
21	22.00	26.70	17.60	80.30	89.60	97.40	25.70	99.10	53.30	101.80	106.20	123.80	
22	22.00	25.70	22.00	81.20	89.60	98.30	25.20	96.50	58.50	100.00	112.50	123.80	
23	27.90	25.70	26.70	63.80	88.70	98.30	24.10	93.00	54.10	90.40	113.40	123.80	
24	32.20	25.20	45.90	61.40	88.70	107.10	24.10	94.70	55.60	90.40	112.50	117.10	
25	26.20	25.20	69.30	62.20	88.70	83.60	23.60	95.60	55.60	90.40	122.80	124.80	
26	73.20	25.70	82.00	61.40	89.60	112.50	21.40	94.70	51.10	91.30	127.90	125.80	
27	32.80	33.40	83.60	60.70	91.30	231.80	70.10	90.40	51.80	91.30	128.90	126.90	
28	15.40	26.70	83.60	99.10	89.60	232.90	87.90	86.10	51.10	91.30	129.90	125.80	
29	22.00	26.20	82.80	99.10	82.00	232.90	88.70	67.00	49.60	92.10	129.90	128.90	
30	27.90	27.20	83.60	103.60	79.50	225.20	90.40	70.90	51.10	93.00		127.90	
31		32.20		103.60	79.50		89.60		51.10	93.80		128.90	
Total	1212.90	1253.50	1088.30	2074.40	3713.80	3270.50	2391.90	3047.80	1643.50	2973.80	3460.80	3958.20	30089.40
Mean	40.40	40.40	36.30	66.90	119.80	109.00	77.20	101.60	53.00	95.90	119.30	127.70	
Max	100.90	91.30	83.60	103.60	228.50	232.90	203.00	157.50	70.90	115.30	129.90	140.80	232.90
Min	12.30	25.20	17.00	45.90	79.50	67.70	21.40	67.00	38.50	89.60	105.30	116.20	12.30

WATER YEAR : 2011**PHETCHABURI RIVER BASIN****Phetchaburi River at Ban Tha Yang , Phetchaburi (B.10)**

Lat 12 - 58 - 21 N Long 99 - 53 - 07 E

Location : on left bank at the bridge of Ban Tha Yang.

	Ban	Tha Yang	Amphoe	Tha Yang	Changwat	Phetchaburi
Drainage Area	4,076	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1997-Cont'd					
Actual Measurement	1997-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	22					
R-Square	0.8129					
Remarks	Continued Sediment Station					

$$QS = 0.9424 QW^{1.37600}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.80	21.60	46.30	38.20	34.00	42.50	341.10	10.70	9.70	10.70	21.60	22.00	
2	22.40	22.00	48.20	28.30	37.60	29.80	274.60	8.20	9.40	11.00	21.60	22.40	
3	22.40	21.60	35.20	17.40	130.30	19.70	72.20	7.00	9.40	11.00	20.80	22.40	
4	22.80	24.90	26.50	15.20	217.90	15.90	26.50	6.10	8.40	13.80	23.60	23.60	
5	23.20	50.80	24.00	14.80	234.10	15.20	20.80	5.20	8.40	21.20	24.90	25.70	
6	22.80	52.10	24.50	15.20	258.20	21.20	20.50	5.20	8.40	16.60	24.00	29.30	
7	22.40	35.80	31.80	15.20	296.80	120.90	27.80	8.40	8.40	12.00	23.60	28.80	
8	22.00	27.40	41.20	15.20	285.60	56.80	62.20	8.60	8.20	11.00	23.20	27.00	
9	21.60	25.70	51.40	13.80	174.00	28.80	140.00	31.30	8.40	11.00	20.80	26.50	
10	21.60	23.60	52.10	13.10	51.40	20.50	130.30	60.60	8.60	11.00	18.90	26.50	
11	27.00	20.50	38.20	13.10	34.60	15.90	79.90	47.50	9.10	11.40	18.50	25.30	
12	29.30	19.30	31.30	13.10	30.80	19.70	72.20	10.70	12.70	11.40	18.90	24.00	
13	30.80	19.70	29.80	13.40	28.30	29.30	73.00	7.90	14.10	11.70	21.20	23.20	
14	30.30	19.30	32.80	13.40	29.80	29.30	79.90	7.70	13.10	11.70	28.30	22.80	
15	28.30	18.90	38.20	13.40	35.80	27.00	120.90	7.70	13.10	11.70	31.30	23.20	
16	24.90	19.30	40.00	13.80	46.30	28.80	232.50	8.60	16.60	12.00	40.00	23.60	
17	22.00	20.10	40.00	14.10	56.10	26.50	276.40	14.10	14.50	12.40	34.00	24.90	
18	21.20	27.40	43.10	14.10	63.00	25.30	185.20	17.00	11.70	12.70	27.00	29.80	
19	20.80	43.10	41.80	14.10	68.80	27.80	70.50	18.90	10.40	12.70	26.10	34.60	
20	20.80	50.10	41.80	18.90	72.20	26.50	46.30	17.00	10.40	13.10	29.80	34.00	
21	20.10	46.30	31.30	28.80	65.50	24.90	27.00	13.40	9.40	13.80	22.40	30.30	
22	19.70	38.20	23.60	35.20	61.40	27.40	23.20	11.70	10.40	18.90	20.10	26.10	
23	19.30	28.80	21.20	29.80	54.10	27.80	20.10	12.00	10.70	24.90	20.10	24.50	
24	20.10	22.80	17.00	20.80	30.30	25.70	15.50	11.40	10.70	23.20	20.10	24.00	
25	21.20	20.80	14.10	17.40	22.00	26.10	11.40	11.00	10.40	18.50	20.50	24.90	
26	19.70	20.80	14.10	16.60	24.50	31.30	7.90	11.40	10.70	15.90	20.80	25.30	
27	21.60	22.80	14.80	15.50	27.40	47.50	5.70	13.10	10.70	15.50	21.20	26.10	
28	27.00	27.40	16.30	16.30	32.80	194.10	5.90	13.10	10.40	15.90	21.60	27.00	
29	22.00	30.80	24.50	16.60	63.00	300.60	8.90	13.10	10.40	15.90	21.60	28.80	
30	21.20	32.30	32.80	20.50	86.30	345.30	13.10	10.40	10.40	16.60		32.30	
31		33.40		30.80	76.40		12.70		10.70	17.40		34.00	
Total	691.30	887.60	967.90	576.10	2729.30	1678.10	2504.20	429.00	327.90	446.60	686.50	822.90	12747.40
Mean	23.00	28.60	32.30	18.60	88.00	55.90	80.80	14.30	10.60	14.40	23.70	26.50	
Max	30.80	52.10	52.10	38.20	296.80	345.30	341.10	60.60	16.60	24.90	40.00	34.60	345.30
Min	19.30	18.90	14.10	13.10	22.00	15.20	5.70	5.20	8.20	10.70	18.50	22.00	5.20

WATER YEAR : 2011**WEST COAST - GULF BASIN****Khlong Thap Sakae at Ban Klang , Prachuap Khiri Khan (Gt.9)**

Lat 11 - 29 - 40 N Long 99 - 36 - 20 E

Location : on right bank at Ban Klang.

	Ban	Klang	Amphoe	Thap Sakae	Changwat	Prachuap Khiri Khan
Drainage Area	125	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1998-Cont'd					
Actual Measurement	1998-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	21					
R-Square	0.8756					
Remarks	Continued Sediment Station					

$$QS = 4.7085 QW^{1.22010}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.00	0.00	0.30	0.20	35.90	0.60	1.60	3.30	1.10	0.10	1.40	0.10	
2	0.00	0.00	0.10	14.00	27.20	0.60	1.10	2.40	1.00	0.10	13.50	0.10	
3	0.00	0.00	0.10	28.40	15.30	1.90	0.60	1.70	1.00	0.50	4.40	0.10	
4	0.00	0.00	0.10	14.10	14.10	2.70	0.40	1.40	0.60	0.40	3.80	0.10	
5	0.00	0.00	0.10	4.70	13.30	1.90	0.50	1.20	0.50	0.20	1.90	0.10	
6	0.00	0.00	0.00	21.10	12.70	1.60	0.40	1.20	0.40	0.20	1.20	0.10	
7	0.00	0.00	0.00	14.80	4.10	1.40	1.00	1.10	0.40	0.20	0.80	0.10	
8	0.00	0.00	0.00	13.60	4.10	1.20	0.70	0.80	5.00	0.10	0.50	0.10	
9	0.00	0.00	0.00	5.00	3.50	1.20	0.70	0.70	35.90	0.10	0.40	0.10	
10	0.00	0.00	0.00	3.80	2.70	1.00	1.40	0.70	15.50	0.10	0.30	0.10	
11	0.00	0.00	0.00	3.30	2.70	1.00	2.20	0.70	13.00	0.10	0.20	0.80	
12	0.00	0.00	0.10	2.20	3.00	1.40	3.00	0.80	3.80	0.10	0.20	4.40	
13	0.00	0.00	0.00	2.20	2.70	1.50	4.40	14.80	2.40	0.10	0.20	1.50	
14	0.00	0.00	0.00	2.00	3.50	1.50	4.10	15.80	1.60	0.10	0.20	1.10	
15	0.00	0.00	0.00	1.90	3.30	1.20	4.10	13.10	1.50	0.10	0.20	0.50	
16	0.00	0.00	0.10	1.70	3.30	1.20	3.30	2.70	1.40	0.10	0.20	0.40	
17	0.00	0.00	0.10	1.60	3.00	1.90	3.30	2.70	1.10	0.10	0.20	0.20	
18	0.00	0.00	1.20	1.40	2.40	1.70	2.70	2.00	0.80	0.10	0.20	0.60	
19	0.00	0.00	3.80	1.10	2.00	1.60	3.00	1.60	0.70	0.10	0.40	0.30	
20	0.00	0.00	2.00	1.10	1.70	1.20	2.70	1.10	0.60	0.20	0.20	0.10	
21	0.00	0.00	1.40	1.00	1.90	1.40	2.40	0.80	0.50	0.20	0.20	0.10	
22	0.00	0.00	0.80	1.50	1.90	1.70	2.40	0.70	0.50	0.10	0.20	0.10	
23	0.00	0.00	0.40	2.20	1.50	2.40	2.40	0.60	0.50	0.10	0.20	0.10	
24	0.00	0.00	0.20	4.10	1.10	4.10	2.40	0.50	0.40	0.10	0.10	0.10	
25	0.00	0.00	0.20	13.00	0.80	3.50	1.50	0.60	0.20	0.10	0.10	0.10	
26	0.00	0.00	0.10	13.30	0.50	3.00	1.10	0.60	0.20	0.10	0.10	0.10	
27	0.00	0.00	0.20	12.80	0.50	2.40	3.80	1.20	0.30	0.10	0.10	0.10	
28	0.00	0.00	0.10	4.40	0.50	2.00	15.50	1.40	0.20	0.10	0.10	0.10	
29	0.00	0.10	0.10	3.30	0.60	1.90	14.00	1.50	0.10	0.10	0.10	0.10	
30	0.00	0.20	0.00	13.00	0.50	4.10	12.80	1.60	0.10	0.20		0.10	
31		1.90		15.50	0.60		4.10		0.10	1.40		0.10	
Total	0.00	2.20	11.50	222.30	170.90	54.80	103.60	79.30	91.40	5.70	31.60	12.00	785.30
Mean	0.00	0.10	0.40	7.20	5.50	1.80	3.30	2.60	2.90	0.20	1.10	0.40	
Max	0.00	1.90	3.80	28.40	35.90	4.10	15.50	15.80	35.90	1.40	13.50	4.40	35.90
Min	0.00	0.00	0.00	0.20	0.50	0.60	0.40	0.50	0.10	0.10	0.10	0.10	0.00

WATER YEAR : 2011**WEST COAST - GULF BASIN****Khlong Krut at Ban Nong Ya Plong , Prachuap Khiri Khan (Gt.10)**

Lat 11 - 24 - 08 N Long 99 - 31 - 18 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 379.

	Ban	Nong Ya Plong	Amphoe	Bang Saphan	Changwat	Prachuap Khiri Khan
Drainage Area	113	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1998-Cont'd					
Actual Measurement	1998-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	21					
R-Square	0.8257					
Remarks	Continued Sediment Station					

$$QS = 1.8921 QW^{1.21260}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	0.10	0.10	1.40	24.50	1.30	1.50	1.60	0.20	0.10	0.80	0.10		
2	0.20	0.20	0.10	2.30	12.50	1.40	2.10	1.20	0.20	0.10	0.70	0.10		
3	0.20	0.20	0.10	10.80	9.60	1.00	1.60	1.10	0.20	0.10	0.60	0.10		
4	0.20	0.10	0.10	9.90	6.70	0.70	1.50	1.00	0.20	0.30	0.60	0.10		
5	0.20	0.10	0.10	11.10	6.90	1.00	1.40	0.90	0.10	0.30	0.50	0.10		
6	0.10	0.10	0.10	18.00	5.20	1.30	1.20	0.70	0.10	0.30	0.40	0.10		
7	0.10	0.10	0.10	9.60	3.70	1.40	1.20	0.60	0.10	0.30	0.30	0.10		
8	0.10	0.10	0.10	7.70	2.10	0.90	6.90	0.50	0.30	0.30	0.20	0.10		
9	0.10	0.10	0.10	6.70	1.60	1.10	7.90	0.50	20.50	0.20	0.10	0.10		
10	0.10	0.20	0.10	6.10	2.60	1.00	4.70	0.40	2.80	0.20	0.10	0.10		
11	0.10	0.20	0.10	5.40	4.30	0.90	3.80	0.40	2.30	0.10	0.10	0.10		
12	0.10	0.30	0.10	3.80	5.90	0.20	4.80	0.40	1.50	0.10	0.10	0.10		
13	0.10	0.30	0.10	1.80	4.00	0.20	8.70	0.70	0.80	0.10	0.10	0.10		
14	0.10	0.30	0.10	1.60	2.00	0.40	3.50	5.20	0.40	0.10	0.10	0.10		
15	0.10	0.20	0.10	1.50	1.10	0.70	2.90	2.80	0.30	0.10	0.10	0.10		
16	0.10	0.20	0.20	1.40	1.00	0.90	2.80	2.70	0.30	0.10	0.10	0.10		
17	0.10	0.20	0.20	1.10	1.00	0.90	2.70	2.60	0.20	0.10	0.10	0.10		
18	0.10	0.20	0.20	1.00	1.00	0.10	2.60	2.50	0.20	0.10	0.10	0.10		
19	0.30	0.30	0.90	1.00	0.90	0.20	1.70	2.20	0.20	0.10	0.10	0.10		
20	0.30	0.30	8.20	0.90	0.90	0.30	1.60	2.00	0.20	0.10	0.10	0.10		
21	0.30	0.30	5.90	0.80	1.40	0.40	1.50	1.60	0.10	0.10	0.10	0.10		
22	0.20	0.20	1.90	0.80	1.30	0.10	1.50	1.40	0.10	0.10	0.10	0.10		
23	0.10	0.20	1.20	0.80	1.20	0.10	1.50	0.90	0.10	0.10	0.10	0.10		
24	0.10	0.30	0.90	0.90	1.40	0.10	2.50	0.60	0.10	0.10	0.10	0.10		
25	0.10	0.20	0.80	1.00	1.70	0.10	3.70	0.40	0.10	0.10	0.10	0.10		
26	0.10	0.20	0.80	1.00	1.90	0.10	4.10	0.30	0.10	0.10	0.10	0.10		
27	0.10	0.10	0.70	1.00	1.90	0.20	5.00	0.30	0.10	0.10	0.10	0.10		
28	0.10	0.10	1.00	1.10	1.40	0.20	5.80	0.20	0.10	0.10	0.10	0.00		
29	0.10	0.10	1.80	1.10	0.90	0.30	5.60	0.20	0.10	0.10	0.10	0.00		
30	0.10	0.10	5.90	2.90	0.80	0.40	5.40	0.20	0.10	0.10		0.00		
31		0.10		8.70	1.10		5.20		0.10	0.10		0.00		
Total	4.30	5.70	32.10	123.20	112.50	17.90	106.90	36.10	32.20	4.30	6.20	2.70	484.10	Ton
Mean	0.10	0.20	1.10	4.00	3.60	0.60	3.40	1.20	1.00	0.10	0.20	0.10		
Max	0.30	0.30	8.20	18.00	24.50	1.40	8.70	5.20	20.50	0.30	0.80	0.10	24.50	
Min	0.10	0.10	0.10	0.80	0.80	0.10	1.20	0.20	0.10	0.10	0.10	0.00	0.00	

WATER YEAR : 2011**WEST COAST - GULF BASIN****Khlong Yai at Ban Chang Laek , Prachuap Khiri Khan (Gt.11)**

Lat 11 - 03 - 44 N Long 99 - 22 - 30 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 423.

	Ban Chang Laek	Amphoe Bang Saphan Noi	Changwat Prachuap Khiri Khan
Drainage Area	61 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	22		
R-Square	0.8686		
Remarks	Continued Sediment Station		

$$QS = 1.4420 QW^{1.63090}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.60	0.80	0.50	3.00	20.10	2.20	1.80	1.90	0.20	0.00	1.80	0.10		
2	2.40	0.60	0.50	4.80	14.60	1.90	1.60	1.60	0.20	0.00	10.30	0.10		
3	2.20	0.60	0.50	9.10	9.70	2.00	1.60	1.10	0.20	0.10	6.90	0.10		
4	2.00	0.60	0.40	5.60	6.40	1.80	1.30	1.00	0.20	0.80	3.30	0.10		
5	2.00	1.10	0.40	5.60	4.60	1.30	1.20	0.90	0.20	0.70	2.00	0.10		
6	2.60	9.70	0.40	5.20	3.50	1.30	0.80	0.90	0.20	0.70	1.60	0.10		
7	3.00	5.60	0.40	4.00	2.80	1.30	0.80	0.80	0.10	0.60	1.20	0.10		
8	3.00	3.50	0.40	3.50	2.20	1.30	5.60	0.80	0.10	0.60	0.80	0.10		
9	2.80	7.70	0.50	3.00	2.00	1.30	5.60	0.80	0.20	0.50	0.60	0.10		
10	2.80	6.00	0.60	2.60	2.00	1.30	4.60	0.60	0.30	0.40	0.60	0.10		
11	2.60	5.60	0.60	2.40	2.80	1.30	3.80	0.60	0.30	0.30	0.50	0.10		
12	2.60	4.60	0.80	2.20	6.40	3.30	4.80	0.50	0.20	0.20	0.40	0.20		
13	2.60	3.30	1.00	2.00	3.80	1.90	5.60	1.00	0.20	0.10	0.30	0.20		
14	2.60	2.80	0.80	1.90	2.20	1.50	2.40	6.90	0.20	0.10	0.30	0.10		
15	2.40	2.60	0.80	1.80	1.90	1.30	1.80	2.40	0.20	0.10	0.30	0.10		
16	2.40	2.80	0.90	1.80	1.60	1.30	1.60	1.30	0.20	0.10	0.30	0.10		
17	2.40	1.80	1.10	1.60	1.50	1.30	1.50	1.10	0.10	0.10	0.30	0.10		
18	3.00	1.90	1.90	1.30	1.90	1.30	1.30	0.70	0.10	0.10	0.30	0.10		
19	4.30	3.80	2.80	1.10	1.60	1.30	1.00	0.60	0.10	0.10	0.30	0.10		
20	5.60	3.80	8.20	0.90	1.30	1.30	0.90	0.60	0.10	0.10	0.30	0.10		
21	5.60	3.80	9.10	0.80	2.60	1.30	1.50	0.60	0.10	0.10	0.30	0.10		
22	5.20	3.00	6.00	0.70	1.50	1.30	1.80	0.50	0.10	0.10	0.30	0.10		
23	4.80	2.40	4.30	0.60	1.30	1.30	1.90	0.50	0.10	0.10	0.20	0.10		
24	4.80	1.50	3.80	0.90	1.20	1.50	2.00	0.40	0.10	0.10	0.20	0.10		
25	4.60	1.10	3.50	3.00	1.20	1.50	2.40	0.40	0.10	0.10	0.20	0.10		
26	4.60	0.80	2.60	11.40	1.20	1.30	4.80	0.40	0.10	0.10	0.20	0.10		
27	4.30	0.60	1.60	8.70	2.60	1.60	6.40	0.30	0.10	0.10	0.20	0.10		
28	4.30	0.40	2.00	5.60	3.80	6.00	4.30	0.30	0.00	0.60	0.20	0.10		
29	4.00	0.40	3.00	3.50	3.50	2.80	2.40	0.20	0.00	0.40	0.20	0.00		
30	3.80	0.50	5.60	4.80	4.00	2.60	1.30	0.20	0.00	0.20		0.00		
31		0.60		16.80	2.80		1.10		0.00	0.20		0.00		
Total	101.90	84.30	65.00	120.20	118.60	52.70	79.50	29.90	4.30	7.80	34.40	3.00	701.60	Ton
Mean	3.40	2.70	2.20	3.90	3.80	1.80	2.60	1.00	0.10	0.30	1.20	0.10		
Max	5.60	9.70	9.10	16.80	20.10	6.00	6.40	6.90	0.30	0.80	10.30	0.20	20.10	
Min	2.00	0.40	0.40	0.60	1.20	1.30	0.80	0.20	0.00	0.00	0.20	0.00	0.00	

WATER YEAR : 2011**SOUTHERN PENINSULA EAST COAST****Khlong Chumphon at Ban Wang Phai , Chumphon (X.53A)**

Lat 10 - 30 - 20 N Long 99 - 07 - 15 E

Location : on left bank about 9.50 kilometers downstream from X.53 station.

	Ban	Wang Phai	Amphoe	Mueang	Changwat	Chumphon
Drainage Area	296	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	1996-Cont'd					
Actual Measurement	1996-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	23					
R-Square	0.8244					
Remarks	Continued Sediment Station					

$$QS = 2.3616 QW^{1.44130}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	237.10	27.70	30.30	83.10	470.80	254.90	425.10	50.10	19.50	8.30	221.60	15.00	
2	138.00	24.30	29.50	175.40	264.90	177.20	564.70	39.70	18.70	21.80	338.50	15.00	
3	105.40	34.00	27.70	90.70	166.50	161.30	1237.90	36.80	18.70	1351.00	161.30	15.00	
4	73.20	22.70	26.80	56.80	120.60	179.00	948.70	38.70	20.20	1030.00	101.30	17.90	
5	199.00	36.80	26.00	43.80	92.10	116.50	839.60	31.20	20.20	511.00	54.50	18.70	
6	122.10	35.80	26.00	35.80	74.40	94.70	470.80	31.20	19.50	74.40	37.70	16.40	
7	210.20	35.80	26.80	31.20	61.20	97.30	332.00	33.10	17.90	49.00	30.30	15.70	
8	93.30	76.80	29.50	26.80	49.00	73.20	227.40	27.70	17.20	34.90	26.80	15.70	
9	64.80	106.80	25.10	24.30	48.00	81.80	180.80	26.80	18.70	28.60	25.10	18.70	
10	52.30	606.60	34.90	24.30	43.80	145.90	135.10	27.70	20.20	24.30	23.50	17.20	
11	46.90	635.30	46.90	25.10	74.40	334.10	127.90	26.00	17.90	21.80	22.70	16.40	
12	41.60	343.00	84.30	24.30	208.30	689.00	139.60	30.30	17.20	20.20	21.80	15.70	
13	38.70	248.90	55.60	24.30	81.80	597.20	92.10	168.30	16.40	19.50	21.00	15.70	
14	36.80	127.90	62.40	27.70	53.40	332.00	80.60	97.30	15.70	17.90	20.20	15.00	
15	34.90	90.70	45.90	31.20	41.60	202.70	76.80	80.60	15.00	17.90	19.50	14.20	
16	34.00	69.50	70.70	54.50	36.80	159.60	59.00	115.00	15.00	17.90	19.50	13.50	
17	33.10	98.60	69.50	67.10	34.00	113.70	52.30	57.90	14.20	17.20	18.70	13.50	
18	31.20	113.70	93.30	37.70	31.20	100.00	45.90	40.60	14.20	16.40	18.70	14.20	
19	41.60	154.40	223.50	29.50	27.70	252.90	43.80	33.10	13.50	16.40	22.70	13.50	
20	40.60	180.80	214.00	25.10	34.90	473.30	55.60	29.50	13.50	16.40	21.00	12.90	
21	33.10	105.40	123.50	23.50	34.00	435.00	80.60	26.80	13.50	16.40	19.50	12.20	
22	30.30	69.50	110.90	26.00	30.30	622.50	55.60	26.00	13.50	15.70	18.70	10.80	
23	31.20	49.00	79.30	53.40	28.60	372.90	56.80	24.30	12.90	14.20	17.90	10.20	
24	33.10	39.70	63.60	166.50	30.30	713.60	49.00	34.90	12.90	13.50	17.20	9.60	
25	33.10	45.90	49.00	494.70	27.70	538.60	67.10	44.80	12.90	13.50	16.40	8.90	
26	32.10	65.90	43.80	375.30	102.70	417.80	120.60	26.00	12.90	15.70	16.40	10.20	
27	24.30	41.60	44.80	295.80	141.00	380.00	96.00	23.50	12.90	17.20	15.70	12.20	
28	20.20	34.00	36.80	332.00	815.60	966.30	69.50	21.80	11.50	16.40	15.70	10.20	
29	19.50	33.10	40.60	312.60	1956.10	645.00	57.90	21.00	10.80	17.90	15.70	9.60	
30	22.70	32.10	61.20	465.60	1020.80	505.60	59.00	20.20	10.80	18.70		9.60	
31		29.50		710.00	440.10		57.90		10.80	123.50		9.60	
Total	1954.40	3615.80	1902.20	4194.10	6642.60	10233.60	6905.70	1290.90	478.80	3597.60	1379.60	423.00	42618.30
Mean	65.10	116.60	63.40	135.30	214.30	341.10	222.80	43.00	15.40	116.10	47.60	13.60	
Max	237.10	635.30	223.50	710.00	1956.10	966.30	1237.90	168.30	20.20	1351.00	338.50	18.70	1956.10
Min	19.50	22.70	25.10	23.50	27.70	73.20	43.80	20.20	10.80	8.30	15.70	8.90	8.30

WATER YEAR : 2011**SOUTHERN PENINSULA EAST COAST****Khlong Tha Taphao at Ban Wang Khrok , Chumphon (X.158)**

Lat 10 - 35 - 34 N Long 99 - 08 - 43 E

Location : on right bank at the bridge on Chumphon - Prachuap Khiri Khan Highway.

	Ban	Wang Khrok	Amphoe	Tha Sae	Changwat	Chumphon
Drainage Area	1,814	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.DH-59					
Period of Available Records	1996-Cont'd					
Actual Measurement	1996-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	29					
R-Square	0.7438					
Remarks	Continued Sediment Station					

$$QS = 11.9560 QW^{1.10560}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1180.00	127.40	186.50	965.70	4420.70	2024.10	1978.80	693.40	274.10	119.10	1681.80	127.40	
2	779.60	102.80	203.80	1517.20	3684.00	1381.30	1754.00	608.20	274.10	102.80	1422.00	86.70	
3	640.00	94.70	238.70	2160.50	2405.00	1180.00	3838.60	587.00	265.20	3026.20	1408.40	63.10	
4	513.70	195.10	238.70	1626.70	1435.50	1394.90	3357.60	545.00	265.20	2221.40	965.70	55.40	
5	466.60	301.00	212.50	1110.50	747.10	1110.50	3341.70	457.20	256.40	921.60	618.80	70.90	
6	466.60	319.00	212.50	866.70	932.60	921.60	2206.10	419.90	265.20	566.00	494.80	94.70	
7	1668.00	310.00	212.50	650.60	833.90	855.80	1654.20	419.90	265.20	401.40	392.10	135.70	
8	661.30	337.20	229.90	545.00	725.60	823.00	1408.40	419.90	265.20	328.10	346.30	94.70	
9	457.20	1021.20	238.70	476.00	768.70	790.40	1394.90	419.90	292.00	292.00	319.00	70.90	
10	364.60	1613.00	247.50	618.80	1032.30	910.60	1206.60	429.20	410.60	274.10	310.00	70.90	
11	337.20	2838.40	485.40	494.80	1180.00	1681.80	1327.30	419.90	346.30	238.70	292.00	102.80	
12	301.00	2420.30	555.50	485.40	1585.60	2963.50	1503.60	466.60	274.10	221.20	247.50	292.00	
13	274.10	1088.10	672.00	485.40	2009.00	3136.30	1088.10	1599.30	256.40	212.50	229.90	265.20	
14	256.40	693.40	672.00	476.00	1476.30	2130.10	921.60	2574.40	247.50	203.80	221.20	195.10	
15	247.50	534.50	650.60	494.80	1054.60	1783.80	866.70	1233.40	221.20	169.40	195.10	144.10	
16	247.50	513.70	534.50	1076.90	693.40	1367.80	747.10	954.70	247.50	144.10	195.10	94.70	
17	212.50	476.00	597.60	965.70	650.60	976.80	704.10	693.40	229.90	144.10	186.50	238.70	
18	195.10	576.50	790.40	757.90	682.70	877.60	693.40	587.00	195.10	135.70	364.60	221.20	
19	238.70	801.30	1709.40	597.60	629.40	932.60	650.60	524.10	177.90	135.70	513.70	186.50	
20	256.40	640.00	4794.20	476.00	555.50	1327.30	640.00	485.40	169.40	135.70	346.30	119.10	
21	247.50	513.70	4625.70	447.80	714.80	1783.80	2405.00	457.20	152.50	195.10	274.10	70.90	
22	203.80	392.10	2221.40	587.00	629.40	2145.30	1681.80	438.50	152.50	195.10	238.70	63.10	
23	152.50	319.00	1110.50	779.60	494.80	1798.80	2069.50	419.90	152.50	221.20	212.50	47.80	
24	144.10	274.10	833.90	965.70	476.00	1903.60	1313.90	382.90	144.10	203.80	195.10	25.70	
25	127.40	256.40	661.30	1233.40	466.60	2343.60	1099.30	355.40	144.10	186.50	169.40	0.00	
26	119.10	283.10	587.00	1571.90	640.00	1681.80	1640.50	319.00	144.10	238.70	152.50	0.00	
27	110.90	265.20	608.20	1948.70	833.90	1695.60	1724.20	301.00	135.70	169.40	152.50	0.00	
28	102.80	238.70	555.50	1768.90	2979.20	4775.40	1517.20	301.00	135.70	169.40	152.50	0.00	
29	86.70	238.70	485.40	1695.60	7709.10	3959.20	1021.20	274.10	127.40	195.10	135.70	0.00	
30	86.70	203.80	725.60	3167.80	6489.20	2682.80	888.60	274.10	127.40	203.80		0.00	
31		195.10		4327.80	3246.80		747.10		119.10	976.80		0.00	
Total	11145.50	18183.50	26097.40	35342.40	52182.30	53339.70	47391.70	18060.90	6733.60	12948.50	12433.80	2937.30	296796.70
Mean	371.50	586.60	869.90	1140.10	1683.30	1778.00	1528.80	602.00	217.20	417.70	428.80	94.80	
Max	1668.00	2838.40	4794.20	4327.80	7709.10	4775.40	3838.60	2574.40	410.60	3026.20	1681.80	292.00	7709.10
Min	86.70	94.70	186.50	447.80	466.60	790.40	640.00	274.10	119.10	102.80	135.70	0.00	0.00

WATER YEAR : 2011**SOUTHERN PENINSULA EAST COAST****Lower Khlong Tako at Ban Nong Chik , Chumphon (X.270)**

Lat 09 - 57 - 15 N Long 99 - 04 - 47 E

Location : on left bank at Ban Nong Chik.

	Ban Nong Chik	Amphoe Thung Tako	Changwat Chumphon
Drainage Area	68 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	30		
R-Square	0.8257		
Remarks	Continued Sediment Station		

$$QS = 8.4495 QW^{1.38340}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	245.50	9.50	9.20	131.70	19.60	15.60	24.40	36.90	22.80	16.20	125.00	6.00	
2	143.10	8.70	9.20	72.90	12.90	12.40	42.60	63.10	19.10	2868.60	61.50	5.60	
3	93.60	9.20	9.20	45.40	9.50	10.50	58.50	36.90	17.30	5259.40	44.10	5.60	
4	71.20	9.50	9.20	35.10	8.30	11.90	45.40	28.40	22.80	702.50	37.70	5.60	
5	74.90	9.20	9.20	22.00	6.30	10.00	32.50	20.80	20.80	234.20	28.40	6.30	
6	76.60	22.00	9.20	16.20	5.60	9.20	22.80	16.80	15.60	164.20	22.80	6.30	
7	82.20	17.90	8.70	12.40	4.60	8.70	17.30	15.10	13.50	111.80	20.20	6.00	
8	54.20	29.20	8.70	10.00	3.50	8.70	14.50	11.90	11.90	89.80	17.90	4.90	
9	38.60	145.40	8.70	9.20	3.20	8.70	12.40	10.50	18.50	76.60	16.80	7.10	
10	30.80	204.00	8.70	9.20	4.20	25.20	10.90	9.50	63.10	67.70	15.10	6.30	
11	25.20	188.60	10.00	9.20	4.90	404.30	10.90	10.00	32.50	60.10	14.00	5.60	
12	21.40	67.70	9.20	8.70	6.70	982.40	12.40	46.90	22.00	52.60	14.00	4.90	
13	19.10	36.90	8.70	9.20	5.60	176.30	9.50	507.70	17.90	44.10	13.50	5.60	
14	17.30	23.60	8.70	8.70	4.20	74.90	8.70	620.30	15.10	37.70	13.50	5.30	
15	15.60	19.60	8.70	8.70	3.20	45.40	8.30	157.10	13.50	36.00	12.90	4.20	
16	14.00	32.50	8.70	7.90	2.80	30.00	7.90	78.50	11.90	33.40	12.90	3.90	
17	11.90	32.50	8.30	5.60	2.40	22.00	7.10	51.20	11.40	29.20	12.40	4.20	
18	11.40	51.20	8.30	5.60	2.20	18.50	4.60	35.10	10.90	26.70	12.40	7.10	
19	11.90	171.40	9.20	3.50	2.20	16.20	7.50	26.70	10.50	27.60	16.80	5.60	
20	35.10	157.10	11.40	3.20	4.90	17.90	16.80	21.40	10.00	25.20	20.20	7.90	
21	14.50	66.20	8.70	2.60	18.50	17.30	25.20	21.40	9.50	29.20	13.50	5.30	
22	11.40	29.20	8.70	3.50	4.90	21.40	27.60	17.90	9.50	22.80	12.90	3.90	
23	10.50	20.80	9.50	6.00	3.20	17.30	51.20	33.40	9.50	20.20	12.40	3.20	
24	10.00	19.10	12.90	4.90	2.20	21.40	46.90	954.60	17.30	19.10	11.90	3.10	
25	10.00	15.60	9.50	8.30	2.20	25.90	29.20	552.60	380.30	17.90	11.90	2.60	
26	9.50	13.50	9.50	9.50	15.60	49.70	99.60	120.60	80.30	16.80	11.40	2.20	
27	9.20	11.40	8.70	8.70	30.00	31.70	122.80	69.60	42.60	15.60	11.40	3.90	
28	9.20	10.50	8.70	8.30	127.20	24.40	55.50	48.20	31.70	15.10	11.40	3.20	
29	8.70	10.00	8.70	8.30	93.60	21.40	42.60	36.00	23.60	14.00	11.40	2.80	
30	10.00	10.90	36.00	16.80	41.30	26.70	44.10	27.60	19.60	18.50		2.60	
31		10.50		17.90	22.80		36.90		16.80	282.80		2.60	
Total	1196.60	1463.40	302.10	529.20	478.30	2166.00	956.60	3686.70	1021.80	10435.60	640.30	149.40	23026.00
Mean	39.90	47.20	10.10	17.10	15.40	72.20	30.90	122.90	33.00	336.60	22.10	4.80	
Max	245.50	204.00	36.00	131.70	127.20	982.40	122.80	954.60	380.30	5259.40	125.00	7.90	5259.40
Min	8.70	8.70	8.30	2.60	2.20	8.70	4.60	9.50	9.50	14.00	11.40	2.20	2.20

WATER YEAR : 2011**TAPI RIVER BASIN****Tapi River at Ban Yan Din Daeng , Surat Thani (X.37A)**

Lat 08 - 34 - 03 N Long 99 - 15 - 15 E

Location : on left bank at Tambon Yan Din Daeng.

	Ban Yan Din Daeng	Amphoe Phrasaeng	Changwat Surat Thani
Drainage Area	5,383 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1996-Cont'd		
Actual Measurement	1996-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	20		
R-Square	0.8093		
Remarks	Continued Sediment Station		

$$QS = 0.3973 QW^{1.75150}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	75538.50	2003.00	1499.70	707.30	5272.30	11306.10	9022.80	3297.40	8245.10	2303.50	3793.70	531.50	
2	54546.50	2320.80	2407.70	668.90	4842.70	11511.00	9980.50	3002.50	7019.40	2658.30	4200.10	504.30	
3	41651.20	2372.80	2803.20	638.80	4379.70	10700.80	10767.30	2549.60	6973.20	6789.90	3737.10	471.20	
4	34177.20	2390.20	2913.20	638.80	3652.90	9365.30	11306.10	2496.00	7655.20	10174.80	3002.50	453.20	
5	29007.50	2759.70	2585.60	602.10	2513.80	7708.00	11442.60	2825.10	8685.80	12559.30	2407.70	443.30	
6	25197.00	3138.70	2286.40	552.30	1705.60	5819.50	11306.10	3217.60	9723.90	14367.70	2019.30	646.30	
7	21799.10	2957.70	1970.80	504.30	1225.50	4170.50	11374.20	3070.30	10045.00	14449.50	1812.80	855.80	
8	19882.70	2658.30	1735.90	464.70	981.30	3138.70	11648.60	2781.40	9422.90	13134.40	1557.40	1528.40	
9	18727.10	2320.80	1875.30	438.30	827.90	2549.60	11648.60	2658.30	7867.50	11170.40	1359.60	2407.70	
10	17464.40	2460.50	1922.80	418.80	722.90	2390.20	11306.10	2567.60	6121.30	8853.60	1199.40	2803.20	
11	15870.50	3138.70	1812.80	414.00	684.10	4289.50	10767.30	2585.60	5017.50	6563.70	1082.80	2695.00	
12	14286.10	3486.90	2051.90	418.80	730.80	7205.30	10109.80	2338.00	4624.20	4779.90	991.30	2101.20	
13	13352.90	3191.20	2425.20	545.30	846.50	9136.40	9787.70	2496.00	4379.70	3793.70	912.80	1160.60	
14	12205.60	2738.10	2355.40	1387.20	1062.20	11786.80	10305.20	3351.10	3708.90	3597.20	865.20	764.30	
15	10834.10	2425.20	2051.90	3191.20	1225.50	14286.10	10305.20	3793.70	2716.50	4082.20	800.40	653.80	
16	9422.90	2003.00	1828.30	4874.30	1542.90	14204.70	9596.70	3850.70	2513.80	5819.50	746.60	624.00	
17	8136.40	1720.70	1828.30	5692.10	1922.80	13061.90	8464.20	3680.80	3850.70	7065.70	707.30	517.80	
18	6881.30	1875.30	1812.80	5570.20	1720.70	11648.60	7019.40	2869.00	5053.60	8245.10	800.40	538.40	
19	6164.90	2425.20	2390.20	4349.60	1586.50	9980.50	5692.10	2184.50	5309.20	8853.60	1332.30	722.90	
20	6208.70	3093.00	3244.10	3164.90	1675.50	9022.80	4811.30	1528.40	5126.10	9480.70	2496.00	1001.30	
21	6208.70	3765.30	2781.40	2286.40	2084.70	9079.50	3822.10	1278.40	4289.50	10502.20	3297.40	1011.30	
22	5862.20	3737.10	2003.00	1428.90	2390.20	9193.40	3597.20	1471.20	3244.10	11306.10	2513.80	893.60	
23	4945.70	3115.80	1485.40	1001.30	3514.30	8853.60	3324.20	2567.60	2891.10	11579.70	1485.40	609.40	
24	3994.70	2303.50	1318.70	981.30	4501.20	7655.20	2781.40	4289.50	3324.20	11170.40	1011.30	433.40	
25	3244.10	1875.30	1735.90	1147.90	4842.70	6429.60	2338.00	5457.70	4082.20	9980.50	855.80	371.80	
26	2738.10	1675.50	1514.00	1616.00	4531.80	5819.50	2167.80	6653.80	5570.20	8630.20	722.90	362.70	
27	2640.10	1751.20	1093.20	2303.50	4655.10	5495.10	2407.70	7158.60	5734.40	7112.10	587.70	423.70	
28	2640.10	1542.90	903.20	2478.20	6296.70	5570.20	2913.20	7761.00	5199.00	5272.30	524.60	477.70	
29	2320.80	1318.70	791.30	3191.20	8190.70	6518.90	3191.20	8464.20	4379.70	3652.90	517.80	594.90	
30	1986.90	1124.60	730.80	4779.90	9538.60	7867.50	3093.00	8966.30	3378.10	2913.20		573.40	
31		1124.60		5495.10	10370.70		3164.90		2640.10	3138.70		573.40	
Total	477935.90	74814.30	58158.40	61951.60	100038.80	245764.80	229462.50	111211.90	168792.10	244001.00	47341.40	27749.50	1847222.30
Mean	15931.20	2413.40	1938.60	1998.40	3227.10	8192.20	7402.00	3707.10	5444.90	7871.00	1632.50	895.10	
Max	75538.50	3765.30	3244.10	5692.10	10370.70	14286.10	11648.60	8966.30	10045.00	14449.50	4200.10	2803.20	75538.50
Min	1986.90	1124.60	730.80	414.00	684.10	2390.20	2167.80	1278.40	2513.80	2303.50	517.80	362.70	362.70

WATER YEAR : 2011**TAPI RIVER BASIN****Tapi River at Ban Tha Pho , Nakhon Si Thammarat (X.195)**

Lat 08 - 30 - 24 N Long 99 - 30 - 39 E

Location : on left bank at Ban Tha Pho.

	Ban Tha Pho	Amphoe Chawang	Changwat Nakhon Si Thammarat
Drainage Area	488 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	22		
R-Square	0.7534		
Remarks	Continued Sediment Station		

$$QS = 4.6333 QW^{1.30140}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7971.60	566.10	438.60	282.00	321.60	486.80	898.00	379.10	496.50	556.10	1017.10	168.20	
2	5745.90	556.10	477.00	274.20	267.20	526.10	759.50	313.60	659.60	3248.10	648.60	155.80	
3	4151.60	421.40	526.10	289.80	239.80	526.10	839.60	282.00	566.10	3797.20	617.10	149.70	
4	3267.40	297.70	486.80	274.20	206.50	496.50	759.50	260.30	617.10	2445.90	526.10	143.70	
5	2682.80	337.80	457.70	260.30	174.50	486.80	793.70	260.30	606.80	1559.20	486.80	187.10	
6	2356.20	362.40	421.40	260.30	162.00	486.80	737.20	219.70	506.40	1245.80	457.70	187.10	
7	2139.00	404.30	404.30	246.60	174.50	486.80	681.50	143.70	404.30	1077.90	430.00	174.50	
8	1851.60	346.00	395.90	246.60	174.50	516.20	506.40	143.70	354.20	980.90	412.80	187.10	
9	1604.60	346.00	404.30	239.80	174.50	526.10	430.00	180.80	321.60	862.80	395.90	267.20	
10	1424.80	404.30	438.60	239.80	174.50	362.40	370.70	206.50	467.40	748.30	379.10	187.10	
11	1232.60	395.90	526.10	246.60	206.50	546.00	467.40	131.80	714.80	703.60	370.70	193.60	
12	1102.40	395.90	496.50	274.20	174.50	933.20	714.80	124.00	586.40	714.80	354.20	206.50	
13	1041.40	346.00	526.10	354.20	155.80	886.10	714.80	116.30	421.40	921.50	362.40	187.10	
14	993.00	370.70	477.00	496.50	143.70	737.20	659.60	213.10	346.00	874.60	346.00	162.00	
15	945.00	354.20	430.00	457.70	143.70	714.80	596.60	143.70	321.60	2500.10	329.70	149.70	
16	945.00	346.00	421.40	448.20	143.70	606.80	536.10	143.70	968.80	1680.90	321.60	139.70	
17	909.60	457.70	421.40	362.40	143.70	438.60	448.20	143.70	1219.40	1339.10	289.80	135.70	
18	886.10	404.30	486.80	313.60	143.70	395.90	387.50	143.70	1053.40	1102.40	226.40	135.70	
19	933.20	536.10	546.00	246.60	193.60	370.70	379.10	131.80	909.60	945.00	430.00	168.20	
20	957.00	457.70	457.70	239.80	187.10	387.50	370.70	124.00	703.60	898.00	362.40	149.70	
21	828.20	576.30	412.80	239.80	226.40	448.20	337.80	155.80	586.40	1065.70	260.30	149.70	
22	782.20	506.40	379.10	239.80	239.80	566.10	305.60	725.90	648.60	805.20	226.40	131.80	
23	737.20	438.60	362.40	239.80	457.70	516.20	267.20	1395.40	782.20	659.60	213.10	131.80	
24	703.60	404.30	370.70	253.40	321.60	576.30	260.30	1090.20	692.60	586.40	200.00	124.00	
25	648.60	387.50	354.20	253.40	305.60	506.40	260.30	2253.30	1193.20	536.10	187.10	120.10	
26	606.80	430.00	329.70	246.60	725.90	467.40	395.90	2427.90	1128.20	496.50	180.80	112.50	
27	606.80	379.10	321.60	267.20	496.50	637.80	467.40	1836.00	759.50	467.40	174.50	86.80	
28	596.60	395.90	313.60	337.80	648.60	805.20	387.50	1312.30	586.40	430.00	168.20	79.70	
29	586.40	370.70	297.70	412.80	606.80	874.60	387.50	980.90	496.50	412.80	168.20	69.40	
30	576.30	379.10	289.80	457.70	596.60	1115.30	526.10	692.60	448.20	467.40		23.70	
31		404.30		337.80	546.00		486.80		412.80	670.40		23.70	
Total	49813.50	12778.80	12671.30	9339.50	8877.10	17430.90	16133.30	16675.80	19979.60	34799.70	10543.00	4488.60	213531.10
Mean	1660.50	412.20	422.40	301.30	286.40	581.00	520.40	555.90	644.50	1122.60	363.60	144.80	
Max	7971.60	576.30	546.00	496.50	725.90	1115.30	898.00	2427.90	1219.40	3797.20	1017.10	267.20	7971.60
Min	576.30	297.70	289.80	239.80	143.70	362.40	260.30	116.30	321.60	412.80	168.20	23.70	23.70

WATER YEAR : 2011**TAPI RIVER BASIN****Khlong Sin Pun at Ban Bang Rup , Surat Thani (X.198)**

Lat 08 - 24 - 24 N Long 99 - 15 - 05 E

Location : on right bank at Ban Bang Rup.

	Ban	Bang Rup	Amphoe	Phrasaeng	Changwat	Surat Thani
Drainage Area	866	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2007-Cont'd					
Actual Measurement	2007-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	23					
R-Square	0.7240					
Remarks	Continued Sediment Station					

$$QS = 7.5565 QW^{1.25690}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6252.80	238.80	65.90	54.00	755.30	1077.50	702.20	208.40	297.00	93.50	126.50	33.20	
2	5607.50	299.40	65.90	50.00	868.90	1177.40	740.70	208.40	272.30	203.40	178.60	32.60	
3	4847.10	231.10	65.90	40.50	578.60	1190.20	755.30	205.00	301.90	721.40	159.20	32.60	
4	4204.20	206.70	65.90	36.50	272.30	665.90	716.60	346.70	371.20	954.90	107.70	32.00	
5	3668.80	195.00	65.90	36.50	113.00	563.00	627.70	346.70	627.70	1020.30	81.80	30.70	
6	3265.30	185.10	65.90	33.20	50.00	299.40	559.10	379.40	849.00	874.00	71.10	49.30	
7	3021.60	188.40	86.10	30.10	50.00	250.70	547.50	376.60	894.10	466.90	63.50	186.70	
8	2769.20	219.70	128.00	30.10	61.80	236.80	991.90	382.10	745.60	304.30	57.80	173.70	
9	2557.90	323.80	125.00	29.40	69.00	223.50	1257.40	432.30	346.70	221.60	54.70	134.10	
10	2372.80	376.60	113.00	26.90	71.10	217.80	1066.00	438.40	276.70	164.00	51.60	145.00	
11	1845.30	349.40	113.00	25.70	74.30	352.10	755.30	476.90	326.30	126.50	48.00	92.20	
12	1551.80	248.60	113.00	160.80	76.40	627.70	687.80	543.60	354.80	105.10	45.20	64.30	
13	1120.10	200.00	113.00	227.30	81.80	1008.90	598.30	711.80	278.80	109.00	43.80	44.50	
14	721.40	173.70	128.00	376.60	71.10	1083.30	547.50	794.50	191.70	120.40	43.20	36.50	
15	528.20	164.00	128.00	640.40	68.00	1158.20	510.40	674.50	140.30	255.00	40.50	34.50	
16	326.30	206.70	132.60	819.10	65.90	1222.30	447.60	687.80	148.10	272.30	38.50	33.90	
17	270.10	261.50	103.80	868.90	65.90	1264.40	365.70	740.70	246.50	373.90	41.80	32.60	
18	344.00	287.60	120.40	919.30	114.40	1107.50	289.80	707.00	352.10	627.70	45.20	114.40	
19	687.80	321.40	159.20	929.50	146.60	1037.40	238.80	423.20	349.40	590.40	70.00	170.40	
20	707.00	631.90	159.20	929.50	183.50	657.40	219.70	244.50	278.80	707.00	121.90	287.60	
21	623.50	582.60	146.60	894.10	268.00	623.50	311.60	203.40	188.40	517.10	223.50	390.40	
22	396.20	306.70	132.60	687.80	338.60	631.90	261.50	227.30	146.60	510.40	168.80	221.60	
23	180.20	246.50	118.90	528.20	420.20	304.30	229.20	423.20	148.10	447.60	69.00	71.10	
24	167.20	206.70	107.70	281.00	441.50	289.80	186.70	697.40	215.90	341.30	48.00	45.90	
25	167.20	183.50	79.60	208.40	294.60	294.60	137.20	894.10	432.30	227.30	41.80	43.80	
26	178.60	148.10	69.00	365.70	246.50	299.40	154.40	954.90	408.20	146.60	38.50	53.10	
27	227.30	77.50	60.30	570.80	309.10	309.10	272.30	1003.20	281.00	134.10	35.20	45.20	
28	215.90	82.80	59.40	610.90	636.10	341.30	299.40	1026.00	206.70	98.60	33.20	89.70	
29	185.10	89.70	58.60	615.10	929.50	524.30	294.60	849.00	156.00	81.80	43.80	56.30	
30	167.20	81.80	57.80	602.50	1043.10	670.20	240.70	480.20	118.90	96.10		91.00	
31		73.20		610.90	965.20		225.40		94.80	175.30		156.00	
Total	49177.60	7388.50	3008.20	12239.70	9730.30	19709.80	15238.30	16087.20	10045.90	11087.80	2192.40	3024.90	158930.60
Mean	1639.30	238.30	100.30	394.80	313.90	657.00	491.60	536.20	324.10	357.70	75.60	97.60	
Max	6252.80	631.90	159.20	929.50	1043.10	1264.40	1257.40	1026.00	894.10	1020.30	223.50	390.40	6252.80
Min	167.20	73.20	57.80	25.70	50.00	217.80	137.20	203.40	94.80	81.80	33.20	30.70	25.70

WATER YEAR : 2011**TAPI RIVER BASIN****Khlong Chandee at Ban Pak Min , Nakhon Si Thammarat (X.257)**

Lat 08 - 33 - 34 N Long 99 - 32 - 11 E

Location : on left bank at Ban Pak Min.

	Ban	Pak Min	Amphoe	Chawang	Changwat	Nakhon Si Thammarat
Drainage Area	2,076	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2007-Cont'd					
Actual Measurement	2007-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	21					
R-Square	0.7495					
Remarks	Continued Sediment Station					

$$QS = 7.6363 QW^{1.23670}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36172.40	221.00	248.30	135.80	571.10	792.90	624.40	560.40	396.90	523.00	234.60	55.90	
2	24136.70	221.00	242.80	133.30	491.40	717.80	657.50	409.00	417.10	617.90	248.30	54.50	
3	18081.70	226.40	226.40	128.40	368.90	544.30	704.40	321.90	353.10	617.90	231.90	51.80	
4	9839.00	231.90	221.00	123.60	280.00	409.00	786.00	261.30	298.90	555.00	218.30	50.40	
5	7113.00	245.60	215.70	118.80	231.90	287.50	731.40	253.90	231.90	637.60	191.80	55.90	
6	5565.20	253.90	210.30	114.00	205.00	242.80	954.30	272.40	191.80	1021.40	176.10	61.50	
7	5000.80	276.20	205.00	109.30	181.30	226.40	1167.90	237.30	165.90	940.00	155.70	54.50	
8	3419.20	261.30	199.70	133.30	173.60	202.30	1004.50	213.00	183.90	869.40	128.40	53.10	
9	3153.90	248.30	221.00	123.60	168.40	280.00	799.80	199.70	207.60	670.80	111.70	84.70	
10	2975.40	234.60	223.70	109.30	197.00	437.50	637.60	199.70	329.70	501.90	93.80	71.50	
11	2881.00	226.40	242.80	114.00	189.10	624.40	565.80	194.40	353.10	353.10	78.80	60.10	
12	2694.10	221.00	306.50	118.80	183.90	704.40	611.30	171.00	318.10	283.70	62.90	53.10	
13	2375.70	226.40	298.90	114.00	178.70	664.20	1148.10	153.20	245.60	283.70	55.90	49.10	
14	2142.80	229.20	261.30	111.70	173.60	491.40	1227.50	148.20	218.30	345.30	99.90	45.00	
15	1993.90	210.30	237.30	314.20	173.60	392.90	954.30	138.20	237.30	458.10	98.40	43.70	
16	1744.90	173.60	215.70	409.00	210.30	353.10	604.80	128.40	425.20	560.40	95.30	41.10	
17	1554.70	183.90	189.10	345.30	283.70	318.10	474.70	128.40	523.00	617.90	92.30	38.50	
18	1338.30	197.00	173.60	314.20	276.20	413.00	353.10	128.40	409.00	684.20	87.70	43.70	
19	1187.70	191.80	191.80	242.80	280.00	1004.50	314.20	128.40	353.10	918.70	143.20	55.90	
20	1060.10	189.10	226.40	183.90	276.20	925.80	306.50	133.30	306.50	1050.40	118.80	47.70	
21	940.00	223.70	280.00	173.60	291.30	841.40	280.00	148.20	310.40	911.70	92.30	50.40	
22	827.50	337.40	240.10	168.40	345.30	637.60	248.30	533.60	242.80	813.60	83.20	43.70	
23	697.60	265.00	221.00	189.10	409.00	631.00	231.90	841.40	376.90	650.90	78.80	38.50	
24	624.40	210.30	205.00	229.20	388.90	677.50	226.40	841.40	717.80	491.40	74.40	34.70	
25	523.00	199.70	183.90	226.40	565.80	697.60	231.90	883.40	940.00	368.90	71.50	34.70	
26	405.00	194.40	173.60	237.30	644.20	717.80	396.90	1050.40	841.40	268.70	67.10	41.10	
27	257.50	189.10	160.80	253.90	544.30	657.50	478.90	1187.70	738.20	229.20	62.90	43.70	
28	231.90	186.50	145.70	306.50	820.60	624.40	517.70	997.30	684.20	223.70	61.50	41.10	
29	229.20	183.90	140.70	445.70	1227.50	631.00	560.40	904.60	441.60	199.70	60.10	37.20	
30	226.40	178.70	138.20	523.00	947.20	581.90	571.10	813.60	349.20	210.30		41.10	
31		176.10		512.40	855.40		604.80		380.90	207.60		74.40	
Total	139393.00	6813.70	6446.30	6762.80	12133.40	16730.00	18976.40	12582.10	12189.40	17086.10	3375.60	1552.30	254041.10
Mean	4646.40	219.80	214.90	218.20	391.40	557.70	612.10	419.40	393.20	551.20	116.40	50.10	
Max	36172.40	337.40	306.50	523.00	1227.50	1004.50	1227.50	1187.70	940.00	1050.40	248.30	84.70	36172.40
Min	226.40	173.60	138.20	109.30	168.40	202.30	226.40	128.40	165.90	199.70	55.90	34.70	34.70

WATER YEAR : 2011**TAPI RIVER BASIN****Lower Khlong I - Pan at Ban Arpart , Surat Thani (X.260)**

Lat 08 - 32 - 28 N Long 99 - 13 - 25 E

Location : on left bank at Ban Arpart.

	Ban Arpart	Amphoe Phrasaeng	Changwat Surat Thani
Drainage Area	2,076 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	22		
R-Square	0.7029		
Remarks	Continued Sediment Station		

$$QS = 6.1445 QW^{1.38390}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25575.60	711.80	345.80	244.00	1689.90	4875.20	4500.00	3515.50	3360.50	1413.90	1675.80	784.30	
2	23191.80	504.10	792.50	223.00	1402.40	4553.10	4983.90	2689.30	5341.80	1979.00	1413.90	731.00	
3	20481.70	476.60	1164.80	244.00	1266.20	3831.00	5593.50	1508.90	8891.50	2561.50	1437.00	699.20	
4	17403.20	603.70	1536.40	236.90	883.90	1818.40	5734.70	800.70	9277.90	2907.60	1876.40	743.80	
5	14763.10	743.80	808.90	209.30	579.50	1704.00	5791.50	1021.70	7983.00	3078.00	2276.00	743.80	
6	12377.70	743.80	618.30	184.80	392.40	1390.90	5565.40	1266.20	6534.50	3294.70	1876.40	1345.20	
7	9945.10	737.40	546.20	136.50	296.20	1174.00	5397.40	1119.60	5203.30	3560.10	1775.30	1633.60	
8	8320.50	776.20	490.30	148.70	244.00	1174.00	5425.30	808.90	3876.70	3808.20	1437.00	3035.20	
9	7138.50	724.60	636.70	128.50	200.30	1229.10	5537.30	1083.70	2670.90	4713.40	1333.80	4159.20	
10	6664.10	613.40	642.90	134.50	200.30	1675.80	4983.90	1030.50	1761.00	5065.90	1057.00	5038.50	
11	5848.40	667.70	608.60	126.60	195.80	2616.10	4526.50	995.40	1536.40	4713.40	792.50	4159.20	
12	5453.30	969.40	759.90	165.40	345.80	4263.30	4500.00	978.00	1437.00	4956.70	731.00	3272.90	
13	4821.10	1012.90	630.60	463.00	467.60	6164.20	4159.20	1057.00	1277.40	5230.90	560.40	1460.20	
14	4500.00	833.70	613.40	995.40	485.80	9394.70	4037.80	1155.70	1288.60	5065.90	322.40	1210.60	
15	4133.30	705.50	630.60	1775.30	546.20	9511.90	4133.30	1460.20	1495.20	4686.60	449.60	995.40	
16	4014.70	589.20	655.30	2399.80	485.80	8509.60	3515.50	1876.40	1550.20	4420.70	784.30	1804.00	
17	3785.50	508.80	661.50	2543.40	427.30	7174.70	2689.30	2085.30	1732.40	4037.80	768.00	1483.50	
18	3627.30	661.50	737.40	1647.60	454.00	5203.30	2241.00	1522.60	1732.40	3808.20	711.80	1247.60	
19	3164.20	867.10	699.20	1266.20	485.80	4821.10	2241.00	960.70	1495.20	3560.10	699.20	1057.00	
20	2561.50	960.70	613.40	883.90	527.40	5120.70	1775.30	680.30	1128.60	3338.50	737.40	909.30	
21	1905.60	1092.60	579.50	589.20	618.30	4821.10	1495.20	550.90	1299.90	2823.50	817.20	792.50	
22	1425.40	1004.20	570.00	345.80	692.80	4500.00	1379.40	522.70	833.70	2328.80	667.70	724.60	
23	1201.40	842.00	508.80	339.10	1288.60	4740.20	1379.40	1256.90	842.00	1949.50	532.10	579.50	
24	1083.70	603.70	494.90	405.40	1564.00	4983.90	1039.30	1413.90	737.40	1732.40	396.80	630.60	
25	960.70	490.30	630.60	449.60	1789.60	4473.50	883.90	1775.30	603.70	1605.70	508.80	476.60	
26	943.50	422.90	618.30	513.40	1979.00	3876.70	724.60	2417.60	598.80	1718.20	518.10	481.20	
27	943.50	458.50	375.30	598.80	2652.60	3382.50	680.30	2311.20	768.00	1832.90	319.10	768.00	
28	900.80	388.10	263.10	759.90	3831.00	2634.30	692.80	2364.20	892.40	1718.20	246.30	458.50	
29	900.80	277.60	251.10	1471.90	4211.10	2763.10	718.20	2726.10	1039.30	1390.90	229.90	251.10	
30	892.40	272.80	251.10	2276.00	5120.70	3493.20	768.00	2471.30	1164.80	1356.50		209.30	
31		270.30		2241.00	5093.30		1174.00		1183.10	1564.00		200.30	
Total	198928.40	20534.90	18735.40	24146.90	40417.60	125873.60	98266.90	45426.70	79537.60	96221.70	26951.20	42085.70	817126.60
Mean	6630.90	662.40	624.50	778.90	1303.80	4195.80	3169.90	1514.20	2565.70	3103.90	929.40	1357.60	
Max	25575.60	1092.60	1536.40	2543.40	5120.70	9511.90	5791.50	3515.50	9277.90	5230.90	2276.00	5038.50	25575.60
Min	892.40	270.30	251.10	126.60	195.80	1174.00	680.30	522.70	598.80	1356.50	229.90	200.30	126.60

WATER YEAR : 2011**THALE SAP SONGKHLA****Khlong Ratthaphum at Ban Nasithong , Songkhla (X.67A)**

Lat 07 - 06 - 50 N Long 100 - 12 - 15 E

Location : on right bank at Ban Kampheang Phet.

	Ban	Kampheang Phet	Amphoe	Ratthaphum	Changwat	Songkhla
Drainage Area	248	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2006-Cont'd					
Actual Measurement	2006-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	27					
R-Square	0.9056					
Remarks	Continued Sediment Station					

$$QS = 2.6553 QW^{1.52620}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	266.80	72.10	14.90	22.00	10.80	44.10	32.90	165.60	244.60	3931.80	149.10	51.10	
2	223.40	240.40	13.80	19.60	11.80	39.00	28.60	149.10	223.40	2814.90	145.80	45.80	
3	182.70	149.10	13.80	17.20	10.80	35.80	27.30	117.80	244.60	909.80	142.60	52.90	
4	142.60	72.10	12.80	16.00	10.80	28.60	24.60	94.00	266.80	909.80	133.10	62.20	
5	117.80	35.80	11.80	10.80	10.30	22.00	22.00	72.10	341.50	505.20	123.80	94.00	
6	94.00	28.60	10.80	10.80	9.80	19.60	20.80	62.20	266.80	341.50	117.80	105.70	
7	72.10	24.60	10.80	11.80	9.30	18.40	20.80	52.90	165.60	266.80	112.90	117.80	
8	62.20	23.30	11.80	12.80	8.40	17.20	19.60	49.30	202.60	257.90	105.70	72.10	
9	56.60	22.00	12.80	13.80	7.90	16.00	18.40	44.10	223.40	253.40	94.00	66.10	
10	52.90	19.60	13.80	10.30	8.40	22.00	19.60	52.90	266.80	1040.10	89.50	62.20	
11	47.50	20.80	16.00	9.80	8.40	928.00	19.60	62.20	553.70	855.80	85.00	64.20	
12	44.10	22.00	17.20	9.30	8.80	3856.70	20.80	110.50	1426.60	1030.60	82.70	66.10	
13	35.80	23.30	13.80	8.80	9.30	811.60	19.60	80.60	1453.20	6252.70	78.40	68.10	
14	34.30	24.60	16.00	7.50	10.30	257.90	18.40	68.10	443.40	1828.80	76.30	52.90	
15	31.40	25.90	14.90	6.70	8.40	198.70	18.40	422.30	298.60	992.90	72.10	44.10	
16	44.10	23.30	13.80	6.20	7.50	126.90	17.20	194.60	864.70	553.70	68.10	40.70	
17	94.00	22.00	11.80	6.20	18.40	94.00	16.00	96.20	3194.60	432.80	62.20	39.00	
18	72.10	20.80	10.30	5.90	42.40	82.70	22.00	76.30	1337.30	411.90	56.60	35.80	
19	72.10	35.80	10.80	5.40	52.90	60.30	22.00	257.90	1011.70	512.10	56.60	32.90	
20	52.90	44.10	10.80	5.10	44.10	52.90	20.80	190.60	567.80	1814.60	54.70	28.60	
21	44.10	25.90	10.80	4.70	52.90	49.30	22.00	785.60	464.90	589.10	52.90	27.30	
22	35.80	22.00	10.80	4.70	44.10	44.10	24.60	2895.80	692.50	464.90	49.30	25.90	
23	32.90	19.60	10.30	4.30	44.10	39.00	25.90	1857.80	539.70	411.90	44.10	24.60	
24	28.60	16.00	9.80	5.10	35.80	39.00	28.60	3561.50	438.00	361.10	40.70	23.30	
25	22.00	17.20	9.30	5.10	52.90	35.80	22.00	3856.70	361.10	336.50	39.00	22.00	
26	20.80	18.40	8.80	5.40	117.80	34.30	37.40	1561.40	266.80	312.70	40.70	45.80	
27	19.60	11.80	8.40	6.70	223.40	37.40	47.50	734.30	244.60	266.80	40.70	23.30	
28	18.40	10.80	7.90	6.20	567.80	40.70	52.90	498.50	223.40	244.60	44.10	24.60	
29	18.40	10.30	7.50	5.90	341.50	62.20	149.10	454.10	179.30	223.40	45.80	27.30	
30	22.00	10.30	7.50	5.90	1194.60	52.90	532.60	351.20	165.60	215.00		25.90	
31		9.80		6.20	684.20		603.50		210.80	202.60		24.60	
Total	2062.00	1122.30	353.60	276.20	3667.90	7167.10	1975.50	18976.20	17384.40	29545.70	2304.30	1496.90	86332.10
Mean	68.70	36.20	11.80	8.90	118.30	238.90	63.70	632.50	560.80	953.10	79.50	48.30	
Max	266.80	240.40	17.20	22.00	1194.60	3856.70	603.50	3856.70	3194.60	6252.70	149.10	117.80	6252.70
Min	18.40	9.80	7.50	4.30	7.50	16.00	16.00	44.10	165.60	202.60	39.00	22.00	4.30

WATER YEAR : 2011**THALE SAP SONGKHLA****Khlong U - Taphao at Ban Bang Sala , Songkhla (X.90)**

Lat 06 - 55 - 39 N Long 100 - 26 - 37 E

Location : on left bank at the bridge near Wat Bang Sala, Tambon Thung Lan.

	Ban	Bang Sala	Amphoe	Khlong Hoi Khong	Changwat	Songkhla
Drainage Area	1,547	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2005-Cont'd					
Actual Measurement	2005-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	33					
R-Square	0.8710					
Remarks	Continued Sediment Station					

$$QS = 7.4510 QW^{1.27550}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5564.40	855.10	719.90	420.10	278.50	750.70	1084.80	402.00	1097.40	12716.40	503.50	900.40	
2	5631.90	1136.60	792.10	420.10	272.30	599.80	1150.70	291.10	900.40	49486.70	494.10	1072.30	
3	4835.40	1164.90	629.40	580.30	253.90	541.60	475.30	366.40	792.10	26851.90	709.70	834.00	
4	3006.20	1164.90	761.00	761.00	253.90	522.50	447.50	266.10	888.30	14447.90	475.30	709.70	
5	1776.80	1136.60	730.10	781.70	266.10	331.50	551.20	384.10	1624.80	6911.70	503.50	936.60	
6	1059.80	936.60	699.60	619.50	229.70	590.00	541.60	375.20	1558.20	2909.30	466.00	1179.00	
7	865.70	900.40	629.40	590.00	188.70	740.40	541.60	297.40	1426.80	1591.40	420.10	1264.80	
8	924.50	855.10	761.00	484.70	183.00	679.40	551.20	659.30	1047.30	1072.30	494.10	1475.80	
9	740.40	719.90	888.30	649.30	272.30	532.00	494.10	375.20	792.10	888.30	844.50	900.40	
10	936.60	659.30	876.30	719.90	217.80	619.50	484.70	1110.00	609.60	1381.20	699.60	1010.10	
11	781.70	761.00	689.40	709.70	235.70	948.80	402.00	291.10	438.40	1949.10	761.00	1828.10	
12	659.30	802.50	475.30	639.30	223.70	3601.50	314.30	357.60	590.00	2813.10	844.50	1264.80	
13	855.10	679.40	639.30	513.00	253.90	5497.10	340.20	211.90	912.40	27376.90	771.30	888.30	
14	719.90	771.30	719.90	348.90	229.70	4577.20	619.50	322.90	761.00	22824.80	522.50	659.30	
15	719.90	750.70	699.60	284.80	278.50	2422.20	522.50	291.10	532.00	13826.80	551.20	823.50	
16	719.90	813.00	619.50	241.70	247.80	1410.60	834.00	340.20	1221.80	7560.40	844.50	699.60	
17	823.50	900.40	730.10	314.30	730.10	973.20	570.50	447.50	4265.70	3959.10	771.30	689.40	
18	1059.80	802.50	781.70	348.90	551.20	781.70	411.00	402.00	4014.50	2244.60	948.80	699.60	
19	771.30	900.40	781.70	278.50	792.10	411.00	494.10	513.00	2244.60	2089.30	924.50	761.00	
20	781.70	719.90	719.90	305.80	659.30	447.50	348.90	438.40	1308.20	6386.10	740.40	669.30	
21	1034.90	740.40	730.10	305.80	865.70	560.90	438.40	1692.00	865.70	10417.40	855.10	792.10	
22	669.30	750.70	740.40	357.60	629.40	438.40	375.20	5463.40	1034.90	6947.10	876.30	750.70	
23	719.90	689.40	730.10	272.30	659.30	730.10	375.20	5938.00	1207.50	3525.90	802.50	629.40	
24	761.00	888.30	669.30	314.30	503.50	366.40	384.10	10667.90	865.70	2108.60	771.30	771.30	
25	669.30	792.10	619.50	297.40	699.60	513.00	322.90	11440.80	629.40	1845.30	740.40	823.50	
26	844.50	709.70	649.30	291.10	740.40	522.50	357.60	8275.30	541.60	1366.50	876.30	771.30	
27	876.30	639.30	659.30	297.40	669.30	284.80	291.10	6282.10	466.00	924.50	1097.40	609.60	
28	802.50	699.60	629.40	260.00	730.10	494.10	340.20	4777.80	438.40	709.70	855.10	599.80	
29	865.70	590.00	570.50	260.00	813.00	855.10	366.40	3103.80	340.20	719.90	730.10	609.60	
30	771.30	560.90	532.00	305.80	985.50	1179.00	291.10	1658.30	331.50	503.50		709.70	
31		719.90		284.80	924.50		357.60		639.30	532.00		792.10	
Total	41248.50	25210.80	20873.40	13258.00	14838.50	32922.50	15079.50	67441.90	34385.80	238887.70	20894.90	27125.10	552166.60
Mean	1375.00	813.30	695.80	427.70	478.70	1097.40	486.40	2248.10	1109.20	7706.10	720.50	875.00	
Max	5631.90	1164.90	888.30	781.70	985.50	5497.10	1150.70	11440.80	4265.70	49486.70	1097.40	1828.10	49486.70
Min	659.30	560.90	475.30	241.70	183.00	284.80	291.10	211.90	331.50	503.50	420.10	599.80	183.00

WATER YEAR : 2011**THALE SAP SONGKHLA****Khlong La Pang at Ban Thung Prap , Songkhla (X.113)**

Lat 06 - 37 - 59 N Long 100 - 23 - 46 E

Location : on right bank at Ban Thung Prap.

	Ban Thung Prap	Amphoe Sadao	Changwat Songkhla
Drainage Area	118 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.DH-59		
Period of Available Records	1979-Cont'd		
Actual Measurement	1981-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	32		
R-Square	0.8691		
Remarks	Continued Sediment Station		

$$QS = 14.9370 QW^{1.26870}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.50	298.60	13.80	25.00	8.50	12.00	106.10	13.40	16.50	10726.40	26.70	17.20	
2	347.60	108.10	16.50	13.10	8.10	10.50	171.60	12.30	15.70	559.90	20.80	14.90	
3	100.40	53.70	18.80	54.40	8.10	10.20	64.30	12.30	16.90	432.70	90.30	18.00	
4	46.80	129.90	14.90	17.60	8.10	9.80	136.80	11.60	37.60	105.30	22.10	14.60	
5	33.70	47.50	16.50	12.00	7.80	9.50	84.80	12.70	511.40	30.60	18.80	20.00	
6	42.50	24.10	12.70	10.50	7.50	8.80	104.10	13.80	124.80	24.60	17.60	277.30	
7	60.50	19.20	12.00	10.20	7.50	9.80	28.80	29.70	20.40	22.10	16.90	32.40	
8	41.60	17.20	12.30	10.20	7.50	54.40	59.70	70.60	17.60	20.40	16.10	855.00	
9	27.10	16.10	12.30	10.20	7.20	10.90	28.40	14.20	18.40	20.00	16.10	138.90	
10	24.10	15.70	13.10	9.80	7.20	16.50	22.50	13.80	16.10	22.50	15.70	35.50	
11	22.90	20.40	12.30	9.50	7.20	2523.10	19.60	13.40	15.70	29.30	14.90	30.60	
12	20.80	19.60	12.30	8.80	7.20	1541.30	19.20	31.00	14.60	98.10	14.60	20.40	
13	19.60	19.60	24.60	8.80	7.20	145.70	18.00	12.70	13.80	409.60	14.60	29.30	
14	18.80	15.30	12.30	9.20	6.80	28.00	16.90	11.60	13.40	110.20	13.80	18.40	
15	16.90	14.20	12.00	9.20	8.80	20.40	15.70	12.00	14.90	45.10	13.80	16.90	
16	81.80	103.30	12.70	8.80	7.20	16.90	15.30	11.60	23.30	26.70	13.80	15.70	
17	0.00	26.30	13.10	8.80	7.20	19.20	14.90	11.60	20.80	23.70	13.40	14.90	
18	36.90	20.00	12.70	8.80	16.50	17.60	14.90	11.30	14.90	123.60	28.40	14.60	
19	40.90	199.70	12.70	8.80	8.50	27.10	16.10	28.40	15.30	54.40	14.60	14.60	
20	24.10	20.40	12.00	8.50	7.80	45.80	14.60	386.80	13.40	669.40	13.80	18.00	
21	17.60	16.90	11.30	8.10	7.80	28.00	273.80	127.80	13.40	59.70	13.40	14.90	
22	78.80	15.30	10.90	8.10	7.50	22.10	21.20	91.40	15.70	1589.00	13.10	19.60	
23	17.60	17.20	16.50	8.10	15.70	16.10	16.10	67.90	13.10	96.20	12.70	14.20	
24	48.50	28.00	12.00	8.10	14.20	13.80	14.90	913.00	12.30	34.60	40.10	14.60	
25	18.00	15.70	11.60	8.10	17.20	12.70	15.30	112.20	12.00	28.80	16.10	13.40	
26	15.30	14.20	11.30	9.80	33.30	1541.30	14.60	37.60	11.60	25.40	13.80	13.10	
27	40.10	14.20	11.60	8.80	12.70	229.00	16.10	44.20	11.30	23.30	13.10	13.40	
28	16.90	13.80	10.90	10.20	16.50	381.20	13.40	24.60	10.90	21.70	108.10	14.90	
29	14.90	13.10	10.90	11.30	125.70	152.80	12.70	20.40	10.50	20.80	30.60	13.80	
30	17.60	12.70	10.50	8.80	113.30	31.90	13.10	18.40	11.60	20.40		12.70	
31		12.30		8.80	13.80		18.00		29.70	113.30		12.00	
Total	1435.80	1362.30	397.10	360.40	539.60	6966.40	1401.50	2192.30	1107.60	15587.80	677.80	1773.80	33802.40
Mean	47.90	43.90	13.20	11.60	17.40	232.20	45.20	73.10	35.70	502.80	23.40	57.20	
Max	347.60	298.60	24.60	54.40	125.70	2523.10	273.80	913.00	511.40	10726.40	108.10	855.00	10726.40
Min	0.00	12.30	10.50	8.10	6.80	8.80	12.70	11.30	10.50	20.00	12.70	12.00	0.00

WATER YEAR : 2011**THALE SAP SONGKHLA****Khlong Lam at Ban Khlong Lam , Phatthalung (X.170)**

Lat 07 - 33 - 22 N Long 99 - 59 - 31 E

Location : on left bank at the bridge.

	Ban Khlong Lam	Amphoe Srinagarindra	Changwat Phatthalung
Drainage Area	258 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	27		
R-Square	0.8919		
Remarks	Continued Sediment Station		

$$QS = 1.5881 QW^{1.55090}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2010 to 31 March 2011

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	957.50	30.70	15.00	13.60	11.10	17.80	38.00	515.30	236.80	2653.30	853.30	22.30	
2	798.80	28.90	20.80	11.10	9.90	15.00	38.00	168.70	108.10	5300.00	243.40	19.30	
3	732.50	27.20	23.90	12.30	12.30	12.30	41.90	86.90	140.50	3672.10	151.50	19.30	
4	457.80	38.00	19.30	16.40	9.90	17.80	36.10	63.60	146.00	1051.00	146.00	19.30	
5	342.10	28.90	16.40	12.30	9.90	13.60	39.90	86.90	112.50	476.70	151.50	95.10	
6	270.30	28.90	15.00	11.10	9.90	9.90	38.00	63.60	91.00	312.70	99.40	91.00	
7	256.70	30.70	13.60	11.10	8.70	9.90	30.70	43.90	78.80	230.20	71.10	28.90	
8	211.10	25.60	15.00	9.90	8.70	9.90	25.60	36.10	67.30	192.50	56.50	28.90	
9	157.20	23.90	13.60	9.90	7.60	9.90	30.70	32.50	117.00	151.50	50.00	27.20	
10	126.20	23.90	13.60	9.90	6.60	9.90	22.30	30.70	67.30	305.50	43.90	30.70	
11	112.50	23.90	23.90	8.70	6.60	630.70	25.60	38.00	217.40	223.80	41.90	25.60	
12	95.10	23.90	15.00	13.60	12.30	988.30	20.80	38.00	277.20	411.70	39.90	22.30	
13	82.80	23.90	22.30	16.40	9.90	121.60	19.30	32.50	223.80	420.70	38.00	19.30	
14	67.30	22.30	22.30	12.30	7.60	50.00	17.80	395.80	117.00	957.50	36.10	17.80	
15	63.60	20.80	16.40	15.00	7.60	36.10	15.00	349.60	112.50	5388.20	32.50	15.00	
16	60.00	27.20	22.30	22.30	6.60	28.90	15.00	305.50	1921.10	668.30	30.70	13.60	
17	52.10	27.20	16.40	13.60	8.70	23.90	15.00	121.60	2841.30	495.90	27.20	13.60	
18	50.00	22.30	15.00	12.30	8.70	23.90	13.60	82.80	1277.10	320.00	27.20	13.60	
19	67.30	22.30	15.00	9.90	7.60	23.90	13.60	60.00	655.70	364.80	43.90	13.60	
20	63.60	23.90	15.00	9.90	12.30	36.10	16.40	103.70	525.20	655.70	27.20	13.60	
21	48.00	34.30	15.00	9.90	28.90	25.60	15.00	706.60	298.30	305.50	25.60	13.60	
22	41.90	23.90	13.60	9.90	19.30	30.70	16.40	2480.10	357.20	263.50	25.60	12.30	
23	38.00	19.30	13.60	9.90	19.30	22.30	13.60	3776.80	230.20	168.70	23.90	12.30	
24	38.00	19.30	12.30	20.80	12.30	19.30	17.80	5300.00	270.30	126.20	23.90	12.30	
25	34.30	17.80	12.30	13.60	9.90	16.40	17.80	5850.40	515.30	99.40	22.30	11.10	
26	34.30	17.80	12.30	15.00	28.90	30.70	56.50	2038.80	732.50	82.80	20.80	11.10	
27	34.30	19.30	4.70	13.60	32.50	41.90	41.90	1180.30	467.20	71.10	19.30	36.10	
28	32.50	16.40	11.10	12.30	45.90	27.20	86.90	630.70	291.20	56.50	38.00	23.90	
29	32.50	16.40	12.30	17.80	63.60	43.90	86.90	420.70	204.80	54.30	74.90	13.60	
30	34.30	15.00	13.60	13.60	38.00	45.90	429.90	312.70	291.20	95.10		12.30	
31		15.00		11.10	22.30		448.40		349.60	535.10		12.30	
Total	5392.60	738.90	470.60	399.10	503.40	2393.30	1744.40	25352.80	13341.40	26110.30	2485.50	720.90	79653.20
Mean	179.80	23.80	15.70	12.90	16.20	79.80	56.30	845.10	430.40	842.30	85.70	23.30	
Max	957.50	38.00	23.90	22.30	63.60	988.30	448.40	5850.40	2841.30	5388.20	853.30	95.10	5850.40
Min	32.50	15.00	4.70	8.70	6.60	9.90	13.60	30.70	67.30	54.30	19.30	11.10	4.70

WATER YEAR : 2011**THALE SAP SONGKHLA****Khlong Wa at Ban Khlong Wa , Songkhla (X.174)**

Lat 06 - 59 - 42 N Long 100 - 29 - 05 E

Location : on right bank at the bridge.

	Ban Khlong Wa	Amphoe Hat Yai	Changwat Songkhla
Drainage Area	116 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2003-Cont'd		
Actual Measurement	2003-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	28		
R-Square	0.8359		
Remarks	Continued Sediment Station		

$$QS = 4.6792 QW^{1.40720}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	75.30	24.00	37.60	26.20	10.70	32.90	28.40	269.00	219.40	7695.70	133.20	45.10	
2	115.30	19.90	42.50	24.00	10.70	32.90	26.20	197.70	190.90	8397.80	133.20	42.50	
3	103.80	18.00	42.50	26.20	9.10	28.40	24.00	171.00	164.50	2051.20	127.10	45.10	
4	84.20	47.60	40.10	37.60	9.10	28.40	24.00	127.10	227.50	589.90	115.30	58.20	
5	75.30	115.30	47.60	30.60	9.10	28.40	26.20	139.30	507.60	440.00	103.80	92.70	
6	58.20	81.20	37.60	24.00	9.10	26.20	26.20	286.20	252.20	339.50	98.20	269.00	
7	50.20	61.00	40.10	22.00	9.10	24.00	28.40	303.60	197.70	294.90	87.30	145.50	
8	45.10	52.80	47.60	22.00	9.10	24.00	32.90	260.50	171.00	277.60	84.20	98.20	
9	45.10	35.30	47.60	19.90	9.10	22.00	32.90	171.00	139.30	286.20	84.20	87.30	
10	37.60	32.90	75.30	16.00	7.50	19.90	32.90	121.20	151.70	396.50	81.20	81.20	
11	32.90	35.30	81.20	16.00	7.50	164.50	42.50	103.80	171.00	376.40	78.20	75.30	
12	30.60	35.30	69.50	14.20	9.10	277.60	37.60	98.20	269.00	840.60	75.30	84.20	
13	28.40	32.90	61.00	12.40	9.10	158.10	37.60	84.20	811.20	2260.90	72.30	75.30	
14	26.20	32.90	55.50	14.20	9.10	87.30	28.40	84.20	484.70	1431.80	72.30	69.50	
15	24.00	42.50	50.20	10.70	69.50	66.60	22.00	98.20	376.40	627.60	69.50	66.60	
16	24.00	69.50	47.60	10.70	55.50	61.00	35.30	98.20	753.30	739.00	69.50	61.00	
17	22.00	78.20	42.50	9.10	26.20	55.50	30.60	84.20	1088.10	577.90	66.60	58.20	
18	45.10	72.30	42.50	9.10	9.10	52.80	45.10	69.50	641.20	418.10	63.80	55.50	
19	87.30	58.20	40.10	9.10	18.00	50.20	63.80	72.30	451.10	367.10	63.80	52.80	
20	72.30	50.20	35.30	7.50	35.30	47.60	58.20	78.20	339.50	418.10	61.00	58.20	
21	55.50	52.80	32.90	7.50	66.60	37.60	55.50	1289.00	339.50	348.60	61.00	69.50	
22	47.60	52.80	30.60	9.10	52.80	35.30	50.20	2371.90	376.40	294.90	58.20	75.30	
23	42.50	78.20	26.20	19.90	37.60	32.90	40.10	1735.30	312.50	260.50	55.50	66.60	
24	37.60	121.20	22.00	18.00	32.90	30.60	42.50	2288.50	321.40	227.50	58.20	61.00	
25	32.90	84.20	19.90	14.20	32.90	28.40	42.50	1105.60	260.50	204.50	40.10	58.20	
26	28.40	63.80	18.00	12.40	28.40	28.40	47.60	682.60	204.50	190.90	35.30	55.50	
27	24.00	55.50	18.00	10.70	32.90	32.90	69.50	577.90	171.00	171.00	45.10	52.80	
28	22.00	50.20	18.00	10.70	45.10	28.40	72.30	473.40	164.50	164.50	47.60	50.20	
29	19.90	45.10	18.00	10.70	45.10	32.90	61.00	357.80	145.50	151.70	47.60	50.20	
30	28.40	40.10	32.90	9.10	45.10	32.90	103.80	277.60	139.30	145.50		47.60	
31		37.60		9.10	45.10		235.60		197.70	133.20		47.60	
Total	1421.70	1676.80	1220.40	492.90	805.50	1608.60	1503.80	14077.20	10240.10	31119.60	2188.60	2255.90	68611.10
Mean	47.40	54.10	40.70	15.90	26.00	53.60	48.50	469.20	330.30	1003.90	75.50	72.80	
Max	115.30	121.20	81.20	37.60	69.50	277.60	235.60	2371.90	1088.10	8397.80	133.20	269.00	8397.80
Min	19.90	18.00	18.00	7.50	7.50	19.90	22.00	69.50	139.30	133.20	35.30	42.50	7.50

WATER YEAR : 2011**THALE SAP SONGKHLA****Upper Khlong Wat at Ban Hu Rae , Songkhla (X.240)**

Lat 06 - 59 - 03 N Long 100 - 19 - 44 E

Location : on right bank at the bridge.

	Ban Hu Rae	Amphoe Hat Yai	Changwat Songkhla
Drainage Area	127 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	28		
R-Square	0.9273		
Remarks	Continued Sediment Station		

$$QS = 5.6945 QW^{1.45710}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	63.80	21.00	14.00	10.80	10.80	25.50	15.10	185.00	120.90	4435.90	95.80	24.20	
2	332.50	48.50	18.60	10.80	10.30	18.00	14.50	122.20	104.40	1255.80	85.10	24.20	
3	133.40	26.20	17.40	12.90	10.30	14.50	13.40	64.00	88.70	1789.80	82.80	26.20	
4	62.00	24.90	15.60	11.80	11.80	12.90	12.90	54.60	84.00	350.40	77.10	41.40	
5	46.90	36.10	15.10	10.80	0.50	12.30	14.00	76.00	198.50	226.30	71.60	55.60	
6	46.10	25.50	15.10	10.80	0.00	10.90	14.00	91.00	108.10	176.10	67.20	41.40	
7	38.30	22.30	14.00	10.30	5.70	10.10	13.40	140.80	86.30	147.70	62.90	29.60	
8	32.40	20.40	15.10	10.30	5.70	11.30	12.30	50.10	72.70	127.40	59.80	27.50	
9	30.30	19.20	17.40	10.30	5.40	9.70	13.40	36.80	65.00	233.00	56.70	36.10	
10	28.20	18.60	14.50	9.80	5.40	9.30	12.30	28.90	62.90	745.80	52.60	37.60	
11	26.20	19.20	27.50	10.80	5.00	53.60	11.30	38.30	282.60	1065.00	51.80	34.60	
12	25.50	18.00	18.60	10.80	5.40	451.20	11.30	37.60	197.00	649.10	49.30	36.80	
13	24.20	19.20	18.60	10.80	7.80	146.30	10.10	54.60	636.00	4011.10	48.50	33.90	
14	23.60	16.80	19.20	10.30	6.00	67.20	11.30	34.60	268.60	945.20	46.90	31.00	
15	22.30	16.20	16.20	9.80	9.30	45.30	10.10	34.60	200.00	657.90	46.10	30.30	
16	26.90	19.80	15.10	10.80	12.90	36.80	24.20	51.00	1000.50	332.50	46.90	25.50	
17	21.60	17.40	14.00	10.80	109.40	29.60	13.40	44.50	2712.50	274.40	42.10	21.00	
18	26.20	21.60	18.60	10.30	26.20	25.50	11.80	65.00	623.60	226.30	39.80	19.80	
19	33.90	26.20	15.60	9.80	12.90	24.20	13.40	46.10	559.50	726.00	51.00	18.60	
20	46.10	19.80	14.00	9.80	11.80	24.90	18.00	36.80	268.60	1950.70	42.10	18.00	
21	27.50	27.50	13.40	9.80	22.30	22.90	22.90	636.00	221.10	434.90	39.10	25.50	
22	23.60	19.20	12.90	9.80	11.80	20.40	32.40	1097.70	707.10	330.40	35.30	19.80	
23	22.30	18.60	12.90	10.80	28.90	18.60	17.40	1330.40	286.80	216.10	31.70	17.40	
24	21.00	17.40	12.30	10.30	11.30	18.00	14.00	3499.40	222.70	176.10	28.90	16.20	
25	19.80	16.20	13.40	11.30	9.70	16.20	19.20	5195.10	176.10	150.50	28.20	16.20	
26	19.20	16.20	12.30	11.80	22.90	16.80	15.10	680.10	149.10	128.70	28.20	15.60	
27	18.60	15.10	11.30	11.30	40.60	16.80	18.00	444.60	120.90	117.00	29.60	15.60	
28	18.60	14.50	10.80	10.80	52.60	17.40	14.50	316.80	108.10	105.60	29.60	16.80	
29	18.00	14.00	10.80	15.60	57.70	23.60	13.40	226.30	99.40	94.60	28.90	15.60	
30	20.40	16.80	10.30	15.60	50.10	17.40	23.60	154.70	109.40	91.00		14.50	
31		14.00		11.30	33.90		328.00		214.30	98.20		14.50	
Total	1299.40	646.40	454.60	341.00	614.40	1227.20	788.70	14873.60	10155.40	22269.50	1455.60	801.00	54926.80
Mean	43.30	20.90	15.20	11.00	19.80	40.90	25.40	495.80	327.60	718.40	50.20	25.80	
Max	332.50	48.50	27.50	15.60	109.40	451.20	328.00	5195.10	2712.50	4435.90	95.80	55.60	5195.10
Min	18.00	14.00	10.30	9.80	0.00	9.30	10.10	28.90	62.90	91.00	28.20	14.50	0.00

WATER YEAR : 2011**THALE SAP SONGKHLA****Khlong Tamot at Ban Mae Khree , Phatthalung (X.267)**

Lat 07 - 20 - 18 N Long 100 - 06 - 36 E

Location : on left bank at Ban Mae Khree.

	Ban Mae Khree	Amphoe Tamot	Changwat Phatthalung
Drainage Area	295 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2008-Cont'd		
Actual Measurement	2008-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	27		
R-Square	0.8694		
Remarks	Continued Sediment Station		

$$QS = 5.9929 QW^{1.20300}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	479.60	87.60	28.90	2.60	1.10	0.00	2.60	283.10	135.80	1087.60	137.80	19.80	
2	244.90	87.60	28.90	2.60	1.10	0.00	2.60	129.30	106.10	1266.80	111.70	19.80	
3	168.30	72.00	28.90	39.80	0.20	0.00	2.60	72.00	87.60	763.10	111.70	19.80	
4	125.10	106.10	28.90	19.80	0.00	0.00	2.60	57.00	87.60	692.60	87.60	19.80	
5	106.10	87.60	28.90	19.80	0.00	2.60	2.60	42.50	87.60	463.90	72.00	42.50	
6	72.00	57.00	28.90	14.60	0.00	2.60	2.60	42.50	87.60	211.30	72.00	57.00	
7	113.60	57.00	28.90	6.70	0.00	2.60	2.60	42.50	87.60	268.30	54.00	49.70	
8	106.10	57.00	28.90	6.70	0.00	2.60	1.10	42.50	87.60	402.20	51.10	32.90	
9	78.20	28.90	11.30	3.40	0.00	2.60	1.10	42.50	113.60	402.20	49.70	79.80	
10	57.00	28.90	11.30	2.60	0.00	2.60	1.10	42.50	182.50	168.30	49.70	42.50	
11	44.00	27.00	11.30	2.60	0.00	72.00	1.10	42.50	524.00	292.00	49.70	35.60	
12	49.70	26.10	11.30	2.50	0.00	452.20	9.40	35.60	692.60	471.70	49.70	28.90	
13	28.90	26.10	11.30	2.50	0.00	532.00	6.70	35.60	1527.80	879.20	49.70	28.90	
14	11.30	24.30	14.60	2.30	0.00	244.90	6.70	98.60	772.90	900.30	42.50	28.90	
15	11.30	24.30	7.60	1.10	2.60	125.10	6.70	125.10	337.70	603.60	42.50	24.30	
16	2.60	24.30	6.70	1.10	1.90	125.10	6.70	87.60	665.20	319.00	35.60	19.80	
17	0.00	23.40	6.70	1.10	4.60	125.10	6.70	79.80	916.30	262.40	28.90	19.80	
18	0.80	23.40	6.70	1.10	6.70	125.10	6.70	67.40	701.80	374.80	28.90	19.80	
19	54.00	23.40	6.70	0.00	6.70	125.10	4.60	69.00	564.90	590.80	28.90	19.80	
20	109.80	22.50	6.70	0.00	6.70	106.10	2.60	69.00	374.80	577.80	28.90	19.80	
21	57.00	22.50	6.70	0.00	6.70	87.60	2.60	239.10	304.00	385.10	28.90	19.80	
22	57.00	21.60	6.70	0.00	4.60	72.00	6.70	1158.20	274.20	286.00	28.90	19.80	
23	49.70	21.60	6.70	1.10	4.60	57.00	6.70	1541.00	233.40	227.60	28.90	19.80	
24	39.80	20.70	6.70	1.10	3.00	42.50	11.30	1315.90	286.00	175.50	28.90	24.30	
25	28.90	20.70	6.70	1.90	2.60	19.80	11.30	997.20	364.70	125.10	24.30	24.30	
26	28.90	19.80	6.70	1.90	2.60	15.50	45.40	942.80	292.00	108.00	24.30	26.10	
27	21.60	18.00	4.20	1.70	5.40	15.50	39.80	743.50	204.00	87.60	21.60	20.70	
28	28.90	18.00	2.60	1.70	8.50	12.20	42.50	479.60	168.30	87.60	24.30	25.20	
29	28.90	18.00	2.60	1.70	24.30	11.30	42.50	479.60	153.00	87.60	27.00	25.20	
30	28.90	18.00	2.60	1.70	19.80	11.30	108.00	425.10	204.00	127.30		24.30	
31		18.00		1.70	0.20		292.00		325.10	121.20		23.40	
Total	2232.90	1131.40	395.60	147.40	113.90	2393.00	688.20	9828.60	10950.30	12816.50	1419.70	882.10	42999.60
Mean	74.40	36.50	13.20	4.80	3.70	79.80	22.20	327.60	353.20	413.40	49.00	28.50	
Max	479.60	106.10	28.90	39.80	24.30	532.00	292.00	1541.00	1527.80	1266.80	137.80	79.80	1541.00
Min	0.00	18.00	2.60	0.00	0.00	0.00	1.10	35.60	87.60	87.60	21.60	19.80	0.00

WATER YEAR : 2011**THALE SAP SONGKHLA****Upper Khlong Tha Nae at Ban Khao Pu , Phatthalung (X.276)**

Lat 07 - 42 - 25 N Long 99 - 50 - 29 E

Location : on right bank at the bridge.

	Ban Khao Pu	Amphoe Si Banphot	Changwat Phatthalung
Drainage Area	47 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	26		
R-Square	0.9383		
Remarks	Continued Sediment Station		

$$QS = 8.9528 QW^{1.53830}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	485.00	9.90	1.40	0.60	2.50	8.70	149.30	1994.90	61.80	1788.80	291.80	3.10		
2	553.50	8.70	2.20	0.50	2.60	7.60	50.30	153.40	47.50	922.40	279.30	2.80		
3	427.80	8.30	2.30	0.70	2.50	5.80	77.30	87.10	37.10	364.10	153.40	3.10		
4	243.40	9.90	1.60	0.60	2.30	8.00	28.20	55.90	50.30	208.50	83.80	2.90		
5	170.80	8.70	1.60	0.60	2.20	7.40	32.20	485.00	32.20	132.70	47.50	6.60		
6	136.60	8.00	1.30	0.50	1.90	5.80	25.60	47.50	34.60	90.50	28.20	6.40		
7	124.30	7.40	1.10	0.50	1.80	6.00	19.30	29.50	42.20	67.80	20.60	5.20		
8	97.70	8.00	1.10	0.50	1.80	4.60	17.00	26.80	23.10	53.10	15.90	6.40		
9	83.80	7.40	1.40	0.40	1.80	3.80	13.90	23.10	23.10	44.80	11.90	12.80		
10	74.10	7.40	0.90	0.40	1.60	4.60	10.80	19.30	47.50	44.80	9.90	21.70		
11	64.80	7.00	1.20	0.40	1.80	64.80	15.90	28.20	50.30	28.20	8.30	10.80		
12	53.10	7.60	1.20	1.60	2.20	197.40	9.90	20.60	58.80	175.90	7.60	8.00		
13	44.80	8.00	1.30	0.80	1.80	67.80	9.00	18.10	39.60	267.00	7.00	6.40		
14	42.20	7.40	2.50	1.20	2.90	13.90	12.80	21.70	29.50	1326.40	6.60	5.80		
15	34.60	6.60	2.30	5.20	2.20	15.90	8.70	32.20	77.30	776.80	6.40	5.80		
16	31.00	17.00	1.30	0.80	2.00	13.90	8.00	26.80	1824.10	254.90	6.00	5.50		
17	28.20	9.00	2.00	0.80	2.40	12.80	7.60	21.70	571.00	144.90	5.80	5.20		
18	28.20	7.40	1.40	0.60	2.20	9.90	7.40	44.80	254.90	197.40	5.20	4.90		
19	29.50	6.40	1.10	0.50	1.90	8.30	12.80	23.10	153.40	175.90	4.90	4.60		
20	25.60	5.50	1.00	0.40	2.00	19.30	12.80	17.00	105.20	991.60	4.60	4.40		
21	23.10	5.50	1.00	0.40	7.00	18.10	8.30	5265.90	67.80	887.80	5.80	3.80		
22	21.70	5.20	0.80	0.40	34.60	12.80	13.90	625.00	105.20	237.30	5.50	4.40		
23	19.30	4.60	0.80	0.50	19.30	8.70	9.90	747.50	50.30	149.30	5.20	4.10		
24	17.00	4.10	0.70	0.50	9.00	8.00	25.60	820.60	58.80	87.10	4.90	3.80		
25	15.90	3.80	0.70	0.50	6.60	7.00	14.90	709.00	208.50	67.80	4.60	3.60		
26	14.90	3.60	0.70	0.50	9.00	10.80	108.80	254.90	273.40	55.90	4.40	3.30		
27	14.90	6.40	0.70	0.50	74.10	18.10	42.20	203.10	162.00	44.80	3.80	4.10		
28	13.90	4.60	0.60	2.50	47.50	19.30	32.20	153.40	120.50	31.00	6.00	3.10		
29	12.80	3.80	0.60	4.40	29.50	64.80	175.90	87.10	67.80	23.10	6.00	3.10		
30	12.80	3.80	0.60	3.60	21.70	29.50	634.10	61.80	55.90	25.60		2.90		
31		3.60		3.10	18.10		709.00		384.40	3389.10		4.90		
Total	2945.30	214.60	37.40	34.50	318.80	683.40	2303.60	12105.00	5118.10	13055.30	1050.90	173.50	38040.40	Ton
Mean	98.20	6.90	1.20	1.10	10.30	22.80	74.30	403.50	165.10	421.10	36.20	5.60		
Max	553.50	17.00	2.50	5.20	74.10	197.40	709.00	5265.90	1824.10	3389.10	291.80	21.70	5265.90	
Min	12.80	3.60	0.60	0.40	1.60	3.80	7.40	17.00	23.10	23.10	3.80	2.80	0.40	

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Trang River at Ban Tha Pradu , Trang (X.56)
Lat 07 - 46 - 01 N Long 99 - 32 - 25 E

Location : on left bank at Ban Tha Pradu.

	Ban Tha Pradu	Amphoe Huai Yot	Changwat Trang
Drainage Area	1,801 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2004-Cont'd		
Actual Measurement	2004-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	30		
R-Square	0.7716		
Remarks	Continued Sediment Station		

$$QS = 13.1940 QW^{1.07250}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20001.40	416.50	177.70	126.80	1783.20	1905.70	1018.70	1862.10	2572.20	827.30	1665.10	172.70	
2	13761.20	407.60	182.80	209.50	1700.50	1479.40	1018.70	1771.30	2037.70	2144.30	2140.30	165.10	
3	9802.30	403.20	319.10	185.30	1700.50	1111.00	1237.50	1149.20	1854.20	3999.40	2148.30	160.10	
4	8022.00	660.00	263.60	165.10	1304.90	1498.90	1700.50	684.00	1618.10	5116.80	1724.10	167.60	
5	7148.00	952.40	209.50	143.40	959.00	1440.50	1984.00	684.00	1411.40	5584.00	1031.90	1065.20	
6	6552.00	781.50	221.10	129.00	660.00	1031.90	2330.50	748.90	1218.30	5244.00	814.20	1126.30	
7	5244.00	403.20	198.10	118.60	421.00	775.00	2285.30	604.90	1095.70	4939.20	735.90	177.70	
8	3708.70	367.60	185.30	62.70	232.60	615.90	1998.90	599.40	912.70	2578.30	615.90	129.00	
9	2829.70	349.90	217.20	51.00	201.80	506.50	1850.30	577.50	735.90	2007.80	517.40	794.60	
10	2463.20	403.20	284.10	44.10	185.30	1164.50	1479.40	572.00	677.60	1362.90	468.60	1430.80	
11	2244.30	501.10	310.30	39.30	195.50	2260.30	1392.00	577.50	768.50	985.50	452.40	1382.30	
12	2116.40	407.60	205.70	48.70	187.90	3508.10	1411.40	665.60	919.30	939.10	403.20	550.10	
13	2010.80	380.90	259.80	160.10	185.30	4560.00	1899.70	939.10	814.20	1065.20	398.70	363.20	
14	1921.50	341.10	275.40	566.50	232.60	4258.20	1872.00	490.20	555.60	814.20	336.70	263.60	
15	1868.10	301.60	259.80	1285.60	703.50	3365.90	1528.10	403.20	637.90	1362.90	314.70	217.20	
16	1712.30	244.30	284.10	1285.60	1421.10	2620.70	1005.40	354.30	1012.00	2112.40	292.90	193.00	
17	1489.20	244.30	217.20	906.10	1149.20	2043.60	794.60	341.10	2064.50	2280.30	267.60	185.30	
18	1285.60	501.10	240.30	555.60	716.40	1518.40	649.00	323.50	2236.30	2732.20	228.80	267.60	
19	1126.30	649.00	224.90	288.50	385.40	945.70	517.40	301.60	2094.40	4732.50	511.90	398.70	
20	879.80	703.50	244.30	263.60	367.60	998.70	528.30	336.70	1881.90	4880.10	820.70	801.10	
21	945.70	593.90	228.80	248.10	978.80	1362.90	506.50	407.60	1469.70	3978.60	463.20	430.00	
22	820.70	820.70	180.30	248.10	748.90	1868.10	457.80	1771.30	1156.90	3291.80	288.50	263.60	
23	709.90	615.90	152.60	259.80	484.80	1921.50	495.70	2523.70	840.40	2740.30	205.70	190.40	
24	615.90	425.50	137.30	267.60	1247.10	1844.30	434.40	3316.50	729.40	2160.30	167.60	165.10	
25	550.10	323.50	102.30	279.80	1665.10	1353.30	389.80	4459.20	1353.30	1747.70	152.60	155.10	
26	495.70	232.60	118.60	292.90	1881.90	1065.20	479.40	5244.00	1895.80	1164.50	157.60	162.60	
27	438.90	177.70	126.80	301.60	1990.00	939.10	1498.90	5413.80	2034.70	945.70	157.60	244.30	
28	398.70	155.10	139.30	372.00	2120.30	893.00	1806.80	5176.10	1913.60	827.30	157.60	177.70	
29	345.50	177.70	157.60	729.40	2265.30	1133.90	1450.20	4703.00	1401.70	748.90	175.20	160.10	
30	292.90	217.20	170.20	1227.90	2378.70	1126.30	1266.40	3687.90	1149.20	722.90		452.40	
31		160.10		1818.70	2188.20		1846.30		853.50	775.00		506.50	
Total	101800.80	13319.50	6294.10	12681.00	32642.40	51116.50	39133.90	50689.20	41916.60	74811.40	17814.90	12919.00	455139.30
Mean	3393.40	429.70	209.80	409.10	1053.00	1703.90	1262.40	1689.60	1352.10	2413.30	614.30	416.70	
Max	20001.40	952.40	319.10	1818.70	2378.70	4560.00	2330.50	5413.80	2572.20	5584.00	2148.30	1430.80	20001.40
Min	292.90	155.10	102.30	39.30	185.30	506.50	389.80	301.60	555.60	722.90	152.60	129.00	39.30

WATER YEAR : 2011**SOUTHERN PENINSULA WEST COAST****Khlong Nang Noi at Ban Thung Kling , Trang (X.128A)**

Lat 07 - 35 - 28 N Long 99 - 44 - 13 E

Location : on right bank at Ban Thung Kling.

	Ban Thung Kling	Amphoe Na Yong	Changwat Trang
Drainage Area	75 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2008-Cont'd		
Actual Measurement	2008-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	27		
R-Square	0.8947		
Remarks	Continued Sediment Station		

$$QS = 15.0780 QW^{1.30410}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	378.90	7.40	5.30	5.30	10.50	34.60	99.50	427.60	47.20	453.50	65.90	11.60	
2	256.30	6.90	12.20	7.40	16.90	19.30	91.00	152.30	39.90	574.30	81.30	11.60	
3	175.30	6.60	18.70	14.50	15.70	13.30	222.60	86.00	37.70	192.20	52.40	11.10	
4	148.60	18.10	13.30	10.50	11.60	84.50	136.00	52.40	48.50	121.70	23.20	11.10	
5	130.70	12.80	10.00	8.30	9.10	51.10	99.50	42.20	51.10	87.80	19.30	31.30	
6	104.40	9.10	6.90	6.90	6.90	27.20	104.40	34.60	32.50	67.30	17.50	20.60	
7	86.00	8.30	5.30	5.80	6.60	24.00	89.20	53.70	26.00	48.50	16.30	14.50	
8	63.20	7.40	3.80	4.90	5.30	10.00	70.10	43.40	20.60	43.40	15.70	12.80	
9	49.80	6.60	3.80	4.10	3.80	13.30	60.40	36.70	20.00	42.20	15.10	13.30	
10	42.20	6.60	3.10	3.60	2.50	183.70	43.40	71.80	21.20	39.90	12.80	63.20	
11	33.40	6.60	3.80	4.10	1.80	784.30	49.80	70.10	23.20	40.90	18.10	34.60	
12	28.10	8.30	4.60	43.40	1.60	904.50	48.50	53.70	35.50	59.10	15.10	18.10	
13	22.10	7.40	3.80	28.10	1.20	196.40	44.70	42.20	16.90	86.00	12.80	18.70	
14	19.30	6.90	6.90	9.10	8.60	114.70	37.70	35.50	12.80	68.70	16.90	7.40	
15	18.10	6.90	8.60	15.10	35.50	53.70	29.20	44.70	16.90	71.80	16.30	6.90	
16	15.10	6.10	7.70	22.10	10.00	42.20	26.00	49.80	672.20	78.10	15.70	6.10	
17	13.30	8.60	4.90	23.20	81.30	32.50	263.20	43.40	403.70	84.50	13.30	4.10	
18	18.10	7.40	3.80	13.90	17.50	24.00	141.60	33.40	233.70	101.00	11.60	3.80	
19	15.70	13.30	3.60	8.60	9.10	35.50	120.10	29.20	109.70	132.40	10.50	8.30	
20	13.30	13.90	7.70	5.80	18.10	192.20	86.00	26.00	111.30	177.30	9.50	6.90	
21	12.20	12.20	5.80	3.10	34.60	154.30	39.90	550.50	73.20	198.60	9.10	6.60	
22	11.60	10.50	4.10	4.60	31.30	74.90	49.80	646.60	57.70	127.20	10.50	6.10	
23	11.10	9.50	3.60	12.80	37.70	48.50	35.50	489.50	45.90	81.30	11.60	5.30	
24	11.10	7.70	2.90	15.70	47.20	35.50	32.50	1041.60	32.50	68.70	12.80	3.80	
25	10.50	6.10	3.80	23.20	30.10	34.60	28.10	554.60	76.70	44.70	12.80	3.10	
26	9.10	10.50	3.10	9.50	161.80	73.20	89.20	272.40	67.30	36.70	13.30	2.50	
27	7.70	11.60	2.90	9.50	251.70	45.90	51.10	152.30	37.70	23.20	13.90	2.20	
28	7.70	9.50	2.20	16.90	209.40	67.30	59.10	111.30	32.50	16.90	14.50	2.20	
29	7.70	6.90	2.90	25.10	209.40	175.30	76.70	81.30	31.30	23.20	14.50	2.20	
30	7.40	4.10	2.90	16.90	125.20	263.20	173.20	73.20	26.00	23.20		2.20	
31		3.60		14.50	61.80		523.40		47.20	35.50		2.20	
Total	1728.00	267.40	172.00	396.50	1473.80	3813.70	3021.40	5402.00	2508.60	3249.80	572.30	354.40	22959.90
Mean	57.60	8.60	5.70	12.80	47.50	127.10	97.50	180.10	80.90	104.80	19.70	11.40	
Max	378.90	18.10	18.70	43.40	251.70	904.50	523.40	1041.60	672.20	574.30	81.30	63.20	1041.60
Min	7.40	3.60	2.20	3.10	1.20	10.00	26.00	26.00	12.80	16.90	9.10	2.20	1.20

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Khlong Langu at Ban Tha Khian , Satun (X.150)
Lat 06 - 56 - 30 N Long 99 - 52 - 33 E

Location : on right bank at Ban Tha Khian.

	Ban Tha Khian	Amphoe Langu	Changwat Satun
Drainage Area	480 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	1998-Cont'd		
Actual Measurement	1998-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	24		
R-Square	0.7087		
Remarks	Continued Sediment Station		

$$QS = 2.7081 QW^{1.37610}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1668.70	127.20	43.70	48.60	52.30	417.10	281.30	460.90	223.40	314.60	125.00	54.80	
2	622.40	89.00	60.00	48.60	43.70	269.40	217.90	229.10	190.50	1940.10	108.40	43.70	
3	314.60	63.90	93.40	46.10	62.60	193.20	246.10	149.00	169.40	1129.80	110.40	41.40	
4	212.30	131.50	215.00	51.10	56.10	153.50	249.10	118.70	153.50	553.50	94.80	41.40	
5	162.50	125.00	110.40	42.50	42.50	127.20	553.50	122.90	167.10	293.30	87.50	56.10	
6	149.00	120.80	91.90	41.40	40.20	116.60	1321.00	427.10	142.40	223.40	83.20	243.30	
7	171.70	149.00	73.40	41.40	40.20	125.00	514.00	269.40	120.80	185.80	80.40	125.00	
8	120.80	76.20	61.30	40.20	40.20	94.80	296.30	153.50	120.80	169.40	79.00	65.30	
9	97.80	62.60	56.10	40.20	39.00	81.80	237.60	204.00	164.80	155.70	70.70	151.20	
10	87.50	61.30	93.40	40.20	39.00	188.20	193.20	140.20	120.80	169.40	65.30	118.70	
11	80.40	57.40	655.60	40.20	37.90	4395.70	212.30	114.60	129.30	215.00	63.90	77.60	
12	73.40	61.30	257.70	39.00	39.00	11387.80	183.40	133.60	240.40	257.70	62.60	62.60	
13	68.00	63.90	317.70	39.00	39.00	9500.10	151.20	96.30	561.50	1212.00	63.90	53.60	
14	62.60	53.60	169.40	43.70	40.20	4228.00	133.60	87.50	1037.80	1159.00	65.30	48.60	
15	58.70	47.40	112.50	44.90	185.80	806.00	116.60	84.60	323.90	981.40	63.90	43.70	
16	57.40	43.70	94.80	84.60	76.20	374.50	102.30	118.70	272.50	450.70	61.30	40.20	
17	62.60	47.40	80.40	47.40	90.40	311.60	116.60	87.50	673.20	305.40	58.70	37.90	
18	90.40	106.30	89.00	40.20	57.40	320.70	104.30	79.00	767.40	287.30	56.10	42.50	
19	140.20	427.10	93.40	39.00	42.50	467.70	106.30	86.10	757.80	305.40	57.40	36.70	
20	257.70	481.50	79.00	40.20	63.90	757.80	127.20	77.60	467.70	308.40	57.40	42.50	
21	89.00	129.30	70.70	39.00	158.00	420.40	97.80	104.30	320.70	333.20	53.60	48.60	
22	68.00	102.30	58.70	39.00	151.20	290.20	93.40	601.90	263.60	364.80	52.30	36.70	
23	61.30	220.70	53.60	44.90	323.90	260.70	99.30	909.40	226.30	240.40	49.80	32.20	
24	56.10	97.80	49.80	52.30	102.30	195.90	84.60	1575.00	284.20	188.20	44.90	30.10	
25	49.80	47.40	46.10	81.80	630.60	167.10	86.10	2130.20	302.30	164.80	43.70	30.10	
26	44.90	69.30	43.70	52.30	2625.20	622.40	100.80	1978.40	193.20	146.80	41.40	33.30	
27	43.70	68.00	65.30	46.10	2289.70	397.30	110.40	840.40	164.80	133.60	40.20	37.90	
28	42.50	56.10	53.60	158.00	3755.90	272.50	87.50	495.30	153.50	122.90	42.50	54.80	
29	41.40	51.10	52.30	387.50	5034.30	326.90	79.00	381.00	138.00	114.60	51.10	37.90	
30	62.60	47.40	48.60	104.30	4752.20	437.20	193.20	281.30	129.30	133.60		33.30	
31		44.90		69.30	1575.00		498.70		131.50	142.40		53.60	
Total	5118.00	3330.40	3390.50	1973.00	22526.40	37707.30	6994.60	12537.50	9112.40	12702.60	1934.70	1855.30	119182.70
Mean	170.60	107.40	113.00	63.60	726.70	1256.90	225.60	417.90	293.90	409.80	66.70	59.80	
Max	1668.70	481.50	655.60	387.50	5034.30	11387.80	1321.00	2130.20	1037.80	1940.10	125.00	243.30	11387.80
Min	41.40	43.70	43.70	39.00	37.90	81.80	79.00	77.60	120.80	114.60	40.20	30.10	30.10

WATER YEAR : 2011**SOUTHERN PENINSULA WEST COAST****Khlong Ta Kuaw Pa at Ban Hin Dan , Phang Nga (X.187)**

Lat 08 - 46 - 25 N Long 98 - 23 - 36 E

Location : on left bank at the bridge on Surat Thanu - Phang Nga Highway.

	Ban Hin Dan	Amphoe Ta Kuaw Pa	Changwat Phang Nga
Drainage Area	546 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.DH-59		
Period of Available Records	2003-Cont'd		
Actual Measurement	2003-Cont'd		
Using Rating Curve Water Year	2003-2011		
Number of observation	180		
R-Square	0.7667		
Remarks	Continued Sediment Station		

$$QS = 2.4705 QW^{1.27930}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1896.50	232.60	877.00	220.70	716.40	1579.20	4691.70	179.50	94.80	55.90	107.60	55.90	
2	894.10	197.40	1392.70	379.70	605.10	1087.00	4407.90	151.80	140.20	58.70	85.40	55.90	
3	591.50	171.40	1657.40	300.10	537.70	716.40	6455.00	140.20	114.10	76.30	88.50	70.30	
4	458.20	163.50	1170.00	244.60	467.10	945.90	4835.10	163.50	147.90	67.40	82.30	88.50	
5	379.70	155.70	1069.10	220.70	396.90	1235.90	5270.80	187.60	144.00	64.50	73.30	114.10	
6	306.40	179.50	826.10	214.80	379.70	660.30	2757.80	171.40	144.00	61.60	64.50	147.90	
7	312.80	458.20	775.80	256.70	306.40	440.50	1842.80	163.50	132.60	53.10	64.50	121.40	
8	431.70	440.50	702.30	238.50	281.30	467.10	980.80	151.80	117.70	53.10	55.90	159.60	
9	306.40	618.80	730.60	214.80	275.10	440.50	1033.60	155.70	114.10	53.10	73.30	183.50	
10	281.30	2834.10	928.60	214.80	250.60	1280.30	759.20	159.60	107.60	48.80	55.90	136.40	
11	293.80	2834.10	1789.40	244.60	220.70	14864.40	759.20	144.00	97.90	48.80	53.10	121.40	
12	281.30	1484.00	1950.60	281.30	238.50	7953.30	3833.20	354.30	110.80	44.60	53.10	132.60	
13	268.90	1148.30	998.30	458.20	214.80	4549.30	3645.60	306.40	97.90	44.60	88.50	117.70	
14	354.30	688.20	826.10	1950.60	203.10	2174.30	1126.60	226.60	101.10	42.50	94.80	114.10	
15	300.10	577.90	744.90	2560.40	191.60	1392.70	759.20	191.60	97.90	44.60	85.40	88.50	
16	287.60	511.20	877.00	2988.00	197.40	730.60	564.50	171.40	91.60	76.30	91.60	76.30	
17	256.70	646.40	744.90	2560.40	220.70	646.40	440.50	167.50	82.30	91.60	79.30	82.30	
18	226.60	1213.90	702.30	1051.30	203.10	716.40	362.70	151.80	73.30	85.40	147.90	107.60	
19	262.80	998.30	660.30	674.20	197.40	1170.00	362.70	132.60	67.40	101.10	147.90	128.90	
20	268.90	646.40	618.80	524.40	232.60	1950.60	312.80	125.10	67.40	94.80	136.40	114.10	
21	214.80	524.40	632.60	467.10	191.60	945.90	485.10	117.70	64.50	85.40	88.50	107.60	
22	203.10	618.80	591.50	458.20	191.60	646.40	449.30	114.10	64.50	110.80	91.60	97.90	
23	191.60	440.50	537.70	449.30	232.60	524.40	354.30	117.70	70.30	97.90	76.30	104.30	
24	197.40	371.20	577.90	660.30	321.00	730.60	220.70	114.10	67.40	79.30	58.70	79.30	
25	220.70	293.80	458.20	591.50	7586.50	1033.60	191.60	121.40	64.50	67.40	53.10	76.30	
26	203.10	329.30	371.20	660.30	4787.20	8398.30	159.60	125.10	67.40	61.60	53.10	79.30	
27	191.60	306.40	300.10	1148.30	5938.40	5076.20	191.60	110.80	67.40	55.90	58.70	136.40	
28	197.40	281.30	256.70	1631.20	16051.30	4070.50	191.60	107.60	70.30	67.40	53.10	140.20	
29	197.40	256.70	226.60	3833.20	13006.40	3599.00	171.40	97.90	67.40	67.40	48.80	117.70	
30	244.60	388.30	214.80	2380.50	6936.10	3460.10	151.80	97.90	64.50	73.30		101.10	
31		2470.10		1105.00	2651.50		151.80		64.50	114.10		82.30	
Total	10721.30	22481.20	24209.50	29183.70	64230.40	73486.10	47920.50	4720.20	2877.30	2147.30	2311.10	3339.40	287628.10
Mean	357.40	725.20	807.00	941.40	2071.90	2449.50	1545.80	157.30	92.80	69.30	79.70	107.70	
Max	1896.50	2834.10	1950.60	3833.20	16051.30	14864.40	6455.00	354.30	147.90	114.10	147.90	183.50	16051.30
Min	191.60	155.70	214.80	214.80	191.60	440.50	151.80	97.90	64.50	42.50	48.80	55.90	42.50

WATER YEAR : 2011
SOUTHERN PENINSULA WEST COAST
Khlong Bang Yai at Ban Ket Ho , Phuket (X.190A)

Lat 07 - 54 - 13 N Long 98 - 21 - 02 E

Location : on left bank at Ban Ket Ho.

	Ban Ket Ho	Amphoe Kathu	Changwat Phuket
Drainage Area	28 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2006-Cont'd		
Actual Measurement	2006-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	27		
R-Square	0.9124		
Remarks	Continued Sediment Station		

$$QS = 11.8900 QW^{1.68750}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.30	2.40	94.20	3.70	3.40	38.00	46.70	8.20	87.80	0.40	2.20	1.60	
2	97.00	1.60	258.40	5.30	2.50	17.80	48.50	4.70	91.00	0.50	2.10	1.60	
3	28.20	1.30	112.60	5.00	2.50	15.50	579.00	65.50	91.00	0.50	2.10	2.10	
4	3.70	1.30	99.90	4.70	2.50	108.10	309.60	79.40	112.60	0.70	1.90	2.90	
5	6.80	1.10	87.80	4.30	2.40	91.00	1021.60	82.40	108.10	0.90	1.80	5.00	
6	8.50	1.10	65.50	2.90	2.90	42.30	322.50	65.50	99.90	0.90	1.60	2.10	
7	2.90	3.90	39.30	2.40	2.50	32.40	159.00	94.20	97.00	0.90	1.60	1.60	
8	14.00	2.20	4.70	1.90	2.10	19.20	142.70	82.40	94.20	1.30	1.80	2.90	
9	55.40	1.60	1.60	1.90	2.10	9.40	199.00	82.40	79.40	1.10	1.60	5.70	
10	29.40	2.40	1.10	1.90	1.90	7.80	132.30	82.40	65.50	1.10	1.60	2.40	
11	3.90	1.40	1.60	1.90	1.90	27.10	408.30	82.40	63.20	1.10	1.60	2.20	
12	4.30	1.40	3.90	3.90	1.90	71.30	815.50	79.40	79.40	1.10	1.40	2.10	
13	3.90	1.30	2.10	2.90	1.90	39.30	258.40	87.80	82.40	1.10	1.40	1.90	
14	3.40	1.30	1.40	6.20	1.90	17.30	205.30	142.70	40.60	0.90	1.60	1.40	
15	3.10	1.10	1.90	17.30	1.60	6.50	164.30	97.00	11.90	0.90	1.60	0.90	
16	2.40	1.10	1.90	91.00	1.60	3.90	148.20	97.00	30.90	0.70	1.40	0.70	
17	1.30	1.90	2.90	85.10	1.40	4.70	127.50	87.80	10.30	0.70	1.40	0.70	
18	1.60	3.90	10.00	22.30	9.00	6.20	117.20	94.20	25.70	1.80	1.40	0.50	
19	1.60	2.90	13.30	2.90	10.90	8.50	127.50	82.40	53.20	5.00	39.30	7.80	
20	2.20	2.20	11.30	2.50	3.90	8.50	99.90	79.40	36.40	3.40	7.80	33.60	
21	1.90	1.40	5.30	4.30	3.40	6.50	99.90	79.40	19.20	14.40	5.70	1.10	
22	1.60	1.30	2.50	8.20	4.30	5.00	91.00	76.30	15.10	68.40	3.40	0.90	
23	2.40	1.10	2.10	7.30	1.80	3.90	79.40	34.80	6.20	25.70	1.60	0.70	
24	1.60	1.10	2.20	10.90	85.10	3.40	91.00	39.30	1.90	11.30	1.80	0.50	
25	1.60	1.10	2.10	6.80	1537.80	4.30	82.40	19.70	0.90	7.80	1.80	0.70	
26	1.40	1.40	2.10	5.70	350.70	40.60	11.30	45.30	0.70	2.50	1.60	2.10	
27	1.10	1.30	2.20	8.50	199.00	246.60	14.00	73.80	0.70	2.20	1.60	0.90	
28	1.10	1.30	3.40	8.20	234.30	99.90	9.00	82.40	0.70	2.20	1.60	0.90	
29	1.60	1.90	378.20	4.30	222.90	63.20	8.50	73.80	0.70	2.20	1.60	1.60	
30	1.60	1.60	21.00	4.30	122.30	43.90	8.20	94.20	0.50	1.90		11.90	
31		2.10		3.90	79.40		10.00		0.50	2.10		1.10	
Total	301.80	53.00	1236.50	342.40	2901.80	1092.10	5937.70	2196.20	1407.60	165.70	97.90	102.10	15834.80
Mean	10.10	1.70	41.20	11.00	93.60	36.40	191.50	73.20	45.40	5.30	3.40	3.30	
Max	97.00	3.90	378.20	91.00	1537.80	246.60	1021.60	142.70	112.60	68.40	39.30	33.60	1537.80
Min	1.10	1.10	1.10	1.90	1.40	3.40	8.20	4.70	0.50	0.40	1.40	0.50	0.40

WATER YEAR : 2011**SOUTHERN PENINSULA WEST COAST****Khlong Nang Noi at Ban Khaow Saae (2) , Trang (X.229)**

Lat 07 - 32 - 53 N Long 99 - 44 - 40 E

Location : on left bank at Ban Khaow Sea 2.

	Ban	Khaow Saae (2)	Amphoe	Na Yong	Changwat	Trang
Drainage Area	158	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2005-Cont'd					
Actual Measurement	2005-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	24					
R-Square	0.7283					
Remarks	Continued Sediment Station					

$$QS = 4.8481 QW^{1.83830}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	234.10	7.90	10.20	4.30	23.30	14.00	59.20	195.00	31.80	292.90	35.60	8.90	
2	152.20	10.20	9.60	4.30	24.20	8.30	42.80	14.00	25.70	337.80	24.60	7.60	
3	144.60	12.20	8.40	4.70	26.10	14.00	63.10	30.50	21.40	108.40	22.40	7.10	
4	96.20	17.30	7.90	5.60	17.30	34.30	55.30	18.30	23.50	63.10	20.30	7.60	
5	74.50	10.90	7.40	6.00	11.50	14.00	42.80	19.30	18.30	44.50	18.30	13.10	
6	52.40	20.70	6.50	3.60	3.60	9.60	37.00	15.60	15.60	37.00	16.40	11.60	
7	53.70	10.20	6.00	3.60	2.00	9.60	30.50	17.30	14.00	33.00	15.60	6.50	
8	48.50	9.60	6.00	3.90	1.50	7.60	25.70	15.60	12.40	28.10	16.40	9.60	
9	47.20	8.40	6.00	2.90	1.50	4.50	22.40	13.10	11.60	26.90	14.70	8.30	
10	43.50	8.40	5.60	3.30	1.50	19.30	18.30	12.40	11.60	35.60	14.00	13.10	
11	40.00	9.00	5.60	6.90	1.50	1619.60	22.40	15.60	29.30	41.10	14.00	7.60	
12	37.70	9.00	5.60	7.90	2.00	613.70	19.30	11.00	21.40	75.70	12.40	7.60	
13	28.10	7.90	7.40	8.40	1.50	73.60	14.00	10.30	14.00	55.30	12.40	7.60	
14	27.10	7.40	18.10	16.50	31.10	34.30	15.60	11.00	11.00	39.70	13.10	5.50	
15	31.10	7.90	10.20	30.10	25.20	19.30	15.60	16.40	12.40	92.40	12.40	6.00	
16	32.20	10.90	9.00	5.60	8.40	18.30	18.30	14.00	176.20	41.10	11.60	5.50	
17	30.10	10.90	9.00	6.00	19.80	17.30	59.20	11.60	216.10	25.70	11.60	4.00	
18	31.10	7.90	7.90	15.80	14.30	14.70	16.40	11.00	122.70	23.50	11.00	4.50	
19	31.10	8.40	7.40	2.90	2.90	22.40	17.30	9.60	67.20	21.40	9.60	4.50	
20	22.40	10.90	7.40	2.00	5.10	65.20	19.30	11.00	51.60	69.30	9.60	4.00	
21	19.80	11.50	6.90	2.00	35.40	34.30	13.10	282.10	38.30	46.20	9.60	7.60	
22	19.00	10.90	6.00	2.00	29.10	25.70	13.10	388.80	38.30	41.10	8.30	4.50	
23	15.80	7.90	5.60	2.30	31.10	23.50	10.30	235.60	29.30	29.30	7.60	4.00	
24	13.60	7.40	4.70	3.30	23.30	17.30	11.00	677.50	28.10	28.10	7.10	4.00	
25	11.50	9.00	4.70	7.90	22.40	10.30	10.30	460.00	46.20	23.50	6.50	4.00	
26	11.50	12.20	4.70	23.30	29.10	8.30	11.60	100.40	31.80	22.40	9.60	3.60	
27	11.50	10.90	6.90	23.30	160.00	165.30	12.40	85.00	30.50	19.30	5.50	4.50	
28	10.90	7.90	4.70	24.20	471.40	30.50	38.30	61.10	26.90	18.30	6.50	4.00	
29	10.90	7.40	5.10	30.10	75.70	51.60	21.40	44.50	22.40	17.30	8.30	4.00	
30	10.90	6.90	4.70	25.20	42.80	37.00	65.20	35.60	26.90	19.30		4.00	
31		7.90		24.20	21.40		287.80		42.80	46.20		4.00	
Total	1393.20	305.90	215.20	312.10	1166.00	3037.40	1109.00	2843.20	1269.30	1803.50	385.00	198.40	14038.20
Mean	46.40	9.90	7.20	10.10	37.60	101.20	35.80	94.80	40.90	58.20	13.30	6.40	
Max	234.10	20.70	18.10	30.10	471.40	1619.60	287.80	677.50	216.10	337.80	35.60	13.10	1619.60
Min	10.90	6.90	4.70	2.00	1.50	4.50	10.30	9.60	11.00	17.30	5.50	3.60	1.50

WATER YEAR : 2011**SOUTHERN PENINSULA WEST COAST****Khlong Lam Phikul at Ban Pak Khlong , Trang (X.235)**

Lat 07 - 24 - 37 N Long 99 - 46 - 00 E

Location : on right bank at Ban Pak Khlong.

	Ban Pak Khlong	Amphoe Yan Ta Khaow	Changwat Trang
Drainage Area	116 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	19		
R-Square	0.7609		
Remarks	Continued Sediment Station		

$$QS = 2.0096 QW^{1.54490}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	554.30	31.90	26.70	31.90	60.90	220.40	120.60	201.50	153.00	748.30	163.00	7.60	
2	449.10	30.50	38.90	30.50	59.00	194.30	153.00	128.90	153.00	430.60	112.70	7.60	
3	383.70	33.30	40.30	34.60	62.80	173.20	236.20	107.50	123.40	212.70	55.20	7.00	
4	273.20	46.40	43.40	43.40	51.60	134.40	212.70	92.30	110.00	156.30	40.30	6.50	
5	220.40	48.00	53.30	33.30	43.40	112.70	149.80	115.40	107.50	99.80	34.60	6.50	
6	197.90	40.30	60.90	27.90	38.90	112.70	159.70	131.60	89.90	89.90	31.90	11.70	
7	190.70	37.50	48.00	25.40	38.90	104.90	216.50	81.10	78.90	85.30	30.50	34.60	
8	149.80	34.60	46.40	24.10	36.10	87.50	216.50	85.30	74.80	120.60	29.20	6.50	
9	134.40	31.90	40.30	22.90	36.10	83.10	220.40	87.50	87.50	140.10	27.90	3.80	
10	134.40	29.20	40.30	21.70	36.10	240.30	208.80	68.70	83.10	180.20	27.90	11.70	
11	120.60	33.30	48.00	20.50	38.90	1795.80	140.10	78.90	110.00	176.70	22.90	15.50	
12	110.00	36.10	43.40	38.90	60.90	2547.60	236.20	70.70	149.80	244.30	21.70	11.00	
13	92.30	33.30	74.80	44.90	48.00	715.00	346.20	60.90	72.80	351.50	21.70	11.00	
14	72.80	27.90	78.90	51.60	60.90	394.60	400.70	87.50	44.90	346.20	20.50	11.70	
15	68.70	25.40	70.70	104.90	102.30	295.30	461.50	110.00	78.90	220.40	20.50	14.70	
16	68.70	25.40	72.80	99.80	72.80	212.70	512.30	97.30	418.50	99.80	20.50	15.50	
17	74.80	25.40	85.30	59.00	74.80	183.70	449.10	74.80	351.50	112.70	18.80	17.10	
18	78.90	30.50	92.30	44.90	51.60	169.80	173.20	70.70	212.70	143.30	16.30	16.30	
19	305.10	44.90	92.30	36.10	59.00	277.40	123.40	74.80	146.50	110.00	31.90	15.50	
20	99.80	51.60	94.80	29.20	107.50	568.80	104.90	83.10	131.60	216.50	17.10	10.20	
21	76.90	83.10	51.60	26.70	169.80	412.40	89.90	576.00	104.90	256.60	12.40	15.50	
22	72.80	62.80	44.90	29.20	126.20	346.20	83.10	583.40	107.50	153.00	11.00	24.10	
23	66.70	53.30	38.90	48.00	166.40	244.30	78.90	698.60	85.30	110.00	11.00	29.20	
24	60.90	48.00	34.60	60.90	153.00	190.70	120.60	1053.60	99.80	87.50	9.60	33.30	
25	55.20	59.00	31.90	49.80	362.20	169.80	146.50	1642.00	123.40	74.80	8.30	19.60	
26	49.80	51.60	31.90	57.10	539.90	163.00	131.60	682.30	89.90	66.70	8.30	5.90	
27	51.60	51.60	30.50	59.00	690.30	159.70	97.30	424.60	81.10	62.80	8.30	0.50	
28	46.40	64.80	30.50	55.20	782.20	153.00	99.80	315.40	70.70	74.80	8.30	2.70	
29	37.50	62.80	30.50	72.80	945.70	149.80	128.90	248.40	72.80	102.30	7.60	5.00	
30	36.10	40.30	27.90	78.90	583.40	169.80	277.40	190.70	74.80	110.00		5.90	
31		31.90		70.70	330.70		252.40		118.00	180.20		5.90	
Total	4333.50	1306.60	1545.00	1433.80	5990.30	10782.90	6348.20	8323.50	3806.50	5563.90	849.90	389.60	50673.70
Mean	144.40	42.10	51.50	46.30	193.20	359.40	204.80	277.50	122.80	179.50	29.30	12.60	
Max	554.30	83.10	94.80	104.90	945.70	2547.60	512.30	1642.00	418.50	748.30	163.00	34.60	2547.60
Min	36.10	25.40	26.70	20.50	36.10	83.10	78.90	60.90	44.90	62.80	7.60	0.50	0.50

WATER YEAR : 2011**SOUTHERN PENINSULA WEST COAST****Khlong Duson at Ban Cha Lung Nua , Satun (X.239)**

Lat 06 - 43 - 38 N Long 100 - 03 - 50 E

Location : on right bank at Ban Cha Lung Nua.

	Ban	Cha Lung Nua	Amphoe	Mueang	Changwat	Satun
Drainage Area	267	sq.km.				
Method of sampling	Depth Integrating					
Instrument Used	US.D-49					
Period of Available Records	2005-Cont'd					
Actual Measurement	2005-Cont'd					
Using Rating Curve Water Year	2011					
Number of observation	23					
R-Square	0.7336					
Remarks	Continued Sediment Station					

$$QS = 2.5358 QW^{1.51710}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	209.50	56.30	26.00	19.50	14.80	179.90	168.60	49.20	71.60	227.90	73.60	37.70	
2	154.80	83.90	52.70	15.90	10.60	104.10	141.20	45.70	61.80	653.70	67.60	34.60	
3	92.70	37.70	49.20	18.30	8.60	79.60	111.10	37.70	54.50	206.40	67.60	34.60	
4	61.80	61.80	83.90	33.10	26.00	67.60	120.70	34.60	51.00	106.40	61.80	36.10	
5	56.30	73.60	75.60	27.40	15.90	111.10	130.80	36.10	294.70	83.90	58.20	51.00	
6	49.20	40.80	144.00	18.30	10.60	65.80	174.20	63.80	97.20	69.50	56.30	125.60	
7	90.50	36.10	56.30	14.80	9.60	61.80	144.00	65.80	69.50	61.80	51.00	73.60	
8	77.50	24.70	44.10	13.70	8.60	75.60	101.80	79.60	60.00	56.30	49.20	47.40	
9	40.80	22.00	31.70	12.60	6.80	58.20	94.90	79.60	65.80	58.20	45.70	63.80	
10	33.10	19.50	33.10	10.60	6.00	51.00	77.50	49.20	52.70	90.50	45.70	47.40	
11	28.80	23.30	69.50	9.60	8.60	693.70	94.90	44.10	65.80	104.10	45.70	42.40	
12	27.40	26.00	49.20	8.60	14.80	2413.60	77.50	39.20	65.80	104.10	45.70	36.10	
13	24.70	47.40	61.80	8.60	9.60	1162.50	65.80	33.10	58.20	933.70	44.10	34.60	
14	20.80	30.20	51.00	8.60	13.70	594.40	60.00	31.70	69.50	459.80	40.80	31.70	
15	19.50	23.30	37.70	8.60	97.20	334.10	52.70	30.20	45.70	200.60	40.80	30.20	
16	18.30	42.40	31.70	10.60	20.80	231.00	45.70	34.60	65.80	141.20	40.80	30.20	
17	15.90	42.40	27.40	7.70	111.10	177.20	61.80	31.70	111.10	136.00	42.40	27.40	
18	15.90	42.40	37.70	6.80	52.70	136.00	51.00	28.80	79.60	123.20	47.40	27.40	
19	40.80	47.40	40.80	5.20	26.00	130.80	56.30	28.80	75.60	157.40	51.00	24.70	
20	26.00	27.40	28.80	5.20	81.80	113.50	88.30	40.80	58.20	382.80	45.70	20.80	
21	20.80	28.80	24.70	5.20	133.30	106.40	75.60	52.70	51.00	185.70	42.40	22.00	
22	22.00	26.00	20.80	6.00	67.60	90.50	63.80	104.10	71.60	191.60	40.80	15.90	
23	22.00	26.00	24.70	5.20	71.60	79.60	51.00	123.20	58.20	177.20	39.20	13.70	
24	18.30	22.00	34.60	5.20	51.00	63.80	42.40	723.10	49.20	123.20	37.70	12.60	
25	13.70	24.70	26.00	11.60	108.70	56.30	49.20	468.70	45.70	104.10	36.10	12.60	
26	12.60	26.00	23.30	9.60	323.20	73.60	47.40	247.10	42.40	94.90	34.60	12.60	
27	18.30	26.00	19.50	6.80	459.80	154.80	42.40	224.70	39.20	86.10	34.60	15.90	
28	14.80	24.70	17.10	11.60	459.80	505.60	39.20	146.60	37.70	79.60	37.70	14.80	
29	14.80	23.30	22.00	27.40	562.80	729.10	36.10	104.10	33.10	75.60	47.40	19.50	
30	14.80	27.40	33.10	30.20	789.60	257.10	36.10	86.10	37.70	73.60		20.80	
31		26.00		23.30	323.20		45.70		39.20	73.60		19.50	
Total	1276.40	1089.50	1278.00	405.80	3904.40	8958.30	2447.70	3164.70	2079.10	5622.70	1371.60	1037.20	32635.40
Mean	42.50	35.10	42.60	13.10	125.90	298.60	79.00	105.50	67.10	181.40	47.30	33.50	
Max	209.50	83.90	144.00	33.10	789.60	2413.60	174.20	723.10	294.70	933.70	73.60	125.60	2413.60
Min	12.60	19.50	17.10	5.20	6.00	51.00	36.10	28.80	33.10	56.30	34.60	12.60	5.20

WATER YEAR : 2011**SOUTHERN PENINSULA WEST COAST****Khlong Phangnga at Ban Bang Tong , Phangnga (X.245)**

Lat 08 - 30 - 49 N Long 98 - 30 - 15 E

Location : on right bank at Ban Bang Tong.

	Ban Bang Tong	Amphoe Mueang	Changwat Phangnga
Drainage Area	242 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2005-Cont'd		
Actual Measurement	2005-Cont'd		
Using Rating Curve Water Year	2005-2011		
Number of observation	179		
R-Square	0.731		
Remarks	Continued Sediment Station		

$$QS = 3.5623 QW^{1.46410}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	388.10	157.50	324.60	148.00	279.90	578.50	1705.70	112.20	108.00	55.20	81.80	33.50	
2	417.80	167.10	287.20	138.80	251.20	407.90	2335.10	112.20	103.70	52.10	81.80	33.50	
3	368.40	157.50	945.60	129.70	237.30	309.50	3146.30	103.70	99.90	52.10	74.80	22.10	
4	324.60	157.50	511.30	120.80	223.60	279.90	2533.30	103.70	96.20	49.10	71.40	58.30	
5	279.90	152.60	490.00	112.20	210.20	265.40	1862.80	99.90	96.20	49.10	68.10	71.40	
6	265.40	176.90	479.30	103.70	157.50	244.20	1603.40	96.20	92.50	49.10	68.10	61.50	
7	340.00	244.20	469.00	108.00	148.00	216.90	1303.80	92.50	88.90	46.10	96.20	55.20	
8	378.20	397.90	309.50	112.20	138.80	203.60	763.50	88.90	88.90	46.10	96.20	52.10	
9	309.50	521.90	265.40	112.20	134.10	181.90	675.20	85.30	81.80	43.20	88.90	49.10	
10	265.40	555.10	279.90	134.10	134.10	359.00	614.20	81.80	78.30	37.60	81.80	55.20	
11	251.20	712.60	578.50	251.20	129.70	897.70	578.50	81.80	74.80	37.60	74.80	61.50	
12	251.20	650.60	1415.40	650.60	129.70	662.90	804.50	74.80	74.80	43.20	68.10	71.40	
13	210.20	317.00	1093.50	511.30	129.70	469.00	650.60	88.90	71.40	49.10	61.50	92.50	
14	197.00	143.40	776.40	458.50	125.30	417.80	700.10	81.80	68.10	55.20	55.20	125.30	
15	181.90	68.10	725.30	789.40	120.80	397.90	532.80	92.50	64.80	61.50	55.20	88.90	
16	148.00	23.90	638.40	638.40	120.80	438.00	397.90	116.40	61.50	68.10	55.20	81.80	
17	134.10	0.20	555.10	397.90	112.20	407.90	332.30	112.20	58.30	64.80	52.10	74.80	
18	129.70	15.40	1060.30	287.20	103.70	368.40	302.00	134.10	61.50	88.90	52.10	68.10	
19	129.70	43.20	532.80	237.30	96.20	407.90	258.30	112.20	61.50	96.20	49.10	96.20	
20	129.70	46.10	521.90	216.90	88.90	675.20	237.30	108.00	58.30	78.30	49.10	88.90	
21	120.80	7.00	388.10	138.80	88.90	479.30	223.60	103.70	55.20	68.10	49.10	81.80	
22	116.40	0.00	317.00	244.20	210.20	397.90	210.20	99.90	55.20	61.50	49.10	37.60	
23	116.40	0.00	479.30	244.20	197.00	294.60	197.00	96.20	58.30	58.30	49.10	61.50	
24	108.00	0.00	378.20	237.30	210.20	251.20	181.90	88.90	61.50	55.20	49.10	61.50	
25	103.70	0.00	294.60	230.40	210.20	332.30	176.90	85.30	61.50	55.20	49.10	58.30	
26	96.20	0.00	265.40	223.60	317.00	521.90	152.60	81.80	58.30	52.10	46.10	55.20	
27	88.90	0.00	251.20	294.60	789.40	866.30	134.10	81.80	61.50	49.10	46.10	55.20	
28	81.80	0.00	223.60	700.10	789.40	850.80	134.10	78.30	68.10	49.10	46.10	52.10	
29	74.80	0.00	191.80	776.40	977.90	1173.80	125.30	74.80	61.50	55.20	18.70	52.10	
30	68.10	0.00	152.60	543.50	789.40	1438.00	120.80	71.40	55.20	68.10		49.10	
31		700.10		407.90	866.30		116.40		55.20	96.20		49.10	
Total	6075.10	5415.80	15201.20	9699.40	8517.60	14795.60	23110.50	2841.20	2240.90	1790.70	1784.00	1954.80	93426.80
Mean	202.50	174.70	506.70	312.90	274.80	493.20	745.50	94.70	72.30	57.80	61.50	63.10	
Max	417.80	712.60	1415.40	789.40	977.90	1438.00	3146.30	134.10	108.00	96.20	96.20	125.30	3146.30
Min	68.10	0.00	152.60	103.70	88.90	181.90	116.40	71.40	55.20	37.60	18.70	22.10	0.00

WATER YEAR : 2011**SOUTHERN PENINSULA WEST COAST****Lower Khlong Tha Prae at Ban Ta Lam , Satun (X.264)**

Lat 06 - 47 - 46 N Long 99 - 57 - 17 E

Location : on right bank at Ban Ta Lam.

	Ban Ta Lam	Amphoe Tha Pae	Changwat Satun
Drainage Area	223 sq.km.		
Method of sampling	Depth Integrating		
Instrument Used	US.D-49		
Period of Available Records	2009-Cont'd		
Actual Measurement	2009-Cont'd		
Using Rating Curve Water Year	2011		
Number of observation	24		
R-Square	0.8356		
Remarks	Continued Sediment Station		

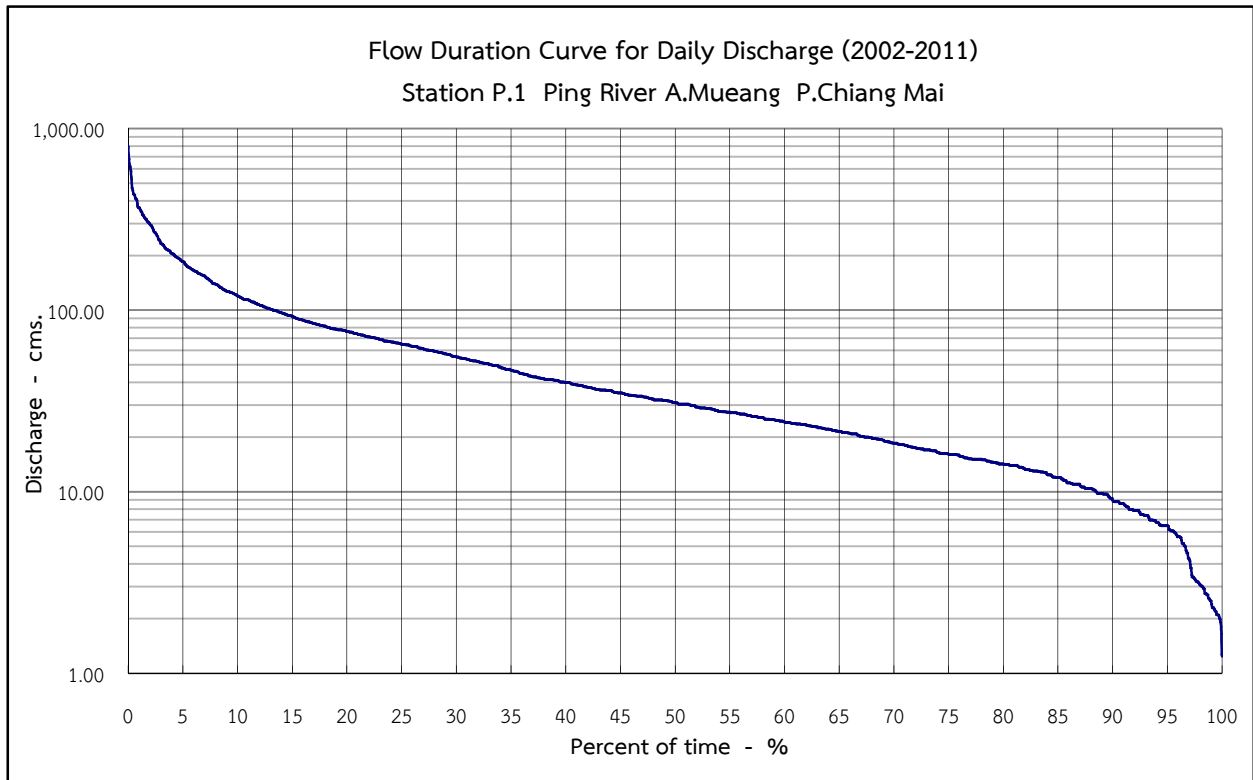
$$QS = 4.8380 QW^{1.35330}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2011 to 31 March 2012

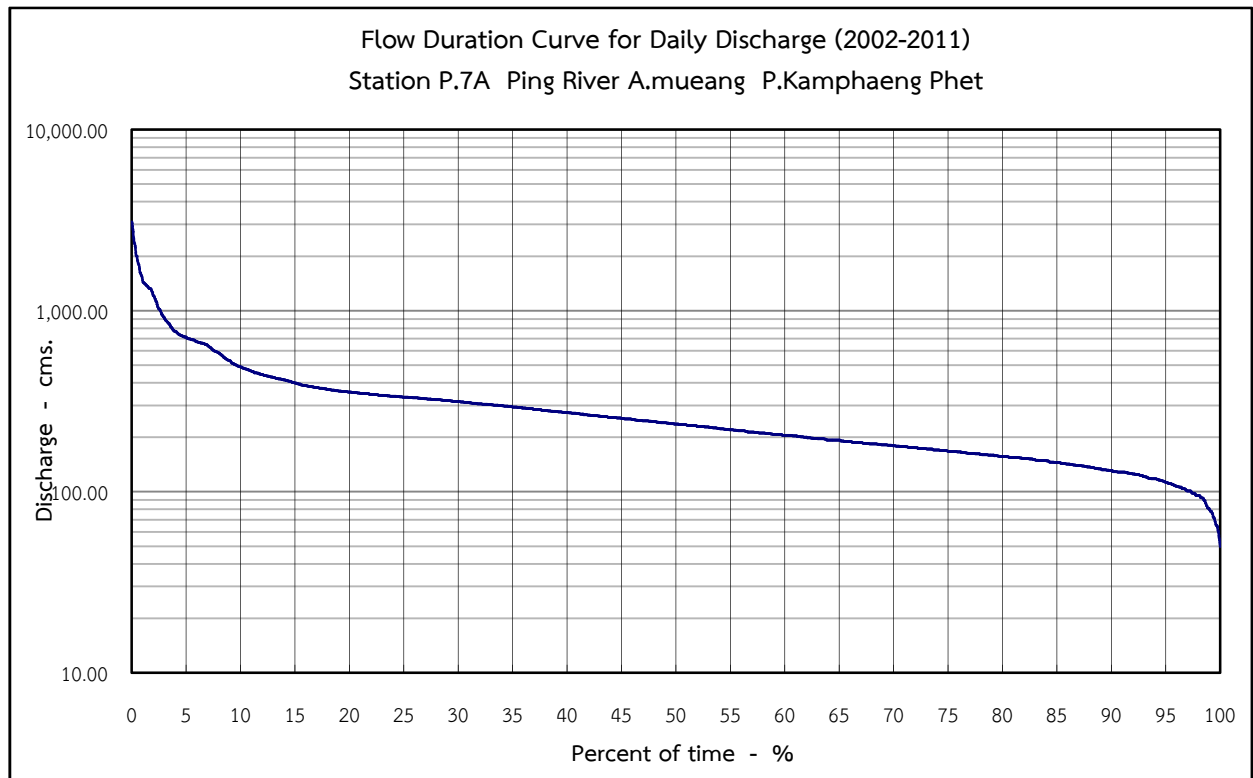
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	98.60	42.70	5.80	17.90	19.90	422.70	142.20	35.50	42.70	147.30	21.90	13.50	
2	95.20	27.00	18.60	17.90	18.60	356.50	100.40	37.30	42.70	216.00	21.20	12.40	
3	80.10	18.60	14.80	17.30	10.70	249.60	76.90	36.40	41.80	160.20	18.60	12.40	
4	72.10	17.30	39.10	17.30	8.40	160.20	78.50	33.70	40.90	133.60	17.90	14.80	
5	19.20	12.40	33.70	19.90	6.50	106.00	80.10	33.70	33.70	62.20	16.00	14.80	
6	40.00	14.80	29.50	12.40	4.80	59.70	76.90	39.10	30.30	25.30	16.00	13.50	
7	39.10	12.40	18.60	12.40	4.50	33.70	75.30	41.80	32.00	24.60	14.80	13.50	
8	42.70	23.90	10.70	11.50	4.20	33.70	81.80	42.70	32.00	23.90	14.80	14.80	
9	32.00	26.20	100.40	4.80	3.60	33.70	83.40	51.00	98.60	22.60	16.60	13.50	
10	18.60	18.60	25.30	4.80	3.60	33.70	73.70	39.10	67.30	32.00	27.00	12.40	
11	17.30	18.60	54.70	4.80	5.20	10536.00	67.30	37.30	45.00	32.00	17.90	13.50	
12	12.40	17.30	33.70	4.80	4.80	7462.20	75.30	35.50	25.30	42.70	14.80	13.50	
13	11.90	12.40	33.70	4.80	4.50	1240.40	59.70	35.50	25.30	1394.90	13.50	13.50	
14	10.70	14.80	22.60	4.80	4.20	578.60	54.70	33.70	23.90	910.20	13.50	13.50	
15	10.30	39.10	18.60	4.80	6.90	282.60	51.00	33.70	30.30	278.80	14.80	12.40	
16	8.40	46.20	17.90	4.80	12.40	165.50	49.80	33.70	40.00	113.70	14.80	13.50	
17	13.50	64.80	12.40	4.80	48.60	135.60	49.80	32.00	25.30	93.50	17.30	13.50	
18	12.40	76.90	16.00	4.80	88.40	119.60	46.20	40.90	24.60	68.90	17.30	13.50	
19	16.60	25.30	17.30	4.50	36.40	115.70	45.00	52.20	25.30	66.10	14.80	14.80	
20	25.30	42.70	17.30	4.80	12.40	100.40	54.70	49.80	25.30	95.20	14.80	14.80	
21	42.70	45.00	16.60	3.60	11.50	90.10	51.00	76.90	23.90	106.00	14.10	16.60	
22	42.70	40.90	12.40	4.80	34.60	75.30	49.80	81.80	22.60	86.80	17.30	16.00	
23	27.00	30.30	30.30	4.80	66.10	49.80	47.40	139.70	19.90	66.10	16.60	14.80	
24	16.00	17.90	26.20	4.80	62.20	54.70	47.40	519.60	18.60	45.00	16.00	14.80	
25	5.50	12.40	12.40	3.30	135.60	88.40	38.20	417.90	18.60	28.60	14.80	25.30	
26	5.50	12.40	12.40	17.90	1686.00	271.30	39.10	532.10	17.30	28.60	14.10	23.90	
27	4.80	10.70	12.40	18.60	804.50	613.10	39.10	464.50	16.00	32.00	13.50	13.50	
28	8.40	9.50	11.10	18.60	705.90	282.60	37.30	452.40	14.80	27.80	12.90	12.40	
29	10.30	12.40	10.70	23.30	613.10	91.80	35.50	108.00	11.90	21.20	12.40	12.40	
30	12.40	9.90	10.30	33.70	525.80	31.20	34.60	53.40	11.10	15.40		12.40	
31		7.60		17.30	434.60		33.70		11.10	14.10		12.40	
Total	851.70	781.00	695.50	334.60	5388.50	23874.40	1875.80	3620.90	938.10	4415.30	470.00	446.60	43692.40
Mean	28.40	25.20	23.20	10.80	173.80	795.80	60.50	120.70	30.30	142.40	16.20	14.40	
Max	98.60	76.90	100.40	33.70	1686.00	10536.00	142.20	532.10	98.60	1394.90	27.00	25.30	10536.00
Min	4.80	7.60	5.80	3.30	3.60	31.20	33.70	32.00	11.10	14.10	12.40	12.40	3.30

Appendix A

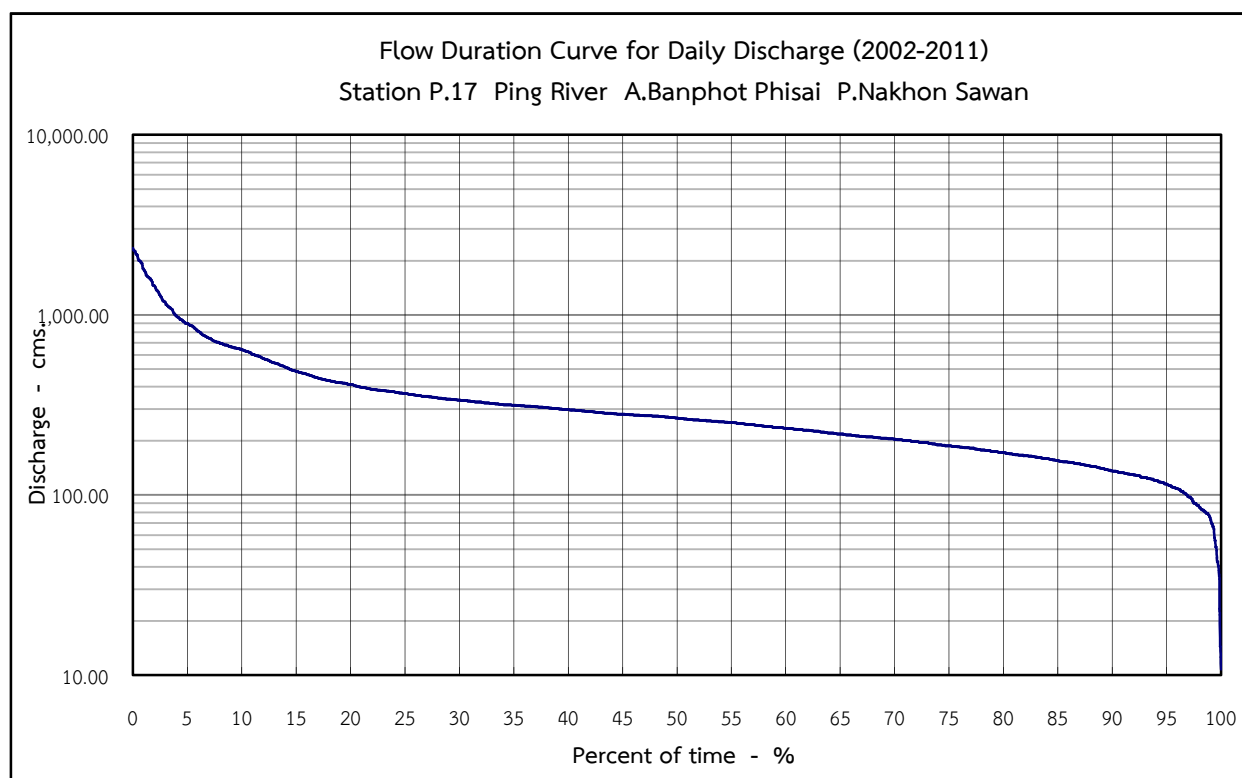
Flow Duration Curve for Daily Discharge
(2002-2011)



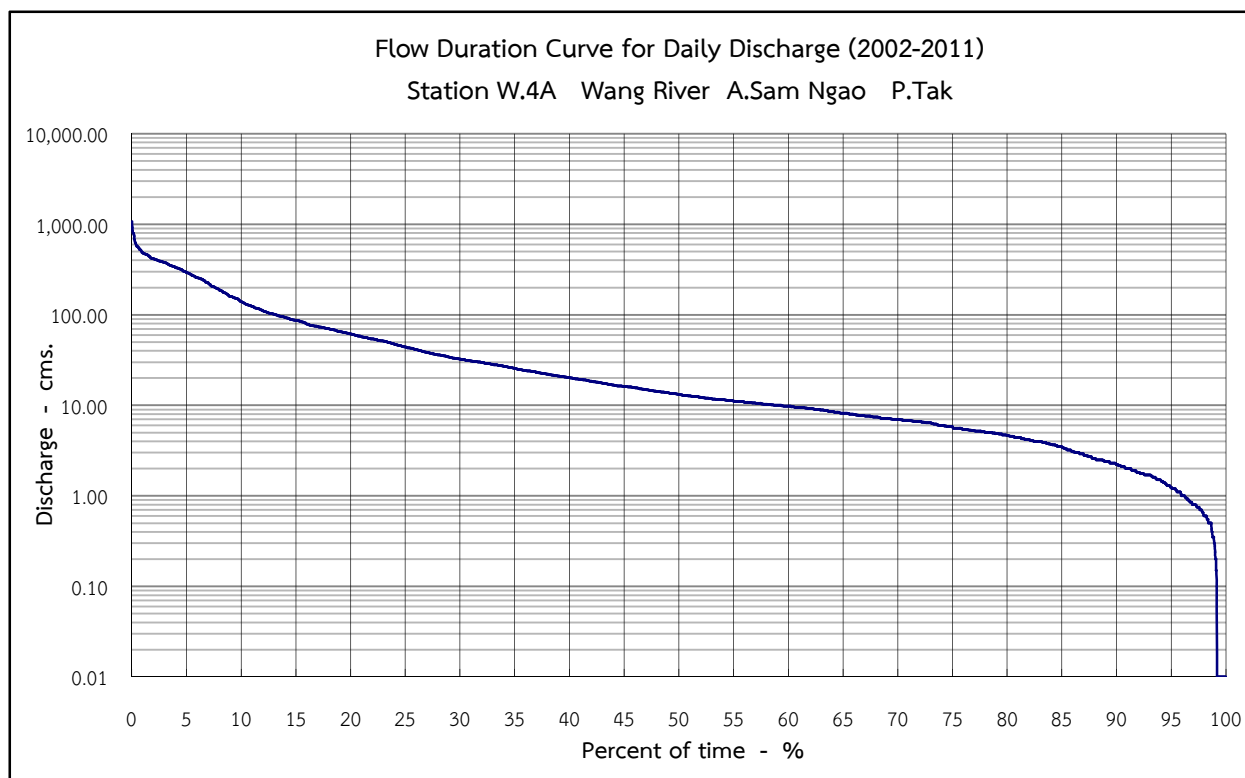
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	367.5	119.6	76.5	55.5	31.0	24.3	14.2	12.0	9.0	6.5	1.2



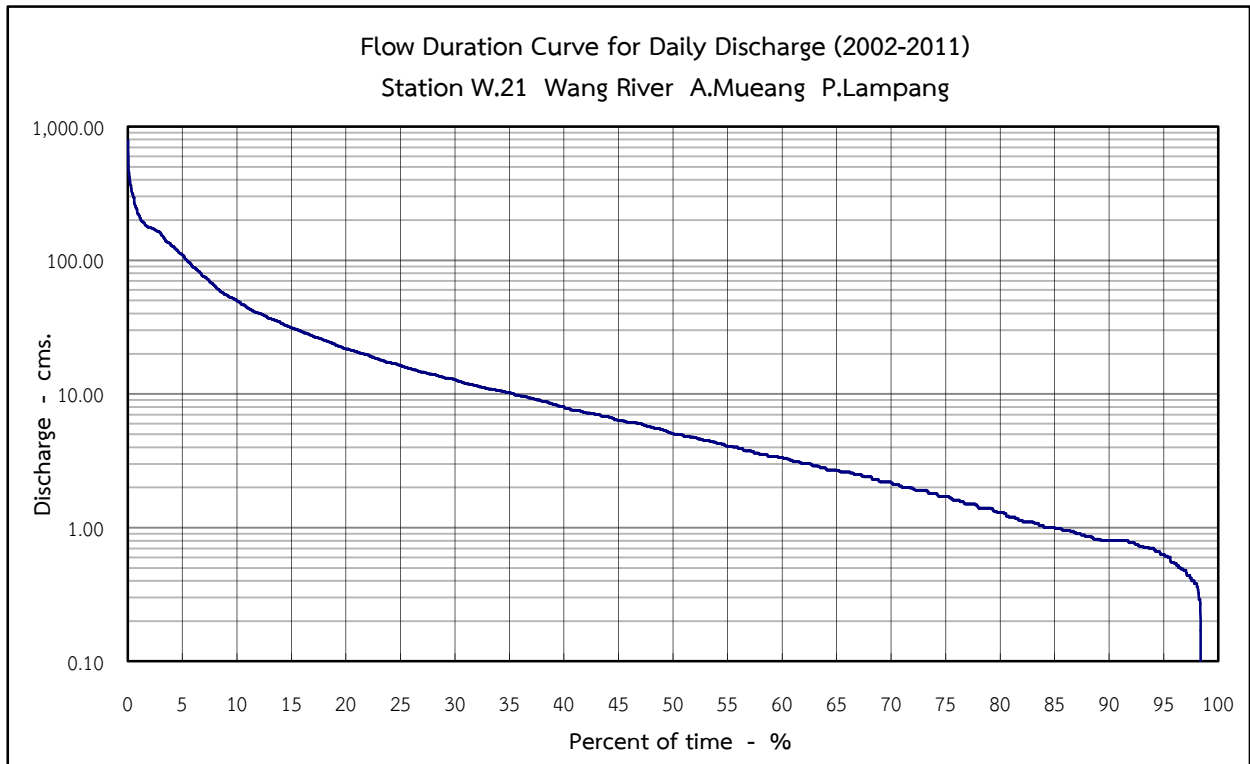
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,460.9	488.5	355.5	315.3	236.5	205.2	156.5	145.5	131.2	113.3	49.8



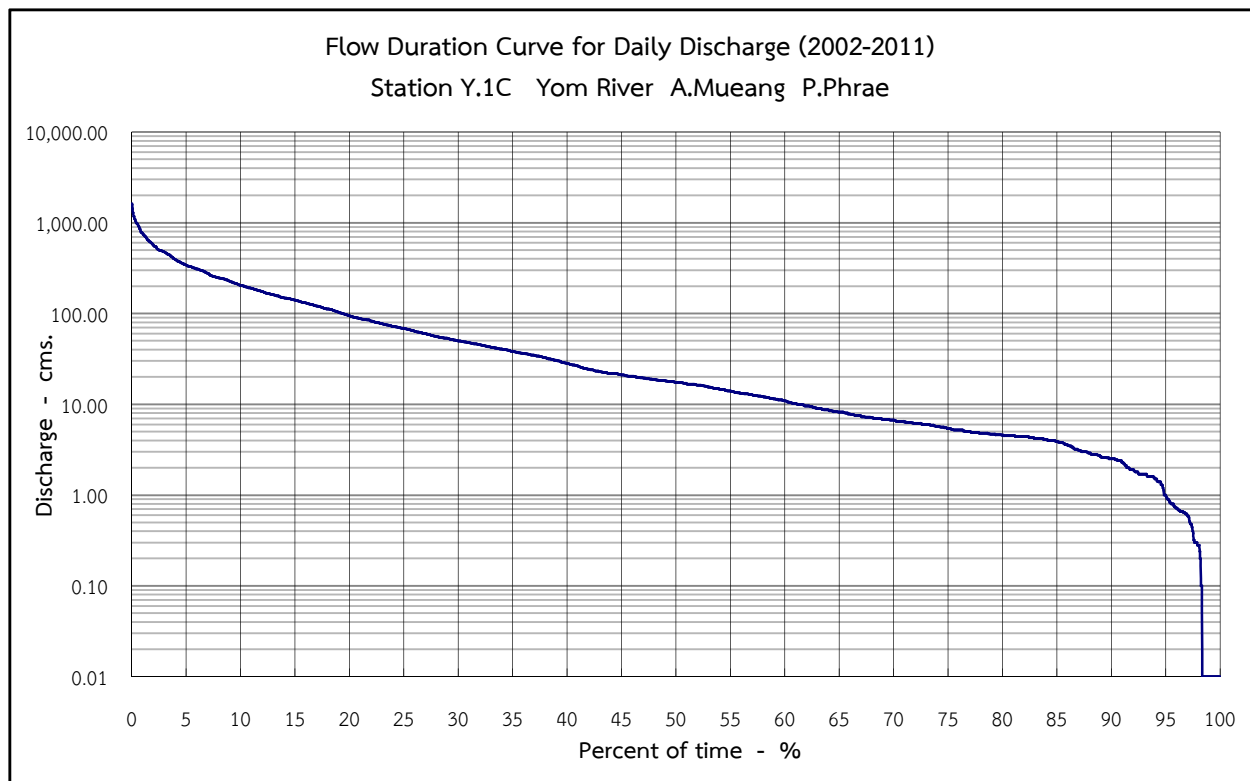
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,790.3	640.0	410.0	337.0	267.5	235.0	171.9	155.2	136.0	114.6	10.8



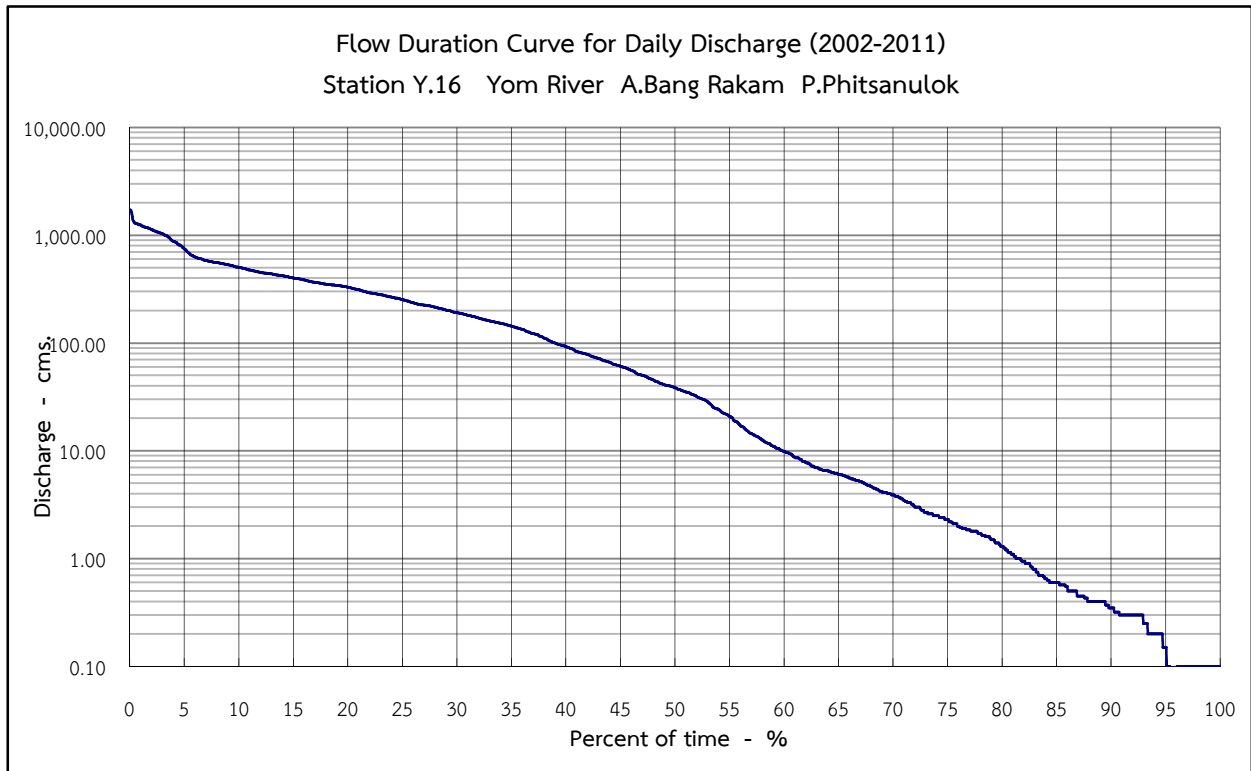
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	484.3	139.5	61.5	32.4	13.2	9.8	4.7	3.4	2.2	1.2	0.0



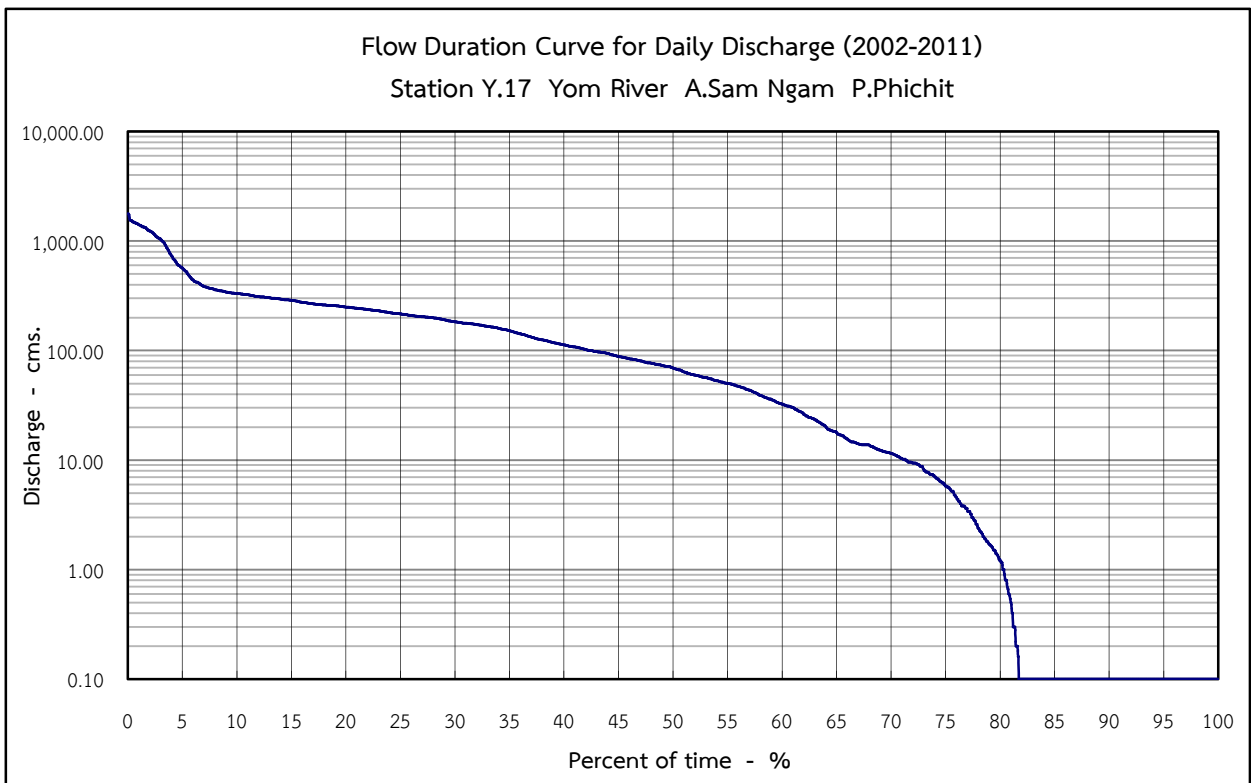
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	219.5	49.8	21.8	12.8	5.0	3.4	1.3	1.0	0.8	0.6	0.0



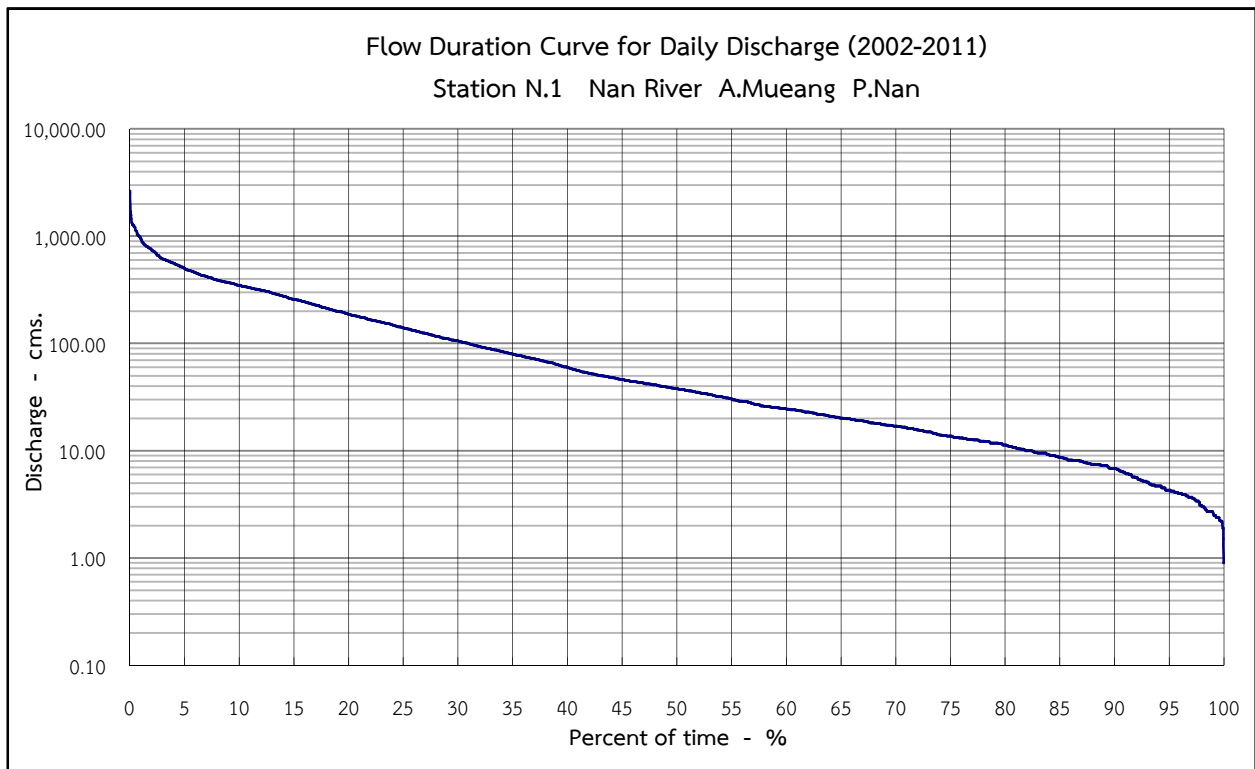
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	758.7	204.5	94.5	49.9	17.4	10.9	4.6	3.9	2.5	1.0	0.0



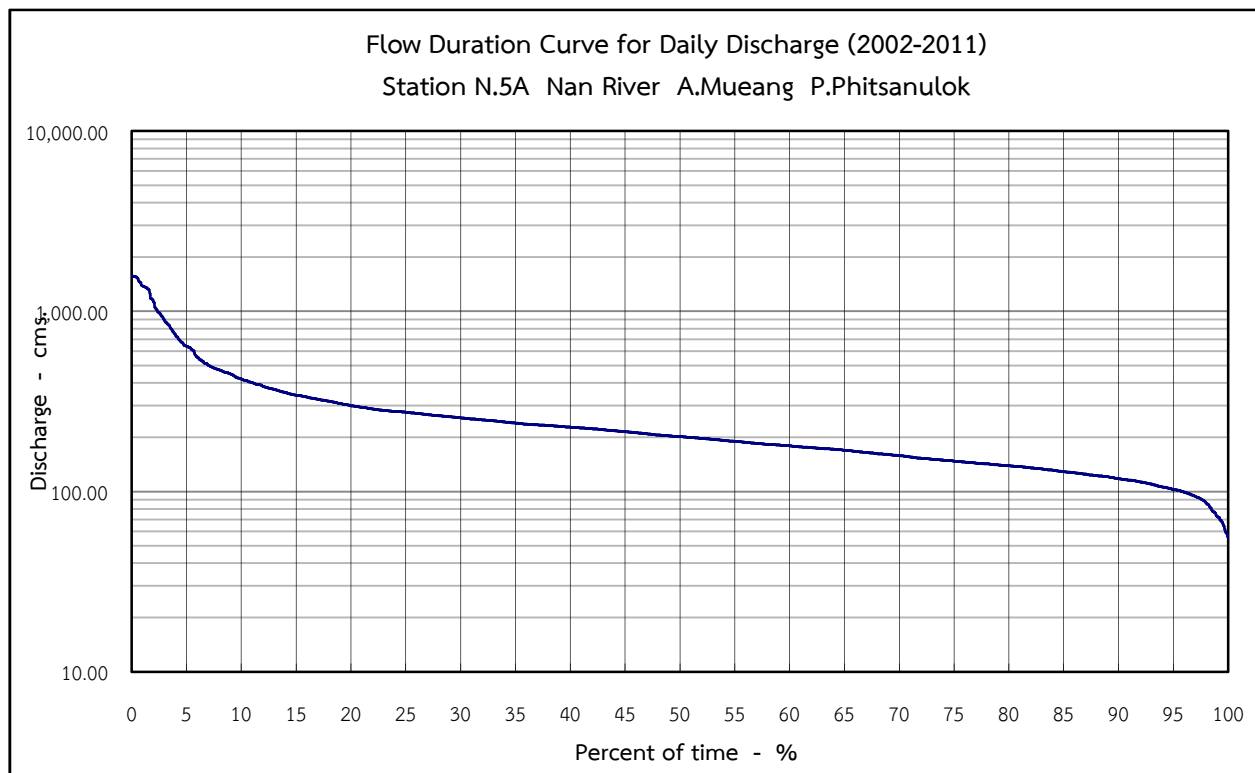
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,243.8	503.0	329.6	191.3	38.6	9.8	1.3	0.6	0.4	0.2	0.0



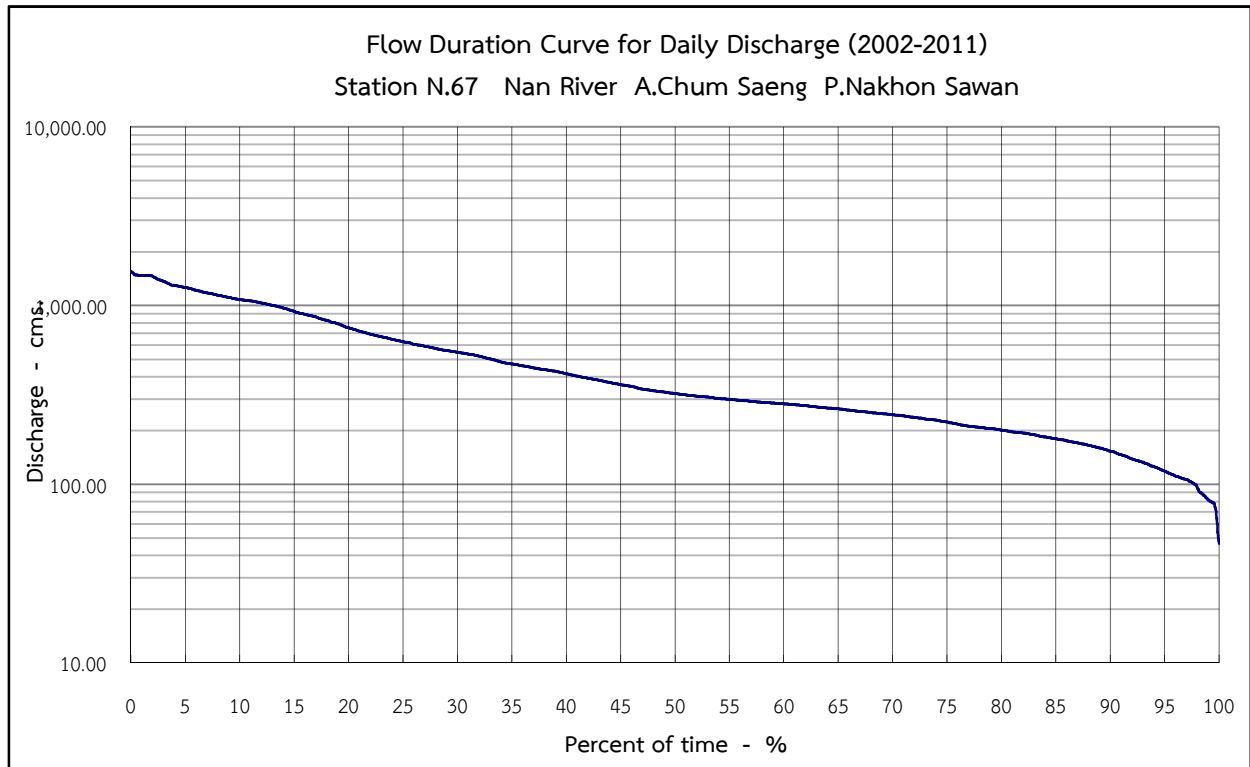
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,411.9	332.0	249.6	183.2	69.5	32.4	1.2	0.0	0.0	0.0	0.0



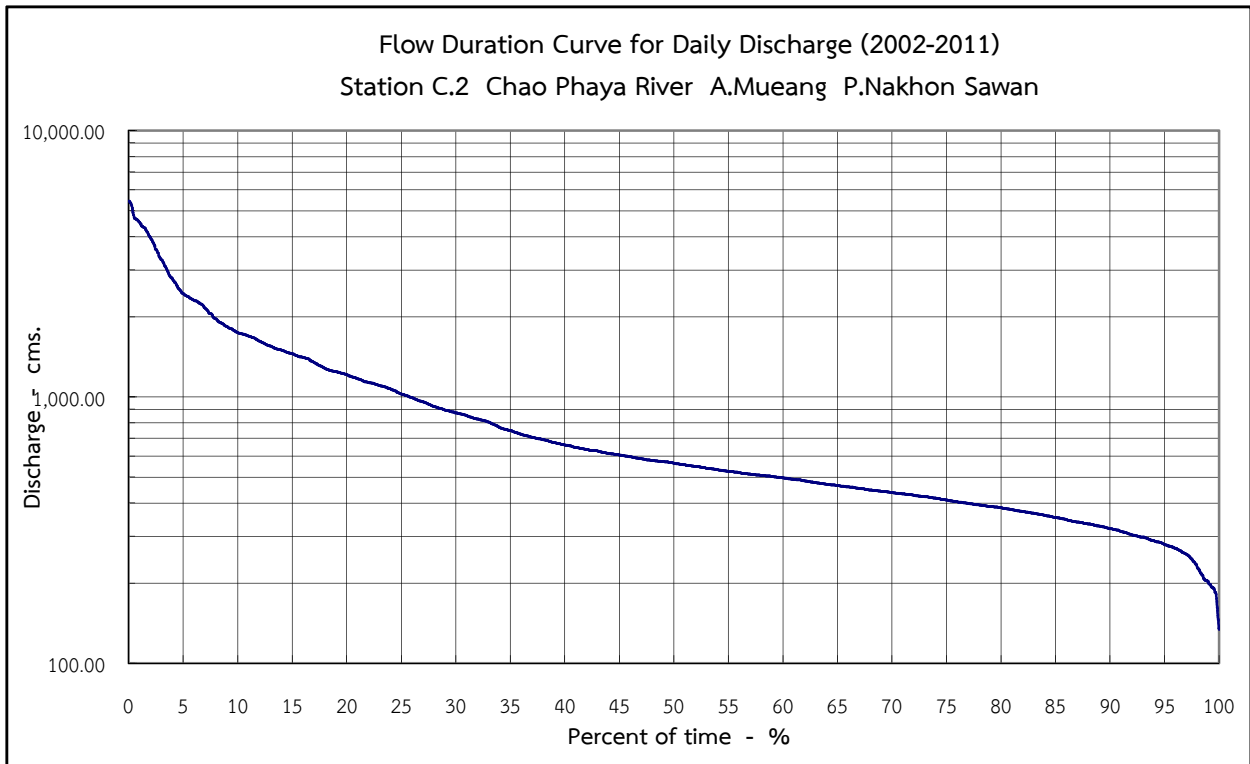
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	949.5	346.6	187.5	105.6	37.8	24.6	11.3	8.7	6.8	4.3	0.9



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,380.1	420.9	299.2	256.4	201.6	179.2	138.8	128.8	117.8	102.4	55.3

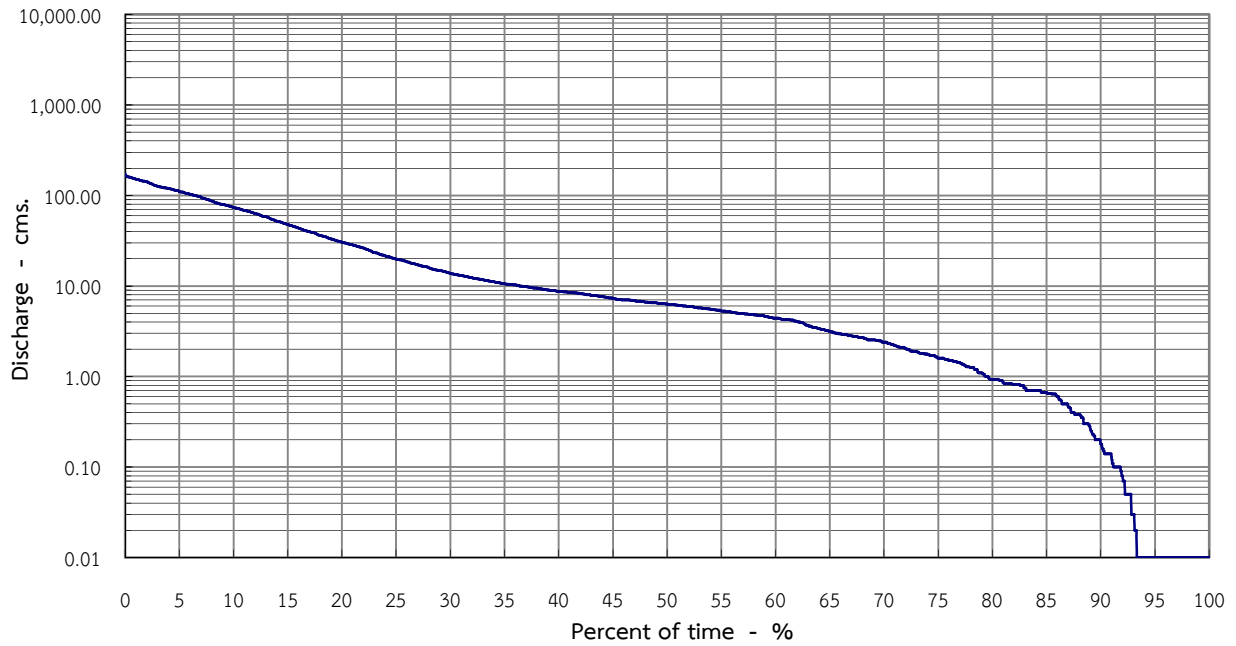


Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,476.0	1,082.3	752.1	547.7	322.0	282.1	201.0	179.5	153.6	118.3	46.6



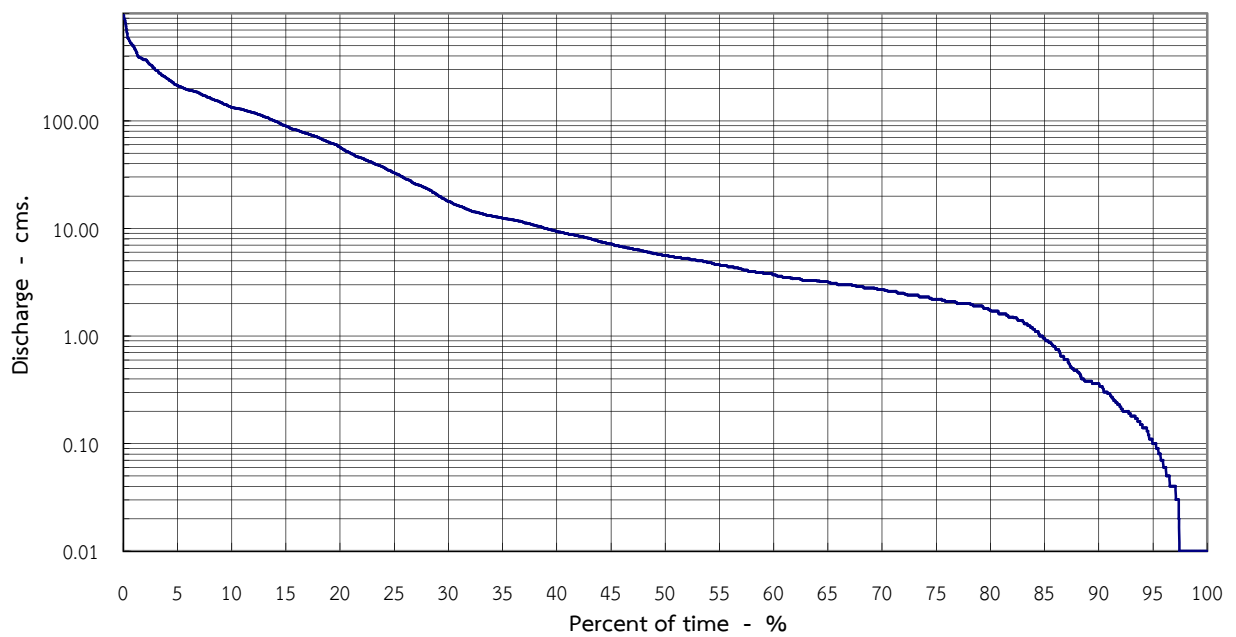
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	4,530.0	1,745.0	1,211.0	871.8	564.4	497.3	383.9	353.0	320.1	279.5	134.0

Flow Duration Curve for Daily Discharge (2002-2011)
Station S.4B Pasak River A.Mueang P.Phetchabun

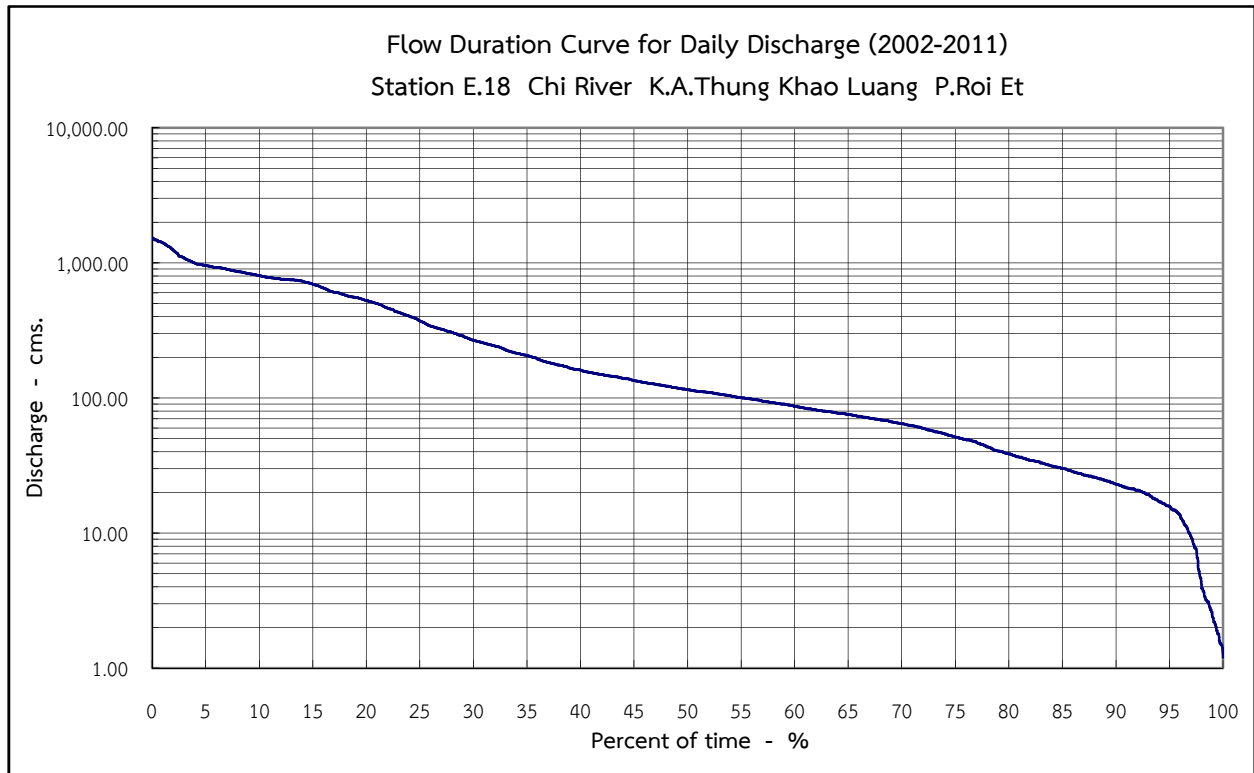


Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	151.2	73.4	30.6	13.8	6.3	4.4	0.9	0.7	0.2	0.0	0.0

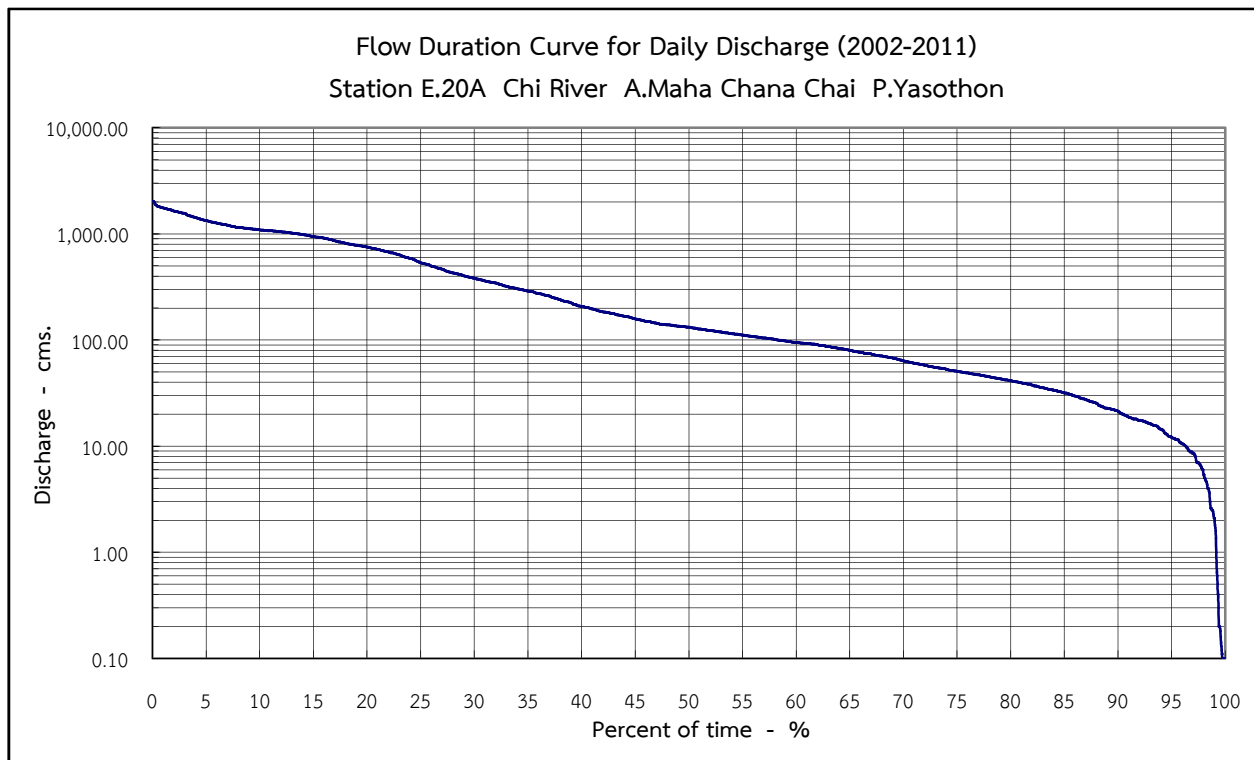
Flow Duration Curve for Daily Discharge (2002-2011)
Station E.23 Chi River A.Mueang P.Chiyaphum



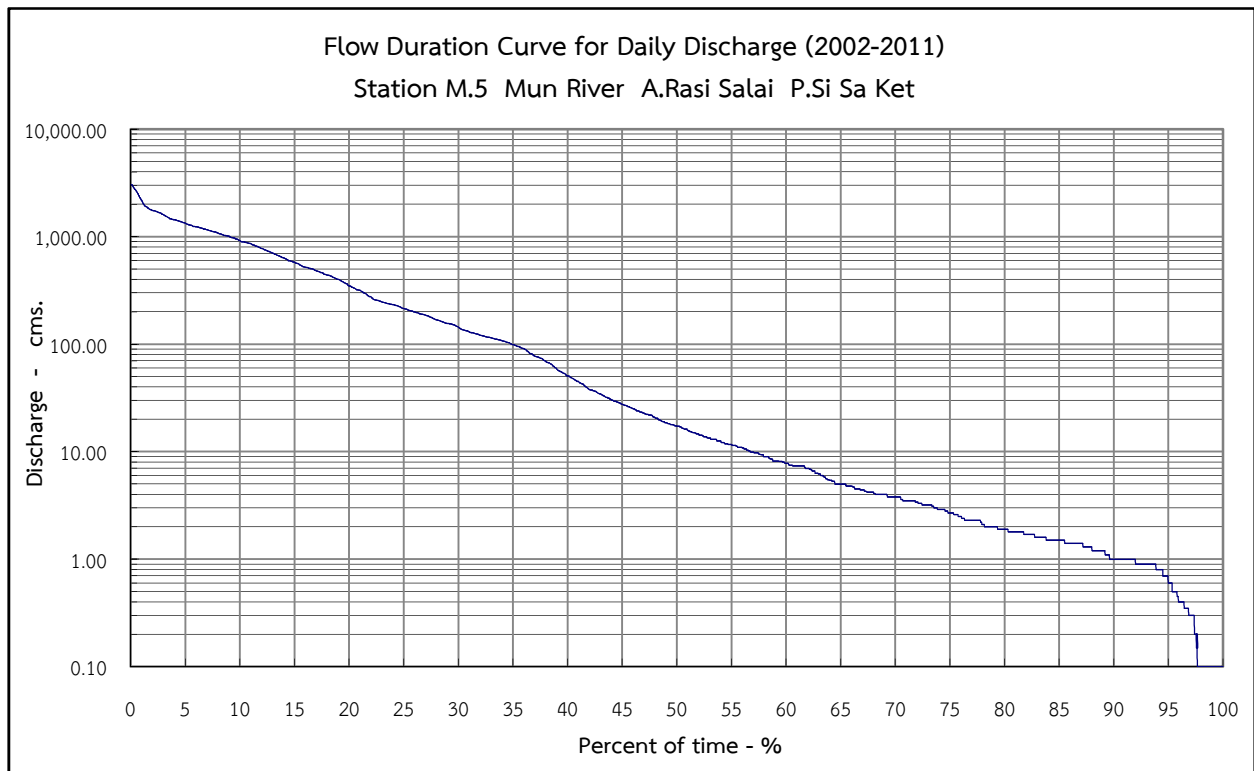
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	486.6	133.2	57.0	17.9	5.6	3.7	1.7	1.0	0.4	0.1	0.0



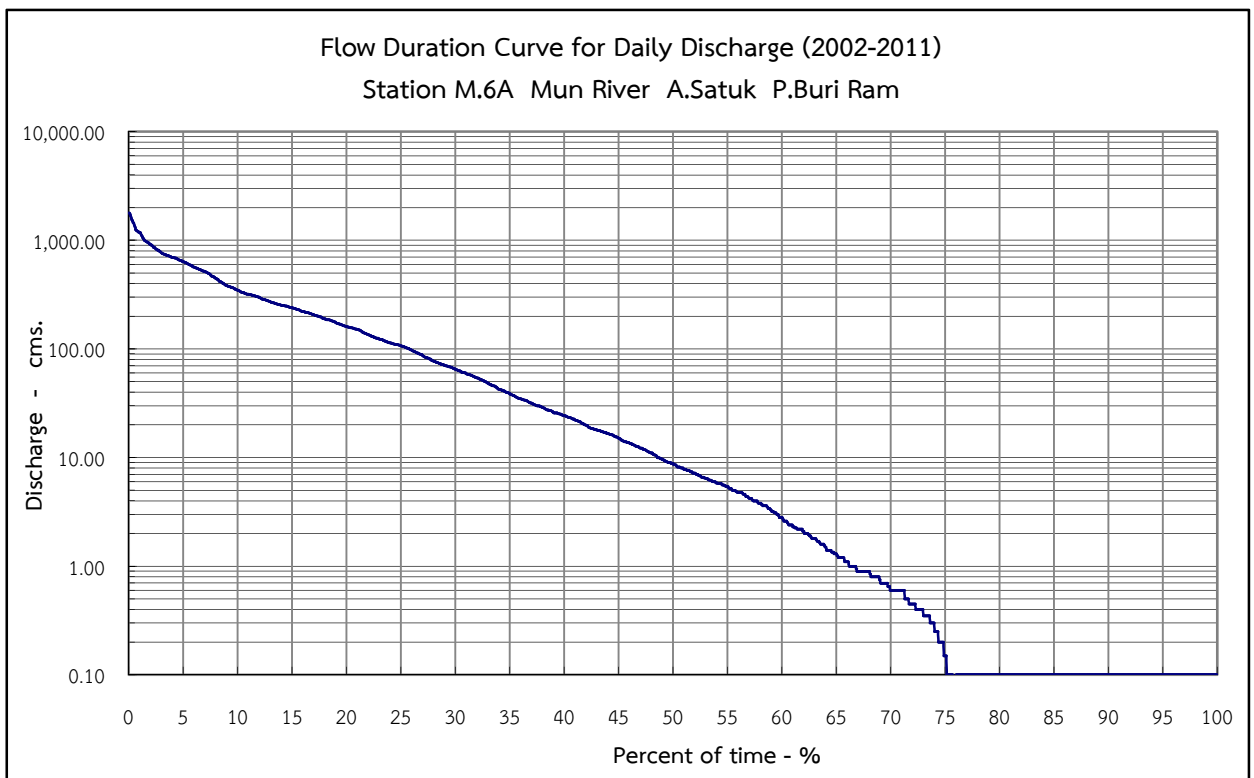
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,407.9	804.4	527.6	267.5	115.4	86.9	38.5	30.1	23.0	15.8	1.2



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	1,758.3	1,093.0	753.2	382.9	132.5	95.0	41.4	31.8	21.5	12.2	0.1

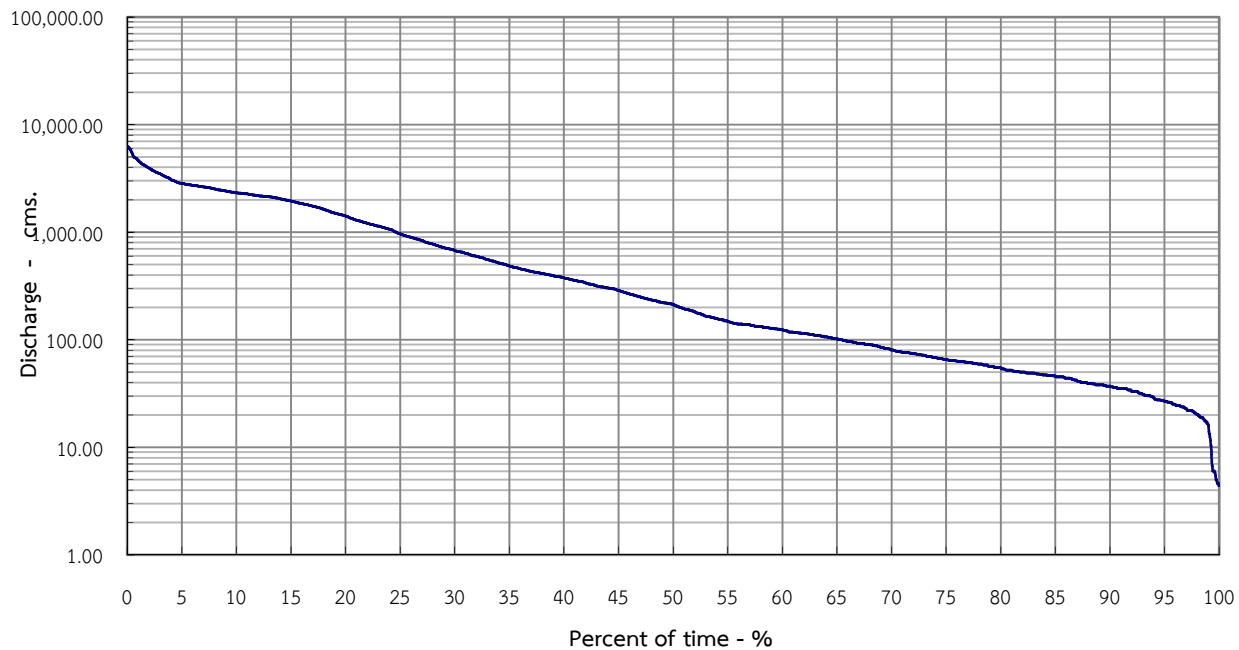


Percent of time - %	1	10	20	40	50	60	80	85	90	95	100
Discharge - cms.	2,172.0	912.4	348.4	143.0	17.2	7.8	1.9	1.5	1.0	0.6	0.0



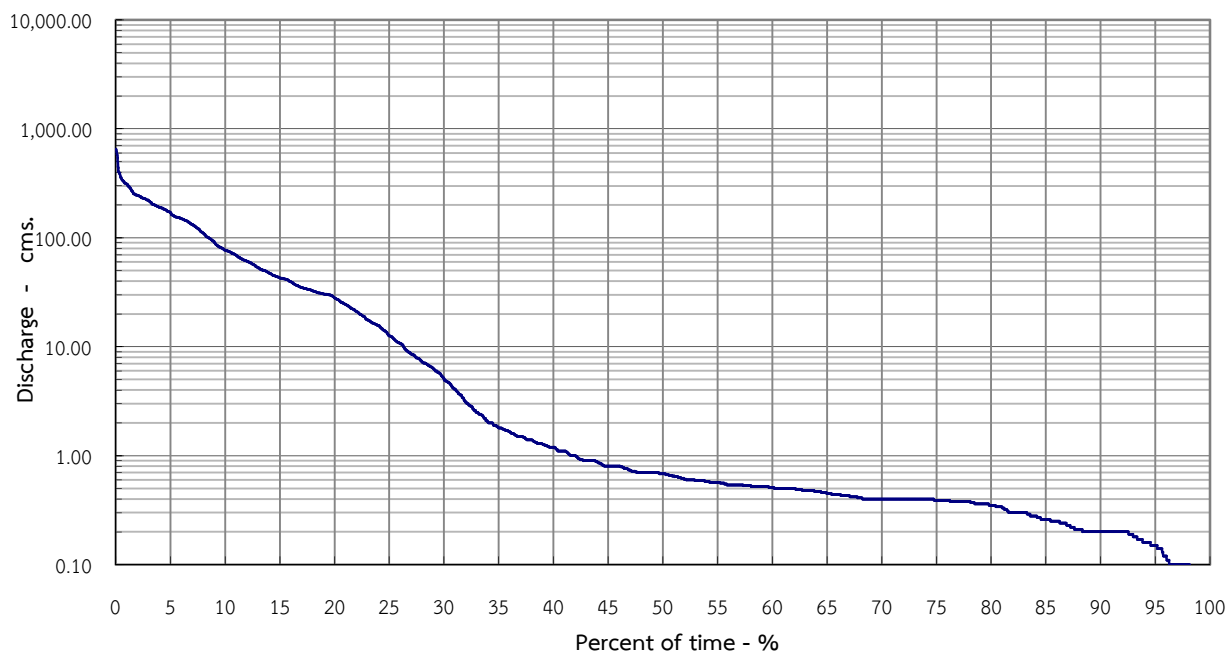
Percent of time - %	1	10	20	40	50	60	80	85	90	95	100
Discharge - cms.	1,185.0	348.8	161.0	65.3	8.8	2.8	0.0	0.0	0.0	0.0	0.0

Flow Duration Curve for Daily Discharge (2002-2011)
Station M.7 Mun River A.Mueang P.Ubon Ratchathani

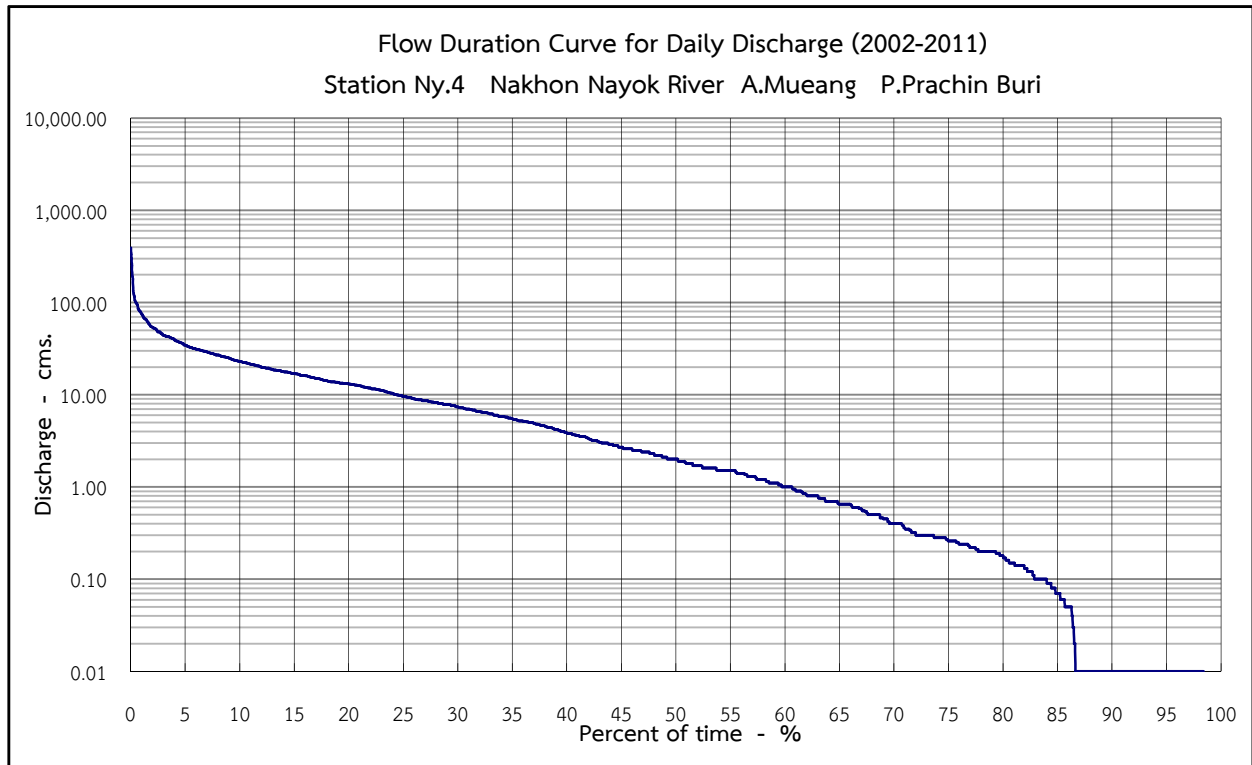


Percent of time - %	1	10	20	40	50	60	80	85	90	95	100
Discharge - cms.	4,661.0	2,322.0	1,414.5	676.0	212.5	124.0	54.7	45.5	37.0	26.8	4.4

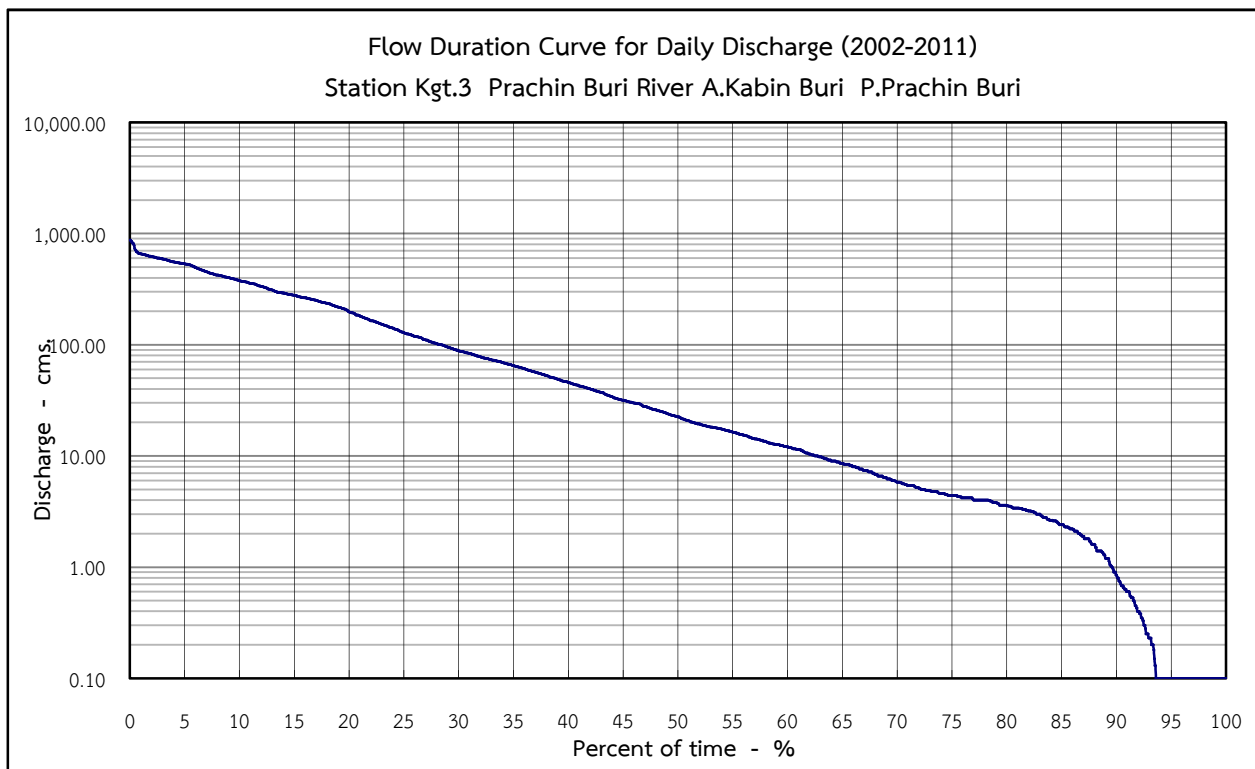
Flow Duration Curve for Daily Discharge (2002-2011)
Station M.9 Huai Samran A.Mueang P.Si Sa Ket



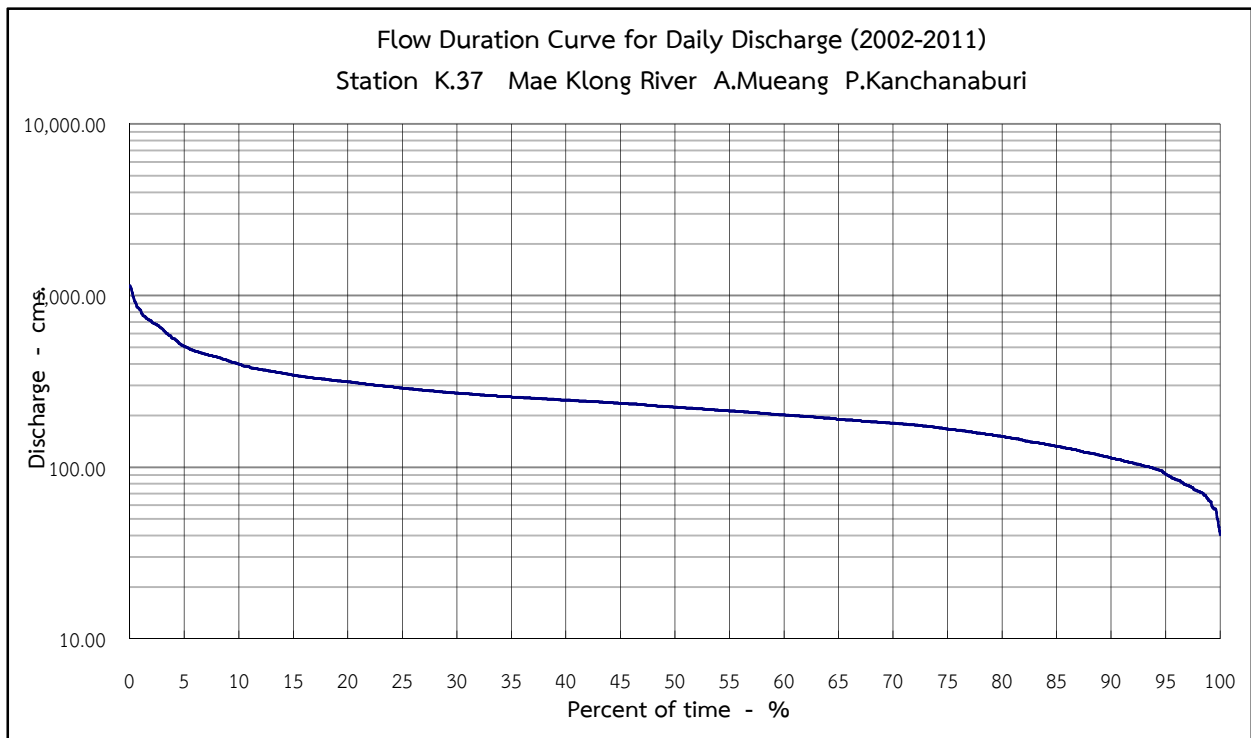
Percent of time - %	1	10	20	40	50	60	80	85	90	95	100
Discharge - cms.	310.4	77.1	28.0	5.1	0.7	0.5	0.4	0.3	0.2	0.2	0.0



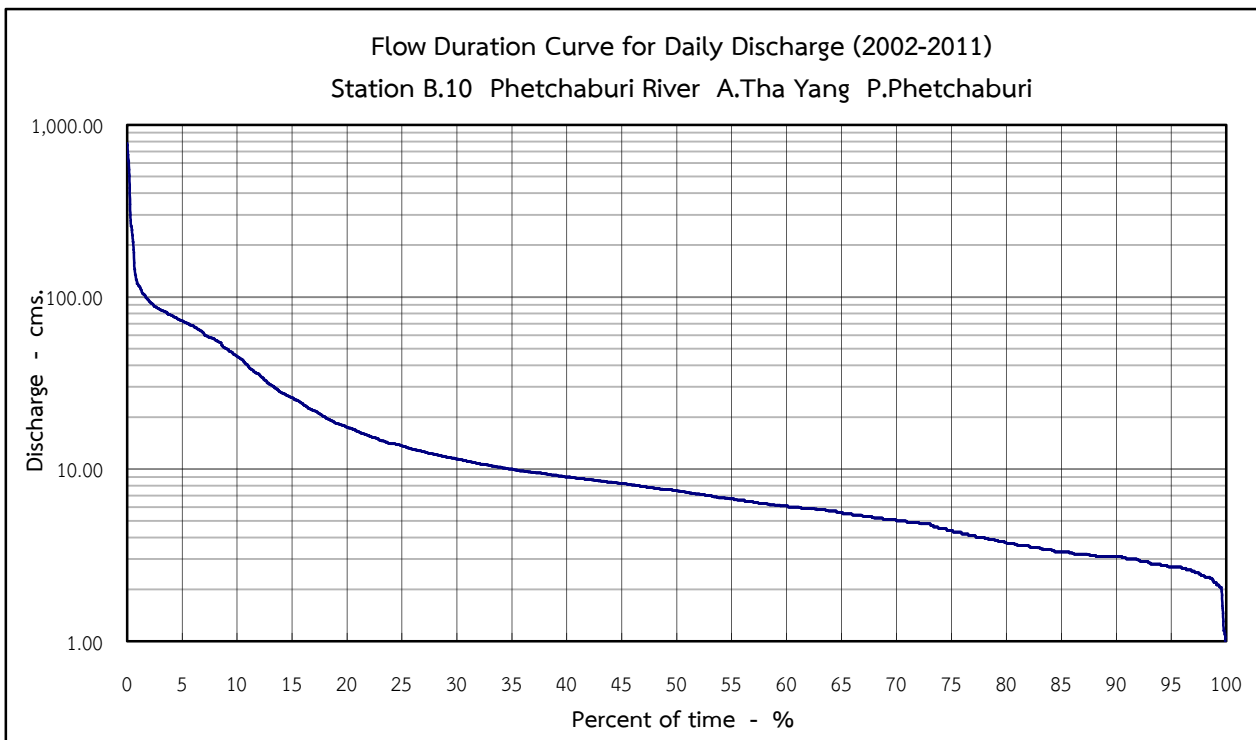
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	75.3	23.0	13.1	7.4	2.0	1.0	0.2	0.1	0.0	0.0	0.0



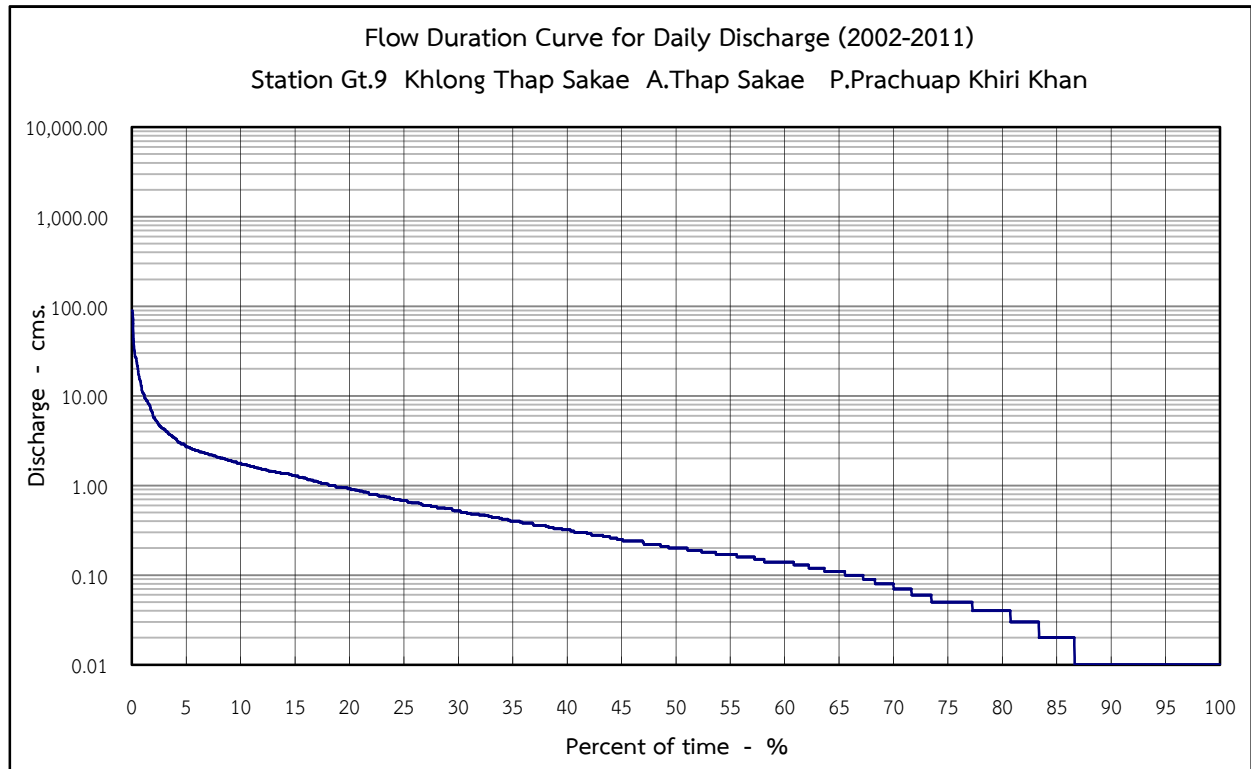
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	656.7	376.9	197.0	88.0	22.4	12.0	3.6	2.4	0.9	0.0	0.0



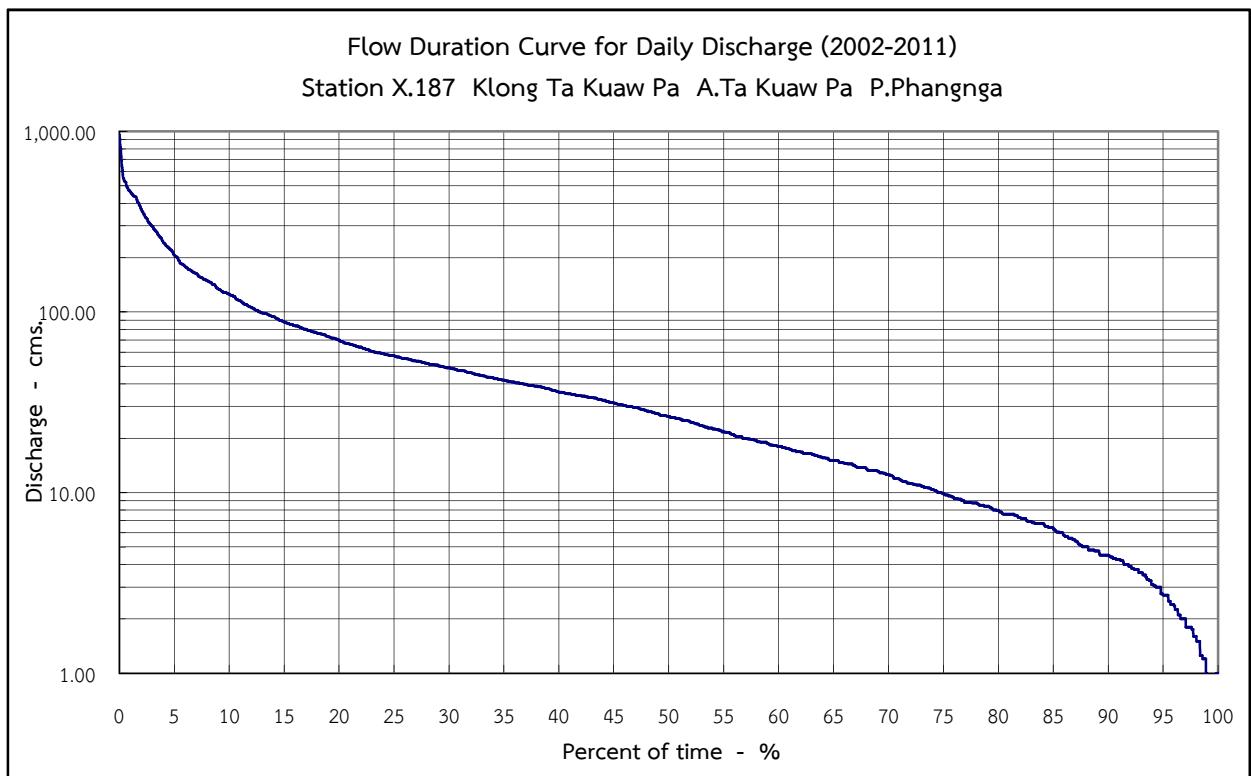
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	819.8	400.0	314.4	270.8	224.2	201.8	150.5	132.6	113.5	91.4	40.3



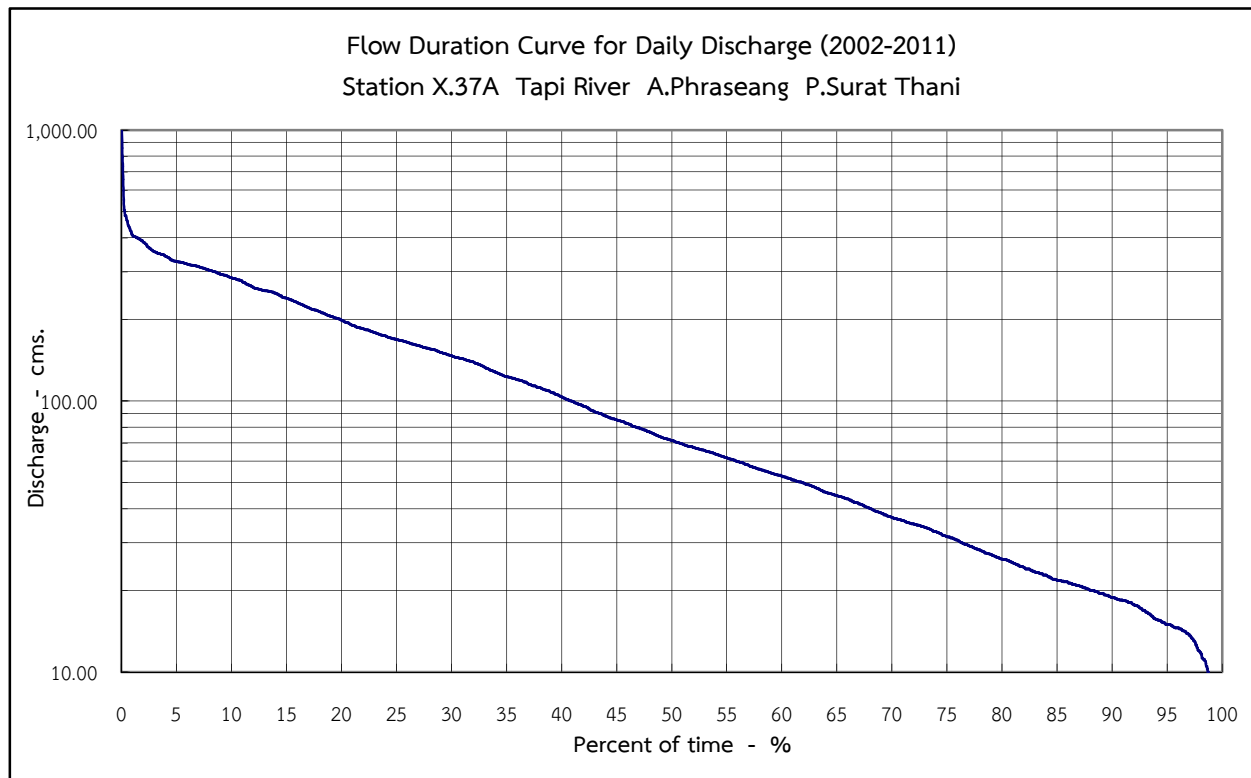
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	118.5	45.2	17.5	11.4	7.5	6.1	3.7	3.3	3.1	2.7	1.0



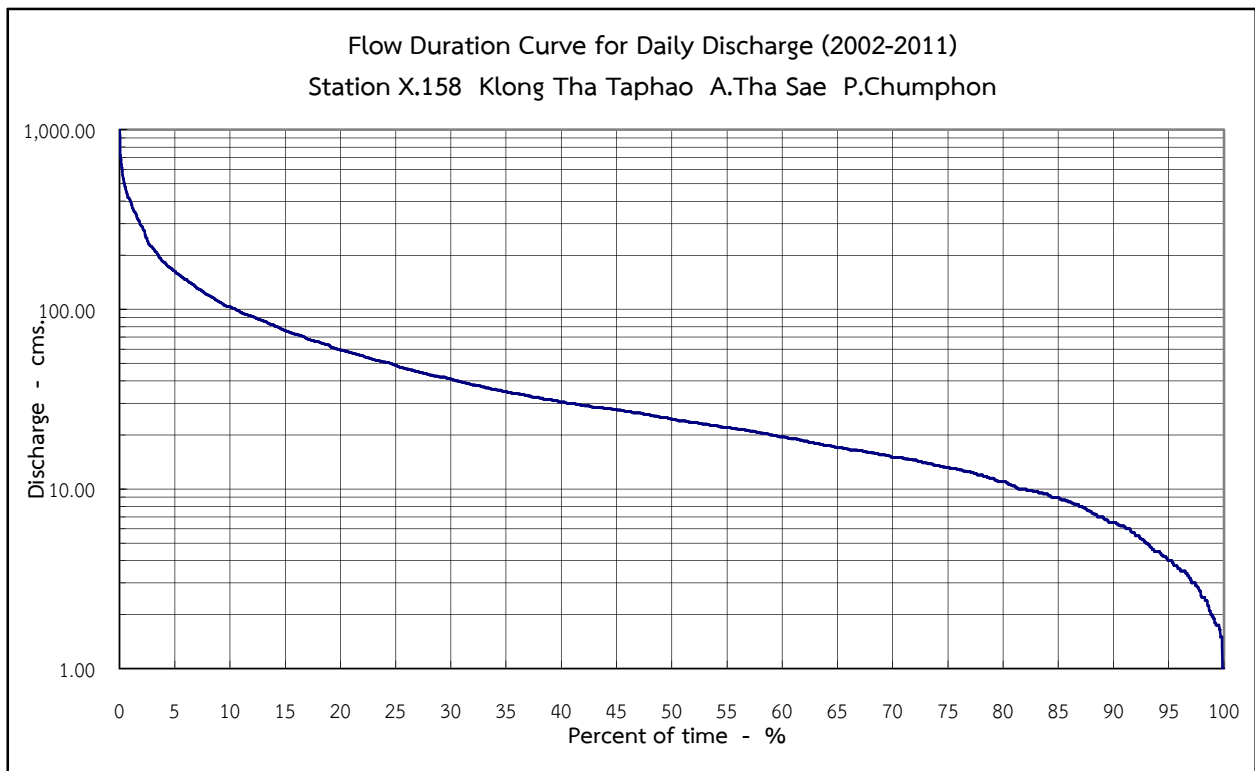
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	11.0	1.8	0.9	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	461.2	126.0	69.8	49.1	26.5	18.0	7.9	6.3	4.5	2.7	0.0

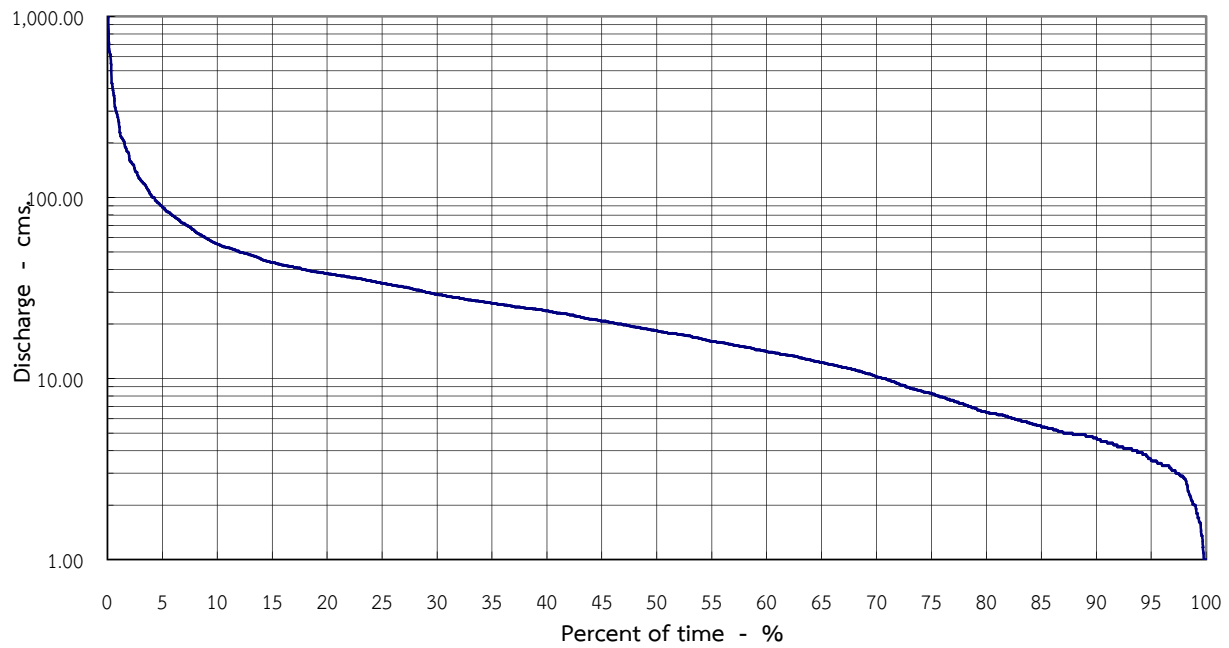


Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	410.2	285.0	198.4	147.0	71.5	52.8	26.1	21.8	18.8	14.9	8.0



Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	396.0	103.4	59.4	41.0	24.6	19.5	11.0	8.9	6.5	4.0	0.0

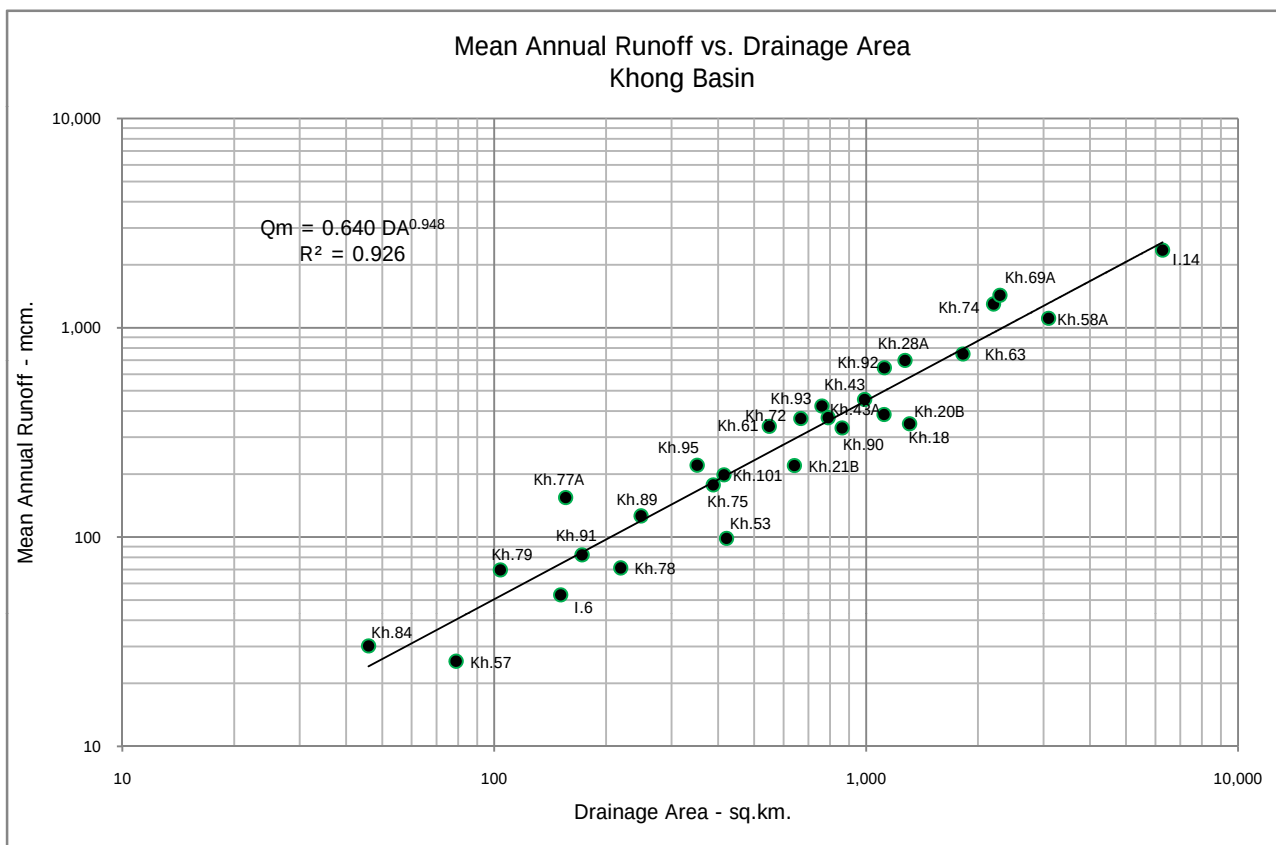
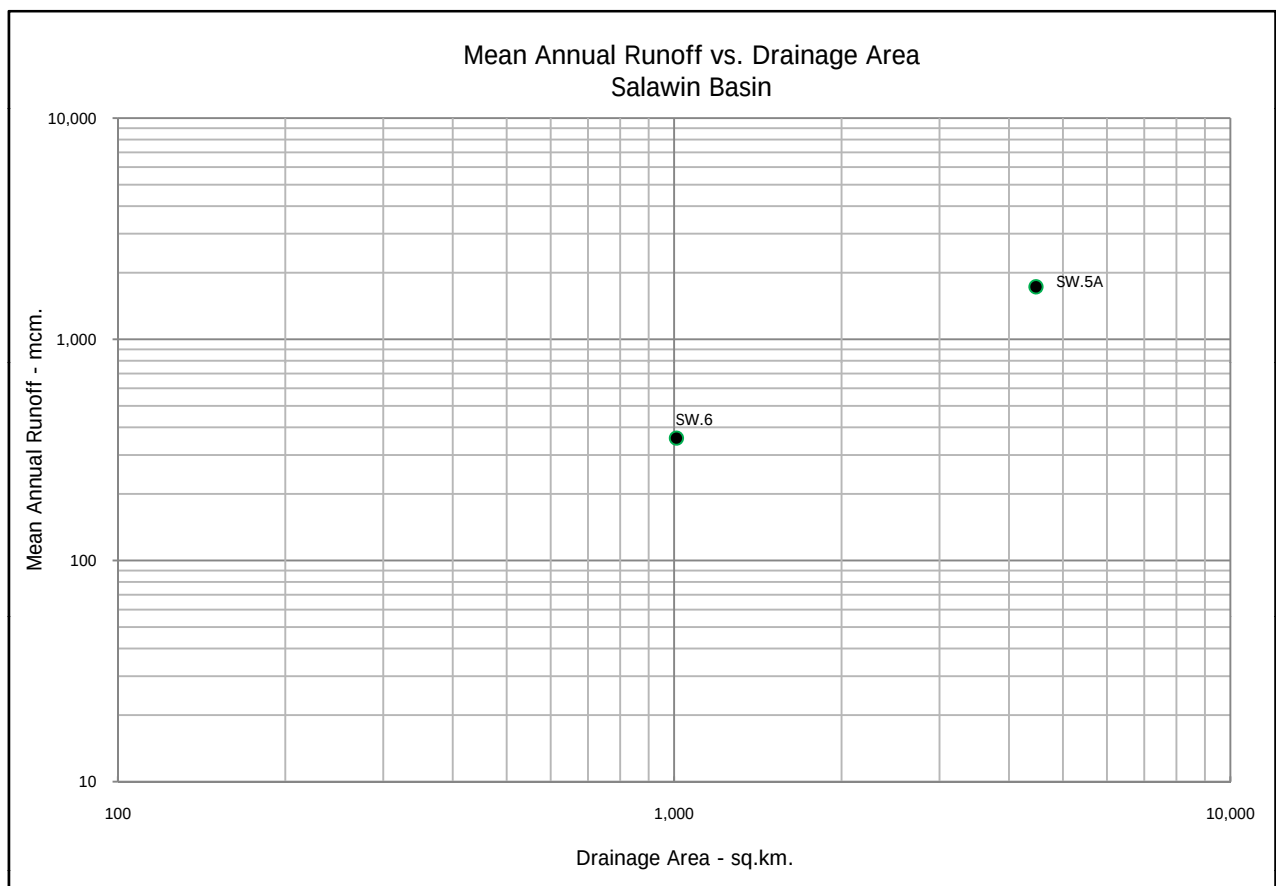
Flow Duration Curve for Daily Discharge (2002-2011)
 Station X.90 Klong U-Taphao A.Klong Hoi-Khong P.Songkhla

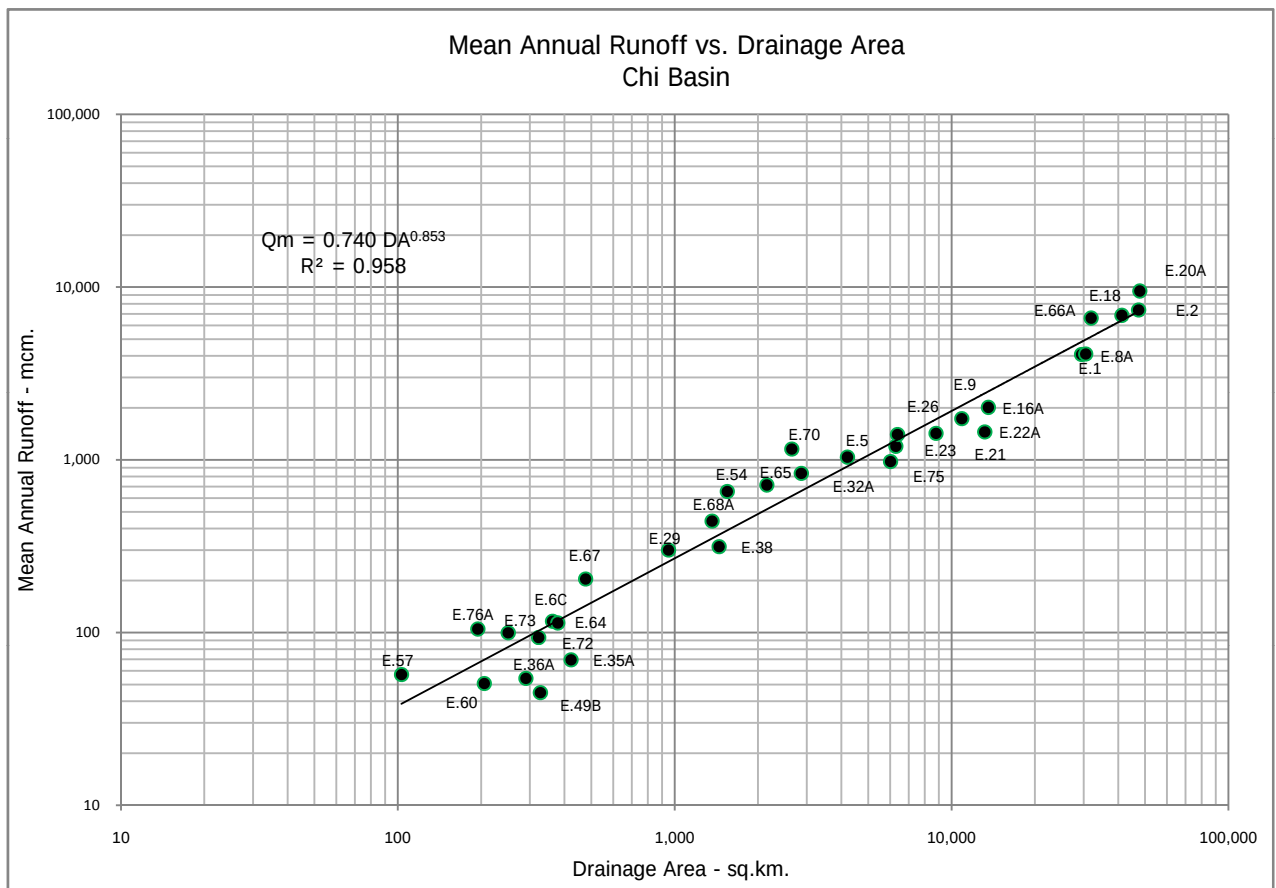
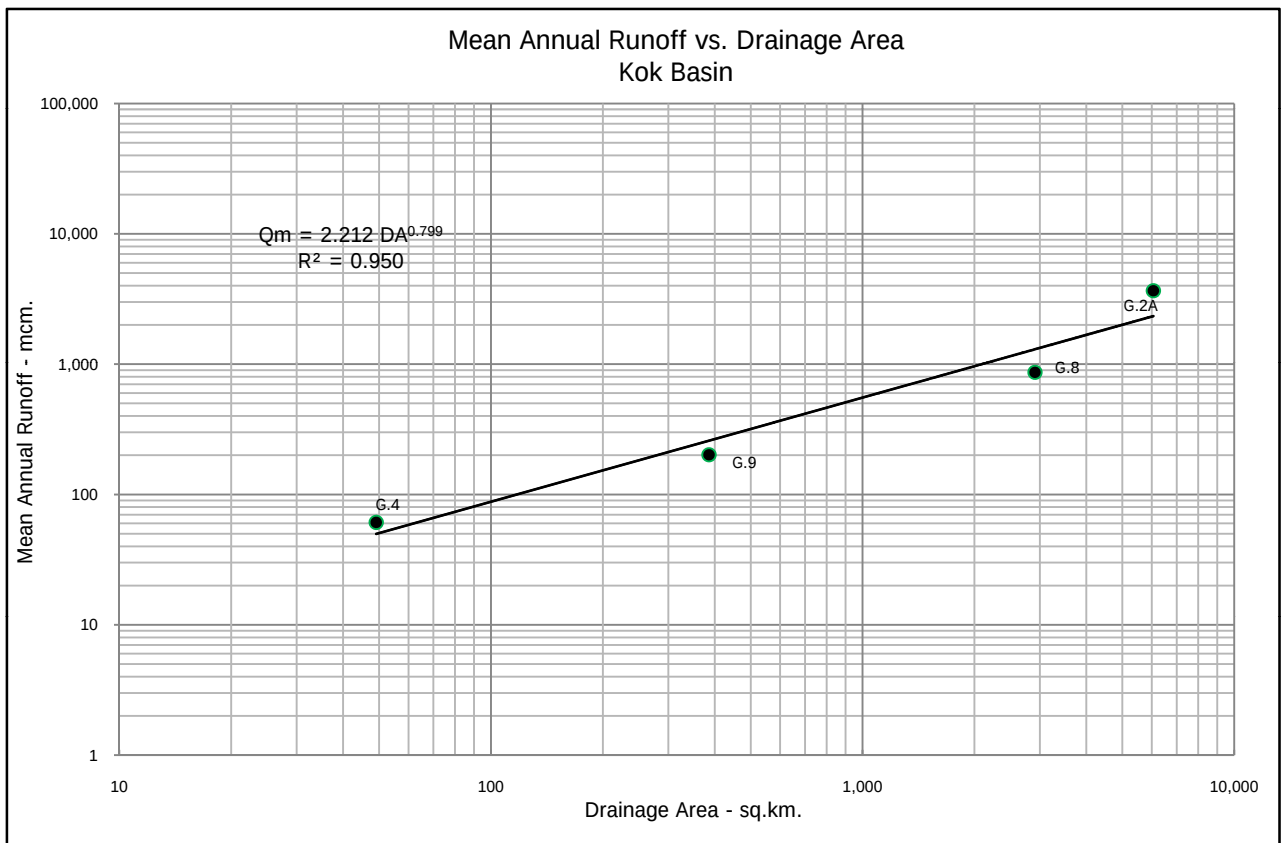


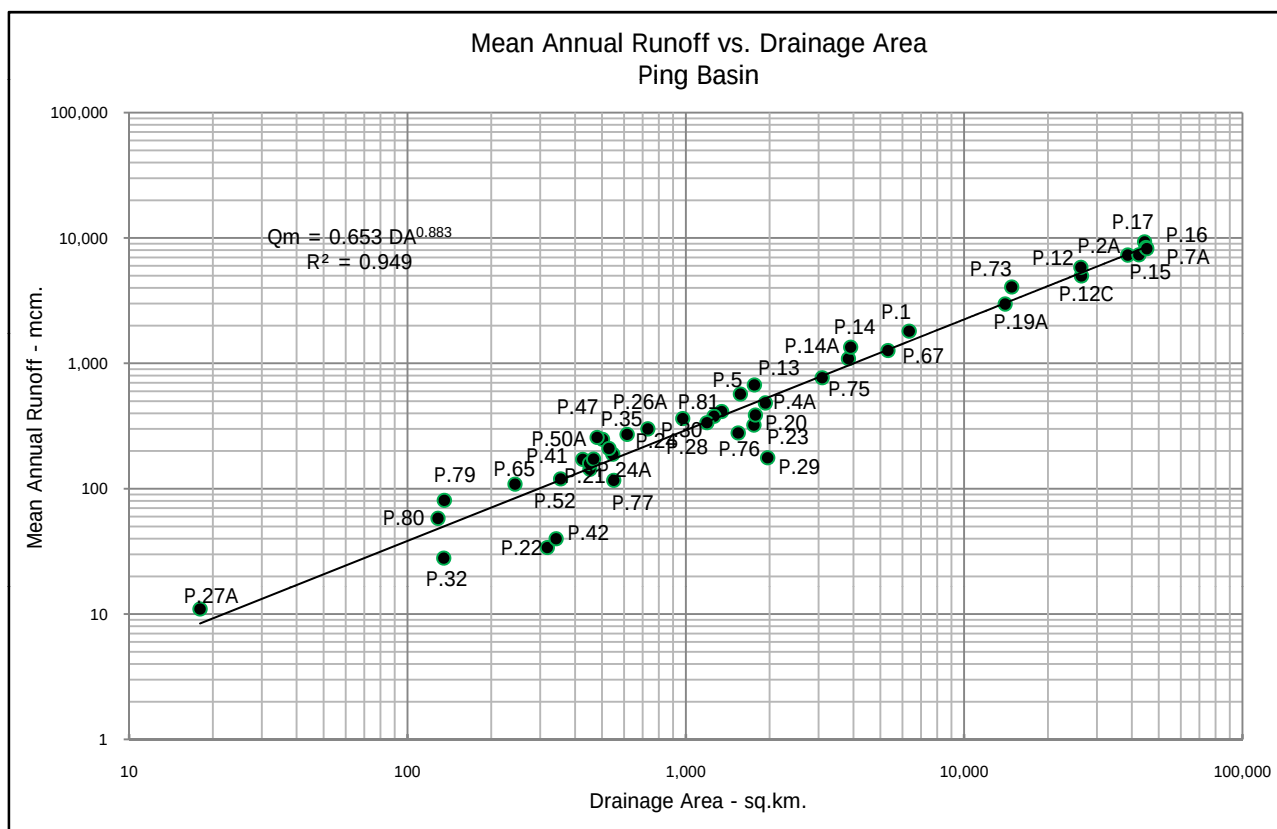
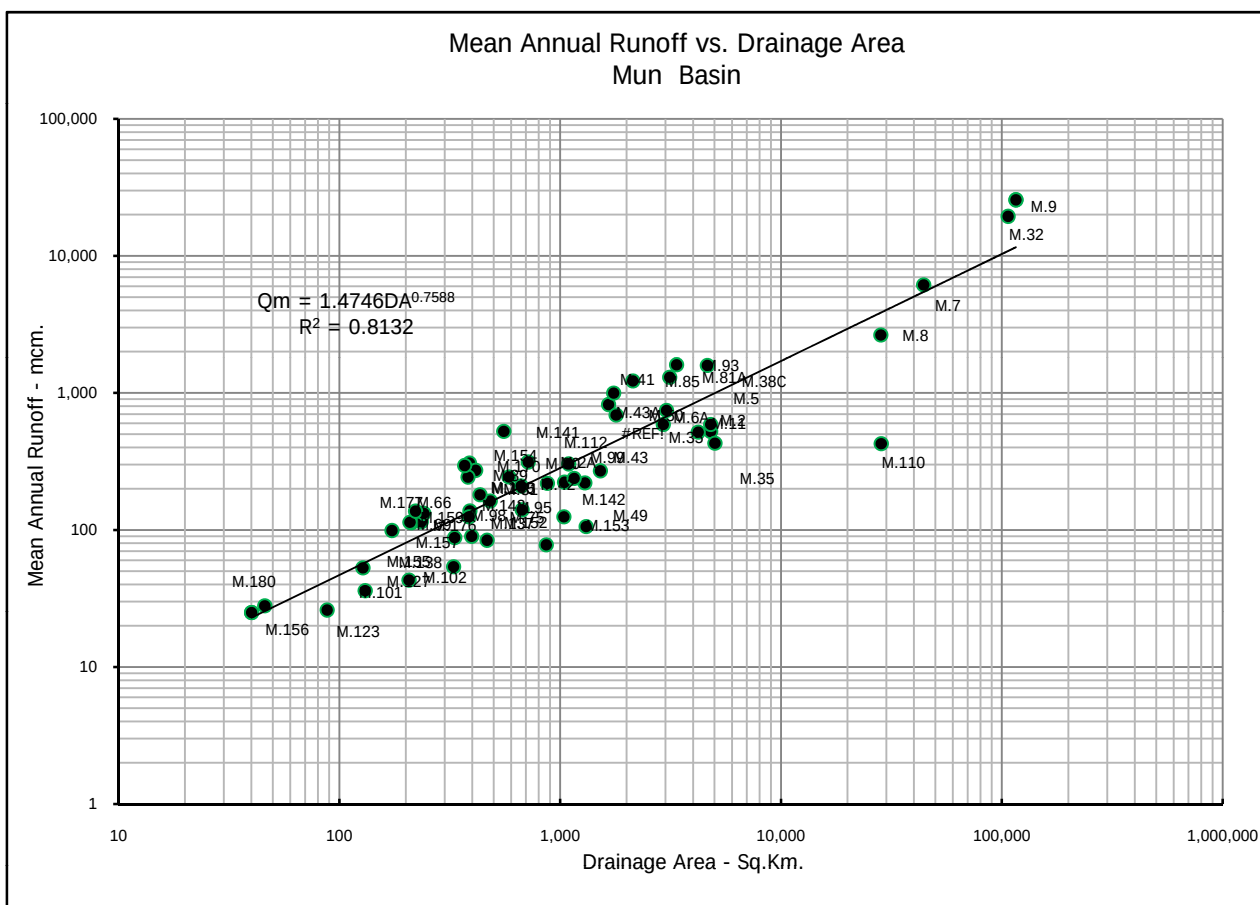
Percent of time - %	1	10	20	30	50	60	80	85	90	95	100
Discharge - cms.	263.6	55.4	38.0	29.2	18.4	14.1	6.5	5.4	4.7	3.5	0.0

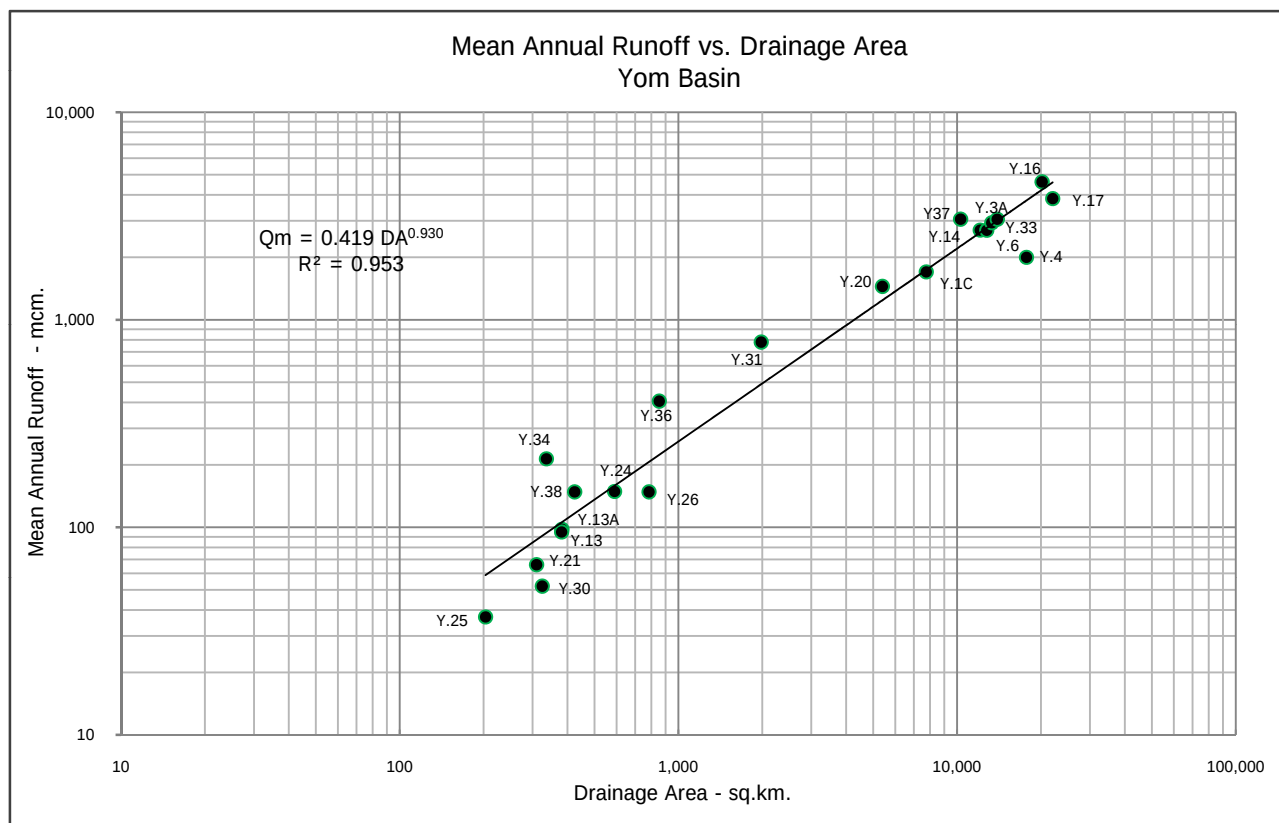
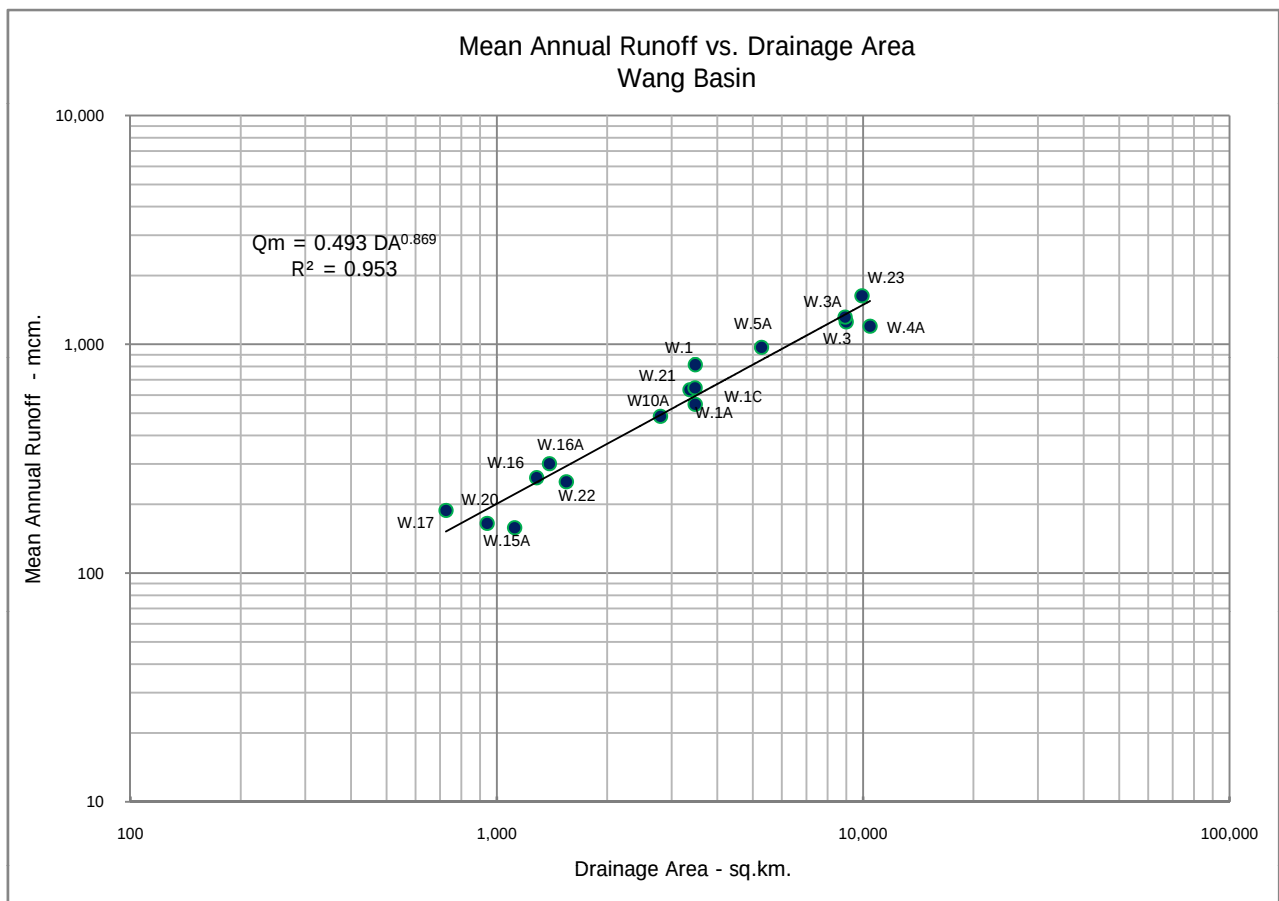
Appendix B

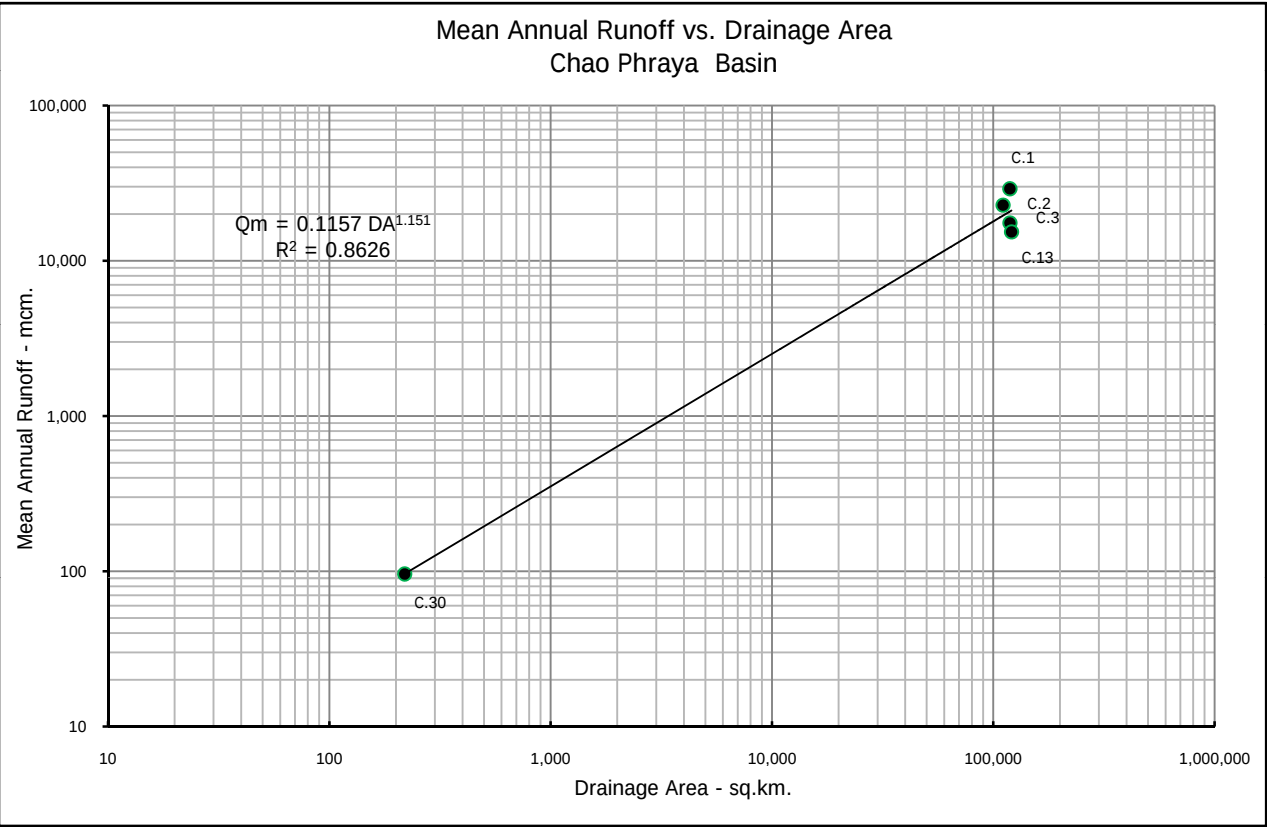
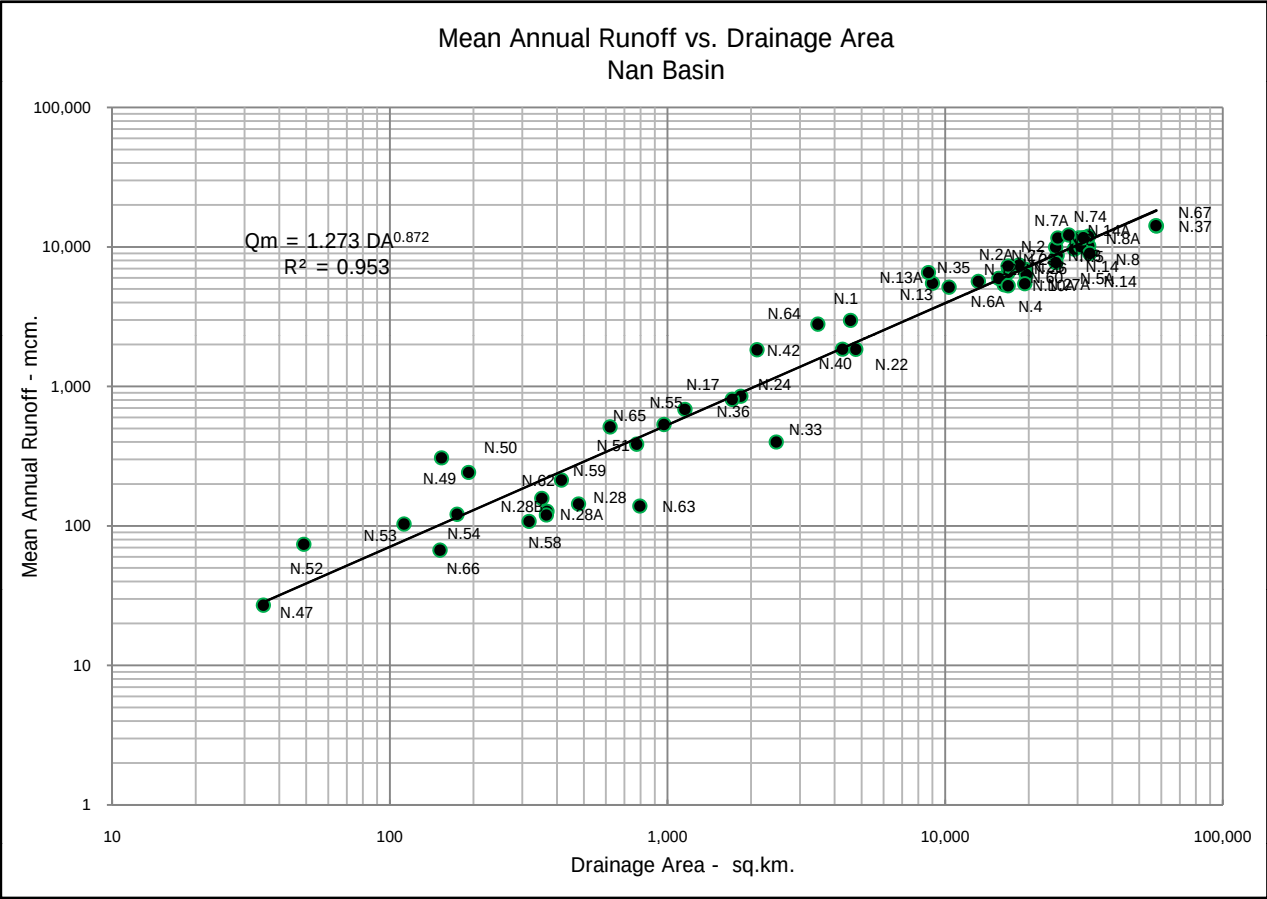
Mean Annual Runoff vs. Drainage Area
(Up to 2011)

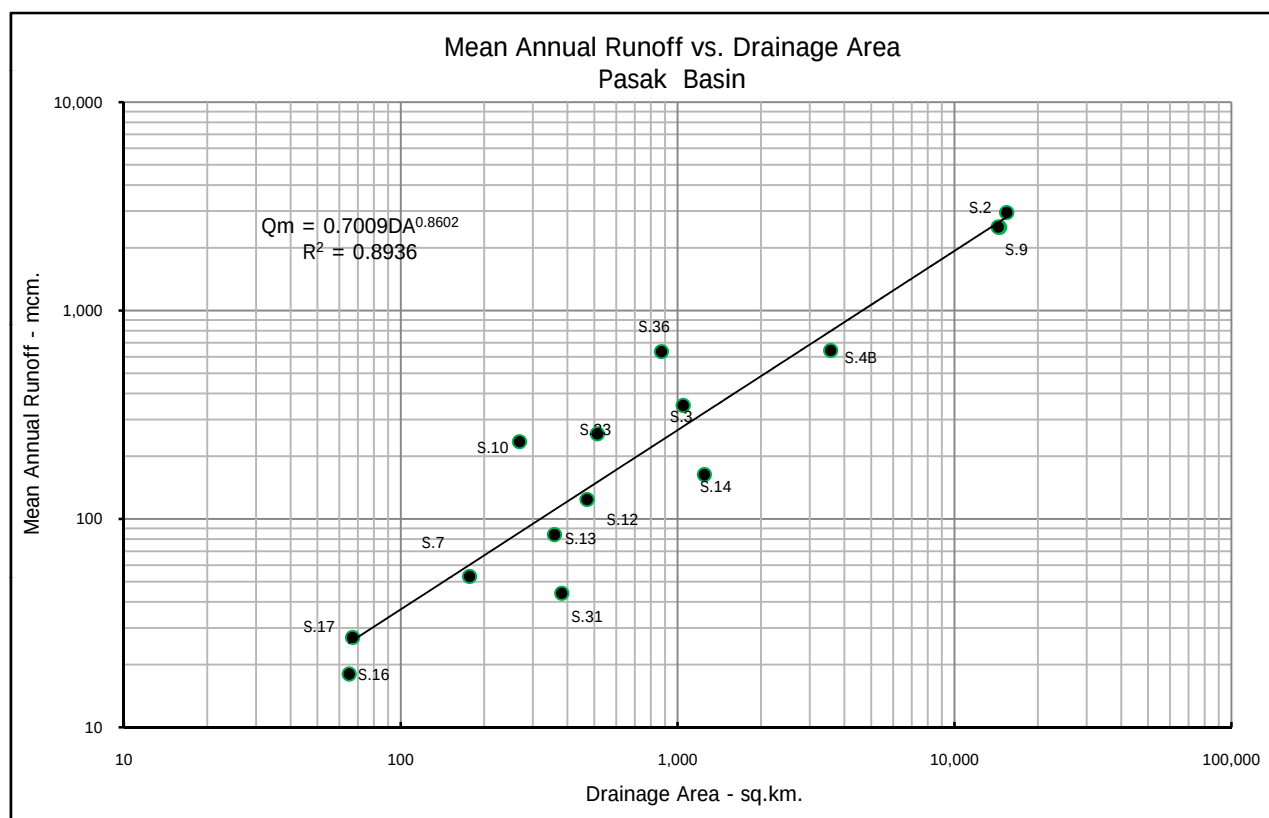
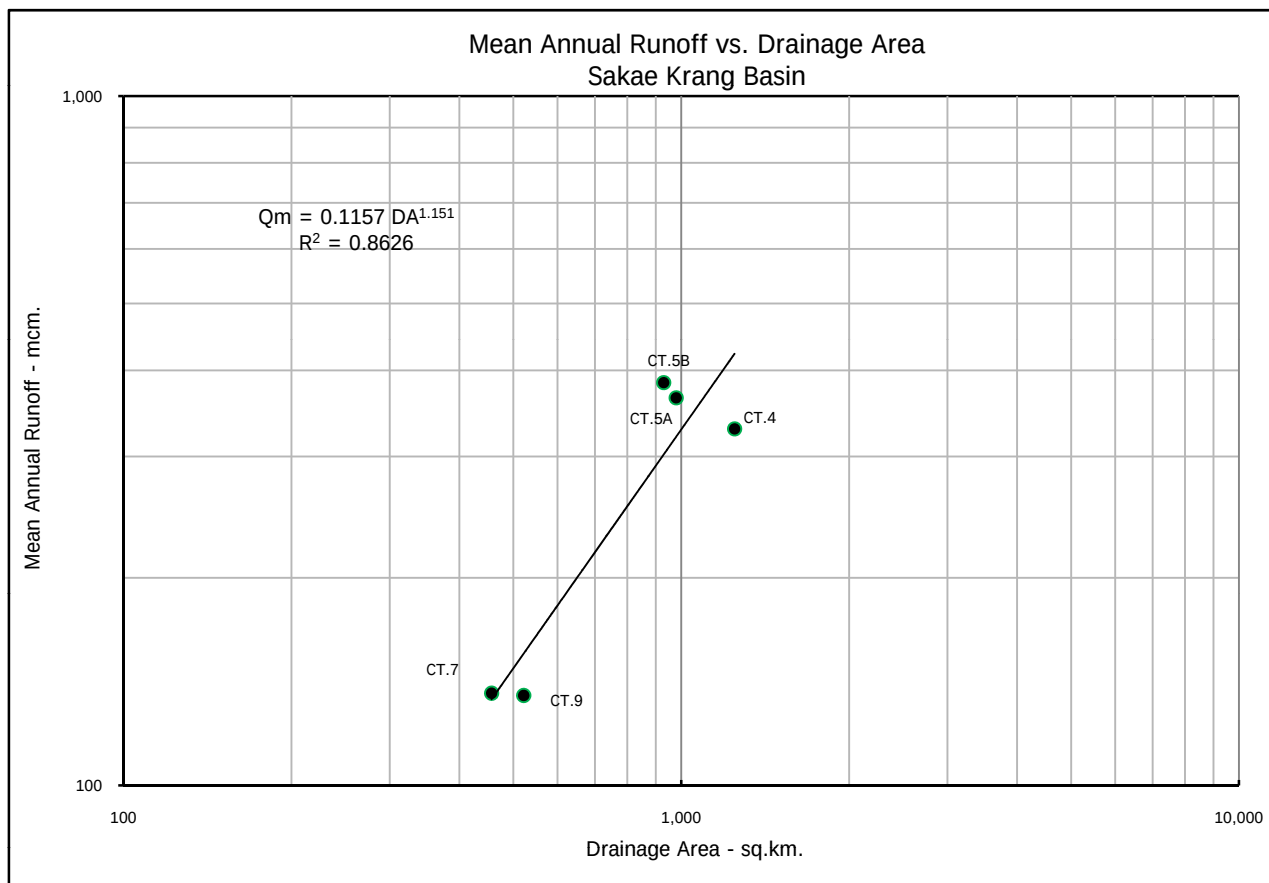


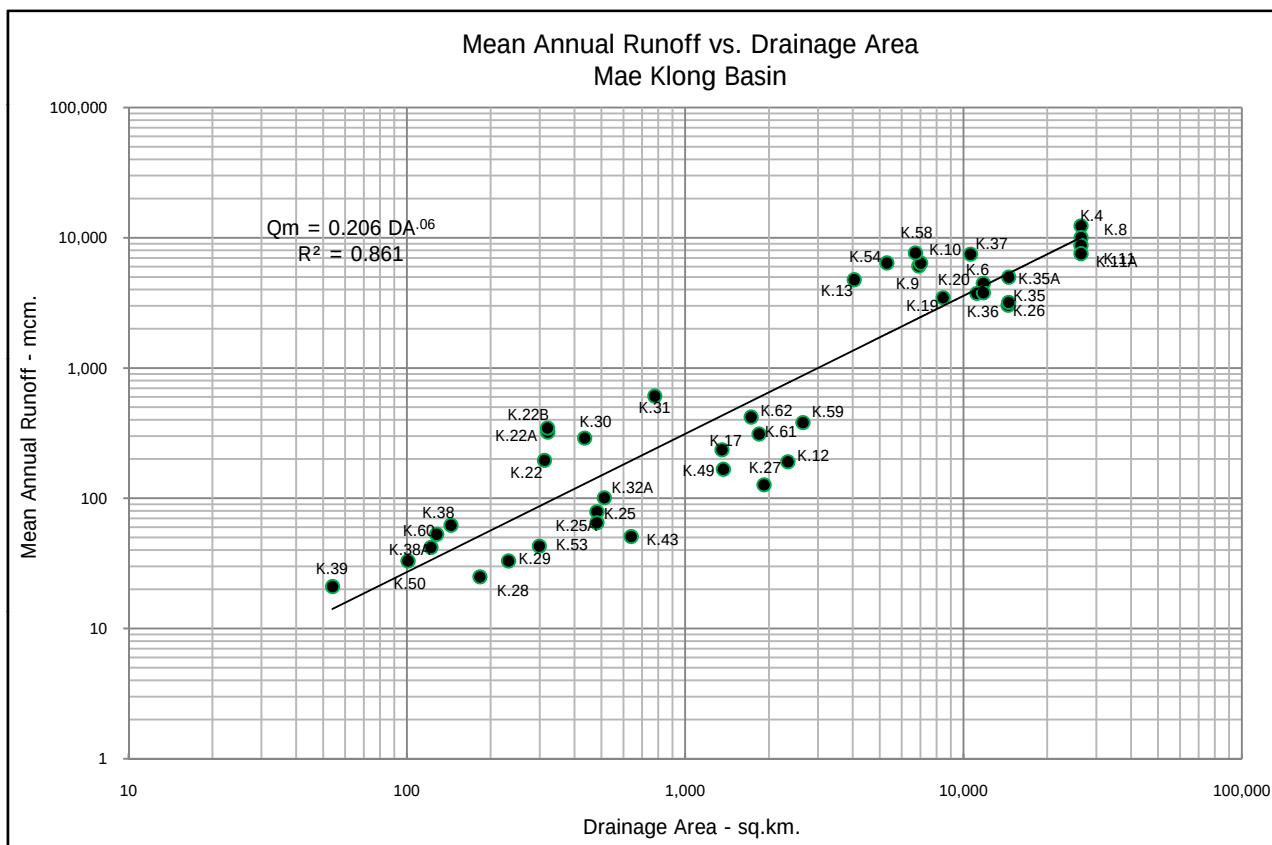
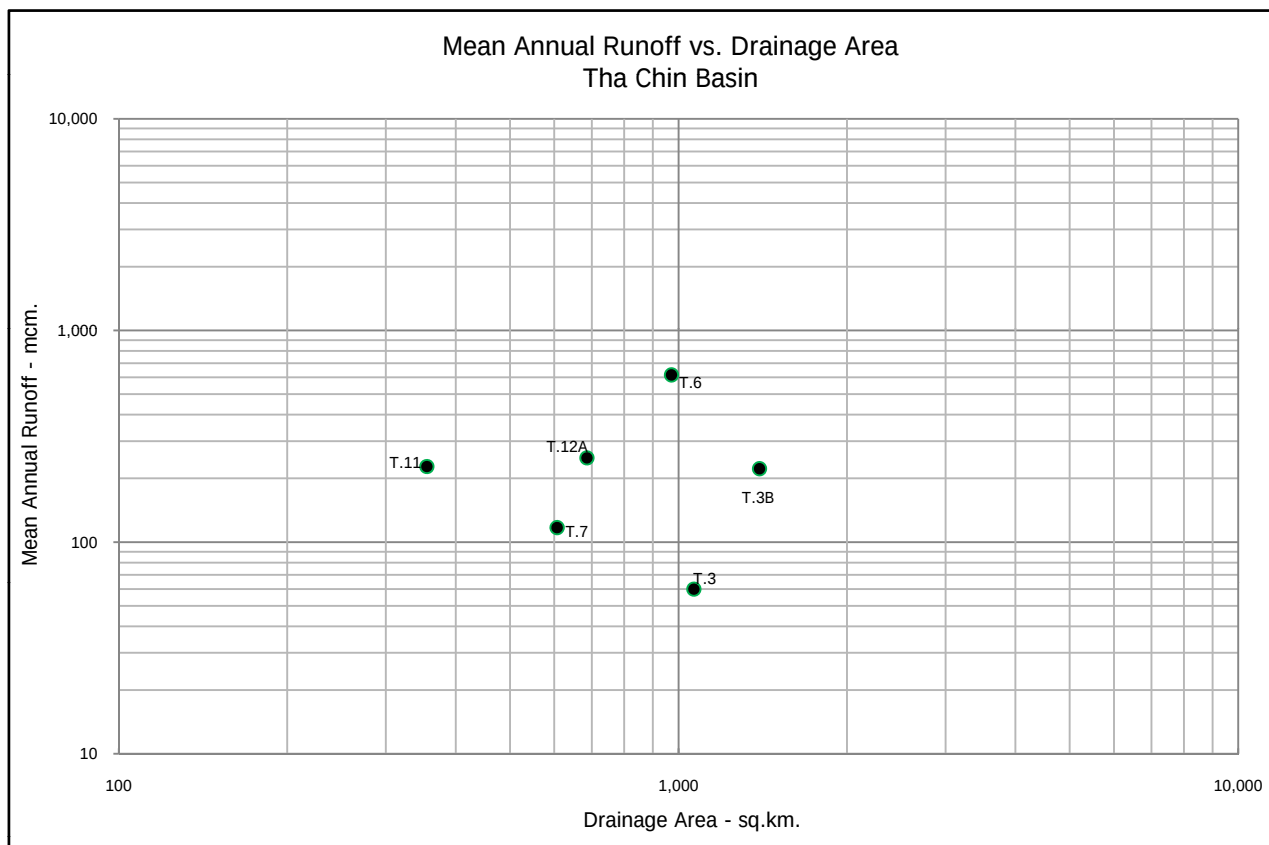


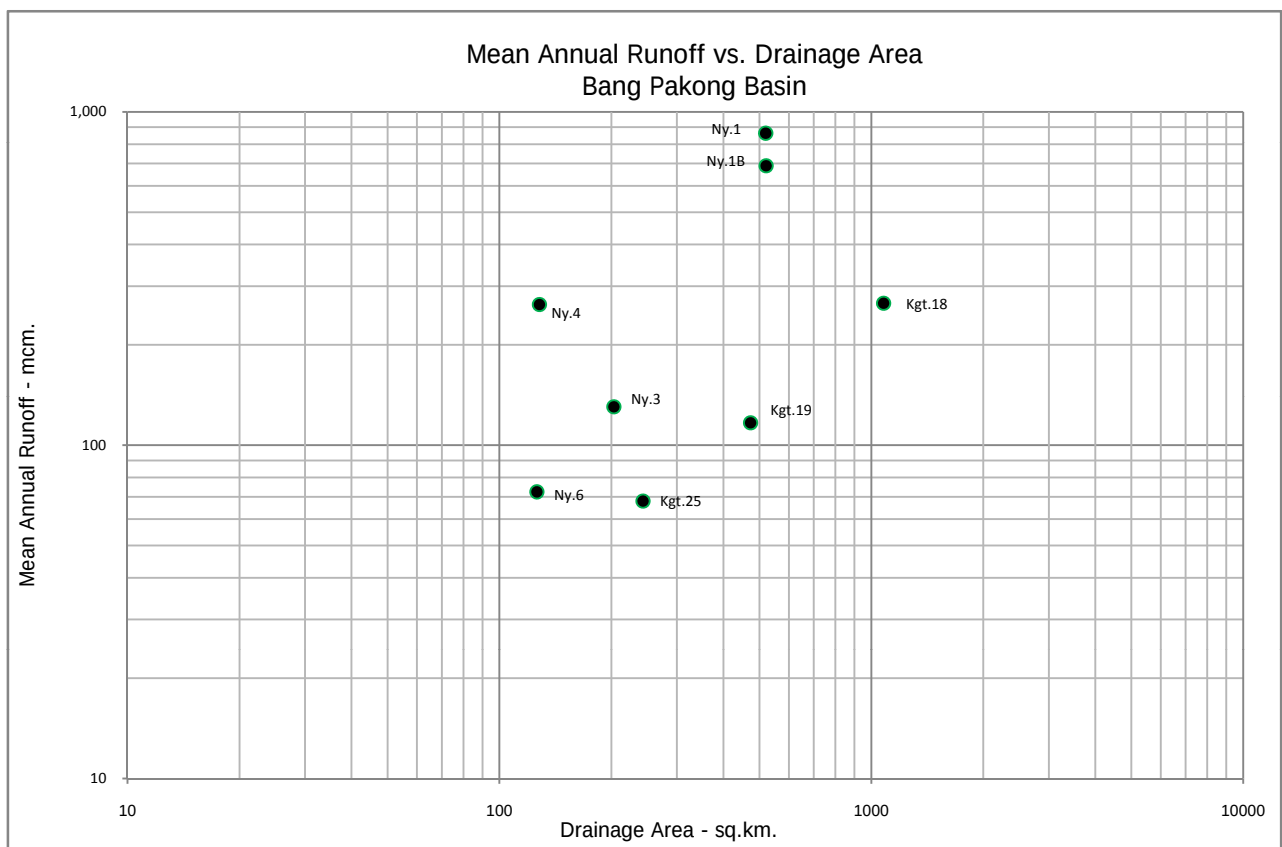
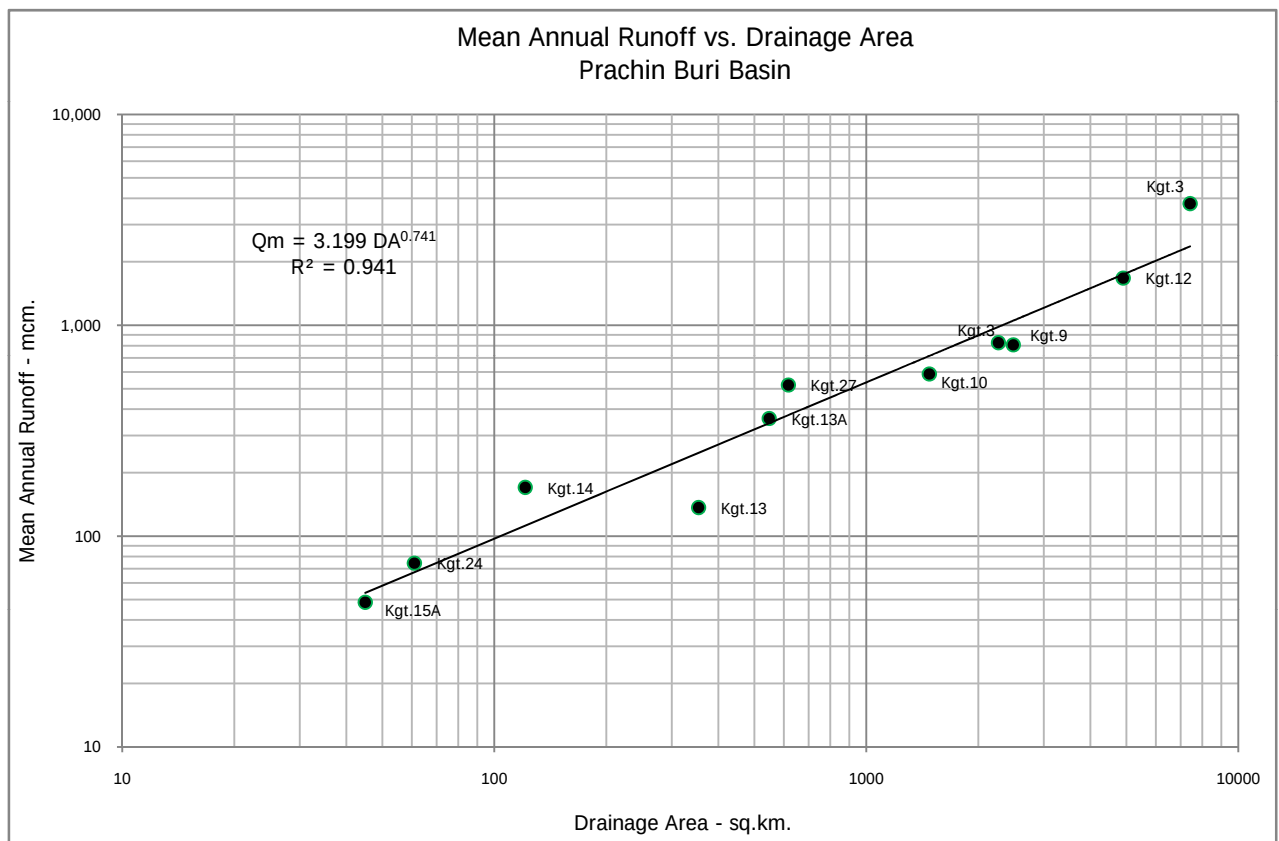


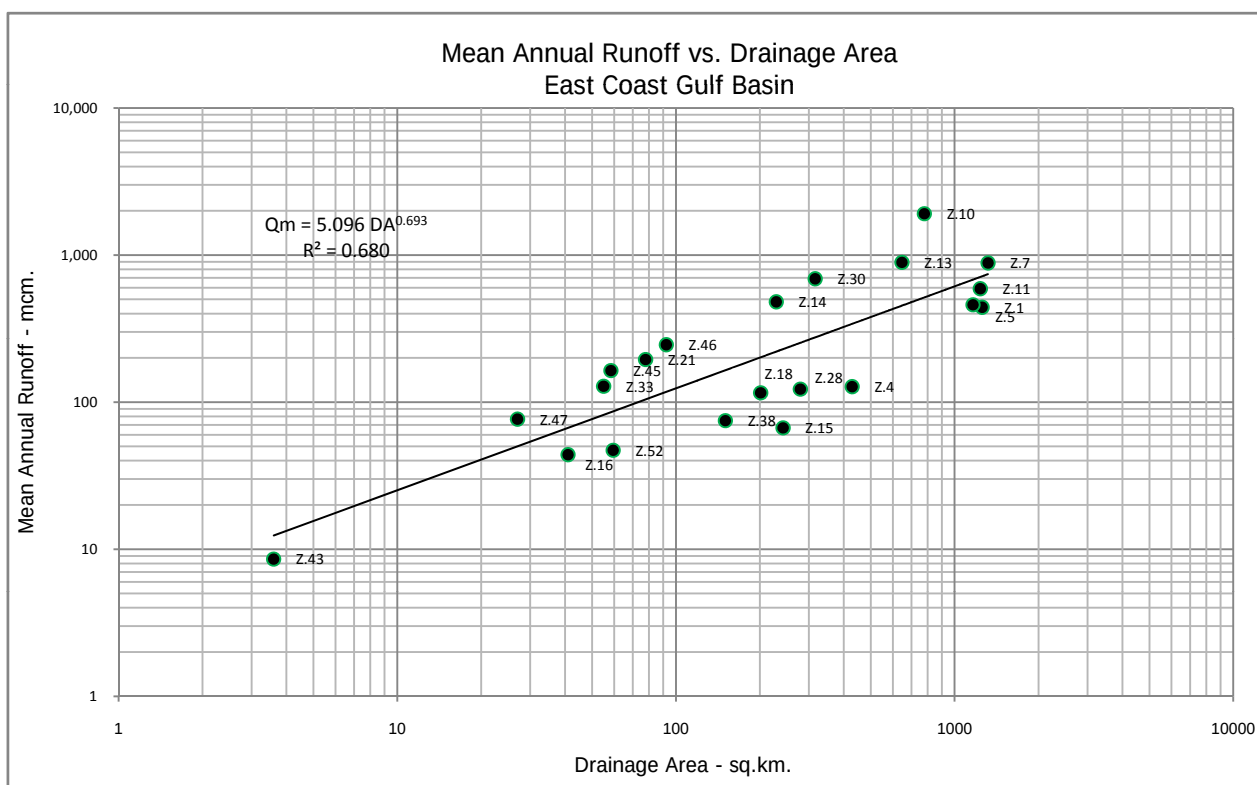
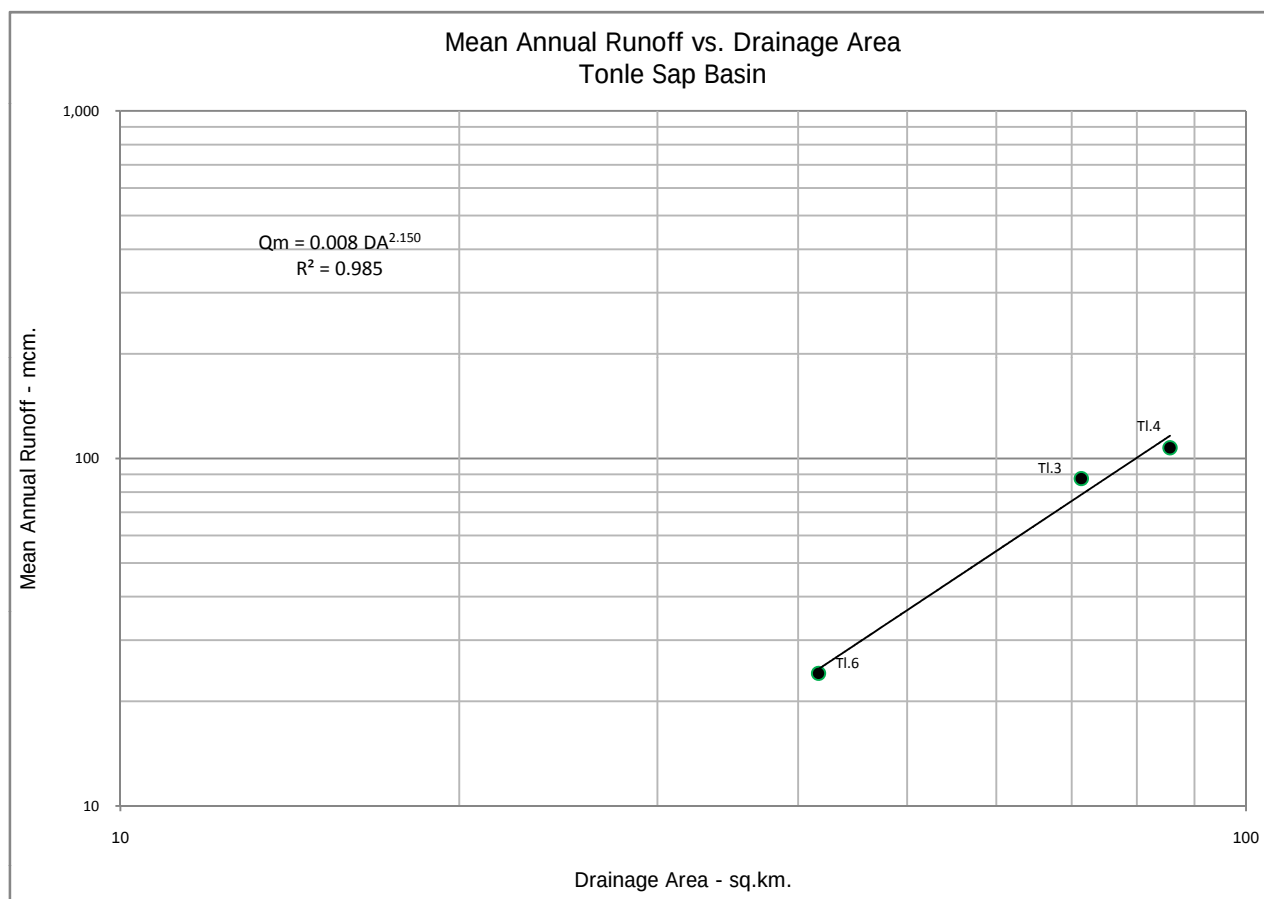


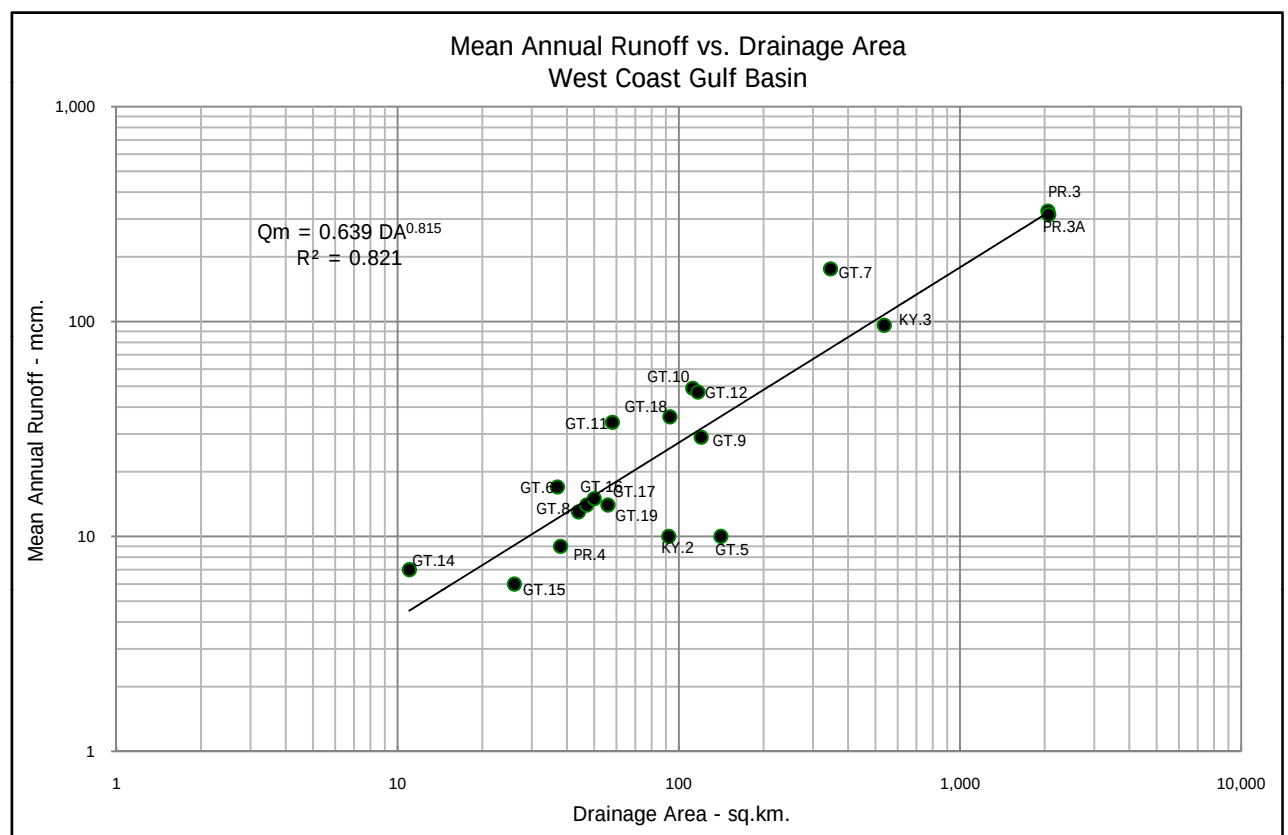
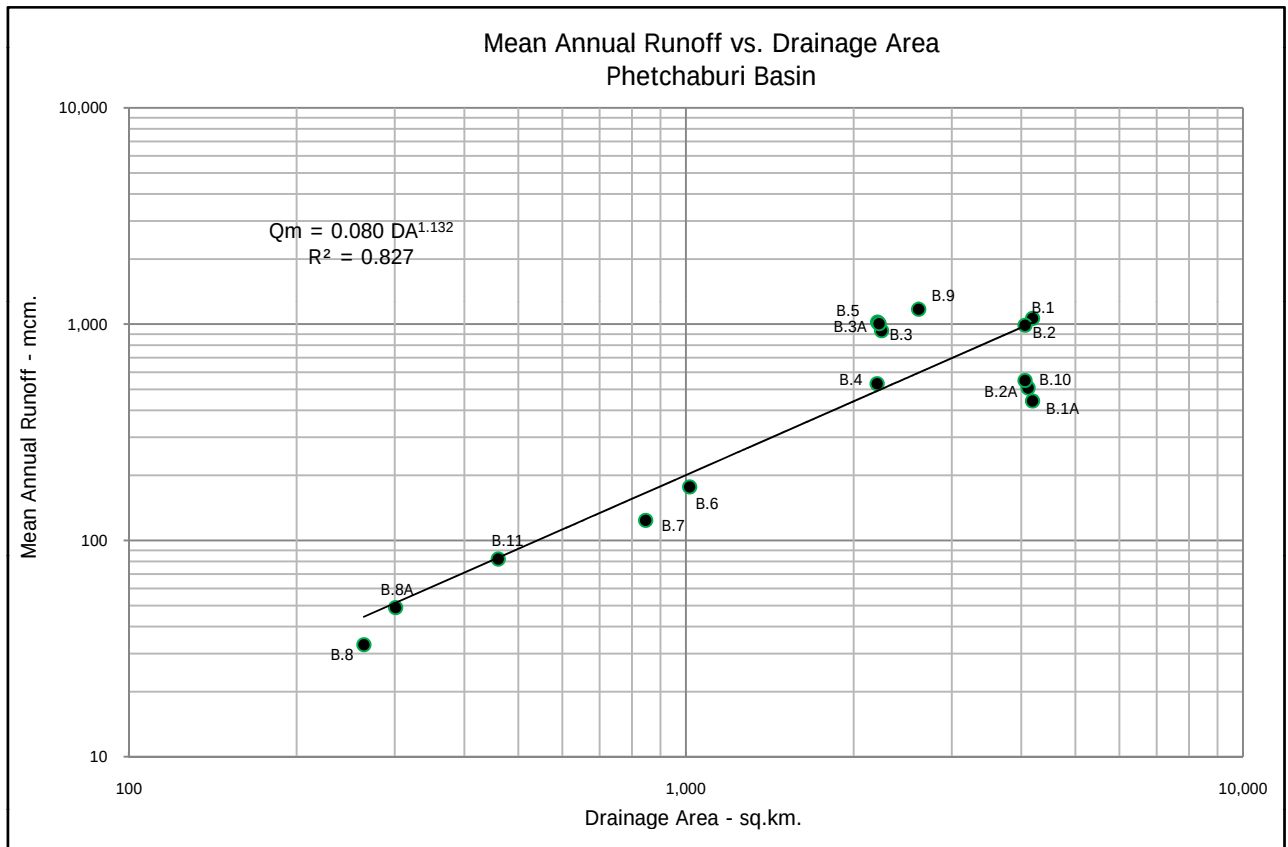


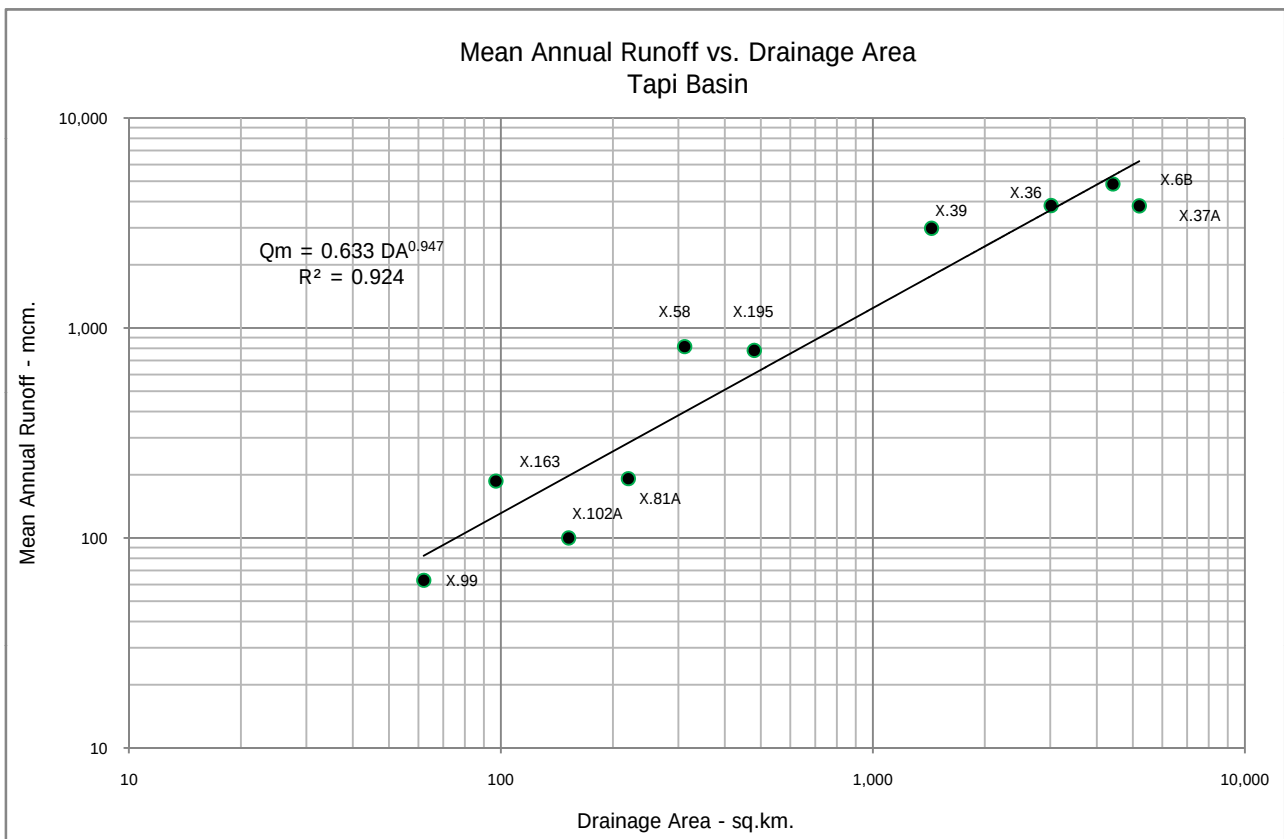
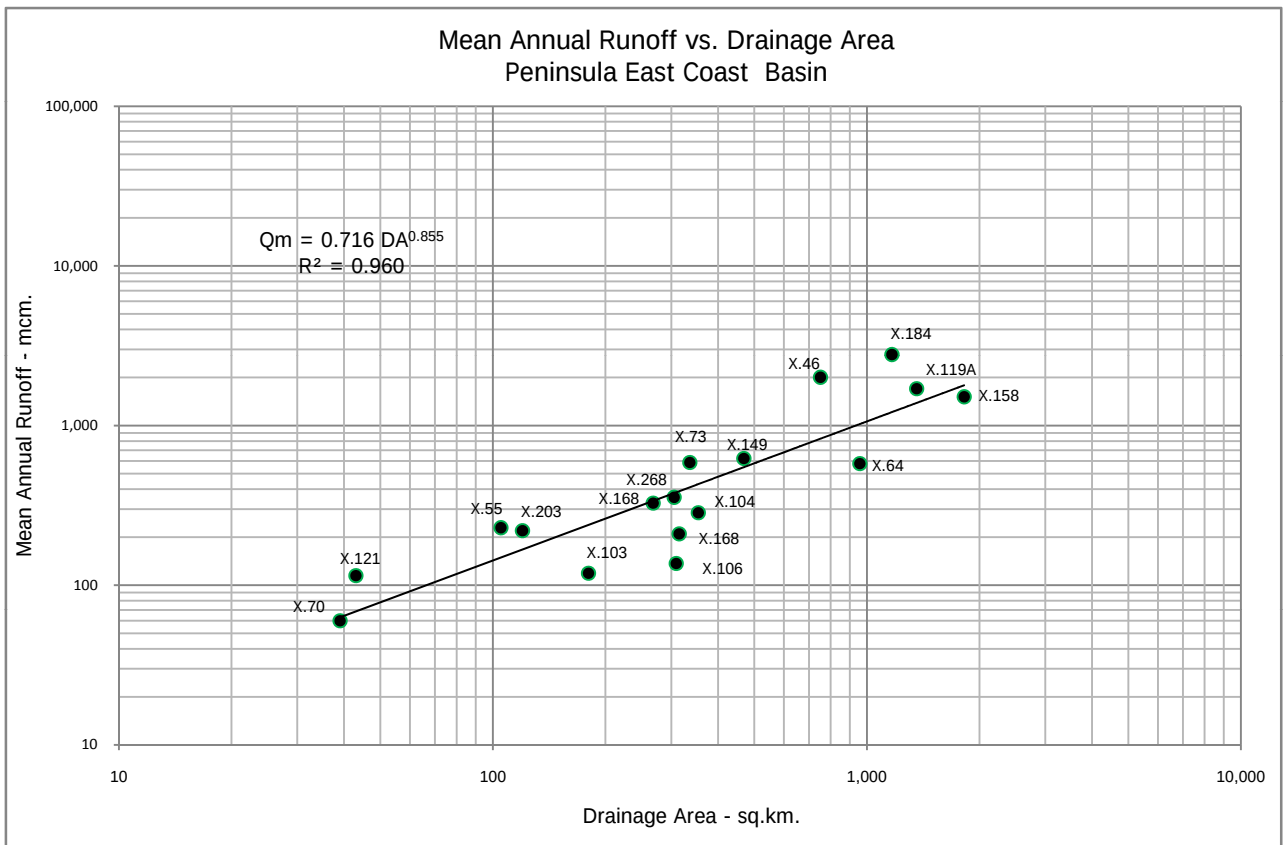


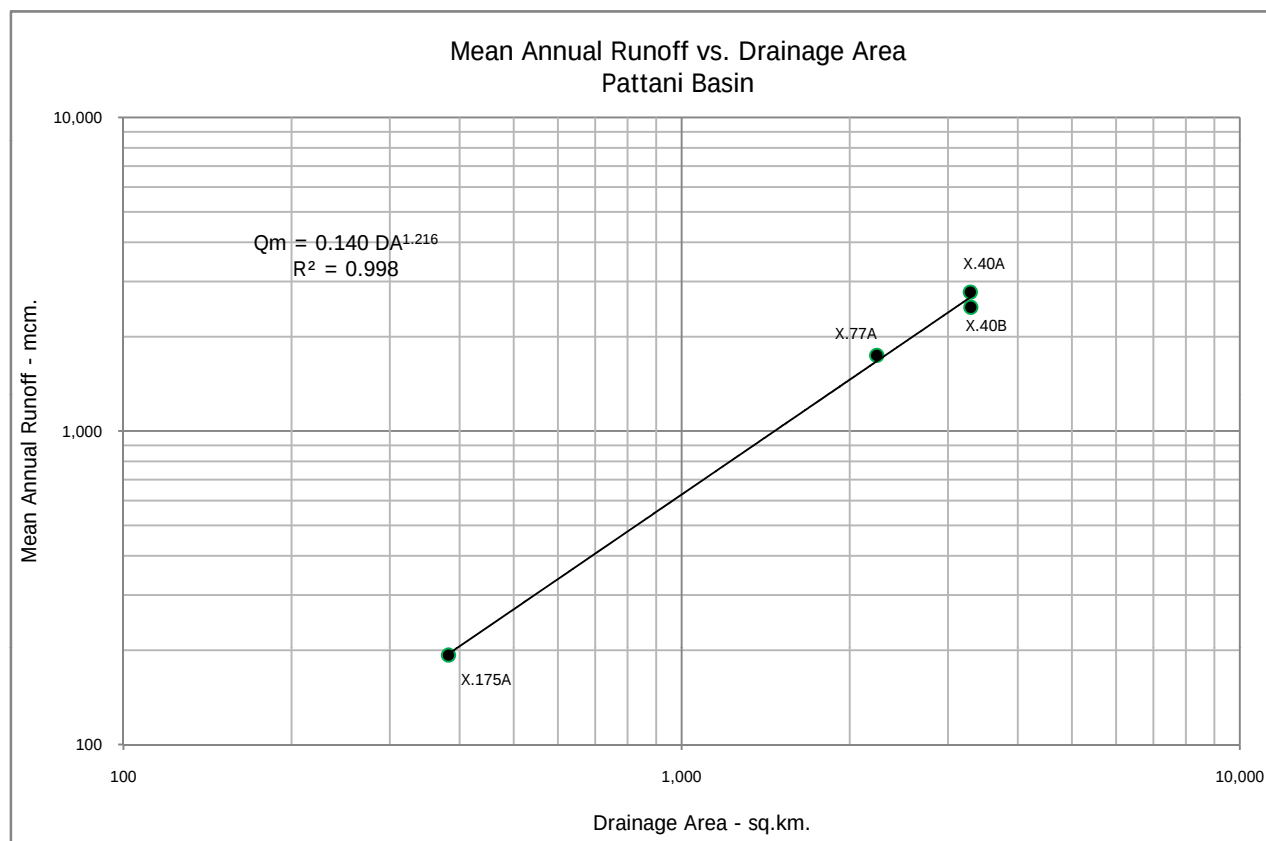
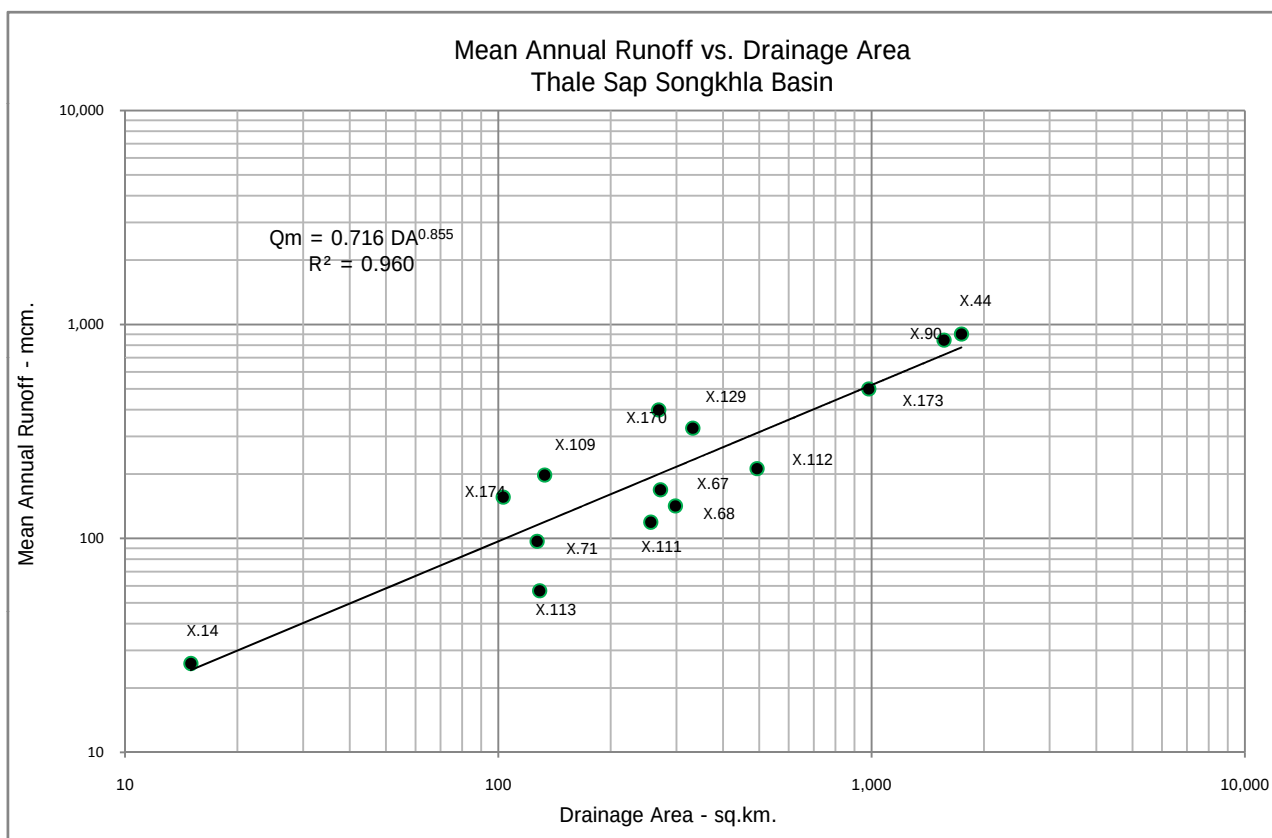




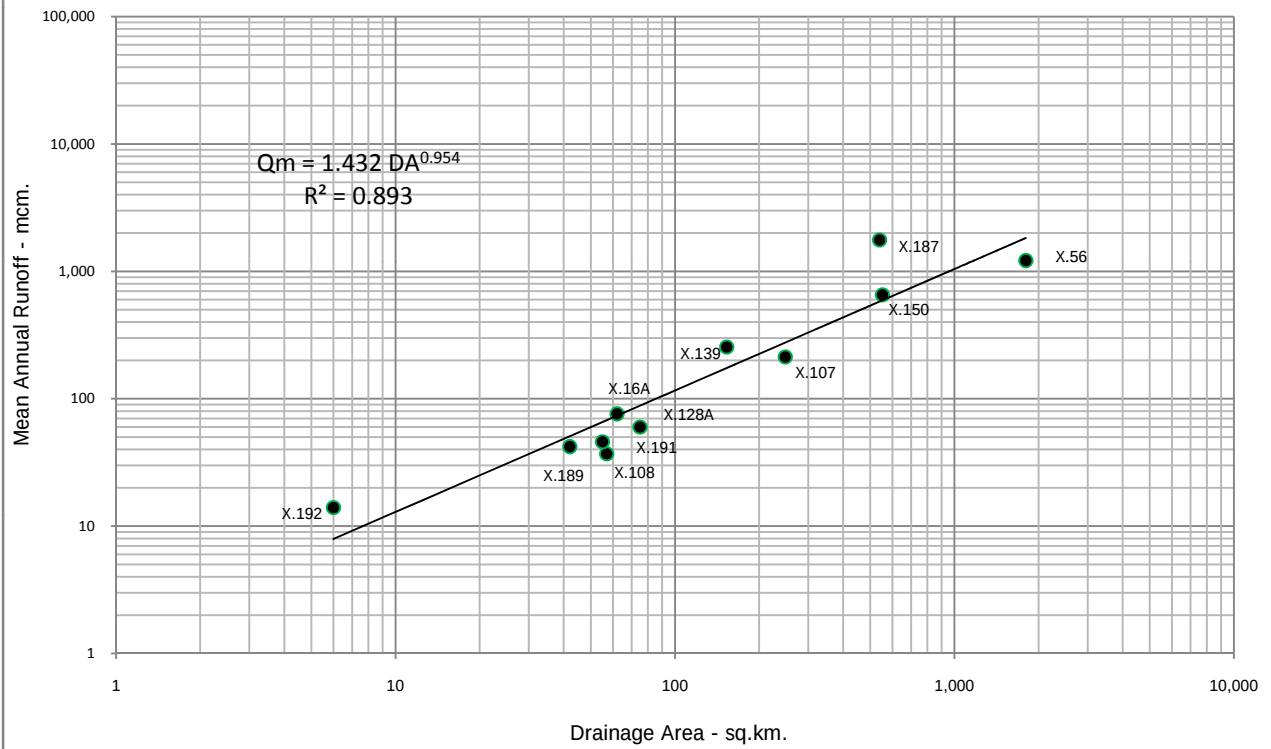






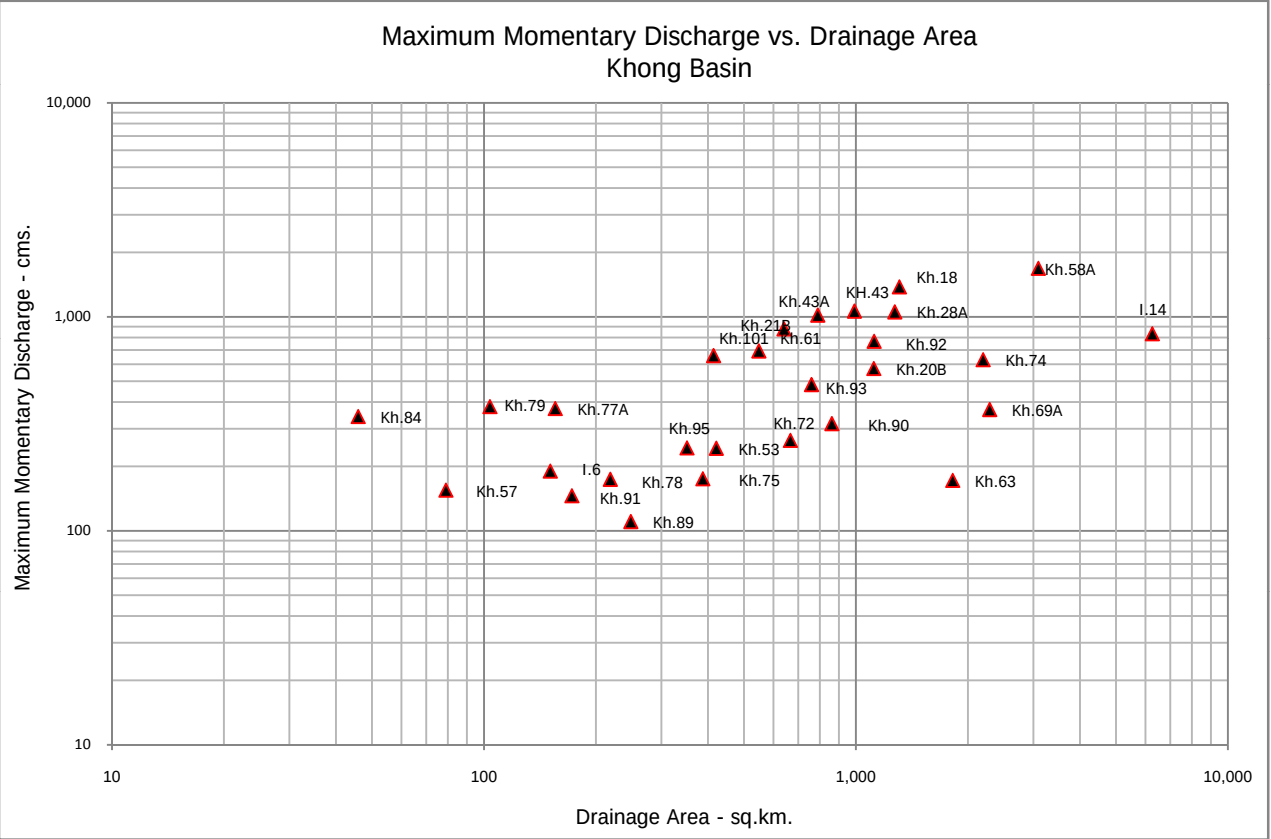
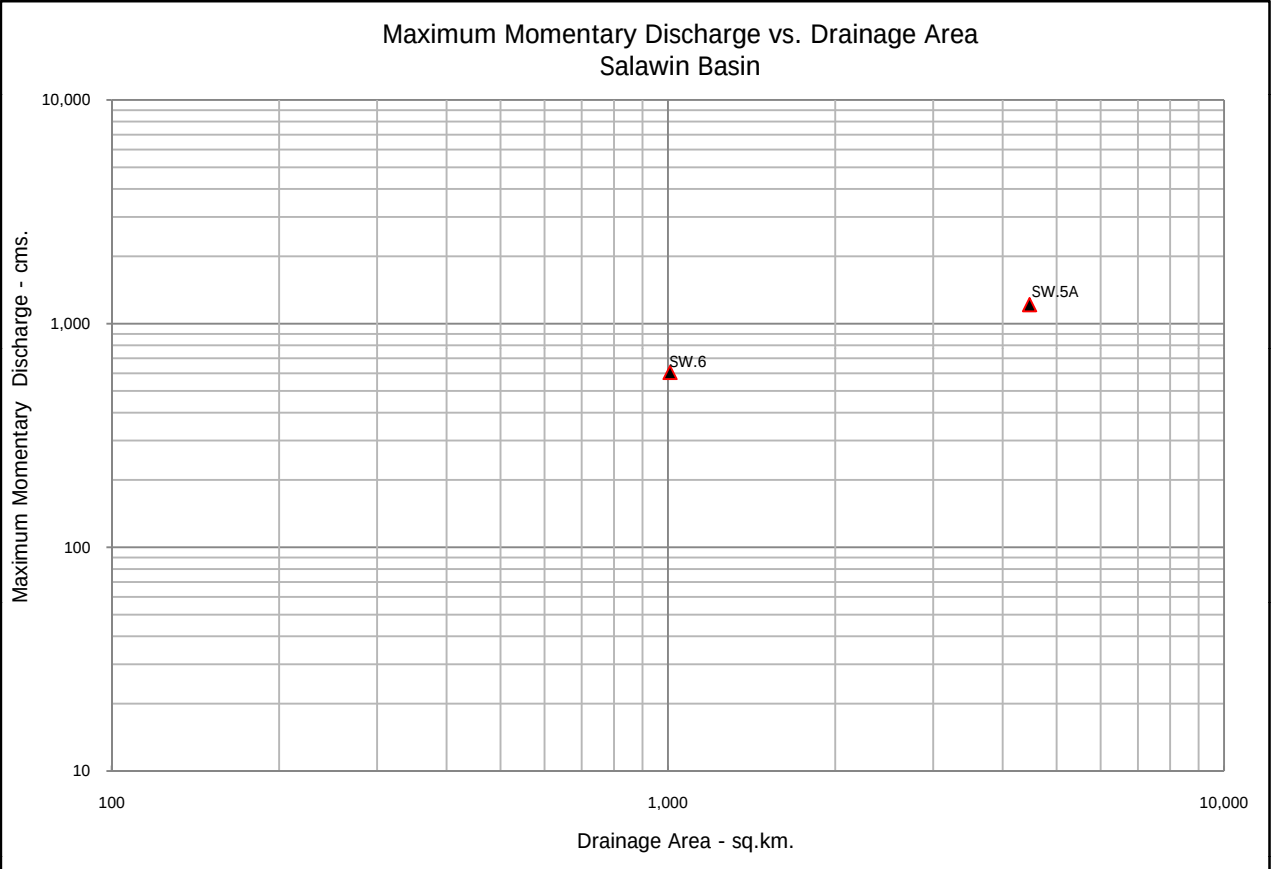


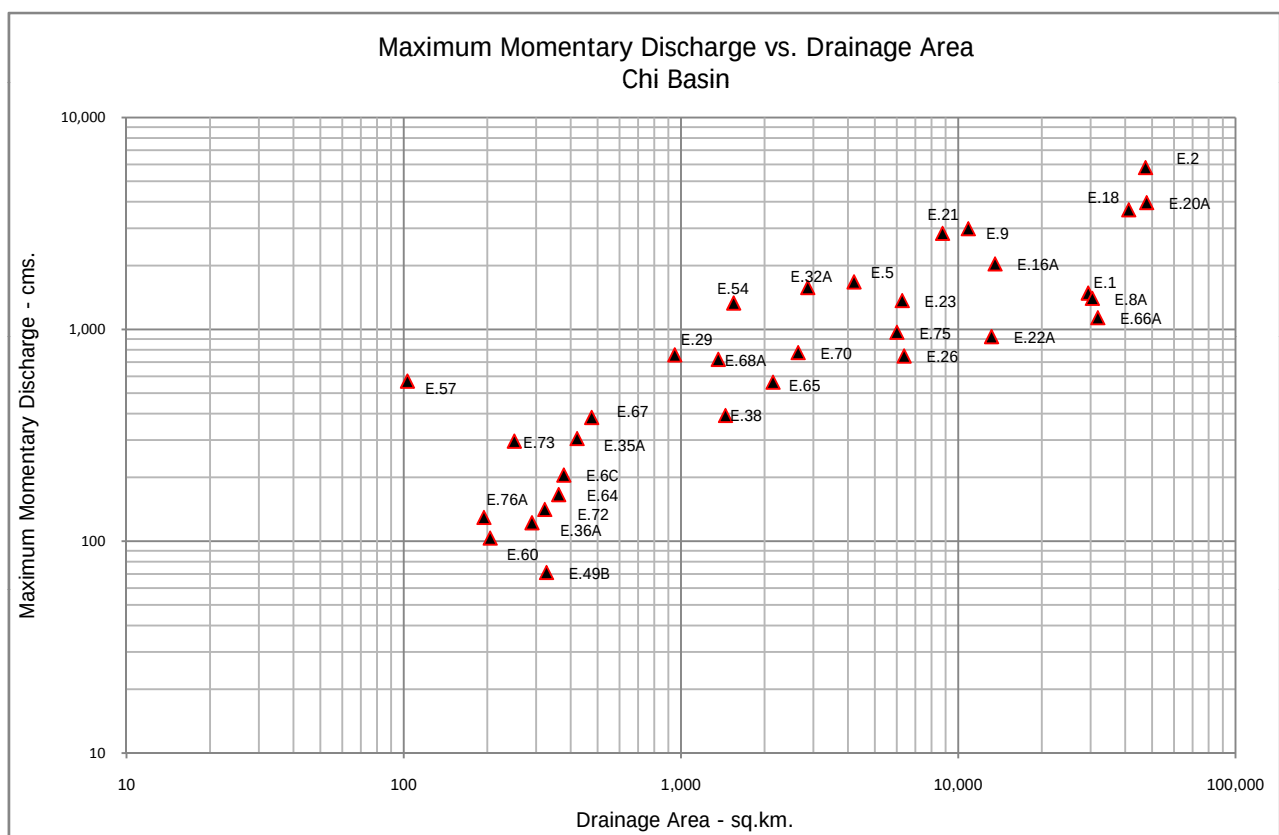
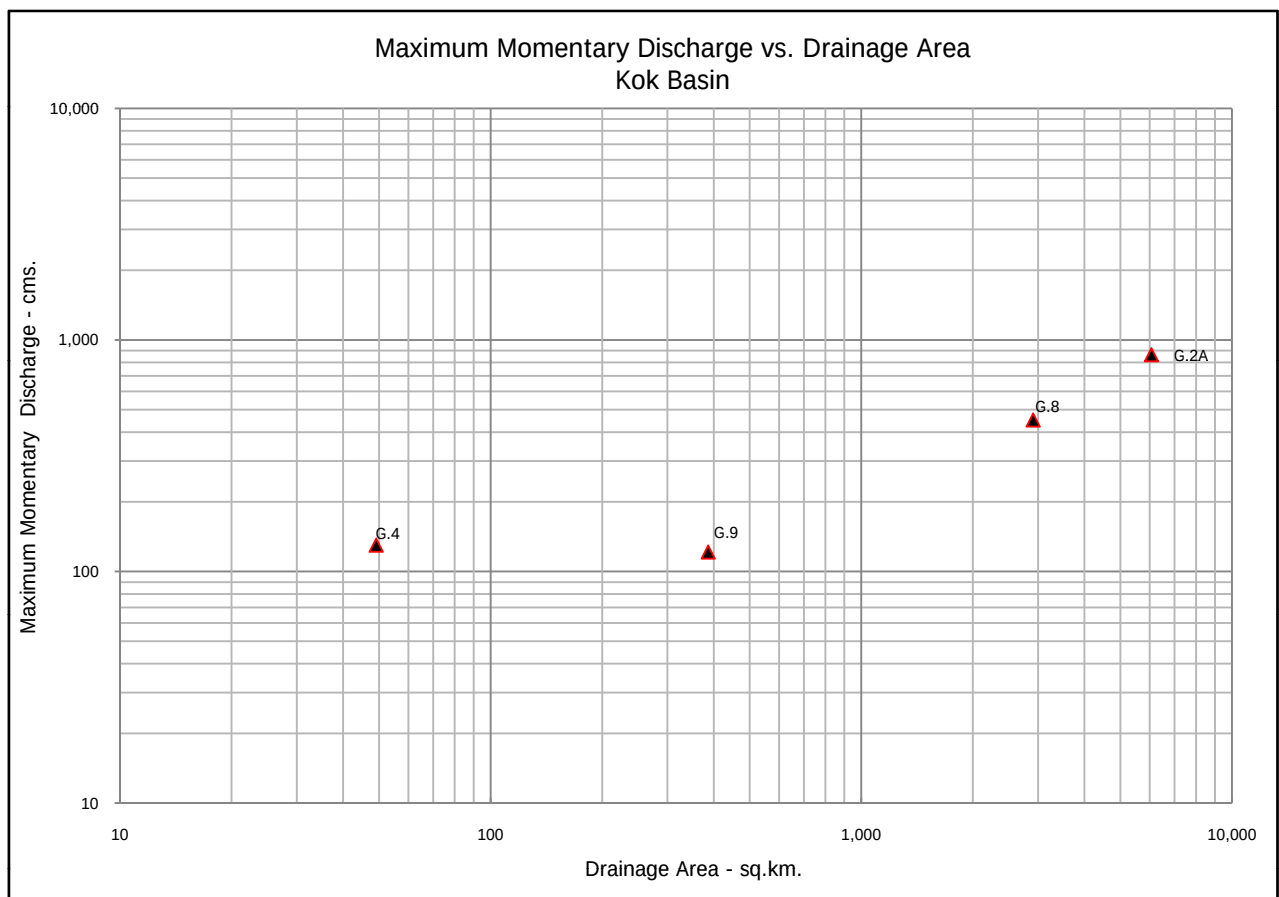
Mean Annual Runoff vs. Drainage Area
Peninsula West Coast Basin

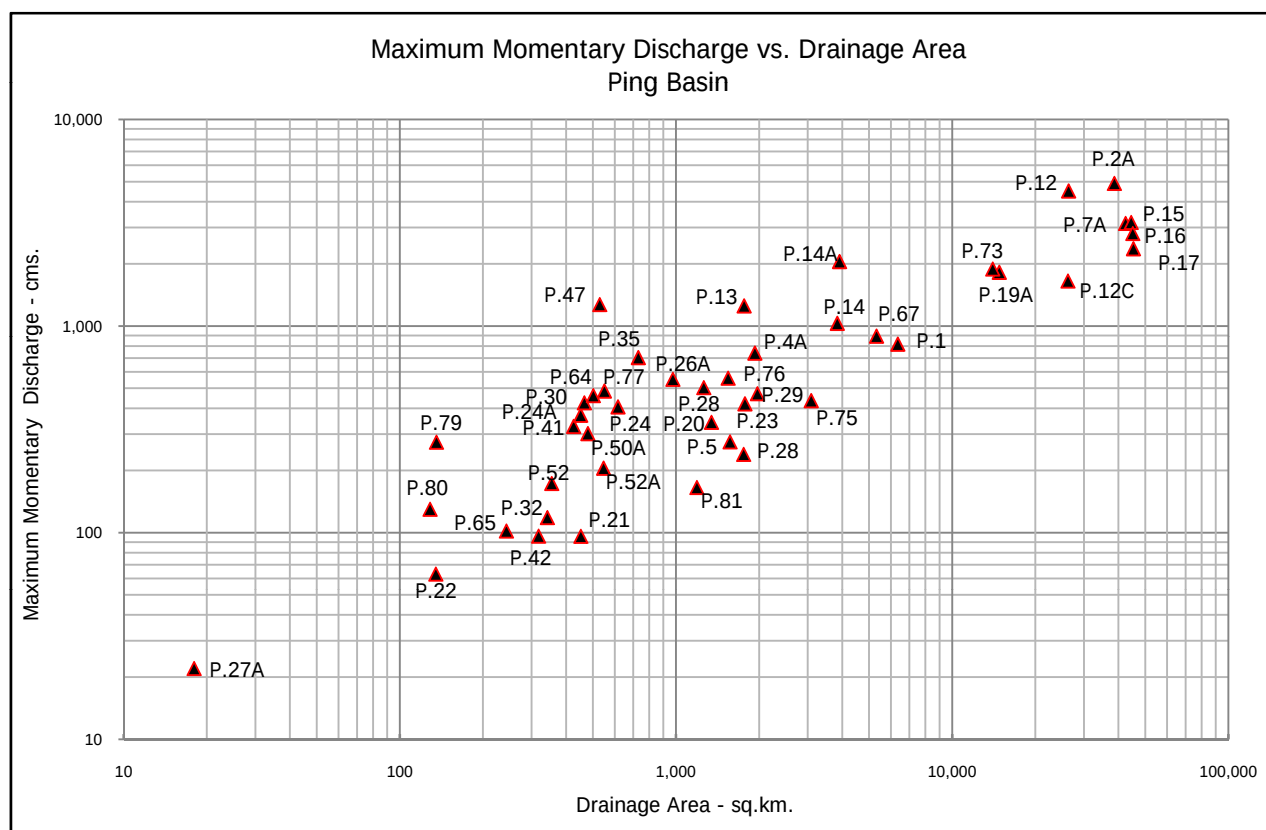
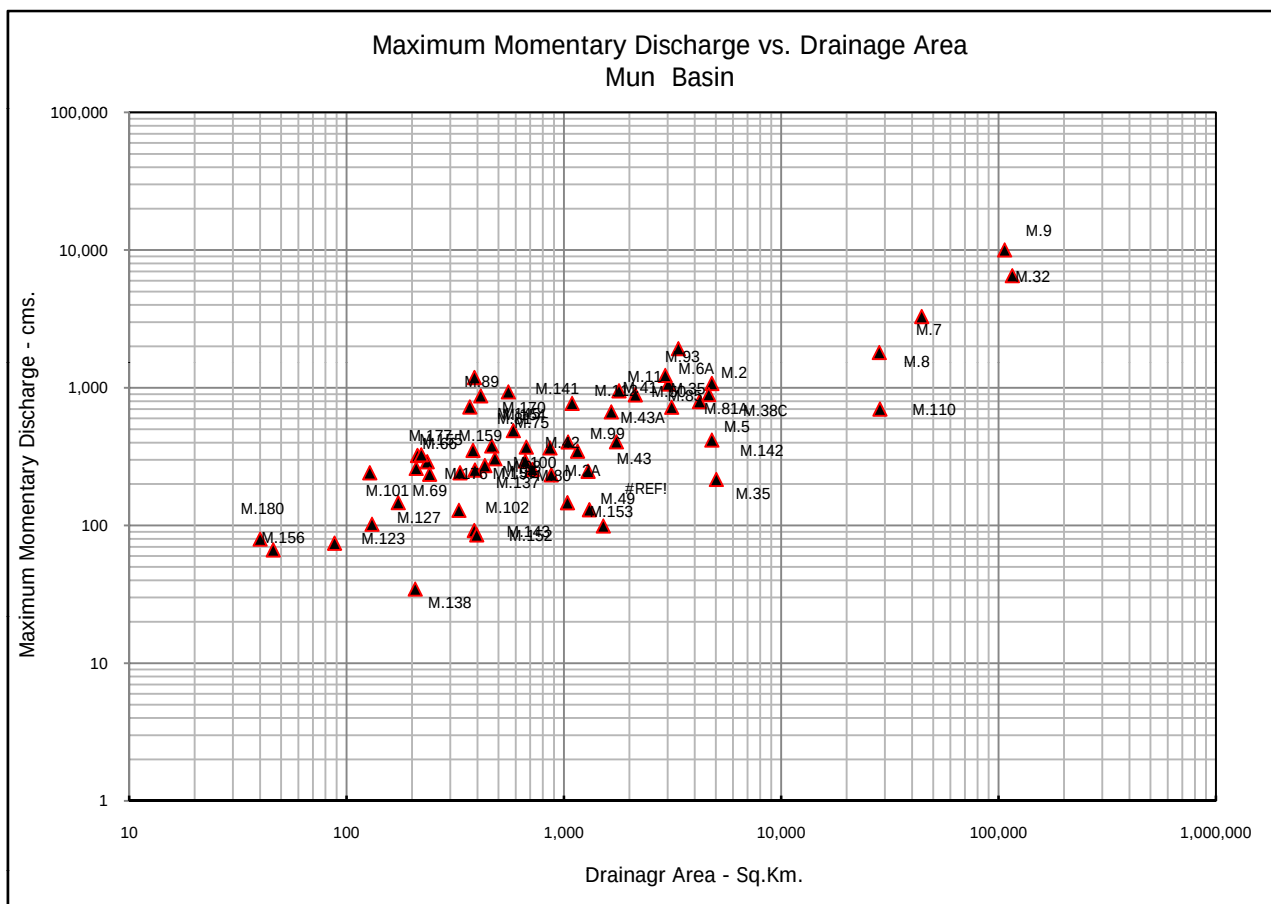


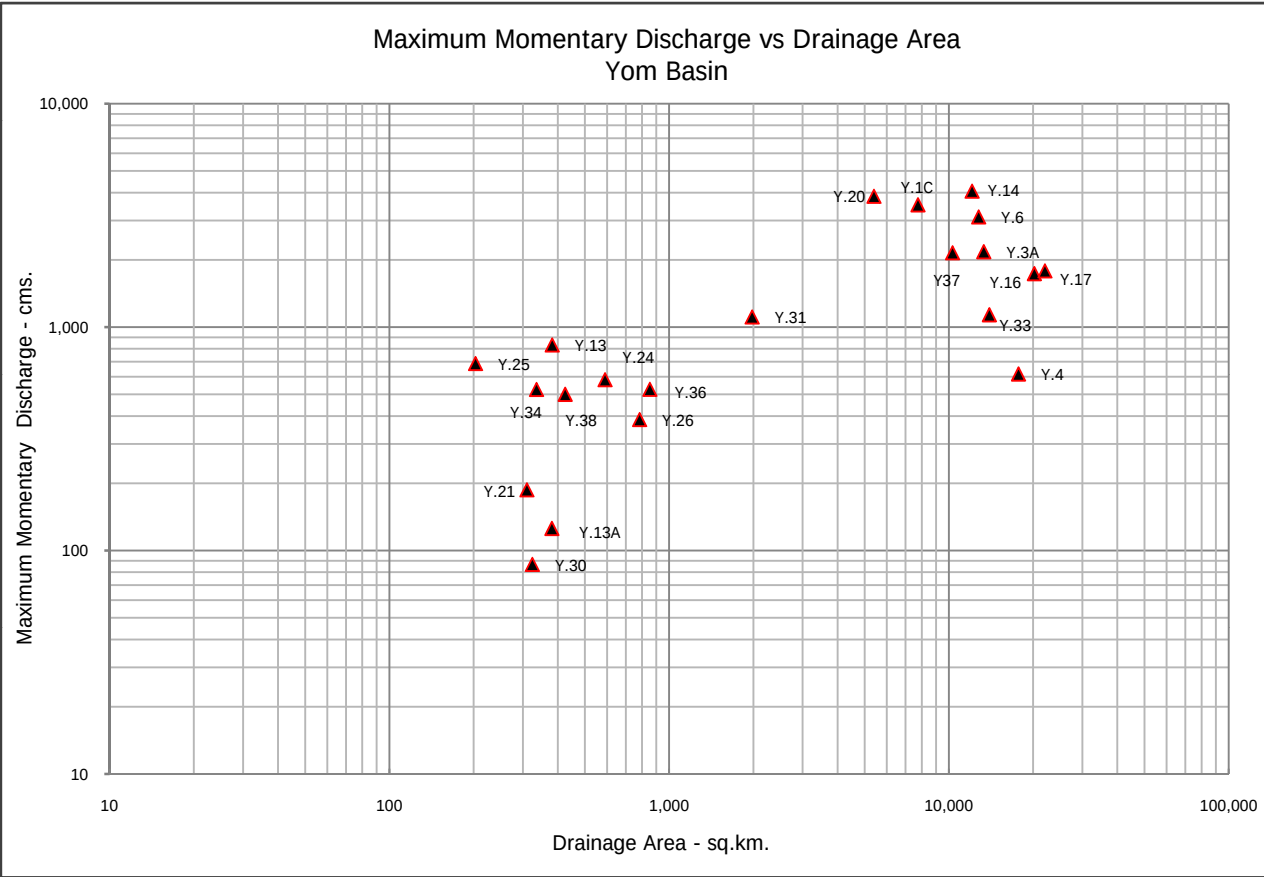
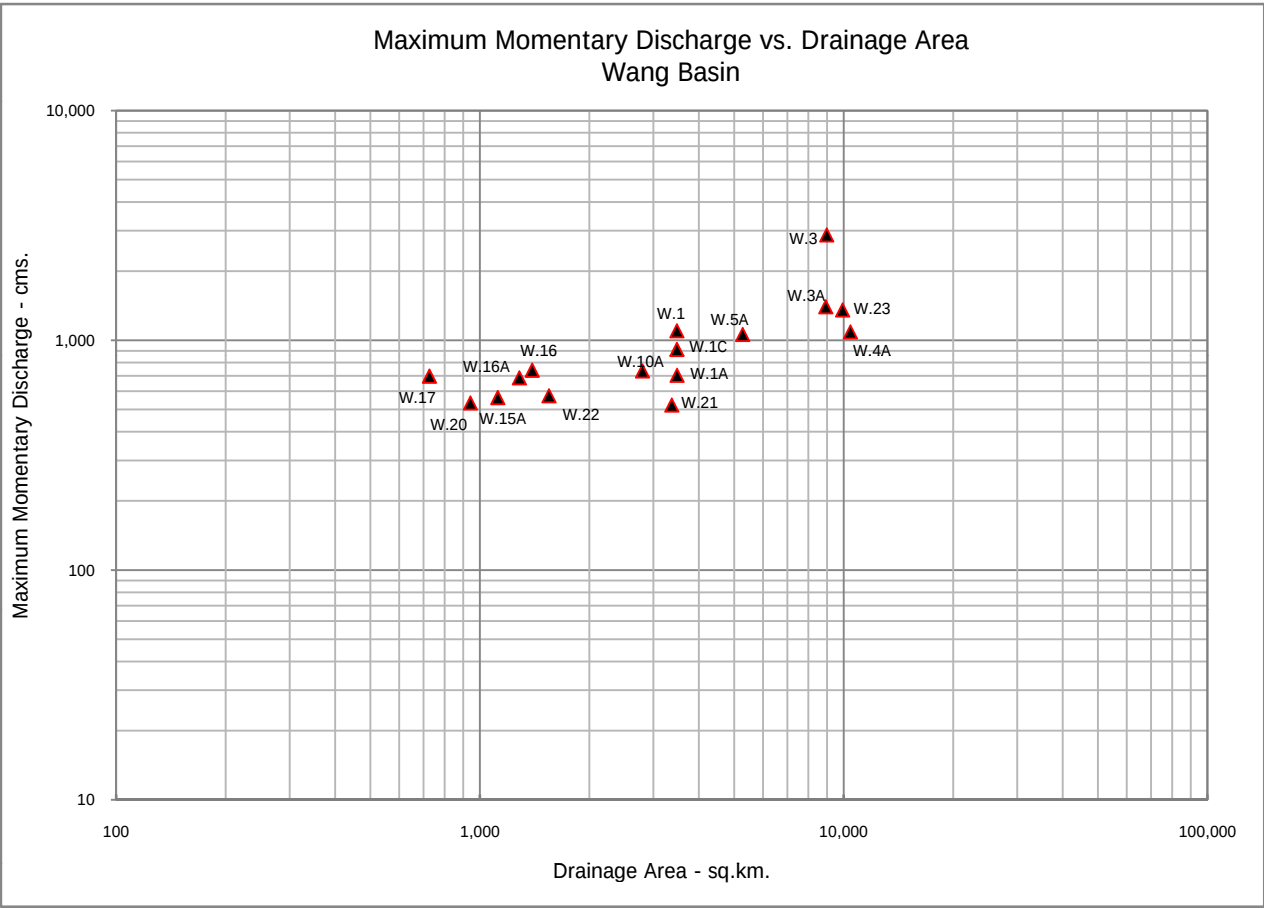
Appendix C

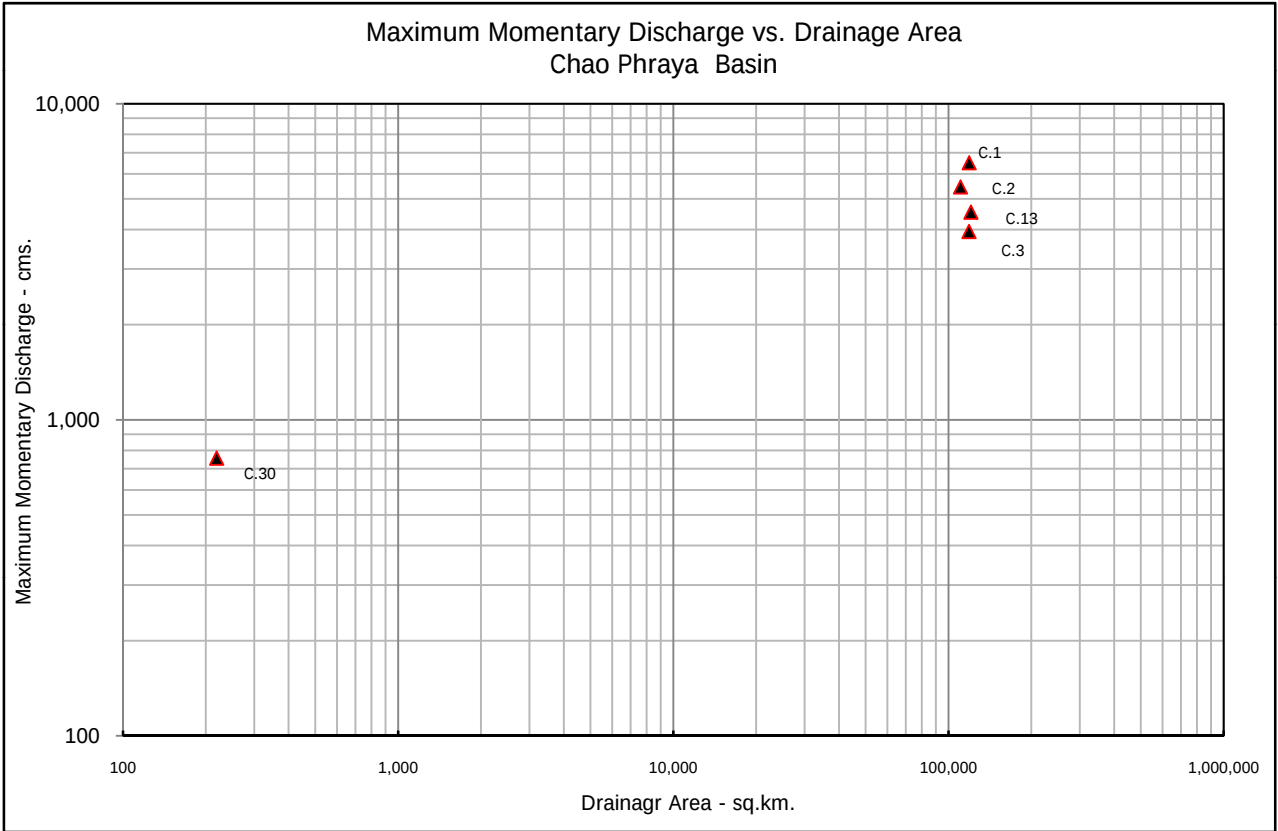
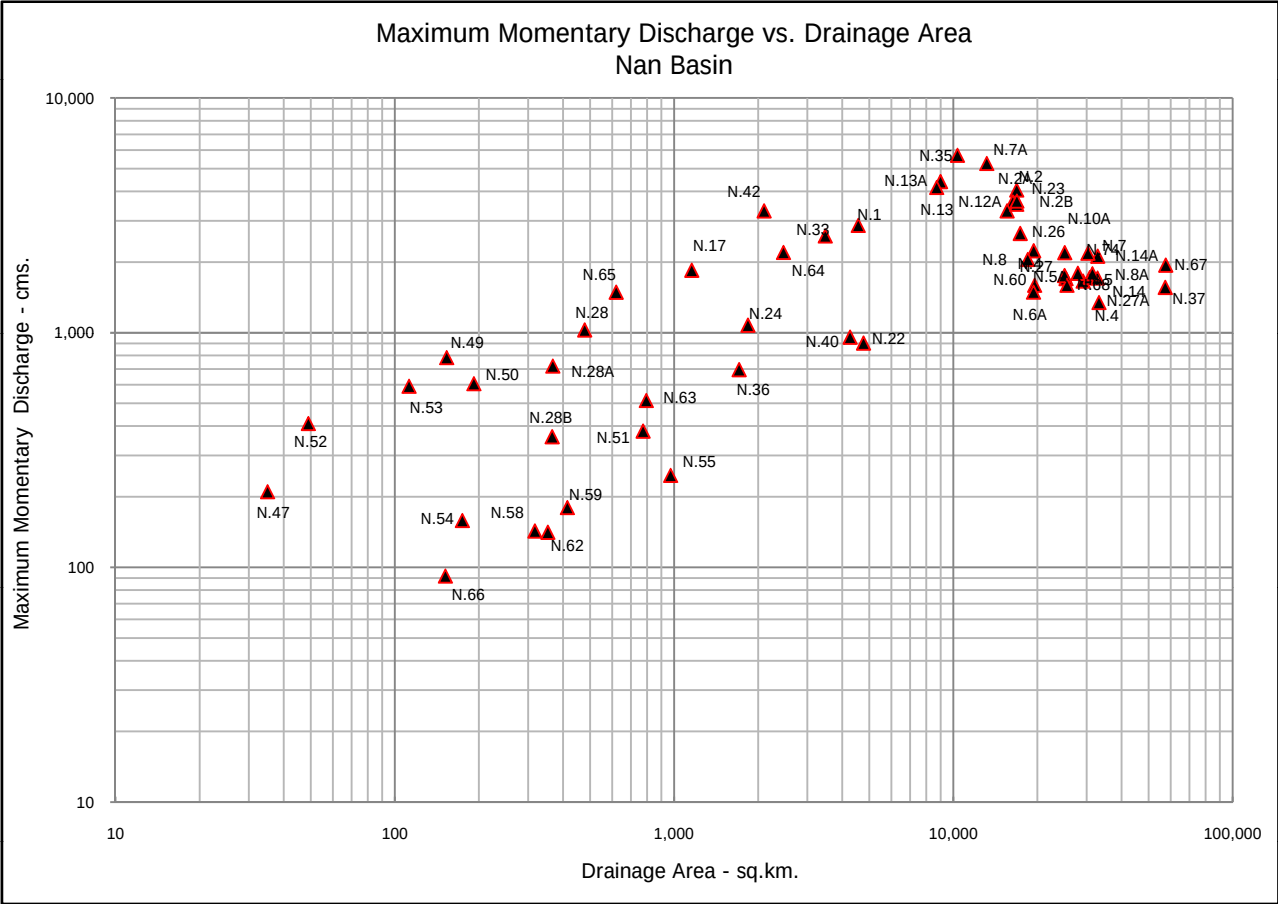
Maximum Momentary Discharge vs. Drainage Area
(Up to 2011)

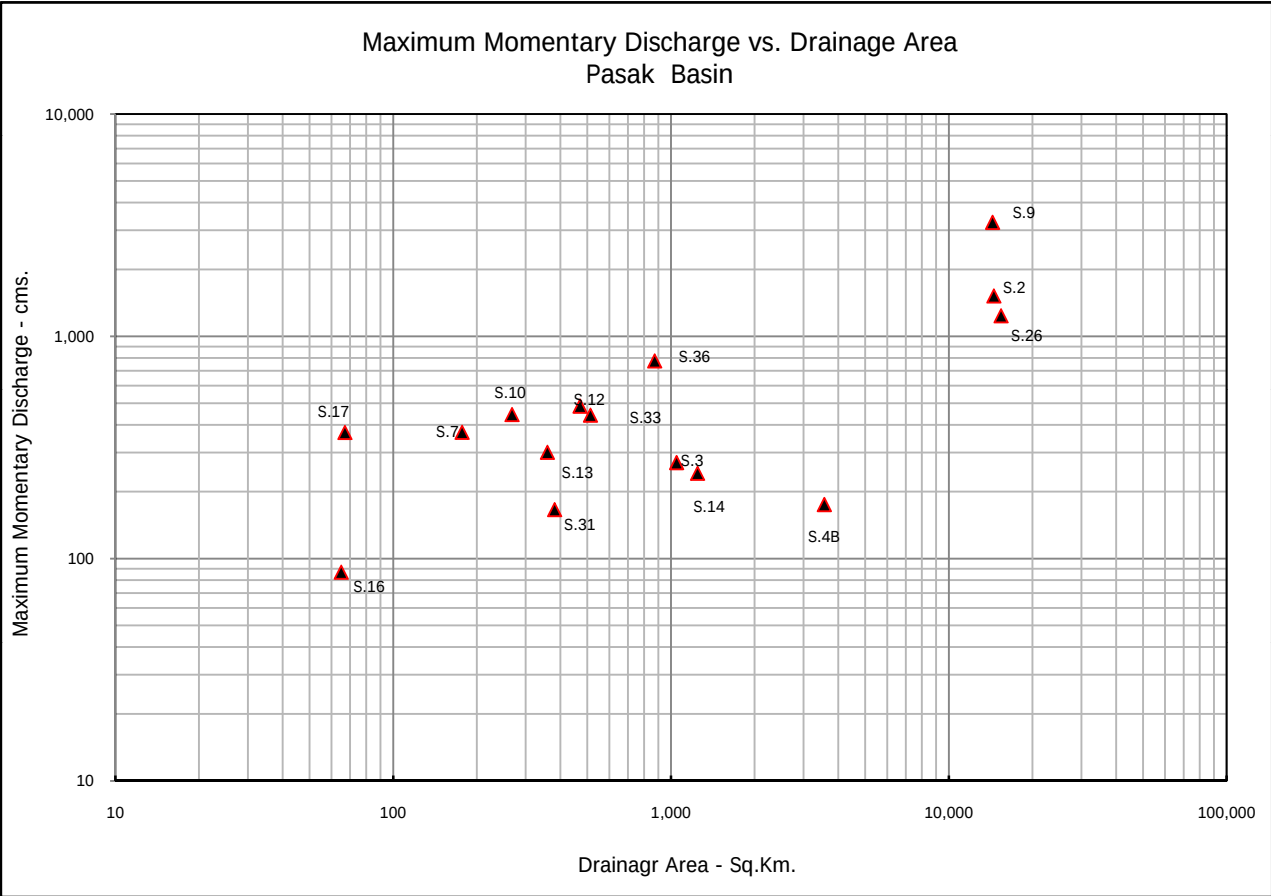
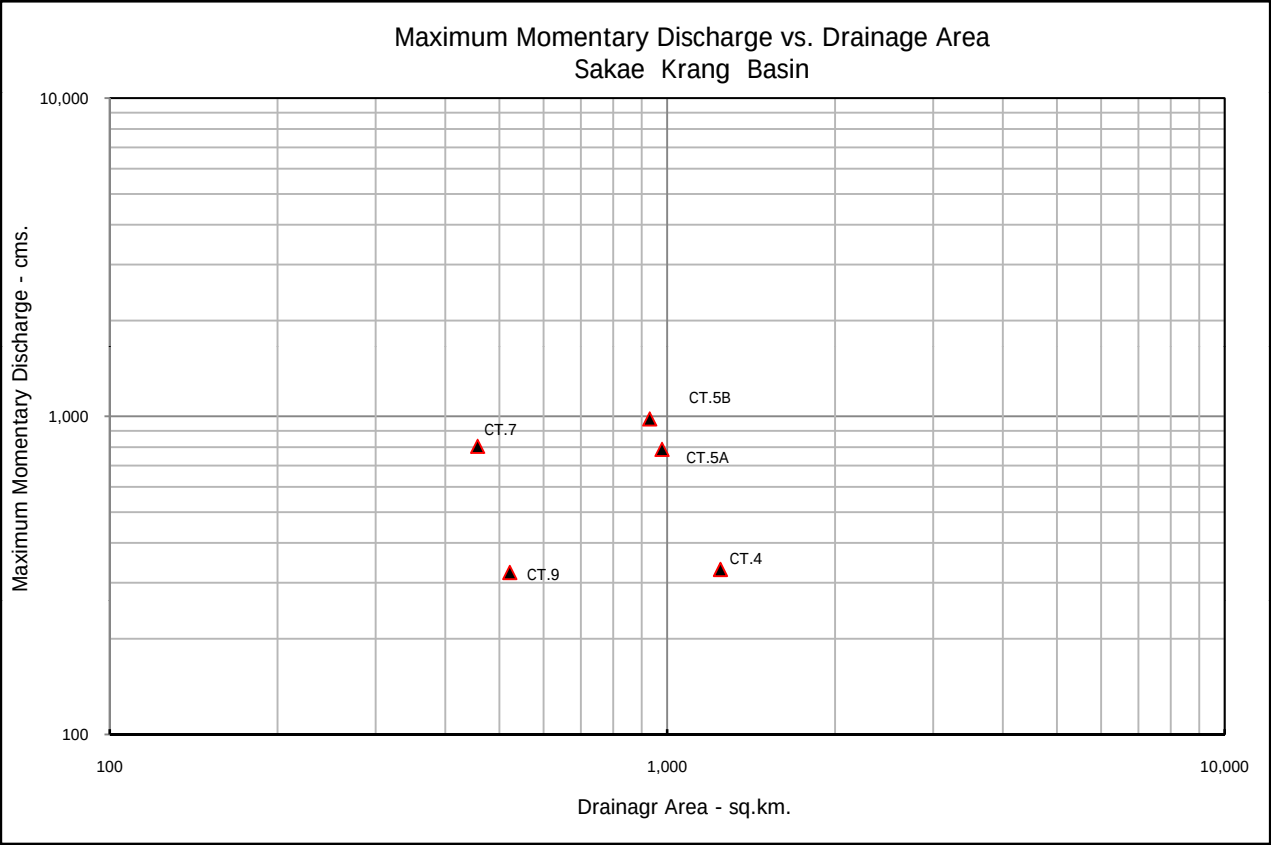


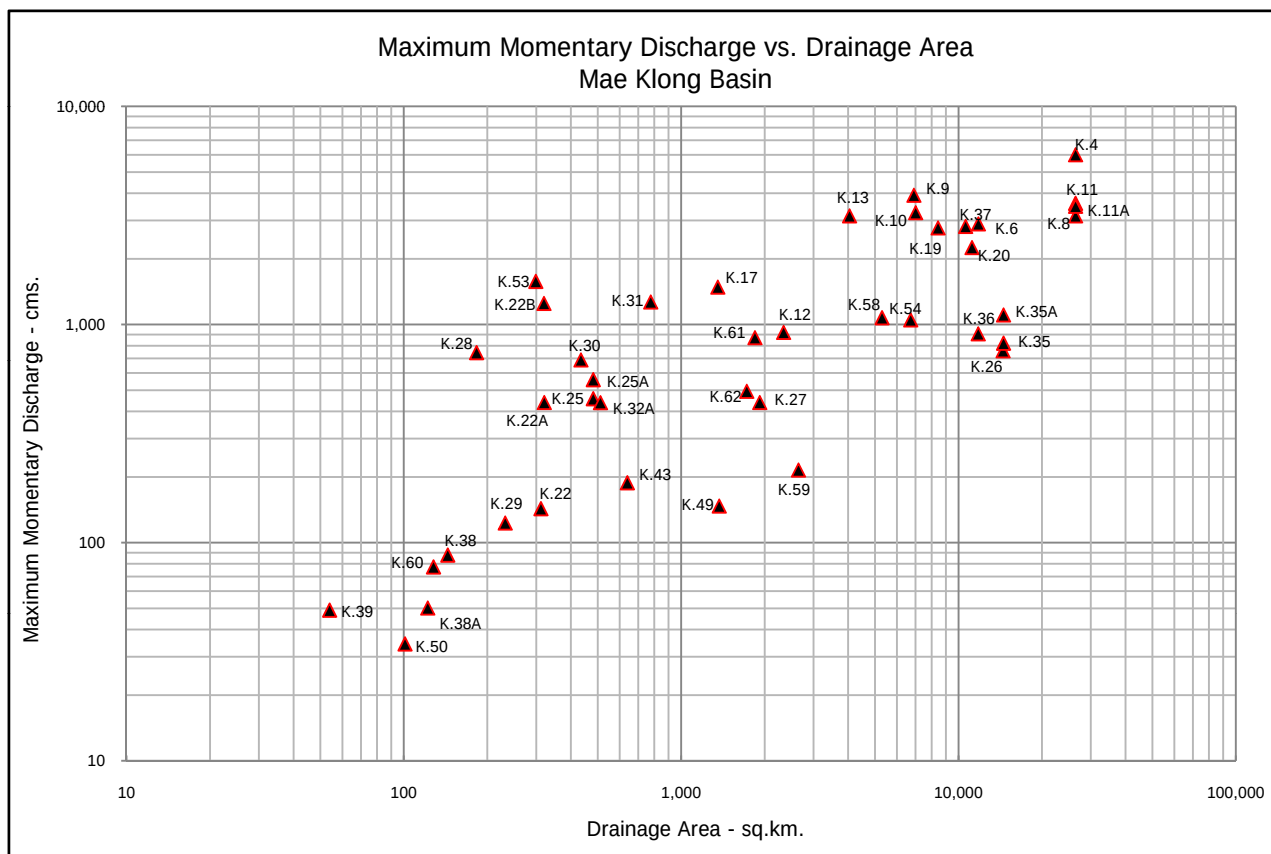
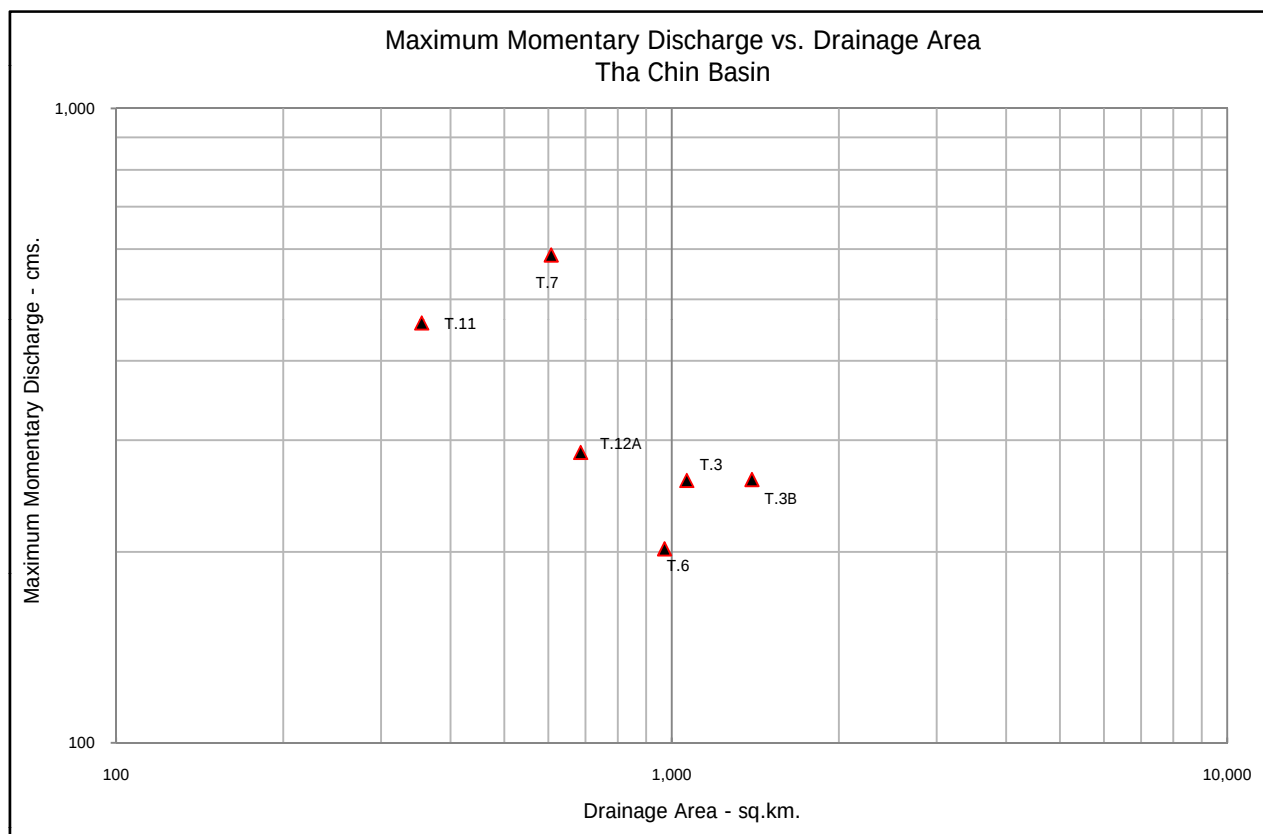


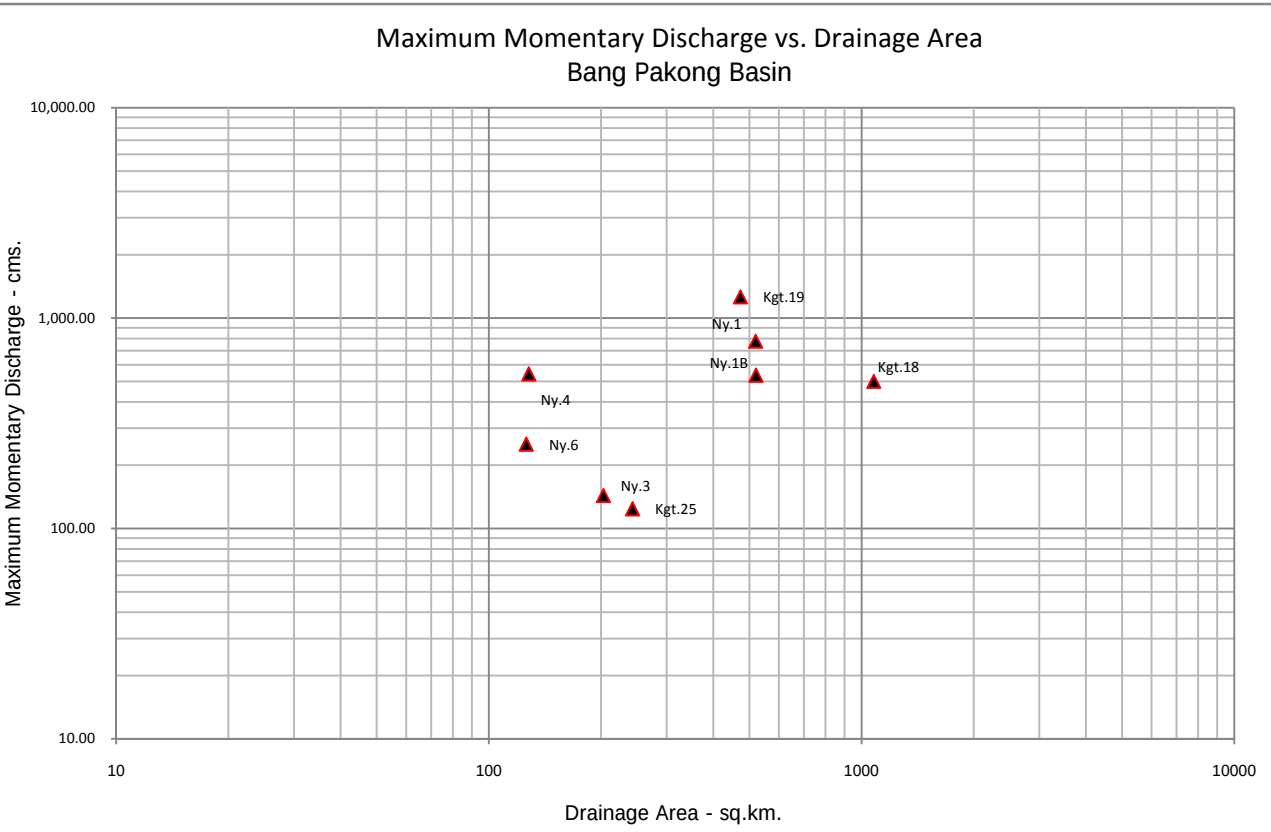
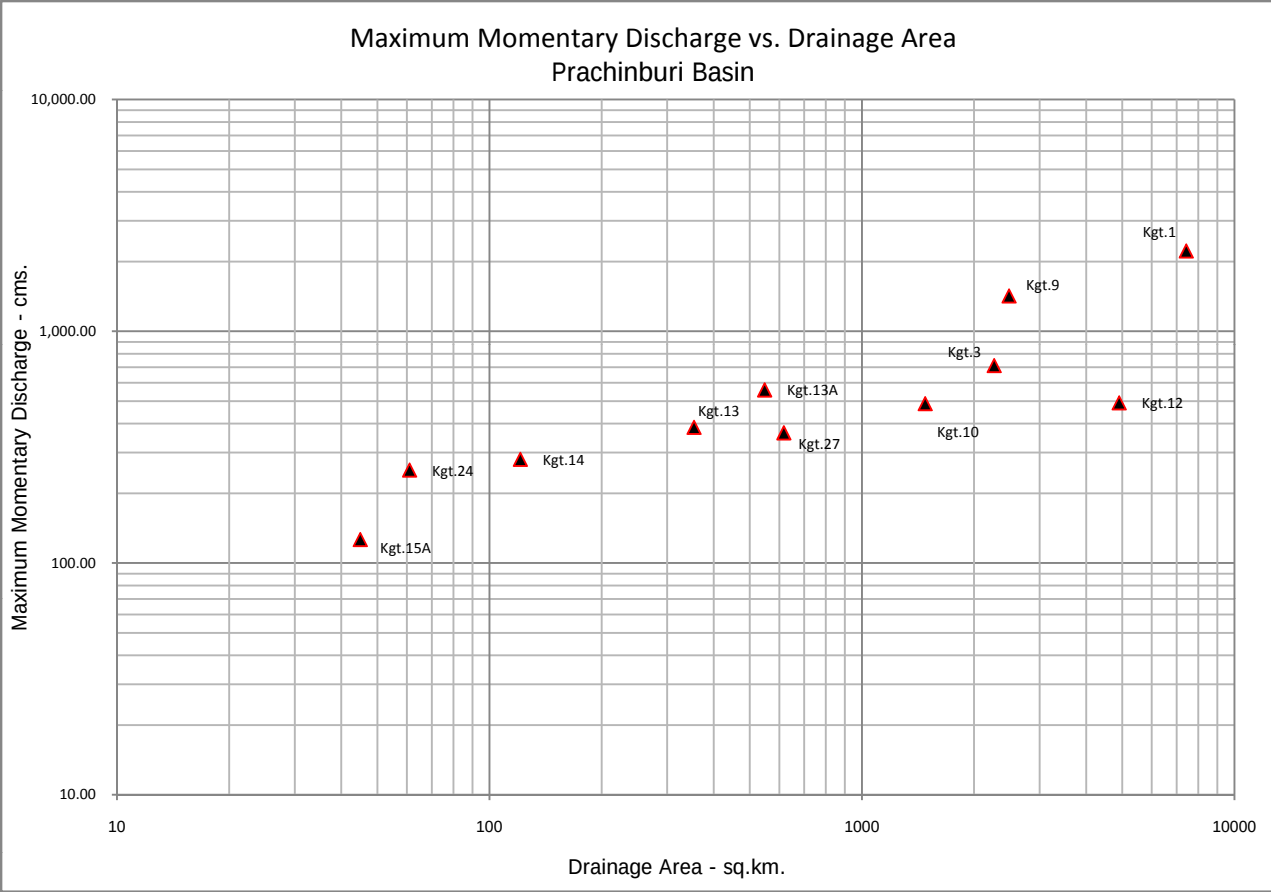


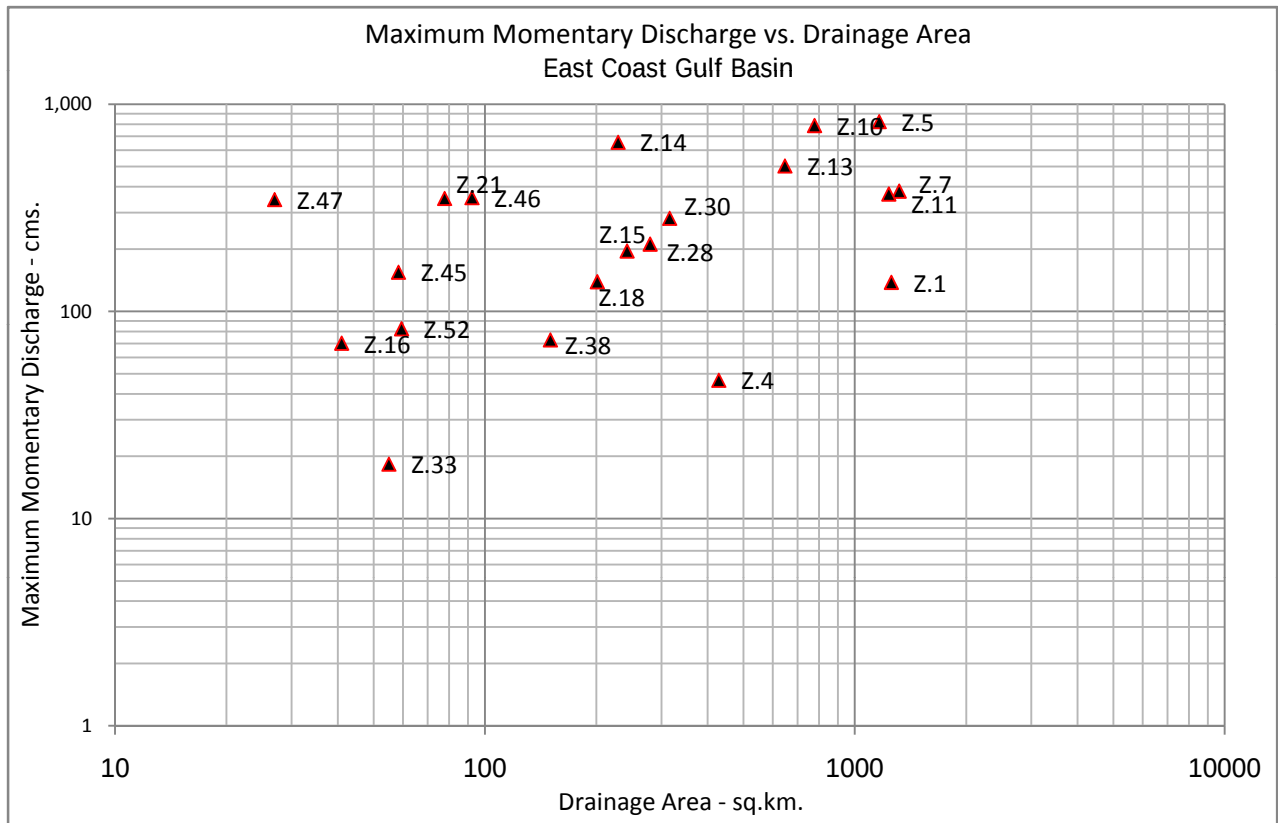
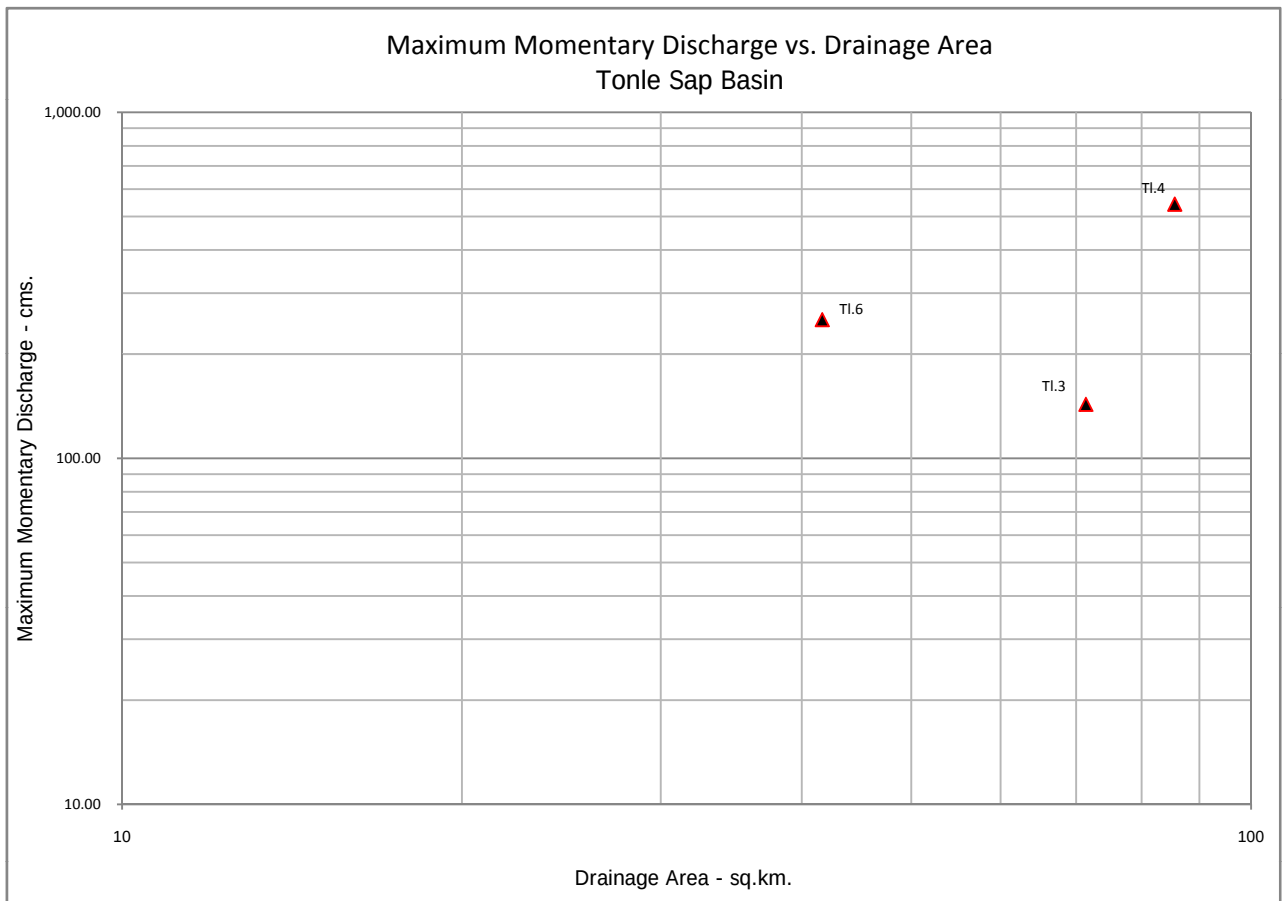


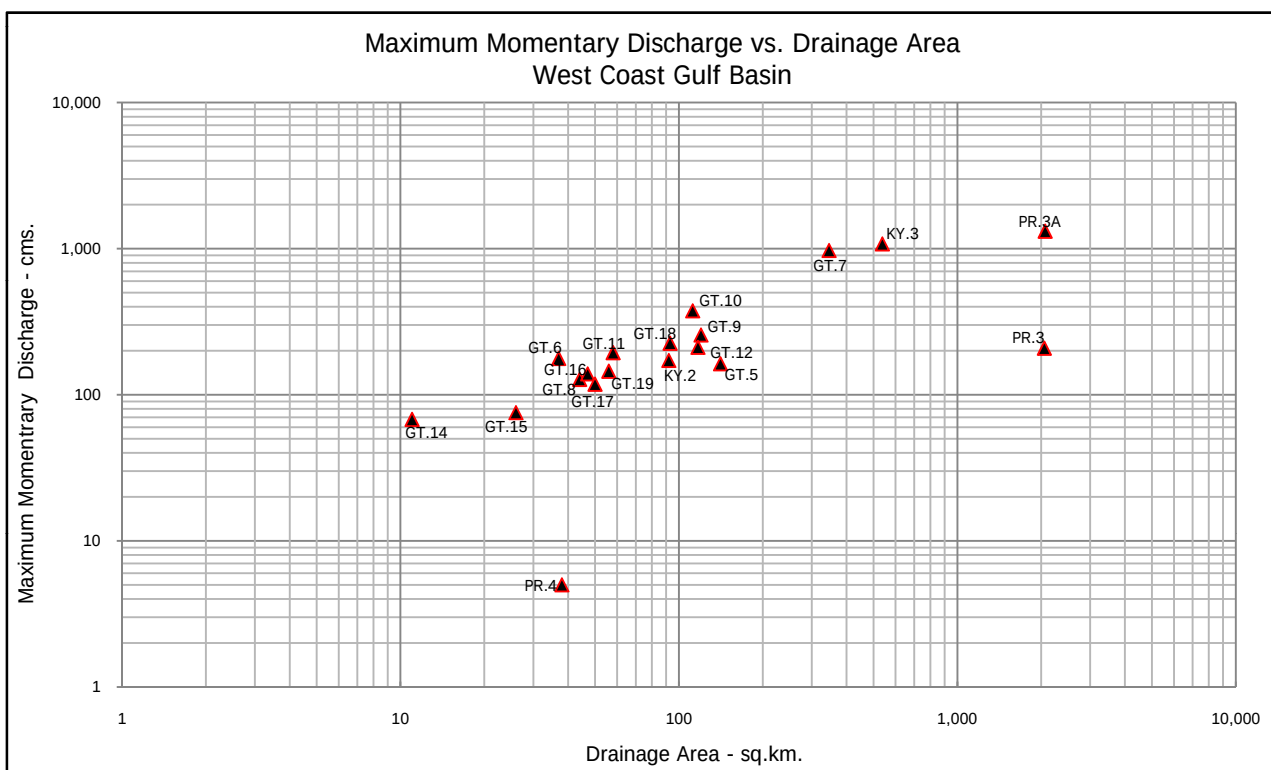
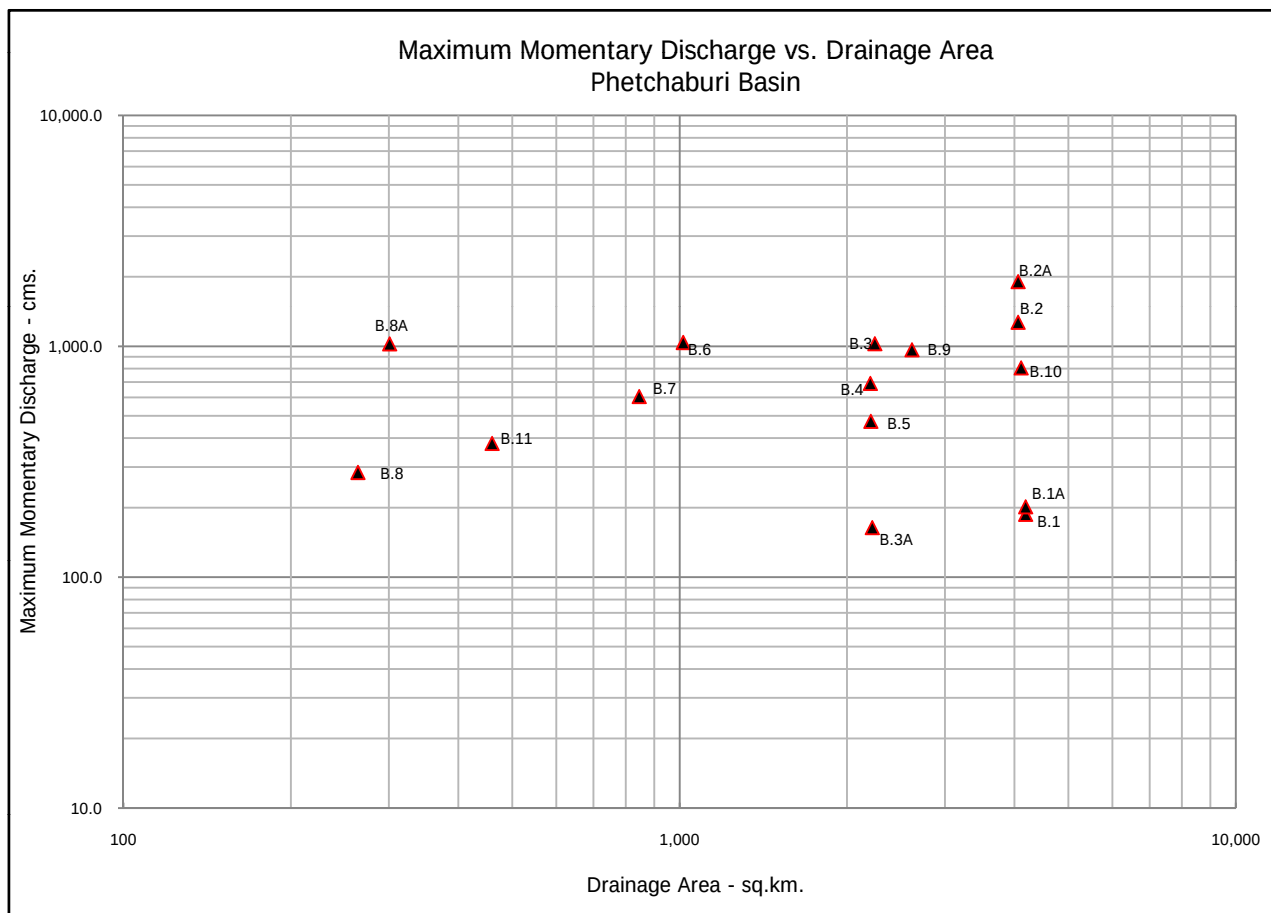


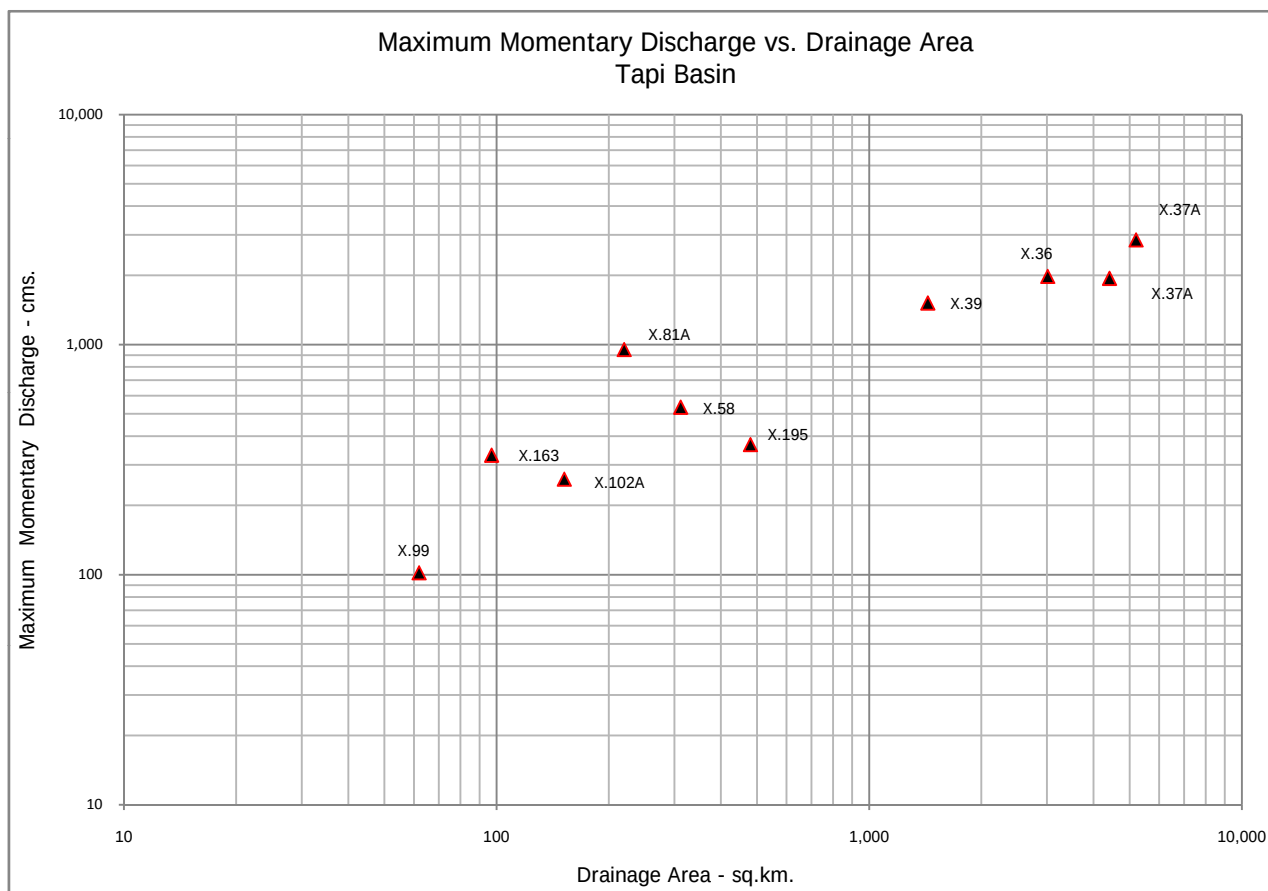
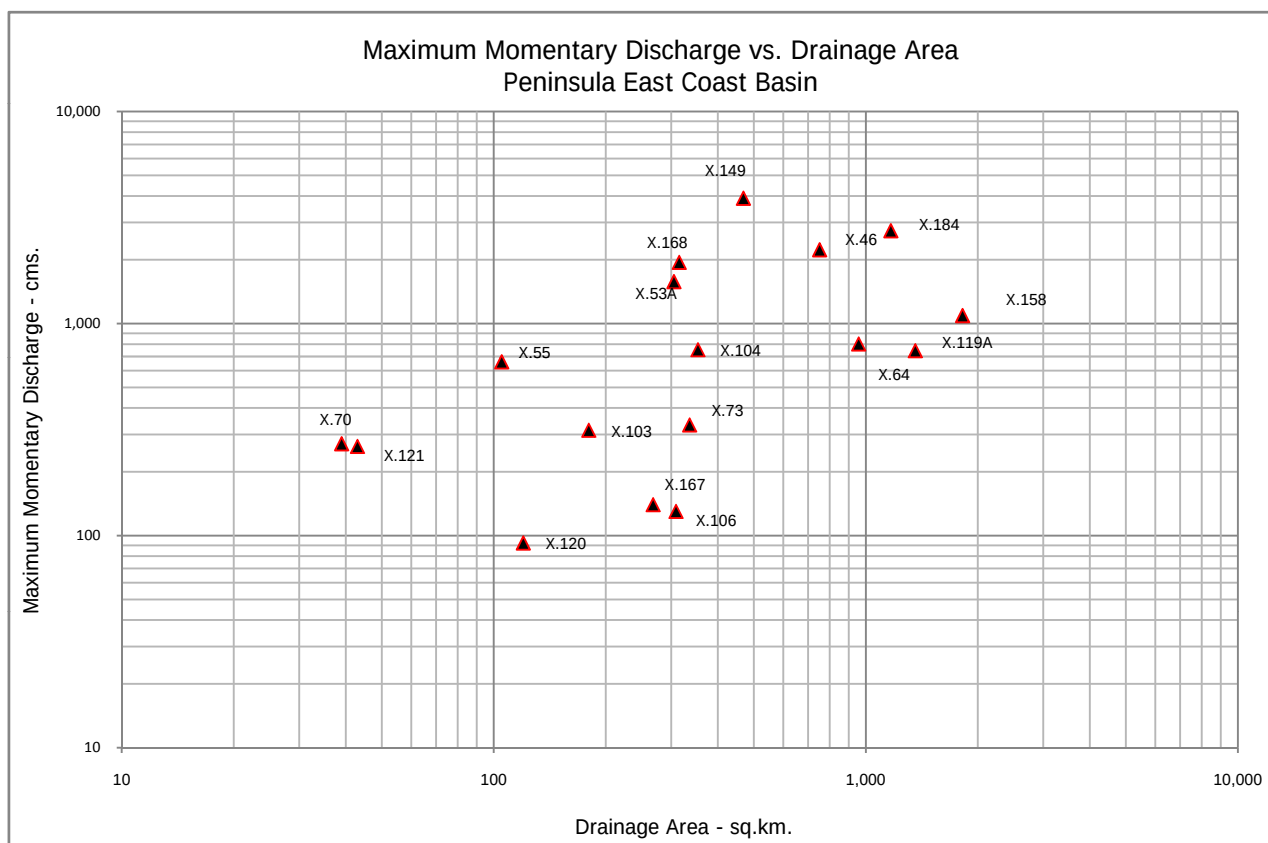


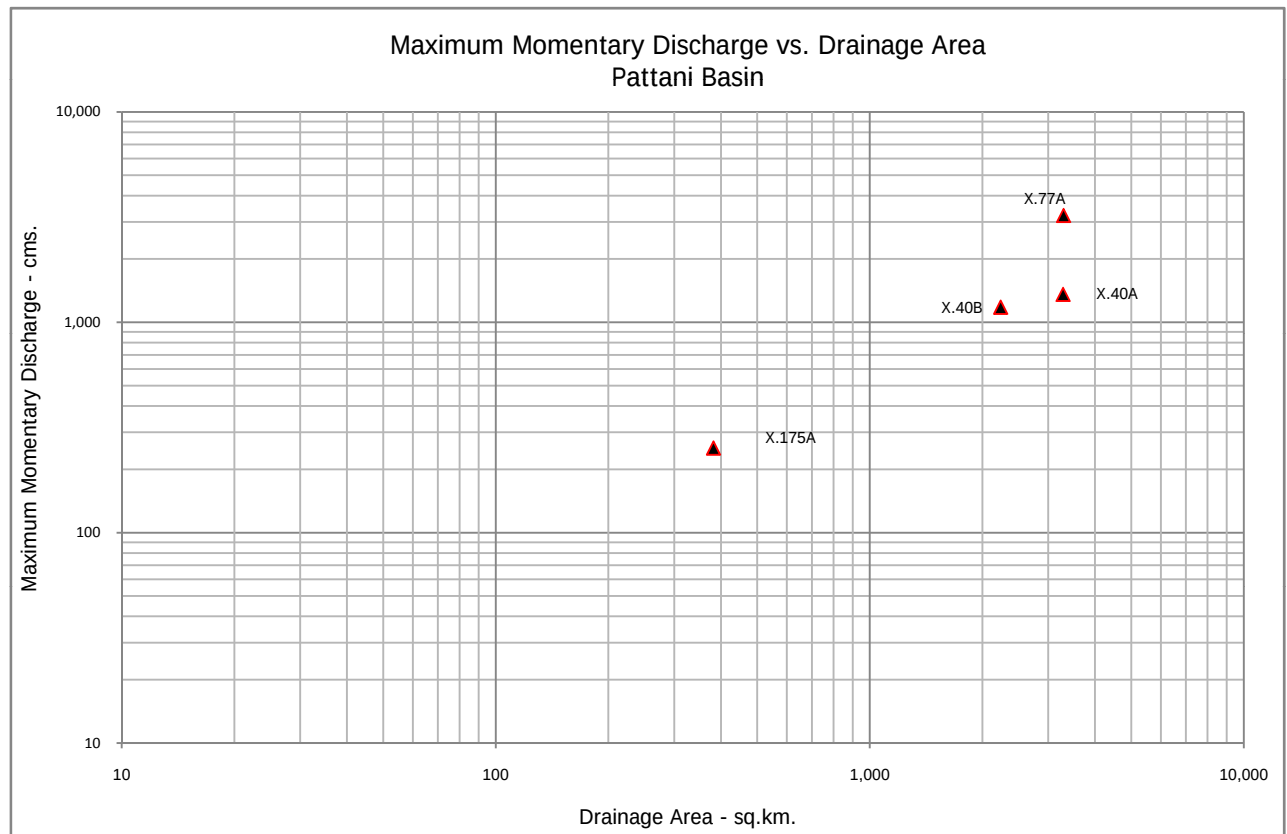
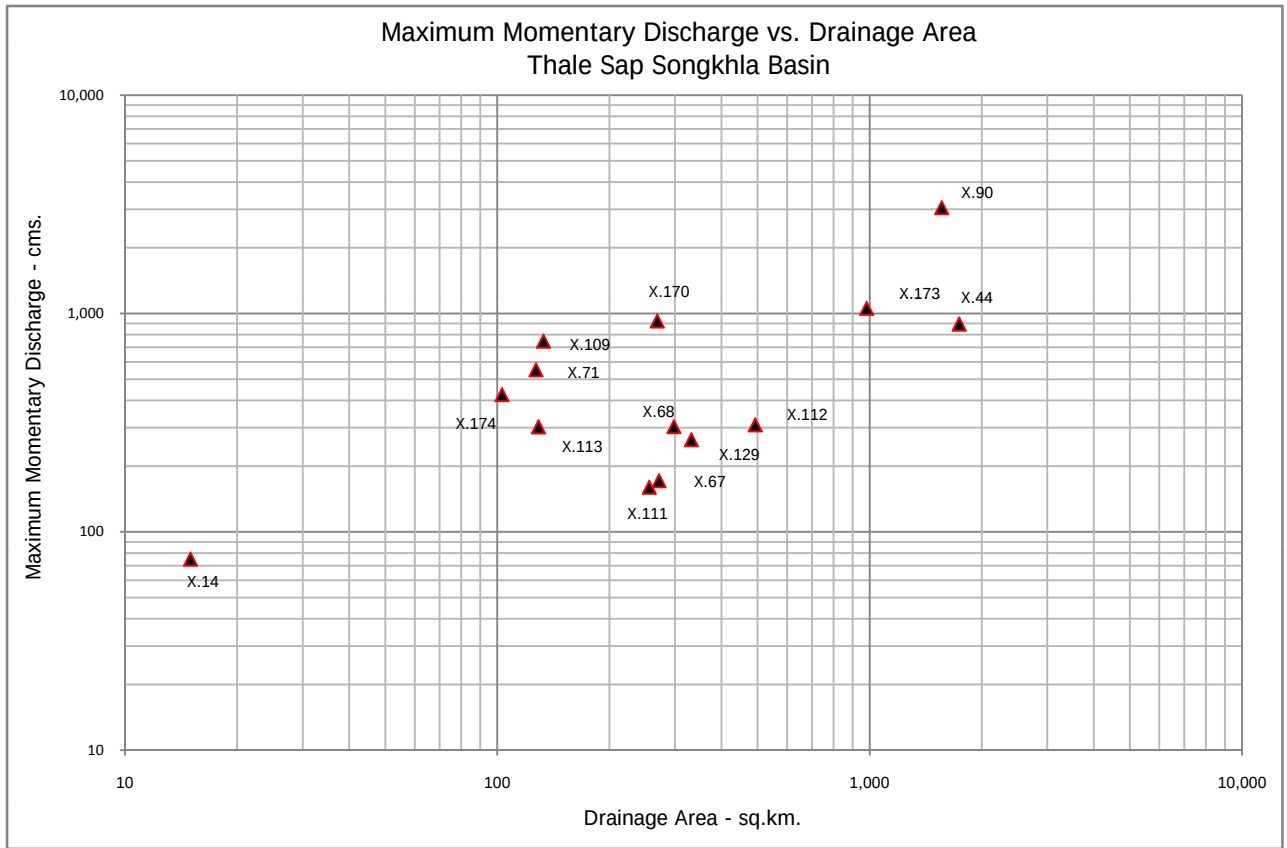












Maximum Momentary Discharge vs. Drainage Area
Peninsula West Coast Basin

