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TAPI RIVER BASIN

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THALE SAP SONGKHLA BASIN

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120	X.90	Khlong U - Taphao at Ban Bang Sala, Songkhla	867
121	X.170	Khlong Lam at Ban Khlong Lam, Phatthalung	868
122	X.174	Khlong Wa at Ban Khlong Wa, Songkhla	869
123	X.240	Upper Khlong Wat at Ban Hu Rae , Songkhla	870
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SOUTHERN PENINSULA WEST COAST

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130	X.196	Khlong Kapong at Ban Tha Na , Phang Nga	877
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HYDROLOGICAL YEAR BOOK PUBLICATION

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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 :

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

Volume	Water Years	No. of station – years	Date of Issuance
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

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

STANDARD OF STREAMFLOW DATA PROCUREMENT

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Network design

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

At the 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

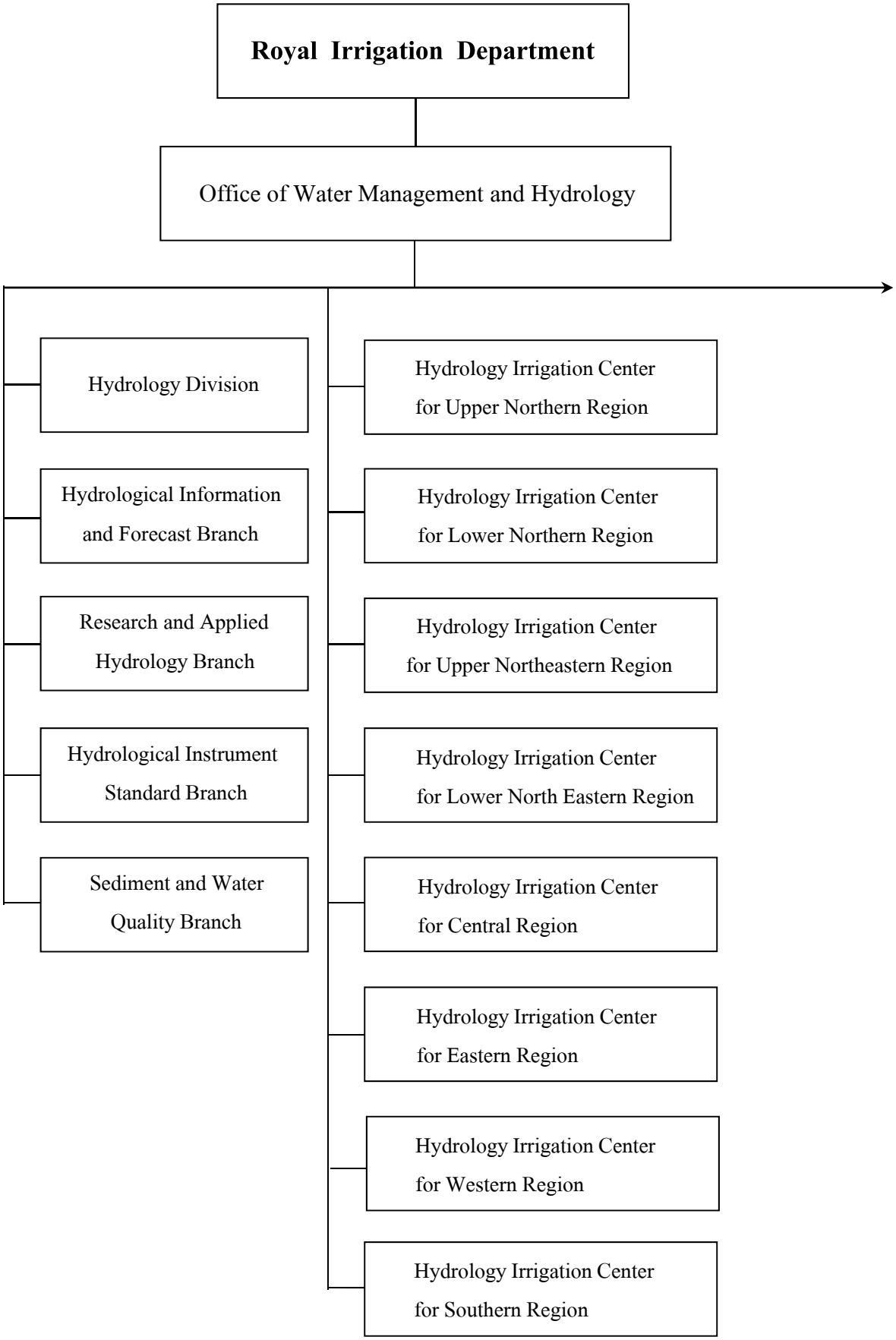
The Royal Irrigation Department (RID) has developed data system which include computerization of storage, Processing and retrieval of rainfall data since 1969. During the stream flow data system was being developed at RID in 1976, the National Economic and Social Development Board has made in agreement 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; row data and analysis data either in the form of computer printouts or in the direct accessible forms like cards of tapes controlled by basin, Sub-basin, region, station and data type. Data stored can also be available in the form of punched cards or punched card image on magnetic tapes so that they can be accessed by FORTRAN programs.

Organization

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 :-


Royal Irrigation Department
Office of Water Management and Hydrology
Hydrology Division
Hydrological Information and Forecast Branch
Research and Applied Hydrology Branch
Hydrological Instrument Standard Branch
Sediment and Water Quality Branch
Hydrology Irrigation Center for Upper Northern Region
Hydrology Irrigation Center for Lower Northern Region
Hydrology Irrigation Center for Upper Northeastern Region
Hydrology Irrigation Center for Lower North Eastern Region
Hydrology Irrigation Center for Central Region
Hydrology Irrigation Center for Eastern Region
Hydrology Irrigation Center for Western Region
Hydrology Irrigation Center for Southern Region

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 – Mary 1962, seven hydrologic stations were installed and operated by the Harza Engineering Company contracted by the Agency for International Development of the united States Government. At present the NEA operates about 90 discharge stations and 140 stage stations. A series of yearbooks has also been published.

The third agency which operates the stream 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.

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

Multiply metric or Thai units	By	To obtain English Unit
	Flow	
liters per second (1/s)	.03531	cubic feet per second (ft^3 / s)
	15.85	gallons per minute (gpm)
cubic decimeters per second (dm^3 / s)	.03531	cubic feet per second (ft^3 / s)
	15.85	gallons per minute (gpm)
	22.82×10^{-3}	million gallons per day (mgd)
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 2008

WATER YEAR : 2008

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

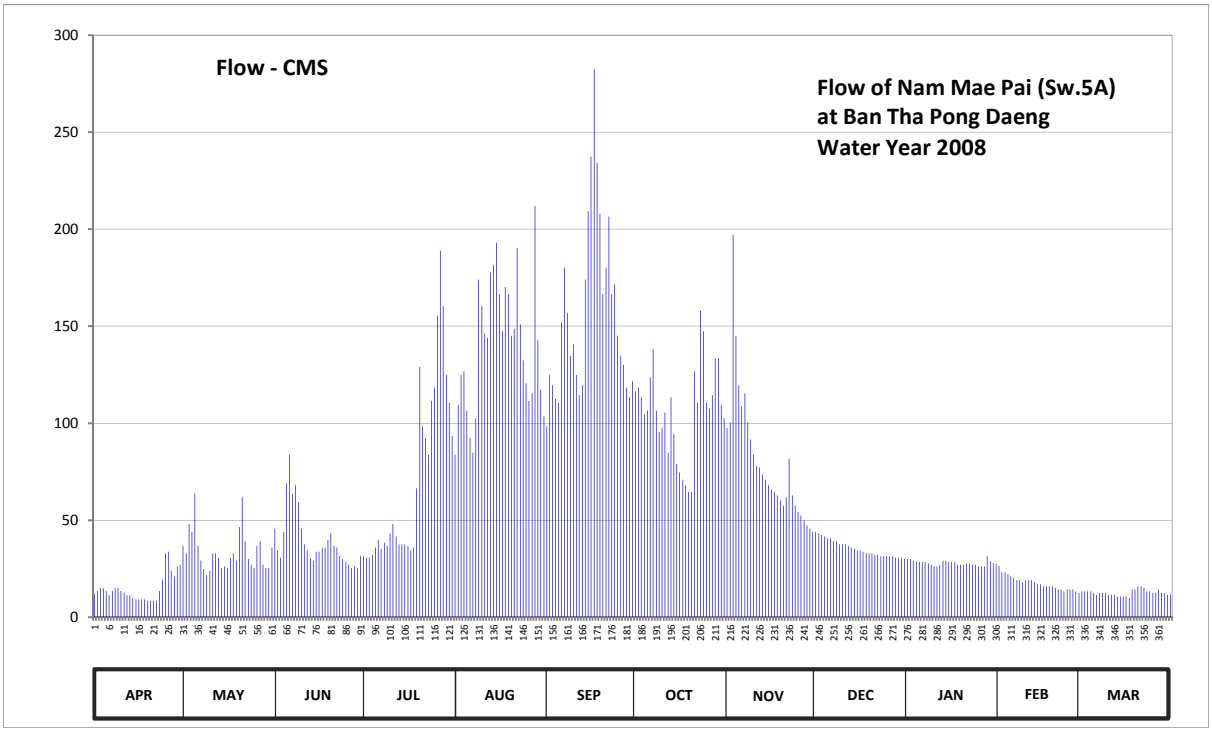
Location : on left bank at Ban Tha Pong Daeng.

	Ban Tha Pong Daeng	**Amphoe** Mueang	**Changwat** Mae Hong Son
Drainge 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** +187.030 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	1980 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Float	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Fairly stable with variable water surface slope.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 125 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	175.78	176.11	176.22	176.04	176.65	176.80	176.98	176.79	176.20	176.02	175.69	175.56	
2	175.80	176.06	176.08	176.03	176.91	177.06	177.00	176.82	176.19	176.02	175.66	175.56	
3	175.82	176.25	176.03	176.03	177.06	177.01	176.95	177.66	176.18	176.01	175.66	175.56	
4	175.82	176.20	176.20	176.05	177.08	176.94	176.86	177.24	176.17	176.00	175.65	175.56	
5	175.80	176.43	176.49	176.10	176.88	176.92	176.88	177.01	176.16	176.00	175.64	175.55	
6	175.77	176.11	176.65	176.15	176.74	177.30	177.05	176.90	176.16	176.00	175.63	175.54	
7	175.80	176.01	176.43	176.09	176.66	177.53	177.18	176.97	176.14	176.00	175.62	175.55	
8	175.82	175.95	176.48	176.13	176.84	177.34	176.88	176.82	176.14	175.99	175.62	175.55	
9	175.82	175.91	176.38	176.11	177.48	177.15	176.77	176.73	176.12	175.98	175.61	175.55	
10	175.80	175.94	176.22	176.19	177.37	177.20	176.79	176.65	176.12	175.97	175.62	175.54	
11	175.79	176.06	176.12	176.25	177.25	177.06	176.87	176.59	176.12	175.97	175.62	175.54	
12	175.77	176.06	176.08	176.17	177.23	176.96	176.66	176.58	176.11	175.98	175.62	175.54	
13	175.77	176.03	176.03	176.12	177.51	177.01	176.95	176.54	176.10	176.01	175.61	175.53	
14	175.75	175.96	176.01	176.12	177.54	177.48	176.76	176.51	176.09	176.01	175.60	175.53	
15	175.74	175.97	176.07	176.12	177.63	177.75	176.60	176.48	176.08	176.00	175.60	175.53	
16	175.74	175.96	176.07	176.11	177.42	177.95	176.55	176.45	176.08	176.00	175.59	175.53	
17	175.74	176.03	176.10	176.08	177.26	178.23	176.51	176.44	176.07	176.00	175.59	175.52	
18	175.74	176.06	176.10	176.10	177.45	177.93	176.48	176.42	176.06	175.98	175.59	175.57	
19	175.73	176.01	176.15	176.46	177.42	177.74	176.44	176.39	176.06	175.98	175.59	175.57	
20	175.73	176.23	176.19	177.10	177.24	177.42	176.44	176.36	176.06	175.98	175.58	175.59	
21	175.73	176.41	176.11	176.80	177.27	177.53	177.08	176.41	176.05	175.99	175.57	175.59	
22	175.73	176.14	176.10	176.74	177.61	177.73	176.92	176.63	176.05	175.99	175.57	175.58	
23	175.80	176.02	176.04	176.65	177.29	177.42	177.35	176.42	176.04	175.98	175.56	175.56	
24	175.88	175.98	176.02	176.93	177.13	177.46	177.26	176.36	176.04	175.98	175.57	175.56	
25	176.06	175.96	176.00	177.00	177.02	177.24	176.92	176.32	176.04	175.97	175.57	175.55	
26	176.07	176.11	175.98	177.33	176.93	177.15	176.89	176.30	176.04	175.97	175.57	175.55	
27	175.94	176.14	175.96	177.60	176.97	177.11	176.96	176.27	176.04	175.97	175.56	175.57	
28	175.90	175.98	175.97	177.37	177.77	177.00	177.14	176.24	176.03	175.87	175.55	175.55	
29	175.97	175.96	175.96	177.06	177.22	176.95	177.14	176.22	176.03	175.79		175.55	
30	175.98	175.96	176.04	176.92	176.99	177.03	176.91	176.20	176.03	175.73		175.54	
31		176.10		176.75	176.85		176.84		176.02	175.70		175.54	
Mean	175.82	176.07	176.14	176.47	177.18	177.31	176.87	176.59	176.09	175.96	175.60	175.55	
Max	176.07	176.43	176.65	177.60	177.77	178.23	177.35	177.66	176.20	176.02	175.69	175.59	178.23
Min	175.73	175.91	175.96	176.03	176.65	176.80	176.44	176.20	176.02	175.70	175.55	175.52	175.52

Annual Max Momentary Gage Height	178.76	m. (MSL.) ,	at 08.00 Hours , on Jul 25 , 2008		
Zero Gage at Bottom Elevation	175.76	m. (MSL.) ,	River Bed	174.91	m. (MSL)
Left Bank Elevation	183.86	m. (MSL.) ,			
Right Bank Elevation	181.59	m. (MSL.) ,	Drainage Are	4,470	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.10	36.80	45.70	31.50	83.75	98.50	116.50	97.50	44.00	30.00	26.45	13.40		
2	13.50	33.00	34.50	30.75	109.50	124.80	118.50	100.50	43.20	30.00	23.30	13.40		
3	15.00	48.25	30.75	30.75	124.80	119.55	113.50	197.10	42.40	29.25	23.30	13.40		
4	15.00	44.00	44.00	32.25	126.90	112.50	104.50	145.10	41.60	28.50	22.25	13.40		
5	13.50	63.70	69.10	36.00	106.50	110.50	106.50	119.55	40.80	28.50	21.20	12.50		
6	11.40	36.80	83.75	40.00	92.50	152.00	123.75	108.50	40.80	28.50	20.15	11.60		
7	13.50	29.25	63.70	35.25	84.70	180.25	138.20	115.50	39.20	28.50	19.10	12.50		
8	15.00	24.75	68.20	38.40	102.50	156.80	106.50	100.50	39.20	27.75	19.10	12.50		
9	15.00	21.75	59.30	36.80	174.00	134.75	95.50	91.50	37.60	27.00	18.05	12.50		
10	13.50	24.00	45.70	43.20	160.40	140.50	97.50	83.75	37.60	26.25	19.10	11.60		
11	12.80	33.00	37.60	48.25	146.25	124.80	105.50	78.10	37.60	26.25	19.10	11.60		
12	11.40	33.00	34.50	41.60	143.95	114.50	84.70	77.20	36.80	27.00	19.10	11.60		
13	11.40	30.75	30.75	37.60	177.75	119.55	113.50	73.60	36.00	29.25	18.05	10.70		
14	10.00	25.50	29.25	37.60	181.50	174.00	94.50	70.90	35.25	29.25	17.00	10.70		
15	9.30	26.25	33.75	37.60	193.05	209.25	79.00	68.20	34.50	28.50	17.00	10.70		
16	9.30	25.50	33.75	36.80	166.50	237.25	74.50	65.50	34.50	28.50	16.10	10.70		
17	9.30	30.75	36.00	34.50	147.40	282.25	70.90	64.60	33.75	28.50	16.10	9.80		
18	9.30	33.00	36.00	36.00	170.25	234.35	68.20	62.80	33.00	27.00	16.10	14.30		
19	8.60	29.25	40.00	66.40	166.50	207.90	64.60	60.15	33.00	27.00	16.10	14.30		
20	8.60	46.55	43.20	129.00	145.10	166.50	64.60	57.60	33.00	27.00	15.20	16.10		
21	8.60	61.90	36.80	98.50	148.55	180.25	126.90	61.90	32.25	27.75	14.30	16.10		
22	8.60	39.20	36.00	92.50	190.35	206.55	110.50	81.85	32.25	27.75	14.30	15.20		
23	13.50	30.00	31.50	83.75	150.85	166.50	158.00	62.80	31.50	27.00	13.40	13.40		
24	19.50	27.00	30.00	111.50	132.45	171.50	147.40	57.60	31.50	27.00	14.30	13.40		
25	33.00	25.50	28.50	118.50	120.60	145.10	110.50	54.20	31.50	26.25	14.30	12.50		
26	33.75	36.80	27.00	155.60	111.50	134.75	107.50	52.50	31.50	26.25	14.30	12.50		
27	24.00	39.20	25.50	189.00	115.50	130.15	114.50	49.95	31.50	26.25	13.40	14.30		
28	21.00	27.00	26.25	160.40	211.95	118.50	133.60	47.40	30.75	31.45	12.50	12.50		
29	26.25	25.50	25.50	124.80	142.80	113.50	133.60	45.70	30.75	28.85		12.50		
30	27.00	25.50	31.50	110.50	117.50	121.65	109.50	44.00	30.75	27.95		11.60		
31		36.00		93.50	103.50		102.50		30.00	27.50		11.60		
Total	452.70	1049.45	1198.05	2198.80	4349.35	4688.95	3295.45	2396.05	1098.05	866.50	492.65	392.90	22478.90	CMSDAY
Mean	15.09	33.85	39.93	70.93	140.30	156.30	106.30	79.87	35.42	27.95	17.59	12.67	61.59	CMS
Max	33.75	63.70	83.75	189.00	211.95	282.25	158.00	197.10	44.00	31.45	26.45	16.10	282.25	CMS
Min	8.60	21.75	25.50	30.75	83.75	98.50	64.60	44.00	30.00	26.25	12.50	9.80	8.60	CMS
Runoff	39.11	90.67	103.51	189.98	375.78	405.13	284.73	207.02	94.87	74.87	42.56	33.95	1942.18	MCM

Momentary Peak 382.00 CMS. at 178.76 m. (MSL.) at 08.00 Hours , on Jul 25 , 2008

Runoff Yield 13.78 Liters/Second/Square KM. Momentary Peak Yield 85.46 Liters/Second/Square KM.

WATER YEAR : 2008

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.

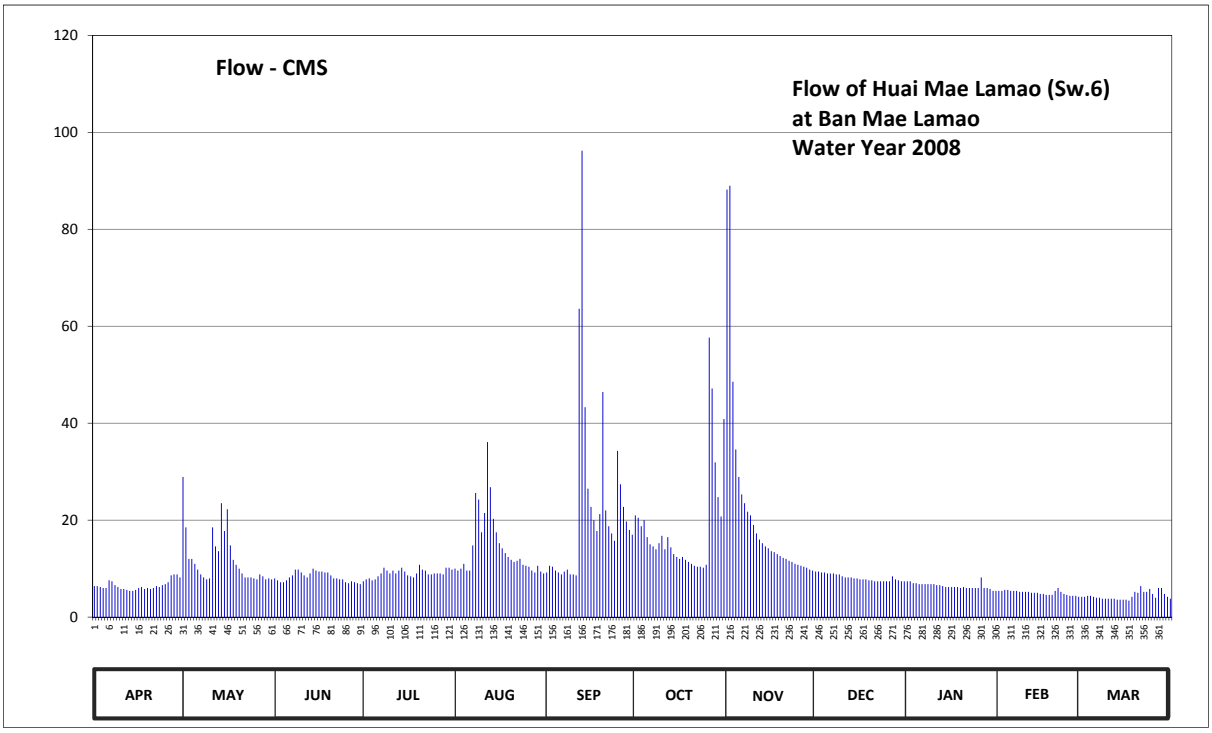
Ban Mae Lamao **Amphoe** Mae Sot **Changwat** Tak

Drainge 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 buiding. **Elevation** +278.846 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1971 to date
Rating Operation	
Period of Rating	1971 to date
Rated by Float	-
Rated by Current Meter	1971 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.97	269.93	269.05	269.02	269.15	269.11	269.64	271.58	269.12	269.02	268.92	268.86	
2	268.97	269.54	269.03	269.04	269.13	269.18	269.62	271.60	269.12	269.02	268.92	268.86	
3	268.96	269.25	269.01	269.05	269.15	269.17	269.55	270.53	269.11	269.00	268.93	268.87	
4	268.95	269.25	269.01	269.03	269.20	269.13	269.60	270.12	269.11	269.00	268.93	268.87	
5	268.95	269.20	269.03	269.04	269.13	269.11	269.46	269.93	269.10	268.99	268.92	268.86	
6	269.03	269.14	269.06	269.07	269.13	269.09	269.40	269.81	269.10	268.99	268.92	268.85	
7	269.02	269.09	269.08	269.10	269.39	269.12	269.38	269.74	269.10	268.99	268.92	268.85	
8	268.98	269.06	269.14	269.16	269.82	269.14	269.35	269.67	269.09	268.99	268.91	268.84	
9	268.96	269.04	269.14	269.13	269.77	269.09	269.41	269.64	269.09	268.99	268.91	268.84	
10	268.94	269.05	269.11	269.10	269.50	269.09	269.47	269.56	269.07	268.99	268.91	268.84	
11	268.94	269.54	269.08	269.13	269.66	269.08	269.35	269.49	269.06	268.98	268.91	268.84	
12	268.93	269.38	269.06	269.10	270.17	270.96	269.46	269.44	269.06	268.98	268.90	268.84	
13	268.92	269.33	269.10	269.13	269.86	271.76	269.37	269.41	269.06	268.97	268.90	268.83	
14	268.92	269.74	269.15	269.16	269.61	270.38	269.30	269.38	269.05	268.96	268.90	268.83	
15	268.93	269.51	269.13	269.12	269.50	269.85	269.27	269.36	269.05	268.96	268.89	268.83	
16	268.95	269.69	269.12	269.08	269.41	269.71	269.25	269.33	269.04	268.96	268.89	268.83	
17	268.96	269.39	269.12	269.07	269.36	269.60	269.27	269.32	269.04	268.96	268.88	268.82	
18	268.94	269.24	269.11	269.06	269.31	269.51	269.24	269.30	269.04	268.96	268.88	268.86	
19	268.95	269.19	269.11	269.10	269.27	269.65	269.22	269.28	269.03	268.95	268.88	268.91	
20	268.94	269.15	269.08	269.19	269.24	270.47	269.20	269.26	269.03	268.96	268.92	268.90	
21	268.95	269.10	269.05	269.14	269.22	269.68	269.18	269.25	269.02	268.95	268.95	268.97	
22	268.97	269.06	269.05	269.13	269.23	269.55	269.17	269.23	269.02	268.95	268.91	268.91	
23	268.96	269.06	269.04	269.09	269.25	269.49	269.17	269.22	269.02	268.95	268.89	268.91	
24	268.98	269.06	269.04	269.09	269.19	269.43	269.16	269.20	269.02	268.95	268.88	268.94	
25	268.99	269.05	269.01	269.10	269.18	270.11	269.19	269.19	269.02	268.95	268.87	268.89	
26	269.01	269.04	269.00	269.10	269.17	269.88	270.79	269.18	269.02	269.06	268.87	268.85	
27	269.08	269.09	269.02	269.10	269.13	269.71	270.49	269.17	269.07	268.95	268.87	268.95	
28	269.09	269.07	269.01	269.09	269.11	269.59	270.03	269.16	269.04	268.95	268.86	268.95	
29	269.09	269.04	269.00	269.16	269.18	269.52	269.79	269.14	269.03	268.94		268.89	
30	269.06	269.05	268.99	269.16	269.12	269.48	269.63	269.13	269.02	268.92		268.86	
31		269.04		269.14	269.10		270.31		269.02	268.92		268.84	
Mean	268.98	269.24	269.06	269.10	269.34	269.62	269.51	269.59	269.06	268.97	268.90	268.87	
Max	269.09	269.93	269.15	269.19	270.17	271.76	270.79	271.60	269.12	269.06	268.95	268.97	271.76
Min	268.92	269.04	268.99	269.02	269.10	269.08	269.16	269.13	269.02	268.92	268.86	268.82	268.82

Annual Max Momentary Gage Height	273.31	m. (MSL.) ,	at 03.00 Hours , on Sep 13, 2008		
Zero Gage at Bottom Elevation	268.47	m. (MSL.) ,	River Bed	268.25	m. (MSL.)
Left Bank Elevation	277.32	m. (MSL.) ,			
Right Bank Elevation	276.52	m. (MSL.) ,	Drainage Are	1,009	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.40	28.90	8.00	7.40	10.00	9.20	21.00	88.20	9.40	7.40	5.40	4.20		
2	6.40	18.50	7.60	7.80	9.60	10.60	20.50	89.00	9.40	7.40	5.40	4.20		
3	6.20	12.00	7.20	8.00	10.00	10.40	18.75	48.55	9.20	7.00	5.60	4.40		
4	6.00	12.00	7.20	7.60	11.00	9.60	20.00	34.60	9.20	7.00	5.60	4.40		
5	6.00	11.00	7.60	7.80	9.60	9.20	16.50	28.90	9.00	6.80	5.40	4.20		
6	7.60	9.80	8.20	8.40	9.60	8.80	15.00	25.30	9.00	6.80	5.40	4.00		
7	7.40	8.80	8.60	9.00	14.80	9.40	14.60	23.50	9.00	6.80	5.40	4.00		
8	6.60	8.20	9.80	10.20	25.60	9.80	14.00	21.75	8.80	6.80	5.20	3.80		
9	6.20	7.80	9.80	9.60	24.25	8.80	15.25	21.00	8.80	6.80	5.20	3.80		
10	5.80	8.00	9.20	9.00	17.50	8.80	16.75	19.00	8.40	6.80	5.20	3.80		
11	5.80	18.50	8.60	9.60	21.50	8.60	14.00	17.25	8.20	6.60	5.20	3.80		
12	5.60	14.60	8.20	9.00	36.10	63.60	16.50	16.00	8.20	6.60	5.00	3.80		
13	5.40	13.60	9.00	9.60	26.80	96.20	14.40	15.25	8.20	6.40	5.00	3.60		
14	5.40	23.50	10.00	10.20	20.25	43.30	13.00	14.60	8.00	6.20	5.00	3.60		
15	5.60	17.75	9.60	9.40	17.50	26.50	12.40	14.20	8.00	6.20	4.80	3.60		
16	6.00	22.25	9.40	8.60	15.25	22.75	12.00	13.60	7.80	6.20	4.80	3.60		
17	6.20	14.80	9.40	8.40	14.20	20.00	12.40	13.40	7.80	6.20	4.60	3.40		
18	5.80	11.80	9.20	8.20	13.20	17.75	11.80	13.00	7.80	6.20	4.60	4.20		
19	6.00	10.80	9.20	9.00	12.40	21.25	11.40	12.60	7.60	6.00	4.60	5.20		
20	5.80	10.00	8.60	10.80	11.80	46.45	11.00	12.20	7.60	6.20	5.40	5.00		
21	6.00	9.00	8.00	9.80	11.40	22.00	10.60	12.00	7.40	6.00	6.00	6.40		
22	6.40	8.20	8.00	9.60	11.60	18.75	10.40	11.60	7.40	6.00	5.20	5.20		
23	6.20	8.20	7.80	8.80	12.00	17.25	10.40	11.40	7.40	6.00	4.80	5.20		
24	6.60	8.20	7.80	8.80	10.80	15.75	10.20	11.00	7.40	6.00	4.60	5.80		
25	6.80	8.00	7.20	9.00	10.60	34.30	10.80	10.80	7.40	6.00	4.40	4.80		
26	7.20	7.80	7.00	9.00	10.40	27.40	57.65	10.60	7.40	8.20	4.40	4.00		
27	8.60	8.80	7.40	9.00	9.60	22.75	47.15	10.40	8.40	6.00	4.40	6.00		
28	8.80	8.40	7.20	8.80	9.20	19.75	31.90	10.20	7.80	6.00	4.20	6.00		
29	8.80	7.80	7.00	10.20	10.60	18.00	24.75	9.80	7.60	5.80		4.80		
30	8.20	8.00	6.80	10.20	9.40	17.00	20.75	9.60	7.40	5.40		4.20		
31		7.80		9.80	9.00		40.85		7.40	5.40		3.80		
Total	195.80	372.80	248.60	280.60	445.55	673.95	576.70	649.30	252.40	199.20	140.80	136.80	4172.50	CMSDAY
Mean	6.53	12.03	8.29	9.05	14.37	22.46	18.60	21.64	8.14	6.43	5.03	4.41	11.43	CMS
Max	8.80	28.90	10.00	10.80	36.10	96.20	57.65	89.00	9.40	8.20	6.00	6.40	96.20	CMS
Min	5.40	7.80	6.80	7.40	9.00	8.60	10.20	9.60	7.40	5.40	4.20	3.40	3.40	CMS
Runoff	16.92	32.21	21.48	24.24	38.50	58.23	49.83	56.10	21.81	17.21	12.17	11.82	360.50	MCM

Momentary Peak 191.35 CMS. at 273.31 m. (MSL.) at 03.00 Hours , on Sep 13, 2008

Runoff Yield 11.33 Liters/Second/Square KM. Momentary Peak Yield 189.64 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean 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 Float	-
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 +190.180 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

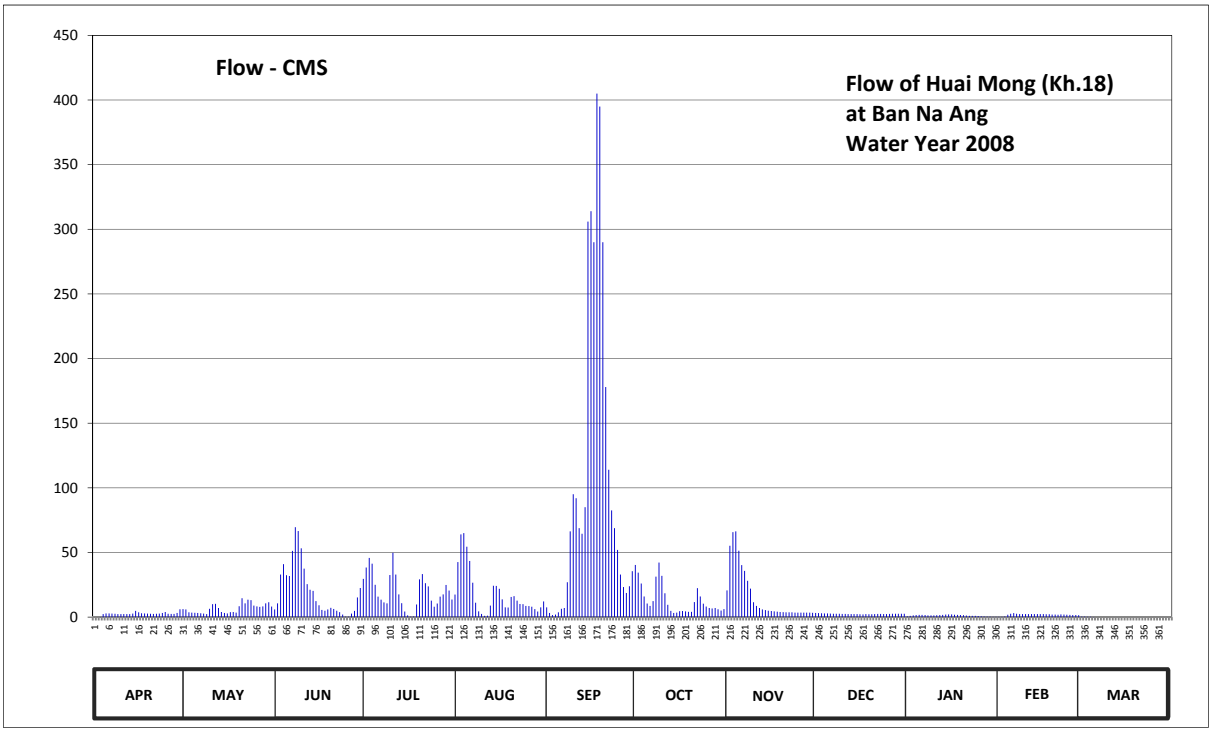
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	185.47	186.82	186.79	188.66	187.84	186.96	189.30	188.08	186.44	185.91	185.75	185.78	
2	185.49	186.79	187.26	189.19	189.42	186.45	188.96	190.05	186.41	186.00	185.74	185.76	
3	185.66	186.55	188.87	189.59	190.42	186.12	188.43	190.49	186.39	186.07	185.84	185.73	
4	186.28	186.49	189.33	189.35	190.46	186.19	187.73	190.52	186.37	186.13	186.16	185.70	
5	186.36	186.46	188.84	188.37	190.02	186.54	187.25	189.87	186.36	186.15	186.33	185.66	
6	186.37	186.43	188.80	187.72	189.47	186.84	187.06	189.29	186.35	186.15	186.41	185.61	
7	186.35	186.40	189.86	187.54	188.47	186.90	187.44	189.04	186.33	186.11	186.31	185.56	
8	186.31	186.34	190.65	187.34	187.31	188.50	188.77	188.57	186.32	186.08	186.27	185.55	
9	186.28	186.28	190.53	187.26	186.65	190.52	189.40	188.17	186.31	186.08	186.27	185.49	
10	186.26	186.84	189.96	188.85	186.29	191.10	188.81	187.35	186.30	186.08	186.27	185.43	
11	186.27	187.20	189.14	189.79	185.99	191.07	187.92	187.06	186.29	186.10	186.27	185.37	
12	186.28	187.23	188.40	188.87	186.01	190.62	187.15	186.90	186.28	186.12	186.27	185.33	
13	186.28	186.91	188.11	187.85	187.09	190.44	186.68	186.79	186.27	186.15	186.27	185.31	
14	186.34	186.58	188.05	187.27	188.32	191.00	186.45	186.74	186.27	186.19	186.27	185.28	
15	186.68	186.43	187.44	186.63	188.31	191.89	186.49	186.69	186.26	186.23	186.26	185.25	
16	186.54	186.37	187.12	186.06	188.16	191.91	186.66	186.67	186.24	186.21	186.26	185.21	
17	186.40	186.56	186.75	185.79	187.56	191.85	186.67	186.65	186.22	186.18	186.25	185.17	
18	186.36	186.60	186.70	185.85	186.95	192.11	186.64	186.62	186.26	186.14	186.24	185.14	
19	186.34	186.50	186.79	187.18	186.94	192.09	186.61	186.58	186.25	186.12	186.20	185.11	
20	186.31	187.04	186.92	188.64	187.70	191.85	186.61	186.56	186.25	186.09	186.19	185.11	
21	186.30	187.62	186.83	188.89	187.75	191.51	187.36	186.55	186.26	186.04	186.18	185.11	
22	186.32	187.26	186.70	188.45	187.47	191.22	188.19	186.54	186.29	186.00	186.21	185.11	
23	186.35	187.54	186.56	188.28	187.22	190.96	187.73	186.53	186.30	186.00	186.19	185.11	
24	186.45	187.51	186.19	187.47	187.20	190.62	187.24	186.50	186.28	185.99	186.16	185.11	
25	186.58	187.09	185.80	187.00	187.07	189.90	187.01	186.50	186.28	185.96	186.14	185.11	
26	186.33	187.03	185.76	187.25	187.05	188.87	186.90	186.49	186.29	185.91	186.13	185.11	
27	186.30	186.99	186.34	187.72	187.00	188.25	186.87	186.49	186.31	185.85	186.12	185.11	
28	186.30	187.03	186.68	187.85	186.82	187.94	186.90	186.48	186.33	185.80	186.10	185.11	
29	186.45	187.26	187.67	188.36	186.63	188.29	186.81	186.48	186.32	185.76		185.11	
30	186.81	187.35	188.20	188.07	186.95	189.03	186.71	186.47	186.32	185.75		185.11	
31		187.01		187.55	187.41		186.82		186.32	185.75		185.10	
Mean	186.29	186.86	187.77	187.89	187.68	189.58	187.41	187.46	186.31	186.04	186.18	185.31	
Max	186.81	187.62	190.65	189.79	190.46	192.11	189.40	190.52	186.44	186.23	186.41	185.78	192.11
Min	185.47	186.28	185.76	185.79	185.99	186.12	186.45	186.47	186.22	185.75	185.74	185.10	185.10

Annual Max Momentary Gage Height 192.16 m. (MSL.) , at 16.00 Hours , on Sep 18, 2008

Zero Gage at Bottom Elevation 183.43 m. (MSL.) , River Bed 181.21 m. (MSL.)

Left Bank Elevation 191.87 m. (MSL.) ,

Right Bank Elevation 190.33 m. (MSL.) , Drainage Are 1,309 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	6.20	5.90	29.56	17.42	7.60	40.40	20.70	3.20	0.64	0.30	0.36		
2	0.00	5.90	10.60	38.42	42.56	3.25	34.36	55.15	3.05	1.00	0.28	0.32		
3	0.12	3.75	32.92	45.80	63.98	1.60	25.95	65.66	2.95	1.35	0.48	0.26		
4	2.40	3.45	40.94	41.30	64.94	1.95	15.99	66.38	2.85	1.65	1.80	0.20		
5	2.80	3.30	32.44	25.05	54.46	3.70	10.50	51.40	2.80	1.75	2.65	0.12		
6	2.85	3.15	31.80	15.86	43.46	6.40	8.60	40.22	2.75	1.75	3.05	0.02		
7	2.75	3.00	51.20	13.52	26.55	7.00	12.40	35.72	2.65	1.55	2.55	0.00		
8	2.55	2.70	69.50	11.40	11.10	27.00	31.32	28.12	2.60	1.40	2.35	0.00		
9	2.40	2.40	66.62	10.60	4.50	66.38	42.20	22.05	2.55	1.40	2.35	0.00		
10	2.30	6.40	53.20	32.60	2.45	95.00	31.96	11.50	2.50	1.40	2.35	0.00		
11	2.35	10.00	37.52	49.80	0.96	92.00	18.46	8.60	2.45	1.50	2.35	0.00		
12	2.40	10.30	25.50	32.92	1.05	68.78	9.50	7.00	2.40	1.60	2.35	0.00		
13	2.40	7.10	21.15	17.55	8.90	64.46	4.80	5.90	2.35	1.75	2.35	0.00		
14	2.70	3.90	20.25	10.70	24.30	85.00	3.25	5.40	2.35	1.95	2.35	0.00		
15	4.80	3.15	12.40	4.30	24.15	306.00	3.45	4.90	2.30	2.15	2.30	0.00		
16	3.70	2.85	9.20	1.30	21.90	314.00	4.60	4.70	2.20	2.05	2.30	0.00		
17	3.00	3.80	5.50	0.38	13.78	290.00	4.70	4.50	2.10	1.90	2.25	0.00		
18	2.80	4.00	5.00	0.50	7.50	405.00	4.40	4.20	2.30	1.70	2.20	0.00		
19	2.70	3.50	5.90	9.80	7.40	395.00	4.10	3.90	2.25	1.60	2.00	0.00		
20	2.55	8.40	7.20	29.24	15.60	290.00	4.10	3.80	2.25	1.45	1.95	0.00		
21	2.50	14.56	6.30	33.24	16.25	178.00	11.60	3.75	2.30	1.20	1.90	0.00		
22	2.60	10.60	5.00	26.25	12.70	114.00	22.35	3.70	2.45	1.00	2.05	0.00		
23	2.75	13.52	3.80	23.70	10.20	82.60	15.99	3.65	2.50	1.00	1.95	0.00		
24	3.25	13.13	1.95	12.70	10.00	68.78	10.40	3.50	2.40	0.96	1.80	0.00		
25	3.90	8.90	0.40	8.00	8.70	52.00	8.10	3.50	2.40	0.84	1.70	0.00		
26	2.65	8.30	0.32	10.50	8.50	32.92	7.00	3.45	2.45	0.64	1.65	0.00		
27	2.50	7.90	2.70	15.86	8.00	23.25	6.70	3.45	2.55	0.50	1.60	0.00		
28	2.50	8.30	4.80	17.55	6.20	18.72	7.00	3.40	2.65	0.40	1.50	0.00		
29	3.25	10.60	15.21	24.90	4.30	23.85	6.10	3.40	2.60	0.32		0.00		
30	6.10	11.50	22.50	20.55	7.50	35.54	5.10	3.35	2.60	0.30		0.00		
31		8.10		13.65	12.10		6.20		2.60	0.30		0.00		
Total	79.57	212.66	607.72	627.50	561.41	3159.78	421.58	484.95	78.35	39.00	54.71	1.28	6328.51	CMSDAY
Mean	2.65	6.86	20.26	20.24	18.11	105.33	13.60	16.16	2.53	1.26	1.95	0.04	17.34	CMS
Max	6.10	14.56	69.50	49.80	64.94	405.00	42.20	66.38	3.20	2.15	3.05	0.36	405.00	CMS
Min	0.00	2.40	0.32	0.38	0.96	1.60	3.25	3.35	2.10	0.30	0.28	0.00	0.00	CMS
Runoff	6.87	18.37	52.51	54.22	48.51	273.00	36.42	41.90	6.77	3.37	4.73	0.11	546.78	MCM

Momentary Peak 430.00 CMS. at 192.16 m. (MSL.) at 16.00 Hours , on Sep 18, 2008

Runoff Yield 13.25 Liters/Second/Square KM. Momentary Peak Yield 328.50 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	1994 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Float	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

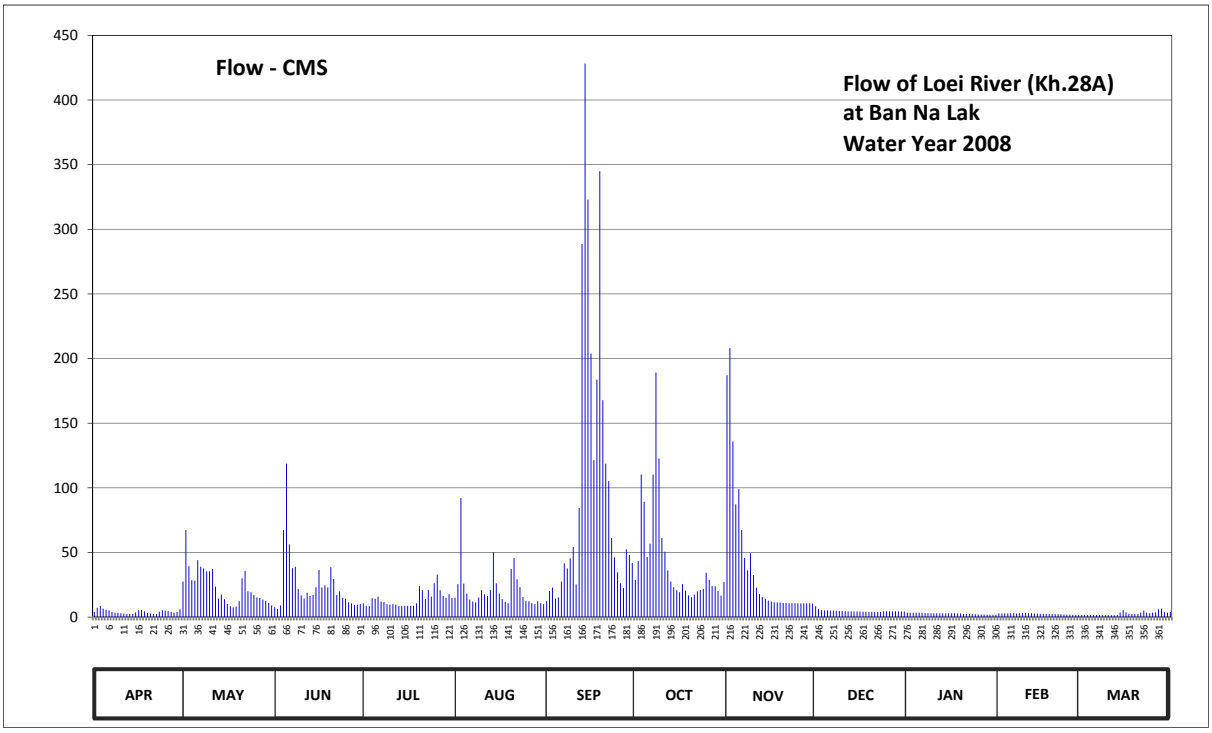
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.81	240.91	240.08	240.23	240.45	240.32	240.96	244.03	240.12	239.74	239.68	239.57	
2	240.06	241.94	240.01	240.14	240.84	240.65	241.37	244.33	240.00	239.74	239.68	239.57	
3	240.13	241.26	240.15	240.12	242.46	240.74	242.79	243.23	239.94	239.74	239.68	239.57	
4	240.03	240.95	241.94	240.43	240.85	240.42	242.40	242.36	239.92	239.74	239.68	239.57	
5	239.97	240.93	242.94	240.41	240.58	240.46	241.46	242.59	239.92	239.74	239.69	239.57	
6	239.92	241.39	241.69	240.49	240.38	240.91	241.70	241.94	239.91	239.73	239.71	239.56	
7	239.80	241.25	241.22	240.30	240.30	241.32	242.79	241.44	239.91	239.72	239.67	239.56	
8	239.75	241.21	241.25	240.28	240.27	241.21	244.06	241.17	239.89	239.71	239.69	239.56	
9	239.73	241.15	240.70	240.20	240.46	241.43	243.01	241.53	239.88	239.70	239.72	239.55	
10	239.70	241.15	240.53	240.18	240.67	241.64	241.80	241.07	239.87	239.70	239.72	239.55	
11	239.67	241.20	240.42	240.20	240.56	240.83	241.56	240.74	239.86	239.70	239.70	239.55	
12	239.65	240.77	240.60	240.18	240.51	242.30	241.17	240.57	239.85	239.70	239.70	239.55	
13	239.65	240.42	240.51	240.14	240.68	245.35	240.91	240.48	239.84	239.70	239.67	239.57	
14	239.66	240.55	240.54	240.14	241.55	246.87	240.75	240.41	239.83	239.69	239.67	239.76	
15	239.76	240.39	240.75	240.14	240.86	245.75	240.67	240.34	239.83	239.69	239.66	239.94	
16	239.93	240.21	241.18	240.14	240.58	244.27	240.62	240.30	239.83	239.69	239.66	239.77	
17	239.95	240.12	240.75	240.14	240.40	242.99	240.84	240.27	239.82	239.69	239.66	239.66	
18	239.84	240.08	240.81	240.14	240.29	243.98	240.66	240.27	239.82	239.68	239.65	239.65	
19	239.71	240.10	240.75	240.23	240.23	246.00	240.53	240.26	239.81	239.68	239.65	239.64	
20	239.67	240.32	241.24	240.78	241.20	243.74	240.47	240.25	239.81	239.65	239.64	239.63	
21	239.66	241.00	240.98	240.67	241.44	242.94	240.55	240.25	239.80	239.63	239.63	239.75	
22	239.64	241.16	240.54	240.39	240.97	242.70	240.64	240.24	239.80	239.63	239.62	239.91	
23	239.82	240.64	240.64	240.68	240.76	241.80	240.68	240.24	239.80	239.63	239.60	239.74	
24	239.93	240.62	240.45	240.49	240.48	241.45	240.71	240.24	239.84	239.62	239.59	239.69	
25	239.90	240.54	240.41	240.86	240.32	241.13	241.12	240.23	239.84	239.60	239.58	239.74	
26	239.87	240.46	240.27	241.08	240.31	240.86	240.96	240.23	239.84	239.60	239.57	239.77	
27	239.81	240.44	240.23	240.67	240.24	240.73	240.79	240.23	239.84	239.60	239.57	239.99	
28	239.75	240.38	240.17	240.51	240.20	241.60	240.78	240.23	239.84	239.59	239.57	240.03	
29	239.80	240.33	240.18	240.45	240.31	241.50	240.65	240.23	239.84	239.59		239.78	
30	240.00	240.25	240.21	240.56	240.24	241.33	240.52	240.22	239.83	239.59		239.75	
31		240.15		240.44	240.20		240.90		239.83	239.59		239.80	
Mean	239.82	240.72	240.74	240.38	240.63	242.24	241.25	241.00	239.86	239.67	239.65	239.69	
Max	240.13	241.94	242.94	241.08	242.46	246.87	244.06	244.33	240.12	239.74	239.72	240.03	246.87
Min	239.64	240.08	240.01	240.12	240.20	240.32	240.47	240.22	239.80	239.59	239.57	239.55	239.55

Annual Max Momentary Gage Height 247.09 m. (MSL.) , at 06.00 Hours , on Sep 14 , 2008

Zero Gage at Bottom Elevation 239.62 m. (MSL.) , River Bed 238.18 m. (MSL.)

Left Bank Elevation 253.64 m. (MSL.) ,

Right Bank Elevation 253.65 m. (MSL.) , Drainage Are 1,271 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.10	27.48	7.60	10.60	15.00	12.40	28.88	187.10	8.40	3.40	2.80	1.70		
2	7.20	67.36	6.20	8.80	25.52	20.20	43.32	208.10	6.00	3.40	2.80	1.70		
3	8.60	39.36	9.00	8.40	92.08	22.72	110.24	135.80	5.40	3.40	2.80	1.70		
4	6.60	28.60	67.36	14.60	25.80	14.40	89.20	87.28	5.20	3.40	2.80	1.70		
5	5.70	28.04	118.64	14.20	18.24	15.20	46.56	99.04	5.20	3.40	2.90	1.70		
6	5.20	44.04	56.36	15.80	13.60	27.48	56.80	67.36	5.10	3.30	3.10	1.60		
7	4.00	39.00	37.92	12.00	12.00	41.52	110.24	45.84	5.10	3.20	2.70	1.60		
8	3.50	37.56	39.00	11.60	11.40	37.56	189.20	36.12	4.90	3.10	2.90	1.60		
9	3.30	35.40	21.60	10.00	15.20	45.48	122.60	49.32	4.80	3.00	3.20	1.50		
10	3.00	35.40	16.84	9.60	20.76	54.16	61.20	32.52	4.70	3.00	3.20	1.50		
11	2.70	37.20	14.40	10.00	17.68	25.24	50.64	22.72	4.60	3.00	3.00	1.50		
12	2.50	23.56	18.80	9.60	16.28	84.40	36.12	17.96	4.50	3.00	3.00	1.50		
13	2.50	14.40	16.28	8.80	21.04	288.70	27.48	15.60	4.40	3.00	2.70	1.70		
14	2.60	17.40	17.12	8.80	50.20	428.26	23.00	14.20	4.30	2.90	2.70	3.60		
15	3.60	13.80	23.00	8.80	26.08	323.00	20.76	12.80	4.30	2.90	2.60	5.40		
16	5.30	10.20	36.48	8.80	18.24	203.90	19.36	12.00	4.30	2.90	2.60	3.70		
17	5.50	8.40	23.00	8.80	14.00	121.44	25.52	11.40	4.20	2.90	2.60	2.60		
18	4.40	7.60	24.68	8.80	11.80	183.68	20.48	11.40	4.20	2.80	2.50	2.50		
19	3.10	8.00	23.00	10.60	10.60	345.00	16.84	11.20	4.10	2.80	2.50	2.40		
20	2.70	12.40	38.64	23.84	37.20	167.84	15.40	11.00	4.10	2.50	2.40	2.30		
21	2.60	30.00	29.44	20.76	45.84	118.64	17.40	11.00	4.00	2.30	2.30	3.50		
22	2.40	35.76	17.12	13.80	29.16	105.20	19.92	10.80	4.00	2.30	2.20	5.10		
23	4.20	19.92	19.92	21.04	23.28	61.20	21.04	10.80	4.00	2.30	2.00	3.40		
24	5.30	19.36	15.00	15.80	15.60	46.20	21.88	10.80	4.40	2.20	1.90	2.90		
25	5.00	17.12	14.20	26.08	12.40	34.68	34.32	10.60	4.40	2.00	1.80	3.40		
26	4.70	15.20	11.40	32.88	12.20	26.08	28.88	10.60	4.40	2.00	1.70	3.70		
27	4.10	14.80	10.60	20.76	10.80	22.44	24.12	10.60	4.40	2.00	1.70	5.90		
28	3.50	13.60	9.40	16.28	10.00	52.40	23.84	10.60	4.40	1.90	1.70	6.60		
29	4.00	12.60	9.60	15.00	12.20	48.00	20.20	10.60	4.40	1.90		3.80		
30	6.00	11.00	10.20	17.68	10.80	41.88	16.56	10.40	4.30	1.90		3.50		
31		9.00		14.80	10.00		27.20		4.30	1.90		4.00		
Total	127.90	733.56	762.80	437.32	665.00	3019.30	1369.20	1195.56	144.80	84.00	71.10	89.30	8699.84	CMSDAY
Mean	4.26	23.66	25.43	14.11	21.45	100.64	44.17	39.85	4.67	2.71	2.54	2.88	23.84	CMS
Max	8.60	67.36	118.64	32.88	92.08	428.26	189.20	208.10	8.40	3.40	3.20	6.60	428.26	CMS
Min	2.40	7.60	6.20	8.40	10.00	12.40	15.40	10.40	4.00	1.90	1.70	1.50	1.50	CMS
Runoff	11.05	63.38	65.91	37.78	57.46	260.87	118.30	103.30	12.51	7.26	6.14	7.72	751.67	MCM

Momentary Peak 450.00 CMS. at 247.09 m. (MSL.) at 06.00 Hours , on Sep 14 , 2008

Runoff Yield 18.75 Liters/Second/Square KM. Momentary Peak Yield 354.05 Liters/Second/Square KM.

WATER YEAR : 2008

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 Wua So **Amphoe** Nong Wua 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 mean of 24 readings
Period of Available Gage Records	1970 to date
Rating Operation	
Period of Rating	1975 - 1986 , 1997 to date
Rated by Float	-
Rated by Current Meter	1975 - 1986 , 1997 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records poor. Flow regulated by Huai Luang barrage. Stage-discharge relation defined by 8 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

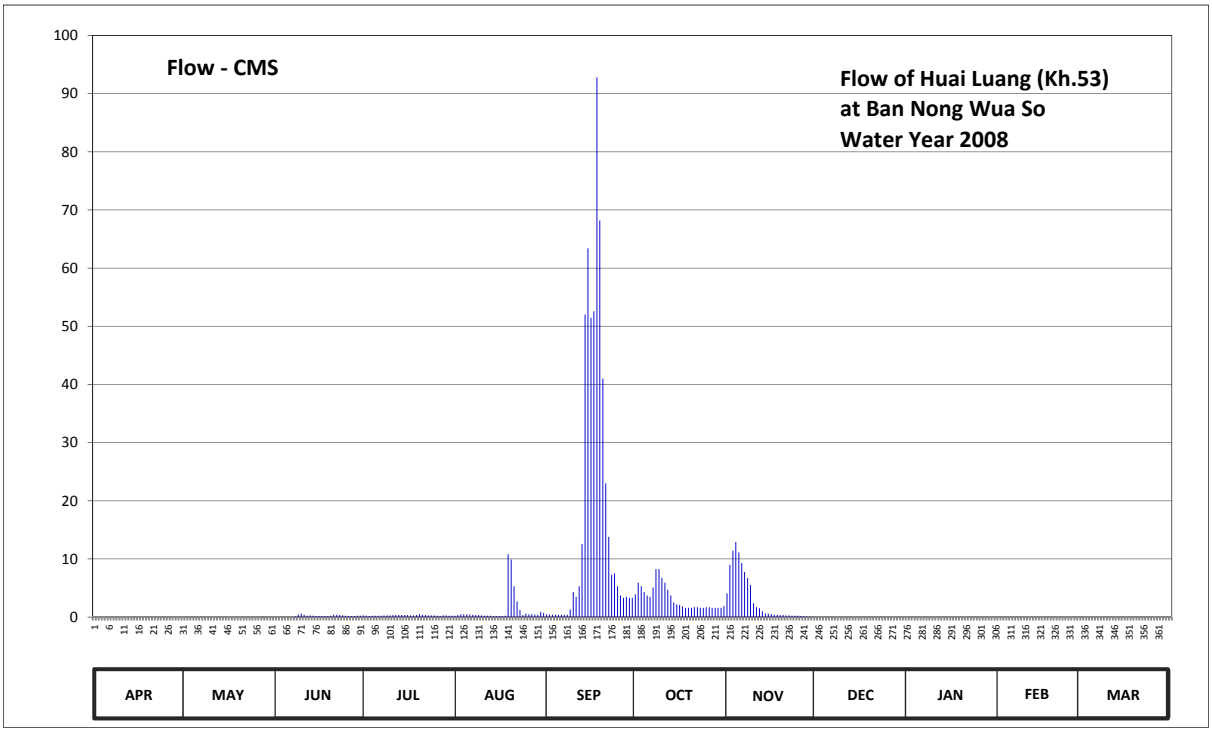
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	203.92	204.06	204.07	204.16	204.15	204.19	204.47	204.47	204.10	204.07	204.08	203.96	
2	203.93	204.08	204.07	204.14	204.16	204.18	204.57	204.69	204.10	204.07	204.10	203.96	
3	203.93	204.08	204.09	204.14	204.20	204.18	204.54	204.77	204.10	204.07	204.09	203.96	
4	203.96	204.08	204.10	204.15	204.20	204.17	204.49	204.82	204.10	204.06	204.09	203.96	
5	203.96	204.08	204.09	204.15	204.19	204.18	204.46	204.77	204.10	204.06	204.10	203.96	
6	203.97	204.07	204.09	204.15	204.18	204.18	204.44	204.70	204.10	204.06	204.09	203.95	
7	203.97	204.06	204.09	204.15	204.17	204.17	204.53	204.65	204.10	204.06	204.09	203.94	
8	203.98	204.06	204.12	204.16	204.17	204.18	204.67	204.61	204.10	204.06	204.09	203.93	
9	203.98	204.06	204.19	204.16	204.16	204.27	204.67	204.54	204.10	204.06	204.09	203.91	
10	203.97	204.06	204.21	204.16	204.15	204.48	204.61	204.38	204.10	204.07	204.09	203.89	
11	203.92	204.06	204.18	204.16	204.15	204.45	204.56	204.31	204.10	204.07	204.09	203.88	
12	203.91	204.06	204.15	204.17	204.15	204.54	204.50	204.30	204.09	204.06	204.09	203.87	
13	203.91	204.06	204.16	204.17	204.15	204.81	204.46	204.24	204.09	204.06	204.08	203.87	
14	203.93	204.05	204.15	204.16	204.14	205.69	204.40	204.21	204.10	204.06	204.08	203.87	
15	203.98	204.05	204.14	204.17	204.14	205.88	204.36	204.20	204.10	204.06	204.07	203.86	
16	204.00	204.05	204.14	204.17	204.13	205.69	204.36	204.20	204.10	204.06	204.07	203.86	
17	204.02	204.05	204.14	204.16	204.14	205.71	204.33	204.18	204.08	204.06	204.07	203.85	
18	204.08	204.04	204.13	204.16	204.14	206.30	204.31	204.17	204.08	204.06	204.06	203.85	
19	204.07	204.04	204.14	204.17	204.75	205.97	204.31	204.17	204.07	204.05	204.06	203.85	
20	204.06	204.04	204.14	204.20	204.73	205.50	204.31	204.16	204.07	204.05	204.04	203.85	
21	204.05	204.07	204.18	204.17	204.54	205.10	204.32	204.16	204.07	204.04	204.05	203.85	
22	204.05	204.07	204.17	204.16	204.41	204.86	204.31	204.15	204.07	204.04	204.05	203.85	
23	204.05	204.07	204.16	204.16	204.27	204.63	204.31	204.15	204.07	204.04	204.05	203.87	
24	204.04	204.07	204.15	204.16	204.17	204.64	204.31	204.15	204.08	204.04	204.05	203.86	
25	204.03	204.07	204.14	204.15	204.21	204.53	204.32	204.14	204.08	204.06	204.04	203.87	
26	204.04	204.09	204.13	204.14	204.20	204.46	204.31	204.14	204.08	204.06	204.03	203.87	
27	204.04	204.09	204.13	204.14	204.20	204.44	204.31	204.13	204.08	204.05	204.02	203.87	
28	204.04	204.10	204.13	204.16	204.19	204.44	204.31	204.11	204.08	204.05	204.02	203.87	
29	204.04	204.10	204.15	204.15	204.18	204.43	204.31	204.11	204.08	204.07		203.87	
30	204.05	204.08	204.14	204.15	204.23	204.44	204.30	204.11	204.08	204.08		203.87	
31		204.08		204.15	204.21		204.34		204.08	204.09		203.86	
Mean	204.00	204.07	204.14	204.16	204.23	204.76	204.41	204.33	204.09	204.06	204.07	203.89	
Max	204.08	204.10	204.21	204.20	204.75	206.30	204.67	204.82	204.10	204.09	204.10	203.96	206.30
Min	203.91	204.04	204.07	204.14	204.13	204.17	204.30	204.11	204.07	204.04	204.02	203.85	203.85

Annual Max Momentary Gage Height 206.40 m. (MSL.) , at 08.00 Hours , on Sep 18, 2008

Zero Gage at Bottom Elevation 201.31 m. (MSL.) , River Bed 203.29 m. (MSL.)

Left Bank Elevation 207.84 m. (MSL.) ,

Right Bank Elevation 207.87 m. (MSL.) , Drainage Are 421 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.30	0.25	0.50	3.90	4.10	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.25	0.35	0.45	5.90	9.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.20	0.50	0.40	5.30	11.40	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.25	0.50	0.40	4.30	12.90	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.25	0.50	0.40	3.70	11.10	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.25	0.45	0.40	3.50	9.30	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.25	0.40	0.40	5.10	7.75	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.10	0.30	0.35	0.40	8.25	6.75	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.45	0.30	0.35	1.30	8.25	5.50	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.60	0.30	0.30	4.30	6.75	2.40	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.40	0.35	0.25	3.50	5.90	1.70	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.25	0.35	0.25	5.30	4.70	1.50	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.30	0.35	0.25	12.60	3.70	1.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.25	0.35	0.20	52.00	2.50	0.60	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.20	0.35	0.20	63.40	2.20	0.60	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.20	0.35	0.20	51.45	2.10	0.50	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.20	0.30	0.20	52.60	1.80	0.45	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.15	0.30	0.25	92.80	1.60	0.40	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.20	0.35	10.80	68.20	1.60	0.35	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.25	0.50	9.90	41.00	1.60	0.35	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.40	0.40	5.30	23.00	1.70	0.30	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.40	0.35	2.70	13.80	1.70	0.30	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.35	0.30	1.20	7.25	1.60	0.25	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.30	0.30	0.35	7.50	1.60	0.25	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.25	0.30	0.60	5.30	1.70	0.25	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.20	0.25	0.50	3.70	1.70	0.20	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.15	0.20	0.50	3.30	1.60	0.15	0.00	0.00	0.00	0.00		
28	0.00	0.05	0.20	0.30	0.45	3.50	1.60	0.10	0.00	0.00	0.00	0.00		
29	0.00	0.05	0.25	0.30	0.40	3.30	1.60	0.05	0.00	0.00		0.00		
30	0.00	0.00	0.25	0.25	0.90	3.30	1.60	0.05	0.00	0.00		0.00		
31		0.00		0.25	0.70		1.90		0.00	0.00		0.00		
Total	0.00	0.10	6.30	9.40	40.05	525.75	100.95	89.55	0.00	0.00	0.00	0.00	772.10	CMSDAY
Mean	0.00	0.00	0.21	0.30	1.29	17.52	3.26	2.98	0.00	0.00	0.00	0.00	2.12	CMS
Max	0.00	0.05	0.60	0.50	10.80	92.80	8.25	12.90	0.00	0.00	0.00	0.00	92.80	CMS
Min	0.00	0.00	0.00	0.20	0.20	0.40	1.60	0.05	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.01	0.54	0.81	3.46	45.42	8.72	7.74	0.00	0.00	0.00	0.00	66.71	MCM

Momentary Peak 100.00 CMS. at 206.40 m. (MSL.) at 08.00 Hours , on Sep 18, 2008

Runoff Yield 5.02 Liters/Second/Square KM. Momentary Peak Yield 237.53 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1990 to date		
Rated by Float	-		
Rated by Current Meter	1990 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

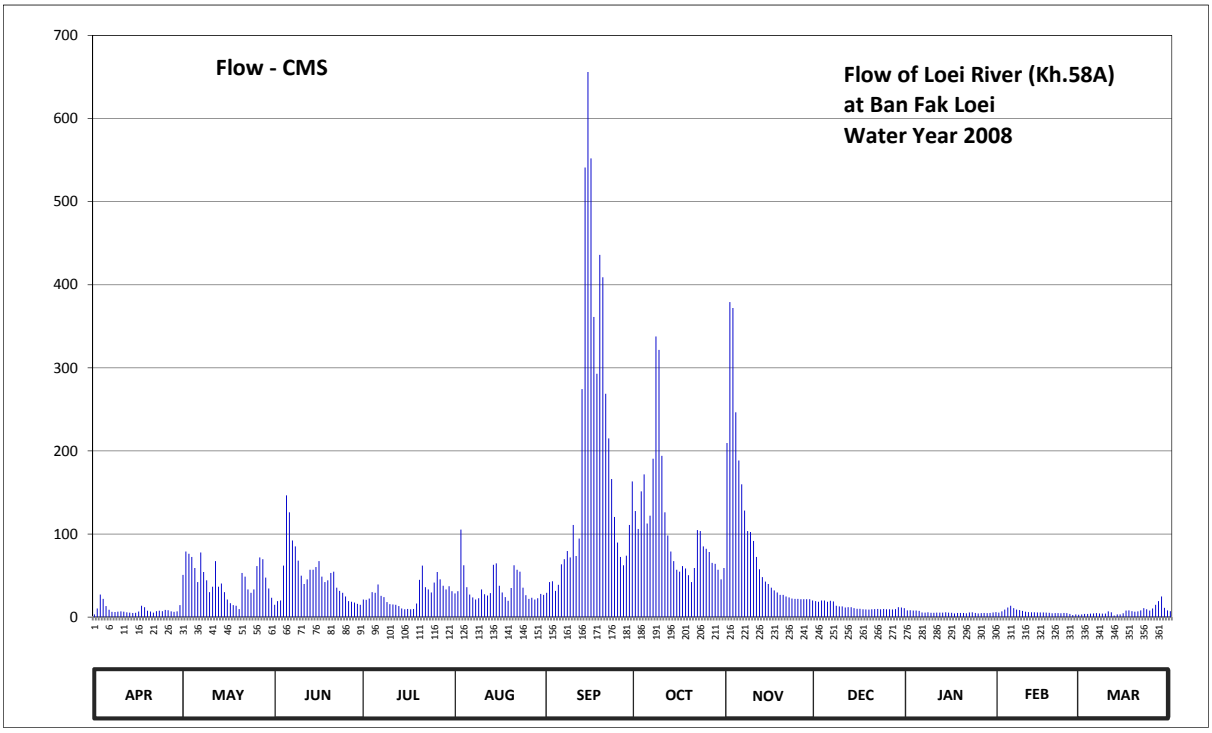
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.16	231.38	230.62	230.78	230.96	230.98	232.68	233.85	230.73	230.40	230.27	230.16	
2	230.51	231.89	230.73	230.77	231.02	231.22	232.35	235.88	230.71	230.41	230.35	230.19	
3	230.93	231.84	230.75	230.81	232.34	231.24	233.02	235.80	230.75	230.39	230.45	230.19	
4	230.80	231.77	231.58	231.00	231.59	231.03	233.31	234.33	230.75	230.39	230.54	230.21	
5	230.58	231.53	232.95	230.98	231.11	231.16	232.46	233.55	230.71	230.37	230.59	230.22	
6	230.44	231.22	232.66	231.17	230.93	231.61	232.60	233.14	230.74	230.28	230.52	230.24	
7	230.32	231.87	232.12	230.89	230.84	231.72	233.58	232.69	230.72	230.27	230.45	230.22	
8	230.31	231.44	232.00	230.85	230.78	231.90	235.42	232.31	230.59	230.29	230.42	230.21	
9	230.33	231.26	231.69	230.70	230.82	231.76	235.24	232.29	230.57	230.26	230.37	230.21	
10	230.35	231.00	231.36	230.64	231.06	232.43	233.63	232.11	230.57	230.26	230.33	230.35	
11	230.33	231.12	231.18	230.63	230.94	231.79	232.66	231.77	230.54	230.27	230.30	230.29	
12	230.29	231.68	231.28	230.62	230.90	232.16	232.22	231.50	230.55	230.27	230.29	230.10	
13	230.27	231.12	231.49	230.58	230.97	234.68	231.89	231.33	230.55	230.27	230.29	230.16	
14	230.25	231.19	231.49	230.51	231.60	237.66	231.68	231.23	230.52	230.29	230.28	230.16	
15	230.26	231.00	231.55	230.47	231.63	238.81	231.49	231.18	230.50	230.27	230.28	230.23	
16	230.34	230.78	231.68	230.49	231.14	237.77	231.45	231.10	230.50	230.26	230.28	230.39	
17	230.59	230.67	231.34	230.47	230.99	235.68	231.57	231.04	230.47	230.22	230.27	230.40	
18	230.55	230.61	231.22	230.49	230.85	234.91	231.52	230.99	230.46	230.25	230.26	230.36	
19	230.38	230.59	231.26	230.66	230.74	236.51	231.37	230.92	230.45	230.25	230.23	230.33	
20	230.34	230.48	231.42	231.27	231.09	236.21	231.22	230.92	230.47	230.25	230.24	230.35	
21	230.27	231.42	231.45	231.58	231.59	234.61	231.53	230.87	230.48	230.23	230.24	230.40	
22	230.36	231.34	231.10	231.11	231.49	233.93	232.33	230.84	230.49	230.28	230.23	230.52	
23	230.38	231.06	231.03	231.06	231.45	233.23	232.31	230.81	230.47	230.29	230.25	230.47	
24	230.36	230.98	230.98	230.99	231.10	232.58	232.00	230.80	230.49	230.25	230.24	230.39	
25	230.43	231.06	230.87	231.21	230.91	232.08	231.95	230.80	230.47	230.22	230.19	230.51	
26	230.41	231.57	230.73	231.44	230.80	231.77	231.88	230.79	230.47	230.24	230.12	230.62	
27	230.35	231.76	230.71	231.28	230.83	231.59	231.64	230.79	230.46	230.25	230.16	230.73	
28	230.32	231.72	230.69	231.14	230.78	231.80	231.62	230.79	230.48	230.24	230.14	230.87	
29	230.35	231.32	230.65	231.06	230.82	232.43	231.49	230.79	230.55	230.25		230.53	
30	230.61	231.08	230.62	231.13	230.95	233.19	231.28	230.75	230.54	230.28		230.40	
31		230.83		231.02	230.92		231.53		230.52	230.30		230.36	
Mean	230.41	231.24	231.31	230.90	231.09	233.28	232.29	231.87	230.56	230.28	230.31	230.35	
Max	230.93	231.89	232.95	231.58	232.34	238.81	235.42	235.88	230.75	230.41	230.59	230.87	238.81
Min	230.16	230.48	230.62	230.47	230.74	230.98	231.22	230.75	230.45	230.22	230.12	230.10	230.10

Annual Max Momentary Gage Height 238.96 m. (MSL.) , at 05.00 Hours , on Sep 15, 2008

Zero Gage at Bottom Elevation 229.00 m. (MSL.) , River Bed 229.42 m. (MSL.)

Left Bank Elevation 240.43 m. (MSL.) ,

Right Bank Elevation 240.45 m. (MSL.) , Drainage Are 3,093 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.20	50.90	14.80	21.20	28.40	29.20	127.60	209.50	19.20	8.00	5.40	3.20		
2	10.40	78.95	19.20	20.80	31.10	42.10	106.00	379.20	18.40	8.20	7.00	3.80		
3	27.20	76.20	20.00	22.40	105.40	43.20	151.40	372.00	20.00	7.80	9.00	3.80		
4	22.00	72.35	61.90	30.00	62.45	31.65	171.70	246.40	20.00	7.80	11.60	4.20		
5	13.20	59.15	146.50	29.20	36.05	38.80	112.60	188.50	18.40	7.40	13.60	4.40		
6	8.80	42.10	126.20	39.35	27.20	63.55	122.00	159.80	19.60	5.60	10.80	4.80		
7	6.40	77.85	92.20	25.60	23.60	69.60	190.60	128.30	18.80	5.40	9.00	4.40		
8	6.20	54.20	85.00	24.00	21.20	79.50	337.80	103.60	13.60	5.80	8.40	4.20		
9	6.60	44.30	67.95	18.00	22.80	71.80	321.60	102.40	12.80	5.20	7.40	4.20		
10	7.00	30.00	49.80	15.60	33.30	110.80	194.10	91.60	12.80	5.20	6.60	7.00		
11	6.60	36.60	39.90	15.20	27.60	73.45	126.20	72.35	11.60	5.40	6.00	5.80		
12	5.80	67.40	45.40	14.80	26.00	94.60	98.20	57.50	12.00	5.40	5.80	2.00		
13	5.40	36.60	56.95	13.20	28.80	274.40	78.95	48.15	12.00	5.40	5.80	3.20		
14	5.00	40.45	56.95	10.40	63.00	541.00	67.40	42.65	10.80	5.80	5.60	3.20		
15	5.20	30.00	60.25	9.40	64.65	656.00	56.95	39.90	10.00	5.40	5.60	4.60		
16	6.80	21.20	67.40	9.80	37.70	552.00	54.75	35.50	10.00	5.20	5.60	7.80		
17	13.60	16.80	48.70	9.40	29.60	361.20	61.35	32.20	9.40	4.40	5.40	8.00		
18	12.00	14.40	42.10	9.80	24.00	292.80	58.60	29.60	9.20	5.00	5.20	7.20		
19	7.60	13.60	44.30	16.40	19.60	435.90	50.35	26.80	9.00	5.00	4.60	6.60		
20	6.80	9.60	53.10	44.85	34.95	408.90	42.10	26.80	9.40	5.00	4.80	7.00		
21	5.40	53.10	54.75	61.90	62.45	268.80	59.15	24.80	9.60	4.60	4.80	8.00		
22	7.20	48.70	35.50	36.05	56.95	215.10	104.80	23.60	9.80	5.60	4.60	10.80		
23	7.60	33.30	31.65	33.30	54.75	166.10	103.60	22.40	9.40	5.80	5.00	9.40		
24	7.20	29.20	29.20	29.60	35.50	120.60	85.00	22.00	9.80	5.00	4.80	7.80		
25	8.60	33.30	24.80	41.55	26.40	89.80	82.25	22.00	9.40	4.40	3.80	10.40		
26	8.20	61.35	19.20	54.20	22.00	72.35	78.40	21.60	9.40	4.80	2.40	14.80		
27	7.00	71.80	18.40	45.40	23.20	62.45	65.20	21.60	9.20	5.00	3.20	19.20		
28	6.40	69.60	17.60	37.70	21.20	74.00	64.10	21.60	9.60	4.80	2.80	24.80		
29	7.00	47.60	16.00	33.30	22.80	110.80	56.95	21.60	12.00	5.00		11.20		
30	14.40	34.40	14.80	37.15	28.00	163.30	45.40	20.00	11.60	5.60		8.00		
31		23.20		31.10	26.80		59.15		10.80	6.00		7.20		
Total	264.80	1378.20	1460.50	840.65	1127.45	5613.75	3334.25	2613.95	387.60	175.00	174.60	231.00	17601.75	CMSDAY
Mean	8.83	44.46	48.68	27.12	36.37	187.13	107.56	87.13	12.50	5.65	6.24	7.45	48.22	CMS
Max	27.20	78.95	146.50	61.90	105.40	656.00	337.80	379.20	20.00	8.20	13.60	24.80	656.00	CMS
Min	3.20	9.60	14.80	9.40	19.60	29.20	42.10	20.00	9.00	4.40	2.40	2.00	2.00	CMS
Runoff	22.88	119.08	126.19	72.63	97.41	485.03	288.08	225.85	33.49	15.12	15.09	19.96	1520.79	MCM

Momentary Peak 671.00 CMS. at 238.96 m. (MSL.) at 05.00 Hours , on Sep 15, 2008

Runoff Yield 15.59 Liters/Second/Square KM. Momentary Peak Yield 216.94 Liters/Second/Square KM.

WATER YEAR : 2007

KHONG RIVER BASIN

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

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

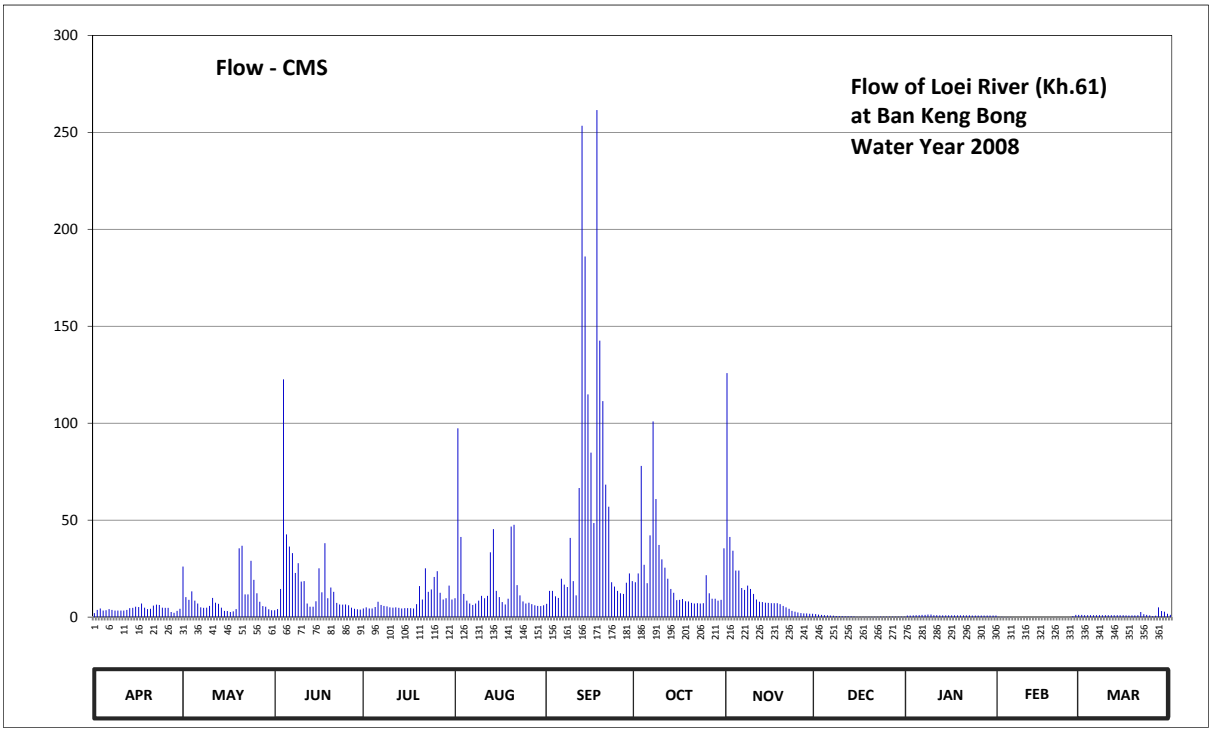
Location : on right bank at the bridge of Amphoe Wang Saphung - Ban Nong Khan Road.

	Ban Keng Bong	**Amphoe** Phu Luang	**Changwat** Loei
Drainge 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 mean of 24 readings		
Period of Available Gage Records	1982 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Float	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.27	260.37	259.37	259.43	259.76	259.59	260.10	262.11	259.24	259.17	259.04	259.21	
2	259.38	259.79	259.41	259.47	261.72	259.92	260.25	260.74	259.22	259.16	259.03	259.20	
3	259.43	259.72	259.96	259.43	260.74	259.92	261.43	260.58	259.21	259.18	259.02	259.19	
4	259.36	259.91	262.07	259.43	259.86	259.81	260.40	260.30	259.19	259.19	259.02	259.20	
5	259.37	259.70	260.77	259.48	259.70	259.77	260.08	260.30	259.18	259.20	259.01	259.19	
6	259.41	259.60	260.63	259.66	259.60	260.16	260.76	259.98	259.16	259.21	259.00	259.19	
7	259.38	259.47	260.55	259.55	259.55	260.05	261.77	259.94	259.14	259.21	259.00	259.19	
8	259.36	259.45	260.26	259.52	259.60	260.00	261.13	260.03	259.12	259.22	258.99	259.20	
9	259.36	259.46	260.42	259.50	259.70	260.73	260.65	259.96	259.10	259.22	258.99	259.20	
10	259.36	259.52	260.11	259.47	259.82	260.12	260.47	259.86	259.09	259.20	258.99	259.19	
11	259.36	259.77	260.12	259.46	259.76	259.83	260.35	259.73	259.08	259.19	258.99	259.19	
12	259.38	259.63	259.60	259.47	259.82	261.23	260.16	259.66	259.08	259.18	258.99	259.19	
13	259.44	259.59	259.49	259.45	260.56	263.40	259.96	259.65	259.08	259.18	258.99	259.20	
14	259.45	259.46	259.49	259.43	260.83	262.79	259.88	259.63	259.07	259.18	258.97	259.19	
15	259.49	259.35	259.68	259.44	259.92	261.97	259.71	259.62	259.04	259.18	258.97	259.19	
16	259.48	259.34	260.34	259.44	259.79	261.54	259.72	259.61	259.04	259.18	258.95	259.18	
17	259.60	259.31	259.89	259.44	259.65	260.90	259.74	259.61	259.04	259.18	258.89	259.17	
18	259.46	259.33	260.67	259.43	259.57	263.47	259.68	259.61	259.04	259.18	258.87	259.18	
19	259.41	259.41	259.76	259.58	259.75	262.32	259.67	259.58	259.04	259.18	258.87	259.18	
20	259.42	260.61	259.99	260.02	260.86	261.92	259.62	259.52	259.04	259.18	258.87	259.19	
21	259.53	260.64	259.90	259.73	260.88	261.26	259.60	259.47	259.04	259.18	258.87	259.31	
22	259.56	259.85	259.62	260.34	260.04	261.06	259.61	259.42	259.04	259.18	258.87	259.23	
23	259.55	259.85	259.57	259.90	259.83	260.10	259.60	259.35	259.05	259.17	258.87	259.21	
24	259.46	260.45	259.56	259.95	259.67	260.01	259.61	259.32	259.05	259.17	258.87	259.18	
25	259.45	260.14	259.57	260.19	259.60	259.92	260.22	259.29	259.05	259.17	258.86	259.09	
26	259.45	259.87	259.54	260.29	259.63	259.87	259.87	259.27	259.05	259.17	259.09	259.15	
27	259.31	259.66	259.46	259.88	259.58	259.86	259.75	259.26	259.05	259.17	259.21	259.47	
28	259.28	259.51	259.42	259.73	259.54	260.09	259.75	259.26	259.05	259.17	259.21	259.34	
29	259.35	259.49	259.40	259.76	259.52	260.25	259.70	259.25	259.05	259.17		259.32	
30	259.42	259.40	259.39	260.03	259.51	260.12	259.72	259.25	259.05	259.17		259.25	
31		259.37		259.73	259.54		260.61		259.05	259.17		259.21	
Mean	259.42	259.71	259.93	259.67	259.93	260.73	260.12	259.77	259.09	259.18	258.97	259.21	
Max	259.60	260.64	262.07	260.34	261.72	263.47	261.77	262.11	259.24	259.22	259.21	259.47	263.47
Min	259.27	259.31	259.37	259.43	259.51	259.59	259.60	259.25	259.04	259.16	258.86	259.09	258.86

Annual Max Momentary Gage Height	264.41	m. (MSL.) ,	at 15.00 Hours , on Sep 18 , 2008		
Zero Gage at Bottom Elevation	258.36	m. (MSL.) ,	River Bed	258.71	m. (MSL.)
Left Bank Elevation	271.80	m. (MSL.) ,			
Right Bank Elevation	271.79	m. (MSL.) ,	Drainage Are	549	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.05	26.10	3.55	4.45	9.70	6.85	18.00	125.80	1.60	0.85	0.20	1.15		
2	3.70	10.30	4.15	5.05	97.40	13.50	22.50	41.30	1.30	0.80	0.15	1.00		
3	4.45	8.90	14.50	4.45	41.30	13.50	78.01	34.20	1.15	0.90	0.10	0.95		
4	3.40	13.25	122.60	4.45	12.00	10.75	27.00	24.00	0.95	0.95	0.10	1.00		
5	3.55	8.50	42.65	5.20	8.50	9.90	17.50	24.00	0.90	1.00	0.05	0.95		
6	4.15	7.00	36.35	7.90	7.00	19.80	42.20	15.00	0.80	1.15	0.00	0.95		
7	3.70	5.05	33.00	6.25	6.25	16.75	100.90	14.00	0.70	1.15	0.00	0.95		
8	3.40	4.75	22.80	5.80	7.00	15.50	60.91	16.25	0.60	1.30	0.00	1.00		
9	3.40	4.90	27.80	5.50	8.50	40.85	37.25	14.50	0.50	1.30	0.00	1.00		
10	3.40	5.80	18.30	5.05	11.00	18.60	29.80	12.00	0.45	1.00	0.00	0.95		
11	3.40	9.90	18.60	4.90	9.70	11.25	25.50	9.10	0.40	0.95	0.00	0.95		
12	3.70	7.45	7.00	5.05	11.00	66.61	19.80	7.90	0.40	0.90	0.00	0.95		
13	4.60	6.85	5.35	4.75	33.40	253.40	14.50	7.75	0.40	0.90	0.00	1.00		
14	4.75	4.90	5.35	4.45	45.35	186.00	12.50	7.45	0.35	0.90	0.00	0.95		
15	5.35	3.25	8.20	4.60	13.50	114.90	8.70	7.30	0.20	0.90	0.00	0.95		
16	5.20	3.10	25.20	4.60	10.30	84.80	8.90	7.15	0.20	0.90	0.00	0.90		
17	7.00	2.65	12.75	4.60	7.75	48.50	9.30	7.15	0.20	0.90	0.00	0.85		
18	4.90	2.95	38.15	4.45	6.55	261.52	8.20	7.15	0.20	0.90	0.00	0.90		
19	4.15	4.15	9.70	6.70	9.50	142.60	8.05	6.70	0.20	0.90	0.00	0.90		
20	4.30	35.45	15.25	16.00	46.70	111.40	7.30	5.80	0.20	0.90	0.00	0.95		
21	5.95	36.80	13.00	9.10	47.60	68.32	7.00	5.05	0.20	0.90	0.00	2.65		
22	6.40	11.75	7.30	25.20	16.50	56.92	7.15	4.30	0.20	0.90	0.00	1.45		
23	6.25	11.75	6.55	13.00	11.25	18.00	7.00	3.25	0.25	0.85	0.00	1.15		
24	4.90	29.00	6.40	14.25	8.05	15.75	7.15	2.80	0.25	0.85	0.00	0.90		
25	4.75	19.20	6.55	20.70	7.00	13.50	21.60	2.35	0.25	0.85	0.00	0.45		
26	4.75	12.25	6.10	23.70	7.45	12.25	12.25	2.05	0.25	0.85	0.45	0.75		
27	2.65	7.90	4.90	12.50	6.70	12.00	9.50	1.90	0.25	0.85	1.15	5.05		
28	2.20	5.65	4.30	9.10	6.10	17.75	9.50	1.90	0.25	0.85	1.15	3.10		
29	3.25	5.35	4.00	9.70	5.80	22.50	8.50	1.75	0.25	0.85		2.80		
30	4.30	4.00	3.85	16.25	5.65	18.60	8.90	1.75	0.25	0.85		1.75		
31		3.55		9.10	6.10		35.45		0.25	0.85		1.15		
Total	127.95	322.40	534.20	276.80	530.60	1702.57	690.82	421.60	14.35	28.90	3.35	40.40	4693.94	CMSDAY
Mean	4.27	10.40	17.81	8.93	17.12	56.75	22.28	14.05	0.46	0.93	0.12	1.30	12.86	CMS
Max	7.00	36.80	122.60	25.20	97.40	261.52	100.90	125.80	1.60	1.30	1.15	5.05	261.52	CMS
Min	2.05	2.65	3.55	4.45	5.65	6.85	7.00	1.75	0.20	0.80	0.00	0.45	0.00	CMS
Runoff	11.05	27.86	46.15	23.92	45.84	147.10	59.69	36.43	1.24	2.50	0.29	3.49	405.56	MCM

Momentary Peak 387.22 CMS. at 264.41 m. (MSL.) at 15.00 Hours , on Sep 18, 2008

Runoff Yield 23.42 Liters/Second/Square KM. Momentary Peak Yield 705.32 Liters/Second/Square KM.

WATER YEAR : 2008

KHONG RIVER BASIN

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

Lat 20 - 13 - 01 N Long 99 - 51 - 38 E

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

Ban Mae Kham Lak Chet **Amphoe** Mae Chan **Changwat** Chiang Rai

Drainge Area	667 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+393.400 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank about 20 meters from the top staff gage. **Elevation** +399.176 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 mean of 5 readings
Period of Available Gage Records	1982 to date
Rating Operation	
Period of Rating	1993 to date
Rated by Float	-
Rated by Current Meter	1993 to date
Stability of Channel Regimes	Fairly stable by some scouring.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the bridge of Chiang Rai - Mae Sai Highway construction. Stage-discharge relation defined by 29 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

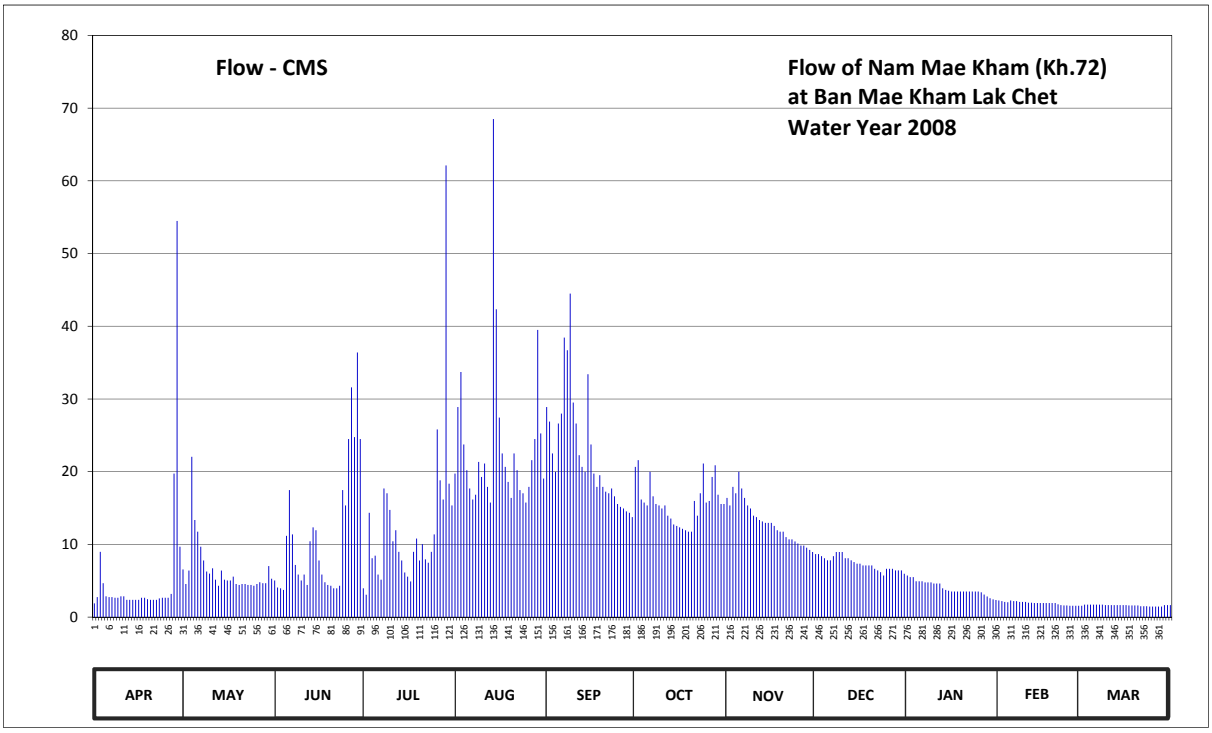
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	394.20	394.60	394.49	394.40	395.28	395.64	395.32	395.13	394.83	394.71	394.41	394.28	
2	394.29	394.45	394.41	394.32	395.64	395.57	395.36	395.08	394.83	394.70	394.40	394.31	
3	394.75	394.59	394.40	395.03	395.80	395.40	395.12	395.20	394.82	394.70	394.38	394.31	
4	394.46	395.38	394.38	394.70	395.45	395.29	395.10	395.16	394.81	394.66	394.37	394.31	
5	394.30	394.98	394.87	394.72	395.30	395.56	395.08	395.29	394.80	394.66	394.41	394.31	
6	394.29	394.90	395.18	394.55	395.19	395.61	395.29	395.19	394.80	394.66	394.40	394.31	
7	394.29	394.79	394.88	394.50	395.12	395.95	395.14	395.13	394.82	394.65	394.40	394.31	
8	394.28	394.68	394.64	395.19	395.15	395.90	395.09	395.08	394.84	394.65	394.38	394.31	
9	394.28	394.58	394.55	395.16	395.35	396.12	395.08	395.06	394.84	394.65	394.38	394.30	
10	394.30	394.56	394.49	395.05	395.26	395.66	395.06	395.01	394.84	394.64	394.38	394.30	
11	394.30	394.61	394.55	394.83	395.34	395.56	395.08	395.00	394.81	394.64	394.36	394.30	
12	394.25	394.50	394.44	394.91	395.20	395.39	395.01	394.98	394.81	394.64	394.36	394.30	
13	394.25	394.43	394.83	394.75	395.10	395.32	394.99	394.97	394.80	394.59	394.35	394.30	
14	394.25	394.59	394.93	394.68	396.67	395.29	394.95	394.96	394.79	394.57	394.35	394.30	
15	394.25	394.50	394.91	394.57	396.06	395.79	394.94	394.96	394.78	394.56	394.35	394.30	
16	394.25	394.49	394.68	394.53	395.59	395.45	394.93	394.96	394.78	394.55	394.35	394.30	
17	394.28	394.49	394.55	394.48	395.40	395.28	394.92	394.94	394.77	394.55	394.35	394.29	
18	394.28	394.53	394.47	394.75	395.32	395.20	394.91	394.91	394.77	394.55	394.35	394.29	
19	394.26	394.45	394.44	394.85	395.23	395.27	394.90	394.90	394.77	394.55	394.35	394.29	
20	394.25	394.44	394.43	394.68	395.13	395.20	394.90	394.90	394.77	394.55	394.35	394.29	
21	394.25	394.45	394.40	394.81	395.40	395.17	395.11	394.91	394.75	394.55	394.32	394.27	
22	394.25	394.45	394.40	394.69	395.30	395.16	395.01	394.90	394.74	394.55	394.30	394.27	
23	394.27	394.44	394.43	394.66	395.18	395.19	395.16	394.90	394.73	394.55	394.29	394.27	
24	394.28	394.44	395.18	394.75	395.16	395.14	395.34	394.89	394.71	394.55	394.29	394.26	
25	394.28	394.43	395.08	394.88	395.10	395.09	395.10	394.88	394.75	394.55	394.28	394.26	
26	394.28	394.45	395.48	395.53	395.20	395.07	395.11	394.87	394.75	394.54	394.28	394.26	
27	394.33	394.47	395.73	395.24	395.36	395.06	395.26	394.87	394.75	394.51	394.28	394.26	
28	395.28	394.46	395.49	395.12	395.48	395.04	395.33	394.86	394.74	394.48	394.28	394.26	
29	396.37	394.46	395.89	396.54	395.98	395.03	395.15	394.85	394.74	394.45		394.30	
30	394.79	394.63	395.48	395.22	395.51	395.00	395.09	394.84	394.74	394.43		394.30	
31		394.51		395.08	395.25		395.09		394.72	394.42		394.30	
Mean	394.41	394.57	394.80	394.88	395.40	395.38	395.09	394.99	394.78	394.58	394.35	394.29	
Max	396.37	395.38	395.89	396.54	396.67	396.12	395.36	395.29	394.84	394.71	394.41	394.31	396.67
Min	394.20	394.43	394.38	394.32	395.10	395.00	394.90	394.84	394.71	394.42	394.28	394.26	394.20

Annual Max Momentary Gage Height 397.10 m. (MSL.) , at 06.00 Hours , on Jul 29, 2008

Zero Gage at Bottom Elevation 393.40 m. (MSL.) , River Bed 393.78 m. (MSL.)

Left Bank Elevation 399.73 m. (MSL.) ,

Right Bank Elevation 399.72 m. (MSL.) , Drainage Are 667 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.90	6.55	5.03	3.95	19.74	28.90	20.66	16.40	8.67	5.73	2.28	1.55		
2	2.76	4.55	4.07	3.07	28.90	26.89	21.58	15.35	8.67	5.50	2.20	1.71		
3	8.98	6.41	3.95	14.35	33.70	22.50	16.18	17.90	8.38	5.50	2.09	1.71		
4	4.67	22.04	3.73	8.10	23.75	19.97	15.75	17.04	8.09	4.92	2.04	1.71		
5	2.85	13.35	11.18	8.45	20.20	26.62	15.35	19.97	7.80	4.92	2.28	1.71		
6	2.76	11.75	17.47	5.85	17.69	28.00	19.97	17.69	7.80	4.92	2.20	1.71		
7	2.76	9.68	11.37	5.15	16.18	38.45	16.61	16.40	8.38	4.78	2.20	1.71		
8	2.66	7.79	7.17	17.69	16.83	36.70	15.55	15.35	8.96	4.78	2.09	1.71		
9	2.66	6.27	5.85	17.04	21.35	44.50	15.35	14.95	8.96	4.78	2.09	1.65		
10	2.85	5.99	5.03	14.75	19.28	29.50	14.95	13.95	8.96	4.63	2.09	1.65		
11	2.85	6.71	5.85	10.42	21.12	26.62	15.35	13.75	8.09	4.63	1.98	1.65		
12	2.38	5.15	4.43	11.95	17.90	22.27	13.95	13.35	8.09	4.63	1.98	1.65		
13	2.38	4.31	10.42	8.98	15.75	20.66	13.55	13.15	7.80	3.95	1.93	1.65		
14	2.38	6.41	12.35	7.79	68.50	19.97	12.75	12.95	7.57	3.74	1.93	1.65		
15	2.38	5.15	11.95	6.13	42.33	33.40	12.55	12.95	7.34	3.63	1.93	1.65		
16	2.38	5.03	7.79	5.57	27.43	23.75	12.35	12.95	7.34	3.53	1.93	1.65		
17	2.66	5.03	5.85	4.91	22.50	19.74	12.15	12.55	7.11	3.53	1.93	1.60		
18	2.66	5.57	4.79	8.98	20.66	17.90	11.95	11.95	7.11	3.53	1.93	1.60		
19	2.47	4.55	4.43	10.80	18.59	19.51	11.75	11.75	7.11	3.53	1.93	1.60		
20	2.38	4.43	4.31	7.79	16.40	17.90	11.75	11.75	7.11	3.53	1.93	1.60		
21	2.38	4.55	3.95	10.04	22.50	17.26	15.97	11.01	6.65	3.53	1.76	1.50		
22	2.38	4.55	3.95	7.95	20.20	17.04	13.95	10.70	6.42	3.53	1.65	1.50		
23	2.57	4.43	4.31	7.48	17.47	17.69	17.04	10.70	6.19	3.53	1.60	1.50		
24	2.66	4.43	17.47	8.98	17.04	16.61	21.12	10.41	5.73	3.53	1.60	1.45		
25	2.66	4.31	15.35	11.37	15.75	15.55	15.75	10.12	6.65	3.53	1.55	1.45		
26	2.66	4.55	24.50	25.81	17.90	15.15	15.97	9.83	6.65	3.42	1.55	1.45		
27	3.18	4.79	31.60	18.82	21.58	14.95	19.28	9.83	6.65	3.11	1.55	1.45		
28	19.74	4.67	24.75	16.18	24.50	14.55	20.89	9.54	6.42	2.84	1.55	1.45		
29	54.48	4.67	36.40	62.12	39.50	14.35	16.83	9.25	6.42	2.60		1.65		
30	9.68	7.02	24.50	18.36	25.27	13.75	15.55	8.96	6.42	2.44		1.65		
31		5.29		15.35	19.05		15.55		5.96	2.36		1.65		
Total	162.16	199.98	333.80	384.18	729.56	680.65	487.95	392.45	229.50	123.11	53.77	49.82	3826.93	CMSDAY
Mean	5.41	6.45	11.13	12.39	23.53	22.69	15.74	13.08	7.40	3.97	1.92	1.61	10.48	CMS
Max	54.48	22.04	36.40	62.12	68.50	44.50	21.58	19.97	8.96	5.73	2.28	1.71	68.50	CMS
Min	1.90	4.31	3.73	3.07	15.75	13.75	11.75	8.96	5.73	2.36	1.55	1.45	1.45	CMS
Runoff	14.01	17.28	28.84	33.19	63.03	58.81	42.16	33.91	19.83	10.64	4.65	4.30	330.65	MCM

Momentary Peak 95.80 CMS. at 397.10 m. (MSL.) at 06.00 Hours , on Jul 29, 2008

Runoff Yield 15.72 Liters/Second/Square KM. Momentary Peak Yield 143.63 Liters/Second/Square KM.

WATER YEAR : 2008

KHONG RIVER BASIN

Nam Thop at Ban Kok So , Loei (Kh.77A)

Lat 17 - 15 - 46 N Long 101 - 39 - 28 E

Location : on left bank at Ban Kok So.

	Ban Kok So	**Amphoe** Wang Saphung	**Changwat** Loei
Drainge Area	156 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+260.980 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the abutment of the bridge.		**Elevation** +268.630 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 Float	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records poor. The cataract situated downstream from the gage site. Stage-discharge relation defined by 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

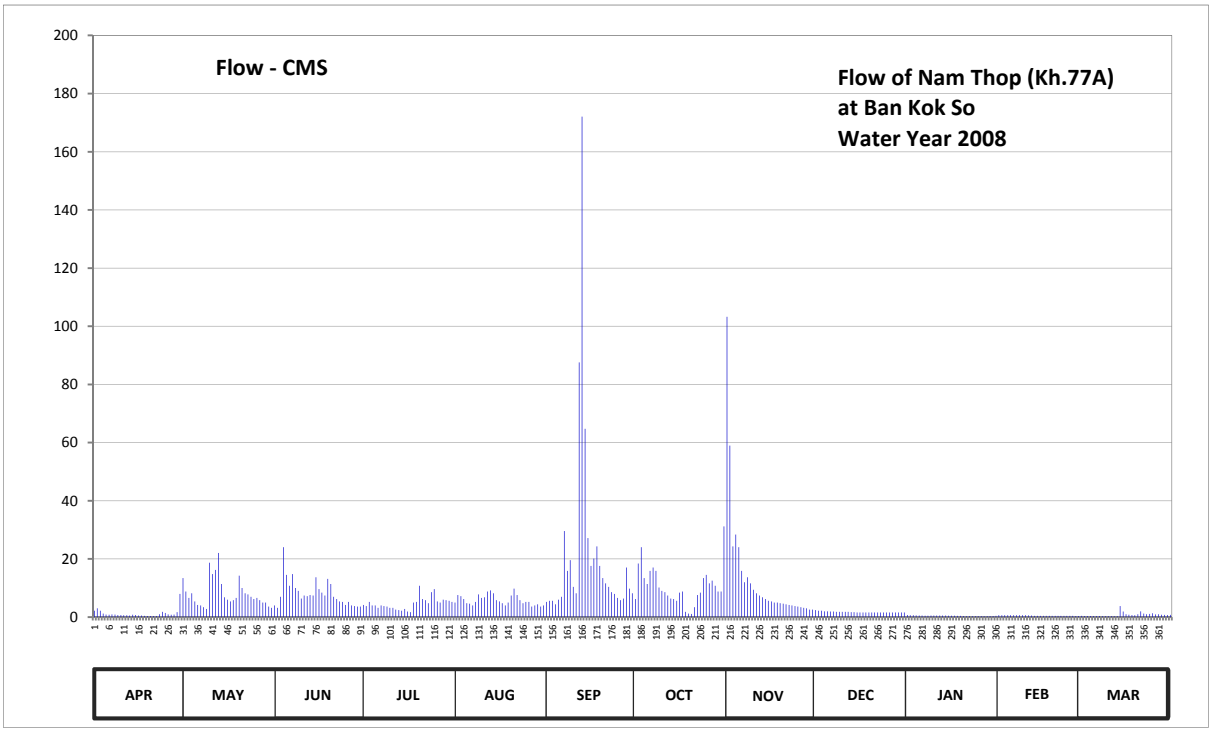
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	261.51	262.05	261.60	261.61	261.65	261.66	261.71	263.69	261.52	261.33	261.31	261.26	
2	261.55	261.84	261.56	261.59	261.78	261.68	262.23	263.18	261.51	261.32	261.31	261.24	
3	261.51	261.73	261.75	261.66	261.76	261.68	262.43	262.44	261.51	261.31	261.31	261.24	
4	261.42	261.81	262.43	261.60	261.71	261.62	262.05	262.56	261.50	261.30	261.31	261.24	
5	261.37	261.67	262.09	261.60	261.64	261.70	261.97	262.43	261.50	261.29	261.31	261.24	
6	261.36	261.61	261.94	261.56	261.63	261.75	262.14	262.14	261.49	261.28	261.31	261.24	
7	261.38	261.60	262.10	261.60	261.60	262.59	262.18	262.00	261.49	261.27	261.31	261.24	
8	261.37	261.57	261.90	261.59	261.66	262.14	262.14	262.06	261.48	261.27	261.31	261.23	
9	261.33	261.54	261.85	261.58	261.79	262.27	261.91	261.98	261.48	261.28	261.31	261.23	
10	261.33	262.24	261.72	261.56	261.73	261.92	261.85	261.87	261.48	261.28	261.31	261.23	
11	261.32	262.10	261.77	261.56	261.74	261.81	261.83	261.81	261.48	261.28	261.30	261.23	
12	261.31	262.15	261.76	261.53	261.84	263.55	261.77	261.77	261.48	261.28	261.28	261.23	
13	261.28	262.36	261.78	261.52	261.86	264.24	261.72	261.74	261.47	261.28	261.26	261.23	
14	261.35	261.97	261.77	261.51	261.81	263.26	261.71	261.71	261.47	261.28	261.26	261.59	
15	261.33	261.74	262.06	261.54	261.69	262.53	261.68	261.68	261.46	261.27	261.26	261.49	
16	261.28	261.70	261.88	261.49	261.67	262.20	261.82	261.67	261.46	261.27	261.26	261.39	
17	261.28	261.67	261.82	261.47	261.64	262.29	261.84	261.65	261.46	261.27	261.26	261.35	
18	261.26	261.69	261.77	261.65	261.60	262.44	261.48	261.65	261.46	261.26	261.26	261.33	
19	261.25	261.73	262.04	261.66	261.65	262.20	261.42	261.64	261.46	261.26	261.26	261.31	
20	261.25	262.08	261.97	261.94	261.77	262.05	261.41	261.63	261.46	261.25	261.26	261.39	
21	261.24	261.90	261.75	261.71	261.89	261.98	261.57	261.62	261.46	261.23	261.26	261.50	
22	261.24	261.81	261.71	261.69	261.78	261.92	261.78	261.61	261.46	261.23	261.26	261.42	
23	261.40	261.79	261.67	261.64	261.69	261.83	261.82	261.60	261.46	261.23	261.26	261.40	
24	261.48	261.75	261.66	261.83	261.64	261.80	262.05	261.59	261.46	261.23	261.26	261.41	
25	261.44	261.71	261.61	261.88	261.66	261.73	262.09	261.58	261.46	261.23	261.26	261.43	
26	261.38	261.73	261.66	261.67	261.66	261.69	261.98	261.57	261.46	261.23	261.26	261.38	
27	261.35	261.69	261.60	261.65	261.58	261.72	262.02	261.56	261.46	261.23	261.25	261.40	
28	261.37	261.65	261.59	261.70	261.60	262.18	261.94	261.55	261.46	261.23	261.25	261.36	
29	261.47	261.65	261.58	261.69	261.62	261.89	261.84	261.53	261.46	261.25		261.34	
30	261.80	261.58	261.58	261.68	261.58	261.81	261.84	261.53	261.46	261.25		261.33	
31		261.56		261.66	261.60		262.63		261.46	261.26		261.34	
Mean	261.37	261.80	261.80	261.63	261.69	262.14	261.90	261.90	261.47	261.27	261.28	261.33	
Max	261.80	262.36	262.43	261.94	261.89	264.24	262.63	263.69	261.52	261.33	261.31	261.59	264.24
Min	261.24	261.54	261.56	261.47	261.58	261.62	261.41	261.53	261.46	261.23	261.25	261.23	261.23

Annual Max Momentary Gage Height 265.48 m. (MSL.) , at 08.00 Hours , on Sep 13 , 2008

Zero Gage at Bottom Elevation 260.98 m. (MSL.) , River Bed 260.79 m. (MSL)

Left Bank Elevation 268.62 m. (MSL.) ,

Right Bank Elevation 268.67 m. (MSL.) , Drainage Are 156 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.20	13.40	4.00	4.20	5.00	5.20	6.20	103.28	2.40	0.72	0.64	0.44		
2	3.00	8.80	3.20	3.80	7.60	5.60	18.44	58.96	2.20	0.68	0.64	0.36		
3	2.20	6.60	7.00	5.20	7.20	5.60	24.04	24.32	2.20	0.64	0.64	0.36		
4	1.20	8.20	24.04	4.00	6.20	4.40	13.40	28.40	2.00	0.60	0.64	0.36		
5	0.88	5.40	14.52	4.00	4.80	6.00	11.40	24.04	2.00	0.56	0.64	0.36		
6	0.84	4.20	10.80	3.20	4.60	7.00	15.92	15.92	1.90	0.52	0.64	0.36		
7	0.92	4.00	14.80	4.00	4.00	29.60	17.04	12.00	1.90	0.48	0.64	0.36		
8	0.88	3.40	10.00	3.80	5.20	15.92	15.92	13.68	1.80	0.48	0.64	0.32		
9	0.72	2.80	9.00	3.60	7.80	19.56	10.20	11.60	1.80	0.52	0.64	0.32		
10	0.72	18.72	6.40	3.20	6.60	10.40	9.00	9.40	1.80	0.52	0.64	0.32		
11	0.68	14.80	7.40	3.20	6.80	8.20	8.60	8.20	1.80	0.52	0.60	0.32		
12	0.64	16.20	7.20	2.60	8.80	87.60	7.40	7.40	1.80	0.52	0.52	0.32		
13	0.52	22.08	7.60	2.40	9.20	172.08	6.40	6.80	1.70	0.52	0.44	0.32		
14	0.80	11.40	7.40	2.20	8.20	64.72	6.20	6.20	1.70	0.52	0.44	3.80		
15	0.72	6.80	13.68	2.80	5.80	27.20	5.60	5.60	1.60	0.48	0.44	1.90		
16	0.52	6.00	9.60	1.90	5.40	17.60	8.40	5.40	1.60	0.48	0.44	0.96		
17	0.52	5.40	8.40	1.70	4.80	20.12	8.80	5.00	1.60	0.48	0.44	0.80		
18	0.44	5.80	7.40	5.00	4.00	24.32	1.80	5.00	1.60	0.44	0.44	0.72		
19	0.40	6.60	13.12	5.20	5.00	17.60	1.20	4.80	1.60	0.44	0.44	0.64		
20	0.40	14.24	11.40	10.80	7.40	13.40	1.10	4.60	1.60	0.40	0.44	0.96		
21	0.36	10.00	7.00	6.20	9.80	11.60	3.40	4.40	1.60	0.32	0.44	2.00		
22	0.36	8.20	6.20	5.80	7.60	10.40	7.60	4.20	1.60	0.32	0.44	1.20		
23	1.00	7.80	5.40	4.80	5.80	8.60	8.40	4.00	1.60	0.32	0.44	1.00		
24	1.80	7.00	5.20	8.60	4.80	8.00	13.40	3.80	1.60	0.32	0.44	1.10		
25	1.40	6.20	4.20	9.60	5.20	6.60	14.52	3.60	1.60	0.32	0.44	1.30		
26	0.92	6.60	5.20	5.40	5.20	5.80	11.60	3.40	1.60	0.32	0.44	0.92		
27	0.80	5.80	4.00	5.00	3.60	6.40	12.56	3.20	1.60	0.32	0.40	1.00		
28	0.88	5.00	3.80	6.00	4.00	17.04	10.80	3.00	1.60	0.32	0.40	0.84		
29	1.70	5.00	3.60	5.80	4.40	9.80	8.80	2.60	1.60	0.40		0.76		
30	8.00	3.60	3.60	5.60	3.60	8.20	8.80	2.60	1.60	0.40		0.72		
31		3.20		5.20	4.00		31.20		1.60	0.44		0.76		
Total	36.42	253.24	245.16	144.80	182.40	654.56	328.14	395.40	54.20	14.32	14.48	25.90	2349.02	CMSDAY
Mean	1.21	8.17	8.17	4.67	5.88	21.82	10.59	13.18	1.75	0.46	0.52	0.84	6.44	CMS
Max	8.00	22.08	24.04	10.80	9.80	172.08	31.20	103.28	2.40	0.72	0.64	3.80	172.08	CMS
Min	0.36	2.80	3.20	1.70	3.60	4.40	1.10	2.60	1.60	0.32	0.40	0.32	0.32	CMS
Runoff	3.15	21.88	21.18	12.51	15.76	56.55	28.35	34.16	4.68	1.24	1.25	2.24	202.96	MCM

Momentary Peak 372.60 CMS. at 265.48 m. (MSL.) at 08.00 Hours , on Sep 13 , 2008

Runoff Yield 41.25 Liters/Second/Square KM. Momentary Peak Yield 2388.46 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 3 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1993 to date		
Rated by Float	-		
Rated by Current Meter	1993 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The concrete weir situated about 700 meters downstream from the gage site. Stage-discharge relation defined by 17 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

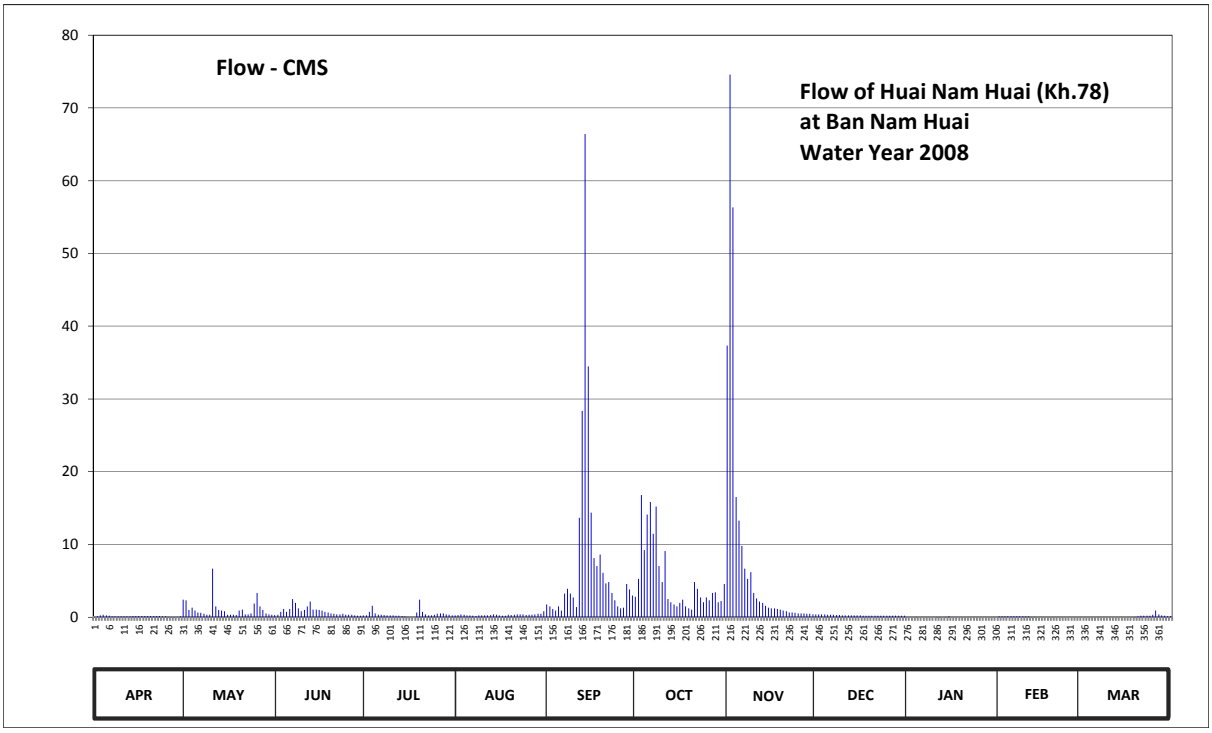
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	248.41	248.72	248.46	248.45	248.45	248.65	248.76	251.24	248.48	248.39	248.42	248.40	
2	248.42	248.71	248.47	248.45	248.46	248.62	249.02	252.94	248.48	248.40	248.42	248.39	
3	248.45	248.56	248.53	248.53	248.48	248.58	249.98	252.15	248.48	248.40	248.42	248.40	
4	248.47	248.60	248.58	248.63	248.47	248.55	249.35	249.96	248.48	248.41	248.42	248.39	
5	248.45	248.55	248.53	248.50	248.45	248.62	249.76	249.69	248.47	248.40	248.42	248.39	
6	248.44	248.52	248.58	248.47	248.45	248.55	249.90	249.40	248.47	248.38	248.42	248.37	
7	248.42	248.51	248.73	248.47	248.44	248.81	249.54	249.14	248.47	248.38	248.42	248.35	
8	248.42	248.49	248.67	248.46	248.43	248.88	249.85	249.02	248.46	248.39	248.42	248.35	
9	248.42	248.47	248.59	248.45	248.45	248.81	249.17	249.10	248.46	248.39	248.42	248.32	
10	248.42	248.47	248.54	248.45	248.45	248.75	248.98	248.82	248.45	248.38	248.42	248.30	
11	248.42	249.14	248.56	248.45	248.45	248.61	249.34	248.74	248.45	248.41	248.42	248.28	
12	248.42	248.62	248.62	248.44	248.45	249.72	248.73	248.69	248.45	248.41	248.41	248.26	
13	248.42	248.56	248.69	248.44	248.46	250.71	248.68	248.67	248.45	248.40	248.41	248.24	
14	248.43	248.55	248.57	248.43	248.48	252.60	248.65	248.63	248.45	248.41	248.40	248.26	
15	248.43	248.54	248.57	248.42	248.47	251.08	248.62	248.60	248.45	248.42	248.40	248.30	
16	248.43	248.47	248.56	248.41	248.45	249.78	248.67	248.59	248.45	248.40	248.40	248.37	
17	248.43	248.47	248.55	248.40	248.44	249.26	248.72	248.59	248.44	248.40	248.40	248.39	
18	248.43	248.47	248.53	248.40	248.44	249.17	248.62	248.58	248.44	248.39	248.40	248.40	
19	248.43	248.46	248.52	248.52	248.47	249.30	248.59	248.57	248.44	248.40	248.40	248.41	
20	248.43	248.55	248.50	248.72	248.46	249.09	248.57	248.55	248.44	248.40	248.40	248.42	
21	248.43	248.57	248.49	248.53	248.47	248.96	248.98	248.54	248.44	248.40	248.40	248.44	
22	248.43	248.48	248.48	248.48	248.48	248.98	248.88	248.52	248.44	248.40	248.40	248.44	
23	248.43	248.48	248.48	248.45	248.48	248.82	248.75	248.52	248.44	248.39	248.40	248.44	
24	248.42	248.50	248.49	248.45	248.48	248.71	248.68	248.51	248.44	248.39	248.40	248.44	
25	248.42	248.66	248.47	248.47	248.46	248.62	248.75	248.50	248.44	248.38	248.40	248.47	
26	248.41	248.82	248.47	248.49	248.47	248.59	248.71	248.50	248.44	248.38	248.39	248.55	
27	248.41	248.62	248.47	248.50	248.47	248.60	248.82	248.50	248.44	248.38	248.39	248.48	
28	248.41	248.56	248.45	248.50	248.48	248.95	248.83	248.49	248.44	248.39	248.39	248.45	
29	248.41	248.50	248.44	248.48	248.49	248.87	248.68	248.49	248.44	248.40		248.44	
30	248.42	248.48	248.44	248.47	248.49	248.78	248.70	248.48	248.44	248.40		248.42	
31		248.47		248.45	248.54		248.95		248.44	248.40		248.43	
Mean	248.43	248.57	248.53	248.48	248.46	249.13	248.98	249.09	248.45	248.40	248.41	248.39	
Max	248.47	249.14	248.73	248.72	248.54	252.60	249.98	252.94	248.48	248.42	248.42	248.55	252.94
Min	248.41	248.46	248.44	248.40	248.43	248.55	248.57	248.48	248.44	248.38	248.39	248.24	248.24

Annual Max Momentary Gage Height 253.81 m. (MSL.) , at 22.00 Hours , on Nov 2, 2008

Zero Gage at Bottom Elevation 246.22 m. (MSL.) , River Bed 247.36 m. (MSL.)

Left Bank Elevation 256.25 m. (MSL.) ,

Right Bank Elevation 256.22 m. (MSL.) , Drainage Are 219 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.05	2.41	0.30	0.25	0.25	1.76	2.78	37.32	0.40	0.00	0.10	0.00		
2	0.10	2.32	0.35	0.25	0.30	1.49	5.24	74.56	0.40	0.00	0.10	0.00		
3	0.25	0.98	0.74	0.74	0.40	1.14	16.76	56.30	0.40	0.00	0.10	0.00		
4	0.35	1.30	1.14	1.58	0.35	0.90	9.20	16.52	0.40	0.05	0.10	0.00		
5	0.25	0.90	0.74	0.50	0.25	1.49	14.12	13.28	0.35	0.00	0.10	0.00		
6	0.20	0.66	1.14	0.35	0.25	0.90	15.80	9.80	0.35	0.00	0.10	0.00		
7	0.10	0.58	2.50	0.35	0.20	3.24	11.48	6.68	0.35	0.00	0.10	0.00		
8	0.10	0.45	1.95	0.30	0.15	3.89	15.20	5.24	0.30	0.00	0.10	0.00		
9	0.10	0.35	1.22	0.25	0.25	3.24	7.04	6.20	0.30	0.00	0.10	0.00		
10	0.10	0.35	0.82	0.25	0.25	2.69	4.82	3.34	0.25	0.00	0.10	0.00		
11	0.10	6.68	0.98	0.25	0.25	1.39	9.08	2.60	0.25	0.05	0.10	0.00		
12	0.10	1.49	1.49	0.20	0.25	13.64	2.50	2.13	0.25	0.05	0.05	0.00		
13	0.10	0.98	2.13	0.20	0.30	28.36	2.04	1.95	0.25	0.00	0.05	0.00		
14	0.15	0.90	1.06	0.15	0.40	66.40	1.76	1.58	0.25	0.05	0.00	0.00		
15	0.15	0.82	1.06	0.10	0.35	34.44	1.49	1.30	0.25	0.10	0.00	0.00		
16	0.15	0.35	0.98	0.05	0.25	14.36	1.95	1.22	0.25	0.00	0.00	0.00		
17	0.15	0.35	0.90	0.00	0.20	8.12	2.41	1.22	0.20	0.00	0.00	0.00		
18	0.15	0.35	0.74	0.00	0.20	7.04	1.49	1.14	0.20	0.00	0.00	0.00		
19	0.15	0.30	0.66	0.66	0.35	8.60	1.22	1.06	0.20	0.00	0.00	0.05		
20	0.15	0.90	0.50	2.41	0.30	6.08	1.06	0.90	0.20	0.00	0.00	0.10		
21	0.15	1.06	0.45	0.74	0.35	4.63	4.82	0.82	0.20	0.00	0.00	0.20		
22	0.15	0.40	0.40	0.40	0.40	4.82	3.89	0.66	0.20	0.00	0.00	0.20		
23	0.15	0.40	0.40	0.25	0.40	3.34	2.69	0.66	0.20	0.00	0.00	0.20		
24	0.10	0.50	0.45	0.25	0.40	2.32	2.04	0.58	0.20	0.00	0.00	0.20		
25	0.10	1.86	0.35	0.35	0.30	1.49	2.69	0.50	0.20	0.00	0.00	0.35		
26	0.05	3.34	0.35	0.45	0.35	1.22	2.32	0.50	0.20	0.00	0.00	0.90		
27	0.05	1.49	0.35	0.50	0.35	1.30	3.34	0.50	0.20	0.00	0.00	0.40		
28	0.05	0.98	0.25	0.50	0.40	4.54	3.43	0.45	0.20	0.00	0.00	0.25		
29	0.05	0.50	0.20	0.40	0.45	3.80	2.04	0.45	0.20	0.00		0.20		
30	0.10	0.40	0.20	0.35	0.45	2.97	2.23	0.40	0.20	0.00		0.10		
31		0.35		0.25	0.82		4.54		0.20	0.00		0.15		
Total	3.90	34.70	24.80	13.28	10.17	239.60	161.47	249.86	8.00	0.30	1.20	3.30	750.58	CMSDAY
Mean	0.13	1.12	0.83	0.43	0.33	7.99	5.21	8.33	0.26	0.01	0.04	0.11	2.06	CMS
Max	0.35	6.68	2.50	2.41	0.82	66.40	16.76	74.56	0.40	0.10	0.10	0.90	74.56	CMS
Min	0.05	0.30	0.20	0.00	0.15	0.90	1.06	0.40	0.20	0.00	0.00	0.00	0.00	CMS
Runoff	0.34	3.00	2.14	1.15	0.88	20.70	13.95	21.59	0.69	0.03	0.10	0.29	64.85	MCM

Momentary Peak 95.44 CMS. at 253.81 m. (MSL.) at 22.00 Hours , on Nov 2, 2008

Runoff Yield 9.39 Liters/Second/Square KM. Momentary Peak Yield 435.80 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	248 sq.km.
Type of Gage	Staff gage.
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1993 to date
Rating Operation	
Period of Rating	1993 to date
Rated by Float	-
Rated by Current Meter	1993 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The local weir situated about 300 meters downstream from the gage site. Stage-discharge relation defined by 29 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

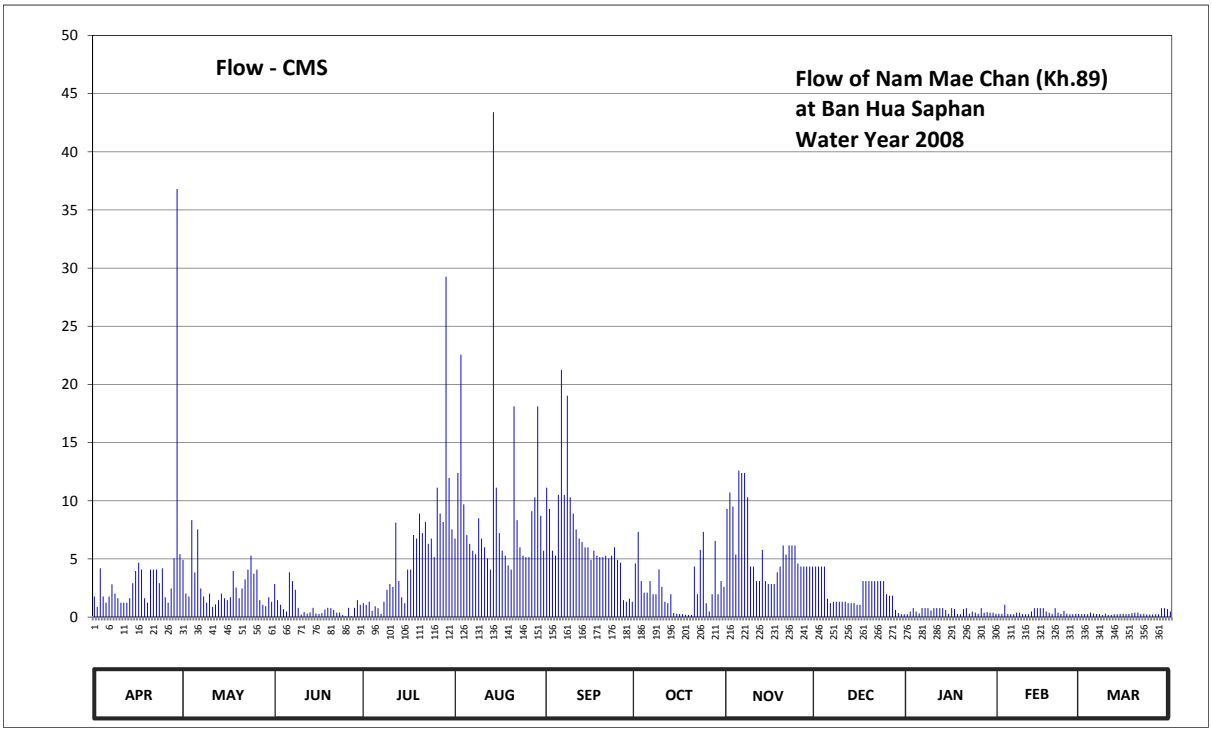
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	406.66	406.96	407.03	406.93	407.09	407.33	407.10	407.24	407.09	406.64	406.69	406.64	
2	406.54	406.69	406.95	406.92	407.39	407.24	407.17	407.31	407.09	406.79	406.69	406.64	
3	406.90	406.66	406.92	406.94	407.75	407.02	407.04	407.25	407.09	406.89	406.92	406.64	
4	406.66	407.19	406.86	406.81	407.26	406.99	407.00	407.12	407.09	406.79	406.68	406.74	
5	406.59	406.87	406.79	406.91	407.11	407.30	407.00	407.40	406.96	406.71	406.64	406.70	
6	406.66	407.14	407.07	406.89	407.06	407.71	407.04	407.39	406.93	406.89	406.64	406.66	
7	406.78	406.74	407.04	406.68	407.02	407.30	406.99	407.39	406.94	406.89	406.74	406.66	
8	406.69	406.66	407.01	406.94	407.00	407.64	406.99	407.29	406.94	406.89	406.74	406.59	
9	406.64	406.59	406.90	407.01	407.20	407.29	407.08	407.09	406.94	406.82	406.66	406.70	
10	406.59	406.69	406.62	407.03	407.09	407.22	407.02	407.09	406.94	406.89	406.64	406.59	
11	406.59	406.54	406.77	407.02	407.04	407.14	406.94	407.04	406.94	406.89	406.64	406.59	
12	406.59	406.57	406.70	407.19	406.97	407.09	406.93	407.04	406.93	406.89	406.79	406.64	
13	406.64	406.62	406.75	407.04	406.89	407.07	406.99	407.13	406.93	406.89	406.89	406.64	
14	406.79	406.69	406.90	406.97	408.22	407.04	406.73	407.04	406.93	406.84	406.89	406.68	
15	406.88	406.64	406.71	406.93	407.33	407.04	406.69	407.03	406.92	406.69	406.89	406.68	
16	406.94	406.62	406.67	406.89	407.12	406.96	406.66	407.03	406.92	406.89	406.89	406.64	
17	406.89	406.65	406.72	406.89	407.02	407.02	406.64	407.03	407.04	406.86	406.79	406.68	
18	406.64	406.88	406.85	407.11	406.99	406.99	406.60	407.07	407.04	406.66	406.74	406.72	
19	406.59	406.75	406.90	407.09	406.92	406.98	406.59	407.09	407.04	406.64	406.69	406.74	
20	406.89	406.64	406.89	407.22	406.89	406.98	406.59	407.14	407.04	406.86	406.89	406.74	
21	406.89	406.74	406.84	407.12	407.61	406.99	407.09	407.12	407.04	406.89	406.74	406.66	
22	406.89	406.82	406.74	407.18	407.19	406.97	406.99	407.14	407.04	406.69	406.68	406.69	
23	406.79	406.89	406.75	407.06	407.04	406.99	407.13	407.14	407.04	406.79	406.81	406.62	
24	406.90	406.99	406.58	407.09	406.99	407.04	407.17	407.14	407.04	406.74	406.69	406.62	
25	406.65	406.86	406.47	406.98	406.98	406.96	406.93	407.10	406.99	406.69	406.64	406.62	
26	406.59	406.89	406.90	407.33	406.98	406.94	406.79	407.09	406.98	406.89	406.64	406.64	
27	406.74	406.62	406.47	407.22	407.23	406.95	406.99	407.09	406.98	406.74	406.69	406.64	
28	406.97	406.92	406.90	407.18	407.29	406.94	407.15	407.09	406.84	406.76	406.68	406.89	
29	408.10	406.91	406.95	407.93	407.61	406.96	406.99	407.09	406.72	406.74		406.89	
30	407.00	406.97	406.92	407.37	407.21	406.94	407.04	407.09	406.64	406.74		406.86	
31		406.94		407.14	407.02		407.02		406.64	406.69		406.79	
Mean	406.79	406.79	406.82	407.06	407.18	407.10	406.94	407.14	406.96	406.80	406.74	406.68	
Max	408.10	407.19	407.07	407.93	408.22	407.71	407.17	407.40	407.09	406.89	406.92	406.89	408.22
Min	406.54	406.54	406.47	406.68	406.89	406.94	406.59	407.03	406.64	406.64	406.64	406.59	406.47

Annual Max Momentary Gage Height 408.54 m. (MSL.) , at 09.00 Hours , on Aug 14, 2008

Zero Gage at Bottom Elevation 406.39 m. (MSL.) , River Bed 406.32 m. (MSL.)

Left Bank Elevation 411.66 m. (MSL.) ,

Right Bank Elevation 411.67 m. (MSL.) , Drainage Are 248 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.78	4.92	2.85	1.19	6.75	11.13	4.60	9.30	4.35	0.24	0.29	0.24		
2	0.88	2.02	1.45	1.06	12.39	9.30	7.33	10.71	4.35	0.48	0.29	0.24		
3	4.20	1.78	1.06	1.32	22.55	5.70	3.10	9.50	4.35	0.77	1.06	0.24		
4	1.78	8.34	0.68	0.53	9.70	5.28	2.10	5.38	4.35	0.48	0.28	0.38		
5	1.23	3.84	0.48	0.93	7.06	10.50	2.10	12.60	1.58	0.32	0.24	0.30		
6	1.78	7.54	3.85	0.77	6.30	21.23	3.10	12.39	1.19	0.77	0.24	0.26		
7	2.82	2.46	3.10	0.28	5.70	10.50	1.97	12.39	1.32	0.77	0.38	0.26		
8	2.02	1.78	2.35	1.32	5.40	19.04	1.97	10.30	1.32	0.77	0.38	0.19		
9	1.62	1.23	0.80	2.35	8.50	10.30	4.10	4.35	1.32	0.56	0.26	0.30		
10	1.23	2.02	0.22	2.85	6.75	8.90	2.60	4.35	1.32	0.77	0.24	0.19		
11	1.23	0.88	0.44	2.60	6.00	7.54	1.32	3.10	1.32	0.77	0.24	0.19		
12	1.23	1.09	0.30	8.11	5.04	6.75	1.19	3.10	1.19	0.77	0.48	0.24		
13	1.62	1.46	0.40	3.10	4.08	6.45	1.97	5.77	1.19	0.77	0.77	0.24		
14	2.91	2.02	0.80	1.71	43.40	6.00	0.36	3.10	1.19	0.62	0.77	0.28		
15	3.96	1.62	0.32	1.19	11.13	6.00	0.29	2.85	1.06	0.29	0.77	0.28		
16	4.68	1.46	0.27	4.08	7.22	4.92	0.26	2.85	1.06	0.77	0.77	0.24		
17	4.08	1.70	0.34	4.08	5.70	5.70	0.24	2.85	3.10	0.68	0.48	0.28		
18	1.62	3.96	0.65	7.06	5.28	5.28	0.20	3.85	3.10	0.26	0.38	0.34		
19	1.23	2.55	0.80	6.75	4.44	5.16	0.19	4.35	3.10	0.24	0.29	0.38		
20	4.08	1.62	0.77	8.90	4.08	5.16	0.19	6.16	3.10	0.68	0.77	0.38		
21	4.08	2.46	0.62	7.22	18.11	5.28	4.35	5.38	3.10	0.77	0.38	0.26		
22	4.08	3.24	0.38	8.18	8.34	5.04	1.97	6.16	3.10	0.29	0.28	0.29		
23	2.91	4.08	0.40	6.30	6.00	5.28	5.77	6.16	3.10	0.48	0.53	0.22		
24	4.20	5.28	0.18	6.75	5.28	6.00	7.33	6.16	3.10	0.38	0.29	0.22		
25	1.70	3.72	0.07	5.16	5.16	4.92	1.19	4.60	1.97	0.29	0.24	0.22		
26	1.23	4.08	0.80	11.13	5.16	4.68	0.48	4.35	1.84	0.77	0.24	0.24		
27	2.46	1.46	0.07	8.90	9.10	1.45	1.97	4.35	1.84	0.38	0.29	0.24		
28	5.04	1.06	0.80	8.18	10.30	1.32	6.55	4.35	0.62	0.42	0.28	0.77		
29	36.80	0.93	1.45	29.26	18.11	1.58	1.97	4.35	0.34	0.38		0.77		
30	5.40	1.71	1.06	11.97	8.70	1.32	3.10	4.35	0.24	0.38		0.68		
31		1.32		7.54	5.70		2.60		0.24	0.29		0.48		
Total	113.88	83.63	27.76	170.77	287.43	207.71	76.46	179.46	64.35	16.61	11.91	9.84	1249.81	CMSDAY
Mean	3.80	2.70	0.93	5.51	9.27	6.92	2.47	5.98	2.08	0.54	0.43	0.32	3.42	CMS
Max	36.80	8.34	3.85	29.26	43.40	21.23	7.33	12.60	4.35	0.77	1.06	0.77	43.40	CMS
Min	0.88	0.88	0.07	0.28	4.08	1.32	0.19	2.85	0.24	0.24	0.24	0.19	0.07	CMS
Runoff	9.84	7.23	2.40	14.75	24.83	17.95	6.61	15.51	5.56	1.44	1.03	0.85	107.98	MCM

Momentary Peak 65.96 CMS. at 408.54 m. (MSL.) at 09.00 Hours , on Aug 14, 2009

Runoff Yield 13.81 Liters/Second/Square KM. Momentary Peak Yield 265.97 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 3 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Float	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

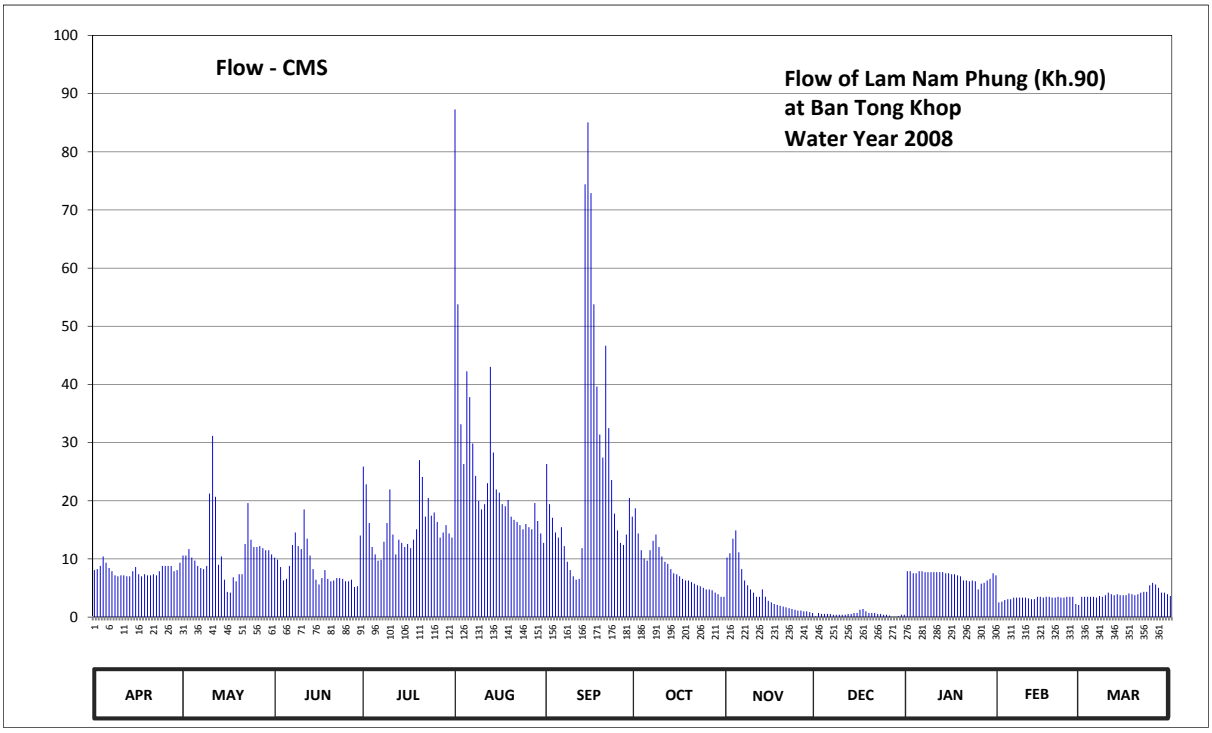
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.06	159.20	159.18	160.04	162.29	160.06	159.65	159.18	158.51	159.05	158.68	158.75	
2	159.07	159.20	159.16	159.88	161.17	159.69	159.41	159.22	158.55	159.05	158.69	158.75	
3	159.10	159.26	159.09	159.51	160.37	159.56	159.25	159.36	158.54	159.03	158.71	158.75	
4	159.19	159.18	158.95	159.28	160.06	159.42	159.17	159.44	158.54	159.03	158.72	158.75	
5	159.13	159.15	158.97	159.21	160.74	159.37	159.15	159.23	158.54	159.05	158.72	158.75	
6	159.08	159.10	159.10	159.15	160.57	159.47	159.25	159.07	158.54	159.05	158.74	158.74	
7	159.05	159.08	159.30	159.16	160.22	159.29	159.34	158.95	158.53	159.04	158.74	158.76	
8	159.01	159.07	159.42	159.33	159.96	159.14	159.40	158.89	158.53	159.04	158.74	158.75	
9	159.00	159.10	159.29	159.51	159.72	159.06	159.28	158.84	158.53	159.04	158.74	158.77	
10	159.01	159.79	159.26	159.83	159.64	159.00	159.19	158.80	158.53	159.04	158.74	158.80	
11	159.01	160.28	159.64	159.40	159.69	158.96	159.14	158.75	158.53	159.04	158.73	158.78	
12	159.00	159.76	159.36	159.21	159.89	158.97	159.12	158.75	158.54	159.04	158.72	158.77	
13	159.00	159.11	159.20	159.35	160.77	159.27	159.07	158.84	158.54	159.04	158.72	158.78	
14	159.05	159.19	159.07	159.32	160.15	161.88	159.03	158.75	158.55	159.03	158.75	158.77	
15	159.09	158.96	158.96	159.28	159.83	162.22	159.02	158.70	158.55	159.03	158.75	158.77	
16	159.02	158.81	158.90	159.31	159.80	161.83	159.00	158.68	158.59	159.02	158.74	158.77	
17	159.00	158.80	158.98	159.27	159.69	161.17	158.97	158.66	158.60	159.02	158.75	158.79	
18	159.02	158.99	159.06	159.35	159.67	160.64	158.95	158.65	158.57	159.01	158.75	158.78	
19	159.01	158.94	158.97	159.45	159.73	160.29	158.95	158.64	158.55	159.00	158.74	158.77	
20	159.01	159.02	158.94	160.09	159.57	160.11	158.93	158.63	158.55	158.95	158.74	158.78	
21	159.02	159.02	158.95	159.95	159.54	160.91	158.91	158.62	158.55	158.95	158.75	158.80	
22	159.01	159.31	158.98	159.57	159.52	160.34	158.89	158.61	158.54	158.94	158.74	158.81	
23	159.05	159.70	158.98	159.75	159.49	159.92	158.88	158.60	158.54	158.95	158.74	158.81	
24	159.10	159.35	158.97	159.58	159.45	159.60	158.86	158.59	158.53	158.94	158.75	158.89	
25	159.10	159.28	158.94	159.61	159.50	159.44	158.84	158.58	158.53	158.84	158.75	158.92	
26	159.10	159.28	158.94	159.52	159.47	159.32	158.84	158.58	158.52	158.91	158.75	158.90	
27	159.10	159.29	158.96	159.37	159.45	159.30	158.83	158.57	158.50	158.92	158.66	158.86	
28	159.05	159.27	158.87	159.42	159.70	159.40	158.80	158.57	158.50	158.95	158.65	158.80	
29	159.06	159.25	158.88	159.49	159.53	159.75	158.78	158.56	158.51	158.97		158.80	
30	159.13	159.25	159.39	159.41	159.41	159.57	158.75	158.55	158.53	159.03		158.78	
31		159.21		159.37	159.32		158.75		158.53	159.01		158.76	
Mean	159.05	159.23	159.09	159.48	159.93	159.90	159.05	158.80	158.54	159.00	158.73	158.79	
Max	159.19	160.28	159.64	160.09	162.29	162.22	159.65	159.44	158.60	159.05	158.75	158.92	162.29
Min	159.00	158.80	158.87	159.15	159.32	158.96	158.75	158.55	158.50	158.84	158.65	158.74	158.50

Annual Max Momentary Gage Height 162.87 m. (MSL.) , at 20.00 Hours , on Sep 14, 2008

Zero Gage at Bottom Elevation 158.50 m. (MSL.) , River Bed 157.96 m. (MSL.)

Left Bank Elevation 167.38 m. (MSL.) ,

Right Bank Elevation 167.35 m. (MSL.) , Drainage Are 861 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.08	10.60	10.24	25.88	87.28	26.32	18.70	10.24	0.14	7.90	2.52	3.50		
2	8.26	10.60	9.88	22.84	53.76	19.42	14.38	10.96	0.70	7.90	2.66	3.50		
3	8.80	11.68	8.62	16.18	33.14	17.08	11.50	13.48	0.56	7.54	2.94	3.50		
4	10.42	10.24	6.30	12.04	26.32	14.56	10.06	14.92	0.56	7.54	3.08	3.50		
5	9.34	9.70	6.58	10.78	42.24	13.66	9.70	11.14	0.56	7.90	3.08	3.50		
6	8.44	8.80	8.80	9.70	37.82	15.46	11.50	8.26	0.56	7.90	3.36	3.36		
7	7.90	8.44	12.40	9.88	29.84	12.22	13.12	6.30	0.42	7.72	3.36	3.64		
8	7.18	8.26	14.56	12.94	24.28	9.52	14.20	5.46	0.42	7.72	3.36	3.50		
9	7.00	8.80	12.22	16.18	19.96	8.08	12.04	4.76	0.42	7.72	3.36	3.78		
10	7.18	21.22	11.68	21.94	18.52	7.00	10.42	4.20	0.42	7.72	3.36	4.20		
11	7.18	31.16	18.52	14.20	19.42	6.44	9.52	3.50	0.42	7.72	3.22	3.92		
12	7.00	20.68	13.48	10.78	23.02	6.58	9.16	3.50	0.56	7.72	3.08	3.78		
13	7.00	8.98	10.60	13.30	43.02	11.86	8.26	4.76	0.56	7.72	3.08	3.92		
14	7.90	10.42	8.26	12.76	28.30	74.40	7.54	3.50	0.70	7.54	3.50	3.78		
15	8.62	6.44	6.44	12.04	21.94	85.04	7.36	2.80	0.70	7.54	3.50	3.78		
16	7.36	4.34	5.60	12.58	21.40	72.90	7.00	2.52	1.26	7.36	3.36	3.78		
17	7.00	4.20	6.72	11.86	19.42	53.76	6.58	2.24	1.40	7.36	3.50	4.06		
18	7.36	6.86	8.08	13.30	19.06	39.64	6.30	2.10	0.98	7.18	3.50	3.92		
19	7.18	6.16	6.58	15.10	20.14	31.38	6.30	1.96	0.70	7.00	3.36	3.78		
20	7.18	7.36	6.16	26.98	17.26	27.42	6.02	1.82	0.70	6.30	3.36	3.92		
21	7.36	7.36	6.30	24.10	16.72	46.66	5.74	1.68	0.70	6.30	3.50	4.20		
22	7.18	12.58	6.72	17.26	16.36	32.48	5.46	1.54	0.56	6.16	3.36	4.34		
23	7.90	19.60	6.72	20.50	15.82	23.56	5.32	1.40	0.56	6.30	3.36	4.34		
24	8.80	13.30	6.58	17.44	15.10	17.80	5.04	1.26	0.42	6.16	3.50	5.46		
25	8.80	12.04	6.16	17.98	16.00	14.92	4.76	1.12	0.42	4.76	3.50	5.88		
26	8.80	12.04	6.16	16.36	15.46	12.76	4.76	1.12	0.28	5.74	3.50	5.60		
27	8.80	12.22	6.44	13.66	15.10	12.40	4.62	0.98	0.00	5.88	2.24	5.04		
28	7.90	11.86	5.18	14.56	19.60	14.20	4.20	0.98	0.00	6.30	2.10	4.20		
29	8.08	11.50	5.32	15.82	16.54	20.50	3.92	0.84	0.14	6.58		4.20		
30	9.34	11.50	14.02	14.38	14.38	17.26	3.50	0.70	0.42	7.54		3.92		
31		10.78		13.66	12.76		3.50		0.42	7.18		3.64		
Total	239.34	349.72	261.32	486.98	779.98	765.28	250.48	130.04	16.66	219.90	89.60	125.44	3714.74	CMSDAY
Mean	7.98	11.28	8.71	15.71	25.16	25.51	8.08	4.33	0.54	7.09	3.20	4.05	10.18	CMS
Max	10.42	31.16	18.52	26.98	87.28	85.04	18.70	14.92	1.40	7.90	3.50	5.88	87.28	CMS
Min	7.00	4.20	5.18	9.70	12.76	6.44	3.50	0.70	0.00	4.76	2.10	3.36	0.00	CMS
Runoff	20.68	30.22	22.58	42.08	67.39	66.12	21.64	11.24	1.44	19.00	7.74	10.84	320.95	MCM

Momentary Peak 107.32 CMS. at 162.87 m. (MSL.) at 20.00 Hours , on Sep 14, 2008

Runoff Yield 11.82 Liters/Second/Square KM. Momentary Peak Yield 124.65 Liters/Second/Square KM.

WATER YEAR : 2008

KHONG RIVER BASIN

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

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

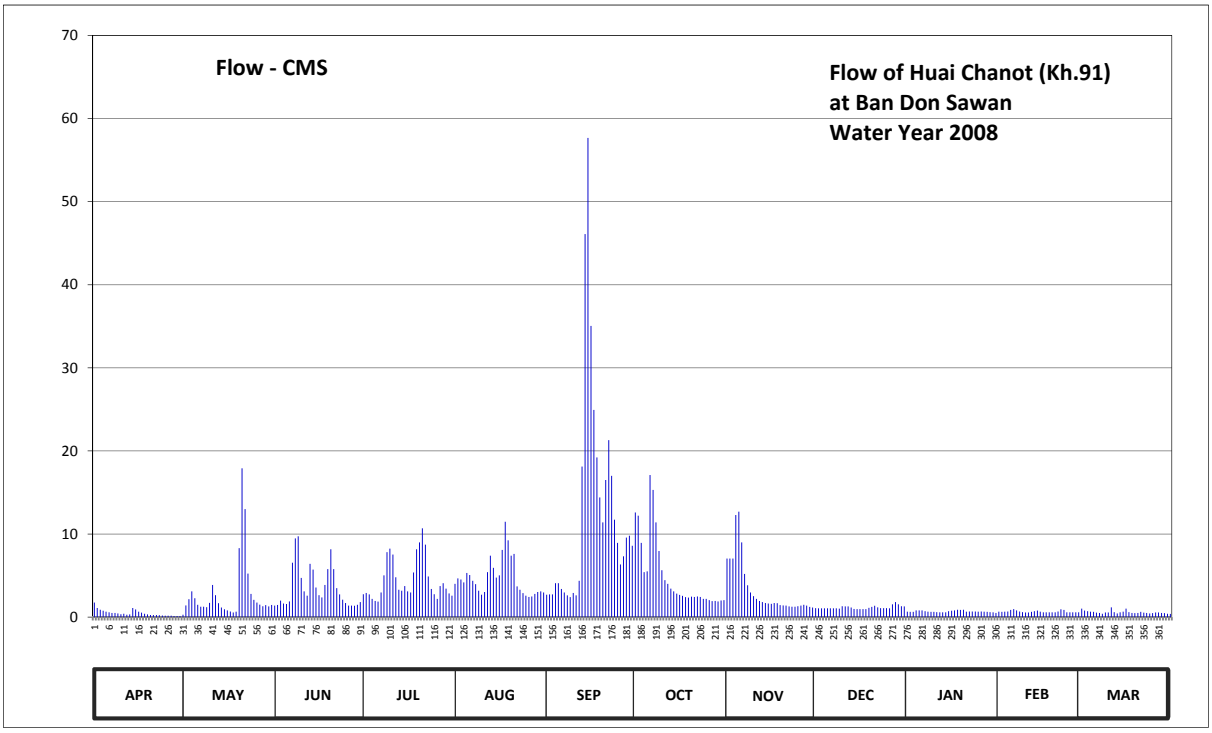
Location : on left bank at the bridge on highway.

	Ban Don Sawan	**Amphoe** That Phanom	**Changwat** Nakhon Phanom
Drainge 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 mean of 3 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Float	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +153.590 m.(MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	150.48	149.91	150.34	150.82	151.16	150.80	152.45	151.72	150.22	150.06	150.06	150.20	
2	150.23	150.35	150.37	150.87	151.31	150.81	152.40	151.72	150.21	150.05	150.05	150.11	
3	150.15	150.62	150.56	150.81	151.28	150.81	151.99	151.72	150.21	150.05	150.06	150.08	
4	150.10	150.93	150.44	150.63	151.20	151.18	151.48	152.41	150.21	150.12	150.07	150.06	
5	150.06	150.66	150.41	150.55	151.46	151.18	151.50	152.46	150.21	150.12	150.14	150.05	
6	150.03	150.38	150.53	150.52	151.40	151.02	152.91	152.00	150.21	150.12	150.18	150.01	
7	150.00	150.29	151.65	150.89	151.24	150.89	152.73	151.43	150.21	150.08	150.12	150.00	
8	150.00	150.29	152.06	151.39	151.15	150.77	152.30	151.12	150.21	150.06	150.07	149.96	
9	149.98	150.27	152.09	151.83	150.96	150.70	151.85	150.89	150.20	150.05	150.04	150.02	
10	149.94	150.47	151.32	151.89	150.80	150.87	151.52	150.74	150.31	150.05	150.02	150.02	
11	149.96	151.13	150.93	151.79	150.91	150.77	151.26	150.63	150.30	150.04	150.02	150.26	
12	149.91	150.78	150.76	151.34	151.48	151.24	151.16	150.55	150.30	150.03	150.05	150.04	
13	149.93	150.45	151.63	151.00	151.77	153.01	151.03	150.50	150.25	150.03	150.08	149.98	
14	150.23	150.25	151.53	150.96	151.56	154.76	150.93	150.46	150.19	150.03	150.11	150.03	
15	150.16	150.17	151.06	151.10	151.33	155.02	150.84	150.44	150.18	150.08	150.06	150.06	
16	150.06	150.12	150.78	150.93	151.39	154.28	150.79	150.42	150.18	150.10	150.03	150.20	
17	150.01	150.07	150.69	150.89	151.87	153.61	150.75	150.46	150.18	150.12	150.03	150.04	
18	149.96	150.02	151.13	151.47	152.31	153.11	150.70	150.45	150.18	150.15	150.03	150.00	
19	149.93	150.06	151.54	151.88	152.03	152.64	150.68	150.36	150.24	150.14	150.03	149.99	
20	149.90	151.90	151.88	152.00	151.77	152.30	150.72	150.35	150.28	150.15	150.03	150.00	
21	149.90	152.99	151.54	152.21	151.80	152.85	150.71	150.34	150.33	150.06	150.07	150.05	
22	149.90	152.50	151.04	151.96	151.09	153.30	150.73	150.30	150.26	150.07	150.17	150.01	
23	149.89	151.44	150.81	151.36	151.00	152.90	150.71	150.29	150.22	150.07	150.14	150.00	
24	149.88	150.83	150.60	151.02	150.86	152.34	150.63	150.29	150.22	150.07	150.03	149.98	
25	149.87	150.59	150.46	150.82	150.76	151.99	150.63	150.31	150.22	150.06	150.03	149.99	
26	149.87	150.48	150.34	150.63	150.71	151.62	150.58	150.34	150.21	150.07	150.03	150.02	
27	149.87	150.39	150.34	151.10	150.73	151.76	150.54	150.38	150.40	150.06	150.03	150.02	
28	149.85	150.31	150.33	151.18	150.83	152.07	150.55	150.34	150.50	150.05	150.03	150.00	
29	149.85	150.36	150.38	151.03	150.91	152.10	150.53	150.28	150.40	150.04		149.99	
30	149.85	150.30	150.50	150.85	150.93	151.94	150.57	150.25	150.31	150.03		149.96	
31		150.37		150.76	150.89		150.58		150.30	150.00		149.95	
Mean	149.99	150.63	150.93	151.18	151.25	152.09	151.19	150.80	150.25	150.07	150.06	150.03	
Max	150.48	152.99	152.09	152.21	152.31	155.02	152.91	152.46	150.50	150.15	150.18	150.26	155.02
Min	149.85	149.91	150.33	150.52	150.71	150.70	150.53	150.25	150.18	150.00	150.02	149.95	149.85

Annual Max Momentary Gage Height	155.20	m. (MSL.) ,	at 05.00 Hours , on Sep 15, 2008		
Zero Gage at Bottom Elevation	149.00	m. (MSL.) ,	River Bed	149.46	m. (MSL.)
Left Bank Elevation	153.58	m. (MSL.) ,			
Right Bank Elevation	154.40	m. (MSL.) ,	Drainage Are	172	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.75	0.28	1.38	2.76	4.00	2.70	12.60	7.04	1.07	0.66	0.66	1.02		
2	1.10	1.41	1.46	2.91	4.66	2.73	12.20	7.04	1.05	0.63	0.63	0.79		
3	0.89	2.16	1.98	2.73	4.53	2.73	8.93	7.04	1.05	0.63	0.66	0.71		
4	0.76	3.09	1.64	2.19	4.18	4.09	5.41	12.28	1.05	0.81	0.68	0.66		
5	0.66	2.28	1.57	1.95	5.32	4.09	5.50	12.68	1.05	0.81	0.86	0.63		
6	0.58	1.49	1.89	1.86	5.06	3.39	17.10	9.00	1.05	0.81	0.97	0.53		
7	0.50	1.25	6.55	2.97	4.36	2.97	15.30	5.19	1.05	0.71	0.81	0.50		
8	0.50	1.25	9.48	5.02	3.96	2.61	11.40	3.83	1.05	0.66	0.68	0.40		
9	0.45	1.20	9.72	7.81	3.18	2.40	7.95	2.97	1.02	0.63	0.60	0.55		
10	0.35	1.72	4.71	8.23	2.70	2.91	5.64	2.52	1.31	0.63	0.55	0.55		
11	0.40	3.87	3.09	7.53	3.03	2.61	4.44	2.19	1.28	0.60	0.55	1.18		
12	0.28	2.64	2.58	4.80	5.41	4.36	4.00	1.95	1.28	0.58	0.63	0.60		
13	0.33	1.67	6.41	3.30	7.39	18.11	3.43	1.80	1.15	0.58	0.71	0.45		
14	1.10	1.15	5.71	3.18	5.92	46.10	3.09	1.70	0.99	0.58	0.79	0.58		
15	0.92	0.94	3.56	3.74	4.75	57.66	2.82	1.64	0.97	0.71	0.66	0.66		
16	0.66	0.81	2.64	3.09	5.02	35.04	2.67	1.59	0.97	0.76	0.58	1.02		
17	0.53	0.68	2.37	2.97	8.09	24.93	2.55	1.70	0.97	0.81	0.58	0.60		
18	0.40	0.55	3.87	5.37	11.48	19.21	2.40	1.67	0.97	0.89	0.58	0.50		
19	0.33	0.66	5.78	8.16	9.24	14.40	2.34	1.44	1.12	0.86	0.58	0.48		
20	0.25	8.30	8.16	9.00	7.39	11.40	2.46	1.41	1.23	0.89	0.58	0.50		
21	0.25	17.90	5.78	10.68	7.60	16.50	2.43	1.38	1.36	0.66	0.68	0.63		
22	0.25	13.00	3.48	8.72	3.70	21.30	2.49	1.28	1.18	0.68	0.94	0.53		
23	0.23	5.24	2.73	4.88	3.30	17.00	2.43	1.25	1.07	0.68	0.86	0.50		
24	0.20	2.79	2.10	3.39	2.88	11.72	2.19	1.25	1.07	0.68	0.58	0.45		
25	0.18	2.07	1.70	2.76	2.58	8.93	2.19	1.31	1.07	0.66	0.58	0.48		
26	0.18	1.75	1.38	2.19	2.43	6.34	2.04	1.38	1.05	0.68	0.58	0.55		
27	0.18	1.51	1.38	3.74	2.49	7.32	1.92	1.49	1.54	0.66	0.58	0.55		
28	0.13	1.31	1.36	4.09	2.79	9.56	1.95	1.38	1.80	0.63	0.58	0.50		
29	0.13	1.44	1.49	3.43	3.03	9.80	1.89	1.23	1.54	0.60		0.48		
30	0.13	1.28	1.80	2.85	3.09	8.58	2.01	1.15	1.31	0.58		0.40		
31		1.46		2.58	2.97		2.04		1.28	0.50		0.38		
Total	14.60	87.15	107.75	138.88	146.53	381.49	155.81	99.78	35.95	21.25	18.72	18.36	1226.27	CMSDAY
Mean	0.49	2.81	3.59	4.48	4.73	12.72	5.03	3.33	1.16	0.69	0.67	0.59	3.36	CMS
Max	1.75	17.90	9.72	10.68	11.48	57.66	17.10	12.68	1.80	0.89	0.97	1.18	57.66	CMS
Min	0.13	0.28	1.36	1.86	2.43	2.40	1.89	1.15	0.97	0.50	0.55	0.38	0.13	CMS
Runoff	1.26	7.53	9.31	12.00	12.66	32.96	13.46	8.62	3.11	1.84	1.62	1.59	105.95	MCM

Momentary Peak 70.50 CMS. at 155.20 m. (MSL.) at 05.00 Hours , on Sep 15, 2008

Runoff Yield 19.53 Liters/Second/Square KM. Momentary Peak Yield 409.88 Liters/Second/Square KM.

WATER YEAR : 2008

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

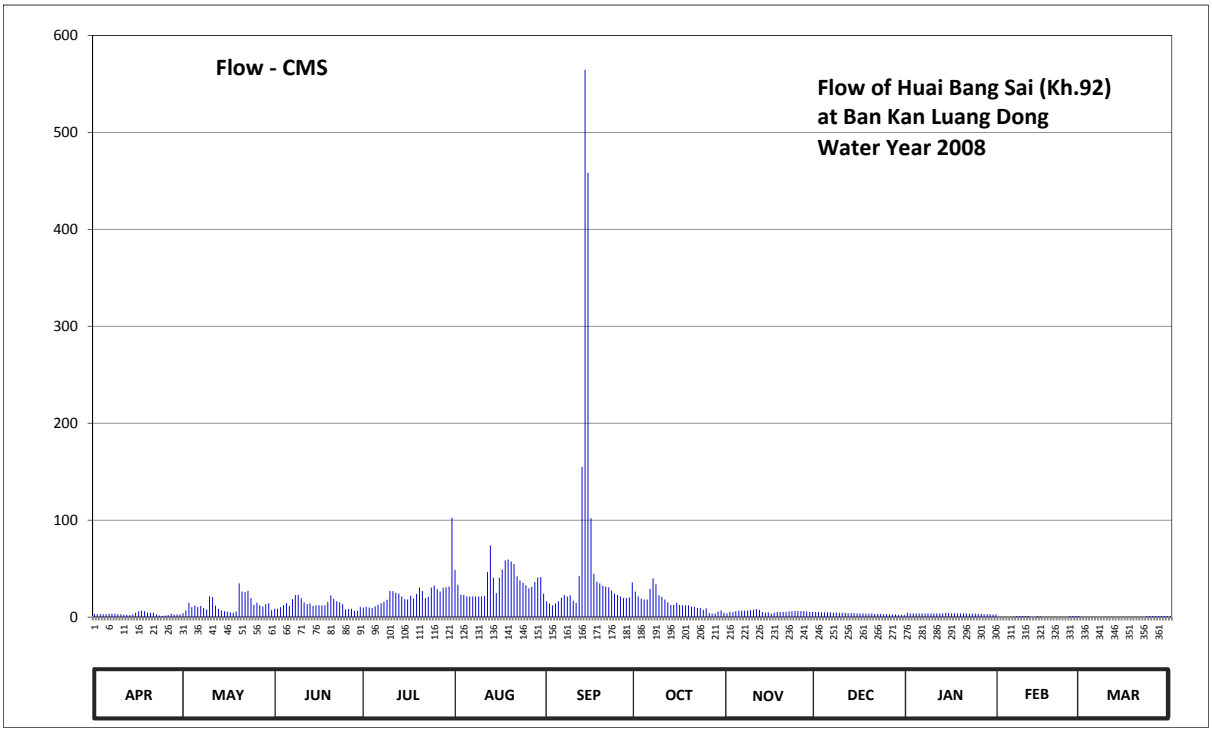
Location : on left bank at the bridge on highway.

	Ban Kan Luang Dong	**Amphoe** Dong Luang	**Changwat** Muk Dahan
Drainge Area	1,119 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+147.840 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank at the footpath of the bridge.		**Elevation** +158.890 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 mean of 3 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Float	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +154.770 m.(MSL.), records are channel flow only.		
General Description	Records fair. The local weir situated downstream from the gage site. Stage-discharge relation defined by 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	149.22	149.25	149.42	149.46	150.65	149.68	150.01	149.24	149.29	149.26	149.09	149.04	
2	149.21	149.35	149.42	149.49	150.22	149.60	149.85	149.29	149.29	149.24	149.09	149.04	
3	149.21	149.62	149.47	149.46	149.91	149.54	149.76	149.29	149.28	149.24	149.09	149.04	
4	149.21	149.47	149.54	149.44	149.89	149.60	149.74	149.32	149.28	149.24	149.09	149.04	
5	149.21	149.53	149.61	149.50	149.84	149.68	149.74	149.34	149.28	149.24	149.09	149.02	
6	149.22	149.47	149.52	149.56	149.84	149.80	150.09	149.34	149.28	149.24	149.11	149.02	
7	149.23	149.52	149.75	149.61	149.84	149.89	150.41	149.34	149.27	149.24	149.14	149.02	
8	149.23	149.44	149.89	149.66	149.84	149.84	150.23	149.34	149.27	149.24	149.14	149.02	
9	149.21	149.39	149.90	149.73	149.84	149.88	149.88	149.36	149.27	149.24	149.14	149.02	
10	149.21	149.85	149.78	150.03	149.84	149.70	149.83	149.38	149.26	149.24	149.14	149.02	
11	149.19	149.82	149.64	150.02	149.86	149.62	149.74	149.40	149.26	149.24	149.14	149.04	
12	149.19	149.53	149.58	149.97	150.59	150.48	149.64	149.37	149.25	149.24	149.09	149.04	
13	149.18	149.41	149.60	149.94	151.27	152.84	149.55	149.29	149.25	149.24	149.10	149.04	
14	149.20	149.35	149.52	149.84	150.43	157.63	149.55	149.26	149.25	149.26	149.14	149.04	
15	149.27	149.32	149.54	149.75	149.96	156.62	149.63	149.28	149.24	149.25	149.13	149.04	
16	149.32	149.30	149.54	149.74	150.43	151.86	149.55	149.24	149.24	149.24	149.09	149.04	
17	149.34	149.28	149.54	149.87	150.66	150.54	149.54	149.27	149.24	149.24	149.09	149.04	
18	149.32	149.26	149.54	149.77	150.91	150.31	149.54	149.29	149.23	149.24	149.09	149.04	
19	149.27	149.31	149.65	149.93	150.93	150.26	149.54	149.29	149.23	149.24	149.09	149.04	
20	149.26	150.26	149.88	150.14	150.88	150.18	149.49	149.30	149.23	149.24	149.09	149.04	
21	149.26	150.01	149.76	150.03	150.81	150.16	149.49	149.30	149.22	149.24	149.09	149.09	
22	149.20	149.99	149.68	149.78	150.48	150.14	149.45	149.31	149.22	149.23	149.09	149.09	
23	149.16	150.03	149.64	149.83	150.35	150.04	149.44	149.32	149.22	149.23	149.09	149.14	
24	149.15	149.79	149.58	150.13	150.28	149.94	149.37	149.33	149.21	149.23	149.09	149.14	
25	149.16	149.55	149.39	150.19	150.20	149.89	149.43	149.33	149.21	149.22	149.14	149.14	
26	149.18	149.63	149.40	150.08	150.11	149.84	149.25	149.32	149.20	149.22	149.14	149.14	
27	149.22	149.54	149.41	150.01	150.15	149.79	149.24	149.32	149.20	149.21	149.14	149.14	
28	149.20	149.50	149.33	150.13	150.30	149.79	149.24	149.31	149.20	149.21	149.14	149.14	
29	149.20	149.58	149.34	150.14	150.44	149.81	149.31	149.29	149.19	149.21		149.14	
30	149.20	149.61	149.48	150.16	150.45	150.29	149.35	149.29	149.19	149.20		149.14	
31		149.36		151.87	149.94		149.27		149.19	149.20		149.14	
Mean	149.22	149.56	149.58	149.91	150.29	150.57	149.62	149.31	149.24	149.23	149.11	149.07	
Max	149.34	150.26	149.90	151.87	151.27	157.63	150.41	149.40	149.29	149.26	149.14	149.14	157.63
Min	149.15	149.25	149.33	149.44	149.84	149.54	149.24	149.24	149.19	149.20	149.09	149.02	149.02

Annual Max Momentary Gage Height	157.94	m. (MSL.) ,	at 16.00 Hours , on Sep 14, 2008		
Zero Gage at Bottom Elevation	147.84	m. (MSL.) ,	River Bed	148.25	m. (MSL.)
Left Bank Elevation	154.77	m. (MSL.) ,			
Right Bank Elevation	157.55	m. (MSL.) ,	Drainage Are	1,119	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.30	4.13	8.80	9.90	48.70	16.40	26.34	3.85	5.23	4.40	0.00	0.00		
2	3.03	6.88	8.80	10.73	33.48	14.00	21.50	5.23	5.23	3.85	0.00	0.00		
3	3.03	14.60	10.18	9.90	23.30	12.20	18.80	5.23	4.95	3.85	0.00	0.00		
4	3.03	10.18	12.20	9.35	22.70	14.00	18.20	6.05	4.95	3.85	0.00	0.00		
5	3.03	11.90	14.30	11.00	21.20	16.40	18.20	6.60	4.95	3.85	0.00	0.00		
6	3.30	10.18	11.60	12.80	21.20	20.00	29.06	6.60	4.95	3.85	0.28	0.00		
7	3.58	11.60	18.50	14.30	21.20	22.70	39.94	6.60	4.68	3.85	1.10	0.00		
8	3.58	9.35	22.70	15.80	21.20	21.20	33.82	6.60	4.68	3.85	1.10	0.00		
9	3.03	7.98	23.00	17.90	21.20	22.40	22.40	7.15	4.68	3.85	1.10	0.00		
10	3.03	21.50	19.40	27.02	21.20	17.00	20.90	7.70	4.40	3.85	1.10	0.00		
11	2.48	20.60	15.20	26.68	21.80	14.60	18.20	8.25	4.40	3.85	1.10	0.00		
12	2.48	11.90	13.40	25.10	46.42	42.32	15.20	7.43	4.13	3.85	0.00	0.00		
13	2.20	8.53	14.00	24.20	73.88	154.72	12.50	5.23	4.13	3.85	0.00	0.00		
14	2.75	6.88	11.60	21.20	40.62	564.56	12.50	4.40	4.13	4.40	1.10	0.00		
15	4.68	6.05	12.20	18.50	24.80	458.48	14.90	4.95	3.85	4.13	0.83	0.00		
16	6.05	5.50	12.20	18.20	40.62	102.00	12.50	3.85	3.85	3.85	0.00	0.00		
17	6.60	4.95	12.20	22.10	49.08	44.52	12.20	4.68	3.85	3.85	0.00	0.00		
18	6.05	4.40	12.20	19.10	58.58	36.54	12.20	5.23	3.58	3.85	0.00	0.00		
19	4.68	5.78	15.50	23.90	59.34	34.84	12.20	5.23	3.58	3.85	0.00	0.00		
20	4.40	34.84	22.40	30.76	57.44	32.12	10.73	5.50	3.58	3.85	0.00	0.00		
21	4.40	26.34	18.80	27.02	54.78	31.44	10.73	5.50	3.30	3.85	0.00	0.00		
22	2.75	25.70	16.40	19.40	42.32	30.76	9.63	5.78	3.30	3.58	0.00	0.00		
23	1.65	27.02	15.20	20.90	37.90	27.36	9.35	6.05	3.30	3.58	0.00	1.10		
24	1.38	19.70	13.40	30.42	35.52	24.20	7.43	6.33	3.03	3.58	0.00	1.10		
25	1.65	12.50	7.98	32.46	32.80	22.70	9.08	6.33	3.03	3.30	1.10	1.10		
26	2.20	14.90	8.25	28.72	29.74	21.20	4.13	6.05	2.75	3.30	1.10	1.10		
27	3.30	12.20	8.53	26.34	31.10	19.70	3.85	6.05	2.75	3.03	1.10	1.10		
28	2.75	11.00	6.33	30.42	36.20	19.70	3.85	5.78	2.75	3.03	1.10	1.10		
29	2.75	13.40	6.60	30.76	40.96	20.30	5.78	5.23	2.48	3.03		1.10		
30	2.75	14.30	10.45	31.44	41.30	35.86	6.88	5.23	2.48	2.75		1.10		
31		7.15		102.50	24.20		4.68		2.48	2.75		1.10		
Total	99.89	401.94	402.32	748.82	1134.78	1914.22	457.68	174.69	119.43	114.16	12.11	9.90	5589.94	CMSDAY
Mean	3.33	12.97	13.41	24.16	36.61	63.81	14.76	5.82	3.85	3.68	0.43	0.32	15.31	CMS
Max	6.60	34.84	23.00	102.50	73.88	564.56	39.94	8.25	5.23	4.40	1.10	1.10	564.56	CMS
Min	1.38	4.13	6.33	9.35	21.20	12.20	3.85	3.85	2.48	2.75	0.00	0.00	0.00	CMS
Runoff	8.63	34.73	34.76	64.70	98.04	165.39	39.54	15.09	10.32	9.86	1.05	0.86	482.97	MCM

Momentary Peak 599.28 CMS. at 157.94 m. (MSL.) at 16.00 Hours , on Sep 14, 2008

Runoff Yield 13.69 Liters/Second/Square KM. Momentary Peak Yield 535.55 Liters/Second/Square KM.

WATER YEAR : 2008

KHONG RIVER BASIN

Nam San at Ban Kaeng Hai , Loei (Kh.95)

Lat 17 - 26 - 20 N Long 101 - 19 - 50 E

Location : on left bank at the bridge of Amphoe Phu Rua - Amphoe Dan Sai Highway.

	Ban Kaeng Hai	**Amphoe** Phu Rua	**Changwat** Loei
Drainge Area	352 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+593.920 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank upstream side at the footpath of the bridge.		**Elevation** +605.713 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Float	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

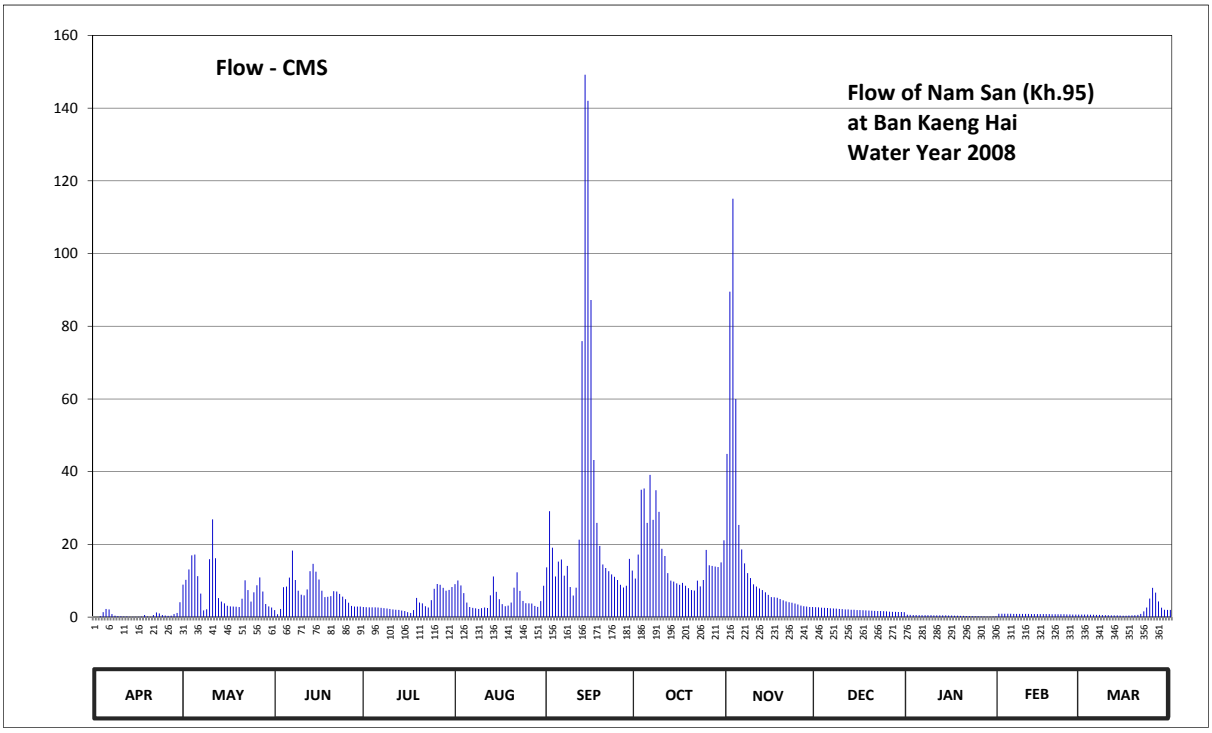
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	594.88	596.99	595.65	595.93	597.01	597.71	597.27	599.87	595.91	595.17	595.27	595.20	
2	594.92	597.21	595.22	595.91	597.18	599.07	598.12	601.25	595.89	595.16	595.27	595.19	
3	595.03	597.64	595.75	595.90	596.95	598.31	599.44	601.85	595.87	595.14	595.27	595.19	
4	595.45	598.10	596.87	595.90	596.60	597.36	599.46	600.40	595.85	595.14	595.27	595.18	
5	595.75	598.12	596.90	595.90	596.17	597.91	598.85	598.81	595.83	595.13	595.27	595.17	
6	595.70	597.38	597.31	595.88	595.92	597.98	599.63	598.26	595.81	595.12	595.26	595.16	
7	595.24	596.58	598.23	595.85	595.85	597.40	598.91	597.85	595.79	595.12	595.26	595.16	
8	595.08	595.61	597.20	595.82	595.80	597.76	599.43	597.51	595.77	595.12	595.26	595.14	
9	595.02	595.72	596.71	595.79	595.75	596.88	599.06	597.29	595.74	595.13	595.26	595.13	
10	595.00	597.99	596.53	595.75	595.82	596.49	598.28	597.00	595.73	595.11	595.26	595.12	
11	594.99	598.92	596.50	595.70	595.88	596.85	598.08	596.90	595.71	595.11	595.26	595.11	
12	594.99	598.02	596.77	595.68	595.84	598.52	597.51	596.81	595.70	595.11	595.25	595.11	
13	594.97	596.37	597.58	595.66	596.50	600.88	597.17	596.74	595.68	595.10	595.25	595.10	
14	594.97	596.21	597.83	595.60	597.36	602.54	597.13	596.64	595.67	595.10	595.25	595.09	
15	594.97	596.13	597.56	595.56	596.66	602.40	597.05	596.52	595.65	595.09	595.25	595.07	
16	594.97	596.02	597.22	595.45	596.32	601.19	596.98	596.42	595.65	595.09	595.24	595.08	
17	594.98	595.98	596.71	595.37	596.09	599.80	597.07	596.41	595.63	595.08	595.24	595.09	
18	595.15	595.96	596.42	595.65	595.99	598.85	596.94	596.39	595.62	595.07	595.24	595.11	
19	594.99	595.95	596.43	596.38	596.03	598.36	596.83	596.33	595.60	595.06	595.23	595.12	
20	594.97	595.93	596.46	596.17	596.17	597.81	596.74	596.27	595.58	595.05	595.23	595.16	
21	595.15	596.34	596.69	596.13	596.85	597.69	596.72	596.22	595.57	595.04	595.22	595.26	
22	595.42	597.19	596.67	596.00	597.54	597.58	597.17	596.18	595.56	595.03	595.22	595.52	
23	595.32	596.74	596.56	595.88	596.70	597.46	596.91	596.16	595.55	595.02	595.22	595.88	
24	595.14	596.21	596.44	596.28	596.24	597.35	597.20	596.12	595.54	595.01	595.21	596.35	
25	595.09	596.64	596.32	596.80	596.14	597.20	598.25	596.08	595.52	595.00	595.21	596.84	
26	595.06	596.96	596.16	597.02	596.13	596.98	597.78	596.03	595.50	594.99	595.20	596.62	
27	595.08	597.32	596.01	596.98	596.12	596.86	597.76	596.00	595.49	594.99	595.20	596.22	
28	595.25	596.67	595.97	596.84	596.01	596.94	597.74	595.97	595.48	594.98	595.20	595.86	
29	595.36	596.10	595.96	596.71	595.94	598.00	597.72	595.93	595.47	594.98		595.68	
30	596.18	595.98	595.97	596.75	596.23	597.60	597.88	595.92	595.47	594.99		595.66	
31		595.88		596.88	596.94		598.51		595.45	595.00		595.66	
Mean	595.17	596.74	596.62	596.07	596.35	598.26	597.86	597.20	595.65	595.07	595.24	595.43	
Max	596.18	598.92	598.23	597.02	597.54	602.54	599.63	601.85	595.91	595.17	595.27	596.84	602.54
Min	594.88	595.61	595.22	595.37	595.75	596.49	596.72	595.92	595.45	594.98	595.20	595.07	594.88

Annual Max Momentary Gage Height 602.77 m. (MSL.) , at 18.00 Hours , on Sep 14, 2008

Zero Gage at Bottom Elevation 593.92 m. (MSL.) , River Bed 594.17 m. (MSL.)

Left Bank Elevation 605.58 m. (MSL.) ,

Right Bank Elevation 605.61 m. (MSL.) , Drainage Are 352 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	8.94	1.95	2.79	9.06	13.68	10.62	44.88	2.73	0.64	0.90	0.72		
2	0.00	10.26	0.77	2.73	10.08	29.12	17.20	89.50	2.67	0.62	0.90	0.69		
3	0.28	13.12	2.25	2.70	8.70	19.10	35.04	115.10	2.61	0.56	0.90	0.69		
4	1.37	17.00	8.22	2.70	6.60	11.16	35.36	60.00	2.55	0.56	0.90	0.67		
5	2.25	17.20	8.40	2.70	4.02	15.28	25.90	25.34	2.49	0.54	0.90	0.64		
6	2.10	11.28	10.86	2.64	2.76	15.84	39.12	18.60	2.43	0.51	0.88	0.62		
7	0.82	6.48	18.30	2.55	2.55	11.40	26.74	14.80	2.37	0.51	0.88	0.62		
8	0.41	1.83	10.20	2.46	2.40	14.08	34.88	12.08	2.31	0.51	0.88	0.56		
9	0.25	2.16	7.26	2.37	2.25	8.28	28.96	10.74	2.22	0.54	0.88	0.54		
10	0.20	15.92	6.18	2.25	2.46	5.94	18.80	9.00	2.19	0.49	0.88	0.51		
11	0.16	26.88	6.00	2.10	2.64	8.10	16.80	8.40	2.13	0.49	0.88	0.49		
12	0.16	16.20	7.62	2.04	2.52	21.28	12.08	7.86	2.10	0.49	0.85	0.49		
13	0.08	5.22	12.64	1.98	6.00	75.92	10.02	7.44	2.04	0.46	0.85	0.46		
14	0.08	4.26	14.64	1.80	11.16	149.20	9.78	6.84	2.01	0.46	0.85	0.43		
15	0.08	3.78	12.48	1.68	6.96	142.00	9.30	6.12	1.95	0.43	0.85	0.38		
16	0.08	3.12	10.32	1.37	4.92	87.22	8.88	5.52	1.95	0.43	0.82	0.41		
17	0.12	2.94	7.26	1.16	3.54	43.20	9.42	5.46	1.89	0.41	0.82	0.43		
18	0.59	2.88	5.52	1.95	2.97	25.90	8.64	5.34	1.86	0.38	0.82	0.49		
19	0.16	2.85	5.58	5.28	3.18	19.60	7.98	4.98	1.80	0.36	0.80	0.51		
20	0.08	2.79	5.76	4.02	4.02	14.48	7.44	4.62	1.74	0.33	0.80	0.62		
21	0.59	5.04	7.14	3.78	8.10	13.52	7.32	4.32	1.71	0.30	0.77	0.88		
22	1.29	10.14	7.02	3.00	12.32	12.64	10.02	4.08	1.68	0.28	0.77	1.56		
23	1.03	7.44	6.36	2.64	7.20	11.76	8.46	3.96	1.65	0.25	0.77	2.64		
24	0.56	4.26	5.64	4.68	4.44	11.10	10.20	3.72	1.62	0.23	0.75	5.10		
25	0.43	6.84	4.92	7.80	3.84	10.20	18.50	3.48	1.56	0.20	0.75	8.04		
26	0.36	8.76	3.96	9.12	3.78	8.88	14.24	3.18	1.50	0.16	0.72	6.72		
27	0.41	10.92	3.06	8.88	3.72	8.16	14.08	3.00	1.47	0.16	0.72	4.32		
28	0.85	7.02	2.91	8.04	3.06	8.64	13.92	2.91	1.45	0.12	0.72	2.58		
29	1.14	3.60	2.88	7.26	2.82	16.00	13.76	2.79	1.42	0.12		2.04		
30	4.08	2.94	2.91	7.50	4.38	12.80	15.04	2.76	1.42	0.16		1.98		
31		2.64		8.28	8.64		21.14		1.37	0.20		1.98		
Total	20.01	244.71	209.01	120.25	161.09	844.48	519.64	496.82	60.89	11.90	23.21	48.81	2760.82	CMSDAY
Mean	0.67	7.89	6.97	3.88	5.20	28.15	16.76	16.56	1.96	0.38	0.83	1.57	7.56	CMS
Max	4.08	26.88	18.30	9.12	12.32	149.20	39.12	115.10	2.73	0.64	0.90	8.04	149.20	CMS
Min	0.00	1.83	0.77	1.16	2.25	5.94	7.32	2.76	1.37	0.12	0.72	0.38	0.00	CMS
Runoff	1.73	21.14	18.06	10.39	13.92	72.96	44.90	42.93	5.26	1.03	2.01	4.22	238.53	MCM

Momentary Peak 162.20 CMS. at 602.77 m. (MSL.) at 18.00 Hours , on Sep 14, 2008

Runoff Yield 21.49 Liters/Second/Square KM. Momentary Peak Yield 460.80 Liters/Second/Square KM.

WATER YEAR : 2008

KHONG RIVER BASIN

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

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

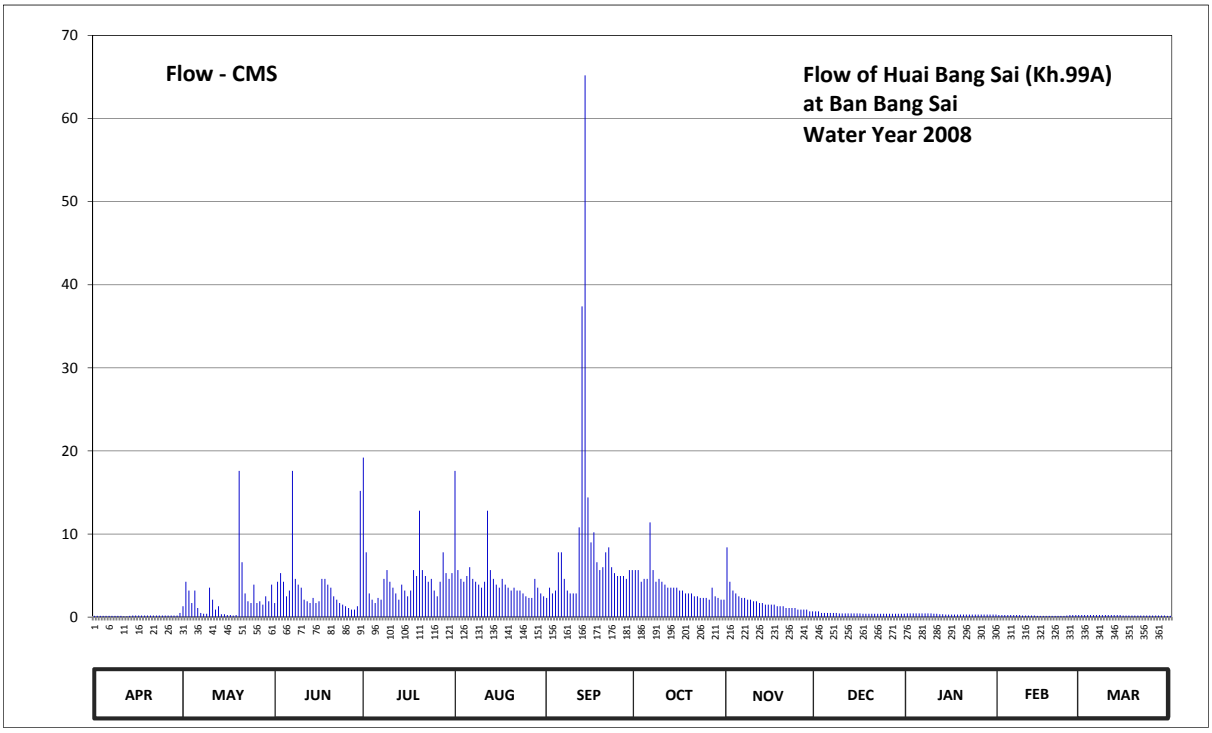
Location : on right bank at Ban Bang Sai

	Ban Bang Sai	**Amphoe** Dong Luang	**Changwat** Mukdahan
Drainge Area	115 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+248.500 m. (MSL.)		
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 mean of 3 readings.		
Period of Available Gage Records	2005 to date		
Rating Operation			
Period of Rating	2005 to date		
Rated by Float	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	250.83	250.94	250.96	251.29	251.27	250.99	251.09	251.14	250.91	250.89	250.85	250.85	
2	250.83	251.05	251.05	251.13	251.09	251.03	251.09	251.05	250.91	250.89	250.85	250.85	
3	250.83	251.02	251.08	251.01	251.06	251.01	251.05	251.02	250.90	250.89	250.85	250.85	
4	250.83	250.96	251.05	250.98	251.05	251.02	251.06	251.01	250.90	250.89	250.85	250.85	
5	250.83	251.02	251.00	250.96	251.07	251.13	251.06	251.00	250.90	250.89	250.85	250.85	
6	250.83	250.93	251.02	250.99	251.10	251.13	251.19	250.99	250.90	250.89	250.85	250.85	
7	250.83	250.90	251.27	250.98	251.06	251.06	251.09	250.99	250.90	250.89	250.85	250.85	
8	250.83	250.88	251.06	251.06	251.05	251.02	251.05	250.98	250.90	250.89	250.85	250.85	
9	250.83	250.88	251.04	251.09	251.04	251.01	251.06	250.98	250.89	250.89	250.84	250.85	
10	250.83	251.03	251.03	251.05	251.03	251.01	251.05	250.97	250.89	250.88	250.84	250.85	
11	250.82	250.98	250.98	251.03	251.05	251.01	251.04	250.97	250.89	250.88	250.84	250.85	
12	250.82	250.92	250.97	251.01	251.21	251.18	251.03	250.96	250.89	250.87	250.84	250.85	
13	250.83	250.94	250.96	250.98	251.09	251.47	251.03	250.96	250.89	250.87	250.84	250.85	
14	250.84	250.87	250.99	251.04	251.06	251.68	251.03	250.95	250.89	250.86	250.83	250.85	
15	250.84	250.87	250.96	251.02	251.04	251.23	251.03	250.95	250.89	250.86	250.83	250.84	
16	250.84	250.85	250.97	251.00	251.03	251.15	251.02	250.95	250.89	250.86	250.83	250.84	
17	250.84	250.85	251.06	251.02	251.06	251.17	251.02	250.95	250.88	250.86	250.83	250.84	
18	250.84	250.84	251.06	251.09	251.04	251.11	251.01	250.94	250.88	250.86	250.83	250.84	
19	250.84	250.85	251.04	251.07	251.03	251.09	251.01	250.94	250.88	250.86	250.83	250.84	
20	250.84	251.27	251.03	251.21	251.02	251.10	251.01	250.94	250.88	250.86	250.83	250.84	
21	250.84	251.11	251.00	251.09	251.03	251.13	251.00	250.93	250.88	250.86	250.83	250.84	
22	250.84	251.01	250.98	251.07	251.02	251.14	251.00	250.93	250.88	250.86	250.83	250.84	
23	250.84	250.97	250.96	251.05	251.02	251.10	250.99	250.93	250.88	250.86	250.83	250.84	
24	250.84	250.96	250.95	251.06	251.01	251.08	250.99	250.93	250.88	250.86	250.84	250.84	
25	250.84	251.04	250.94	251.02	251.00	251.07	250.99	250.92	250.88	250.86	250.85	250.84	
26	250.84	250.96	250.93	251.00	250.99	251.07	250.98	250.92	250.88	250.86	250.85	250.84	
27	250.84	250.97	250.92	251.05	250.99	251.07	251.03	250.92	250.88	250.86	250.85	250.84	
28	250.84	250.95	250.92	251.13	251.06	251.06	251.00	250.92	250.88	250.86	250.85	250.84	
29	250.84	251.00	250.94	251.08	251.03	251.09	250.99	250.91	250.88	250.86		250.84	
30	250.90	250.97	251.24	251.06	251.01	251.09	250.98	250.91	250.88	250.86		250.83	
31		251.04		251.08	251.00		250.98		250.88	250.86		250.83	
Mean	250.84	250.96	251.01	251.05	251.05	251.12	251.03	250.96	250.89	250.87	250.84	250.84	
Max	250.90	251.27	251.27	251.29	251.27	251.68	251.19	251.14	250.91	250.89	250.85	250.85	251.68
Min	250.82	250.84	250.92	250.96	250.99	250.99	250.98	250.91	250.88	250.86	250.83	250.83	250.82

Annual Max Momentary Gage Height	251.88	m. (MSL.) ,	at 06.00 Hours , on Sep 14 , 2008		
Zero Gage at Bottom Elevation	248.50	m. (MSL.) ,	River Bed	250.84	m. (MSL.)
Left Bank Elevation	257.35	m. (MSL.) ,			
Right Bank Elevation	257.65	m. (MSL.) ,	Drainage Are	115	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.15	1.30	1.70	19.20	17.60	2.30	5.65	8.40	0.70	0.45	0.25	0.25		
2	0.15	4.25	4.25	7.80	5.65	3.55	5.65	4.25	0.70	0.45	0.25	0.25		
3	0.15	3.20	5.30	2.85	4.60	2.85	4.25	3.20	0.50	0.45	0.25	0.25		
4	0.15	1.70	4.25	2.10	4.25	3.20	4.60	2.85	0.50	0.45	0.25	0.25		
5	0.15	3.20	2.50	1.70	4.95	7.80	4.60	2.50	0.50	0.45	0.25	0.25		
6	0.15	1.10	3.20	2.30	6.00	7.80	11.40	2.30	0.50	0.45	0.25	0.25		
7	0.15	0.50	17.60	2.10	4.60	4.60	5.65	2.30	0.50	0.45	0.25	0.25		
8	0.15	0.40	4.60	4.60	4.25	3.20	4.25	2.10	0.50	0.45	0.25	0.25		
9	0.15	0.40	3.90	5.65	3.90	2.85	4.60	2.10	0.45	0.45	0.20	0.25		
10	0.15	3.55	3.55	4.25	3.55	2.85	4.25	1.90	0.45	0.40	0.20	0.25		
11	0.10	2.10	2.10	3.55	4.25	2.85	3.90	1.90	0.45	0.40	0.20	0.25		
12	0.10	0.90	1.90	2.85	12.80	10.80	3.55	1.70	0.45	0.35	0.20	0.25		
13	0.15	1.30	1.70	2.10	5.65	37.40	3.55	1.70	0.45	0.35	0.20	0.25		
14	0.20	0.35	2.30	3.90	4.60	65.20	3.55	1.50	0.45	0.30	0.15	0.25		
15	0.20	0.35	1.70	3.20	3.90	14.40	3.55	1.50	0.45	0.30	0.15	0.20		
16	0.20	0.25	1.90	2.50	3.55	9.00	3.20	1.50	0.45	0.30	0.15	0.20		
17	0.20	0.25	4.60	3.20	4.60	10.20	3.20	1.50	0.40	0.30	0.15	0.20		
18	0.20	0.20	4.60	5.65	3.90	6.60	2.85	1.30	0.40	0.30	0.15	0.20		
19	0.20	0.25	3.90	4.95	3.55	5.65	2.85	1.30	0.40	0.30	0.15	0.20		
20	0.20	17.60	3.55	12.80	3.20	6.00	2.85	1.30	0.40	0.30	0.15	0.20		
21	0.20	6.60	2.50	5.65	3.55	7.80	2.50	1.10	0.40	0.30	0.15	0.20		
22	0.20	2.85	2.10	4.95	3.20	8.40	2.50	1.10	0.40	0.30	0.15	0.20		
23	0.20	1.90	1.70	4.25	3.20	6.00	2.30	1.10	0.40	0.30	0.15	0.20		
24	0.20	1.70	1.50	4.60	2.85	5.30	2.30	1.10	0.40	0.30	0.20	0.20		
25	0.20	3.90	1.30	3.20	2.50	4.95	2.30	0.90	0.40	0.30	0.25	0.20		
26	0.20	1.70	1.10	2.50	2.30	4.95	2.10	0.90	0.40	0.30	0.25	0.20		
27	0.20	1.90	0.90	4.25	2.30	4.95	3.55	0.90	0.40	0.30	0.25	0.20		
28	0.20	1.50	0.90	7.80	4.60	4.60	2.50	0.90	0.40	0.30	0.25	0.20		
29	0.20	2.50	1.30	5.30	3.55	5.65	2.30	0.70	0.40	0.30		0.20		
30	0.50	1.90	15.20	4.60	2.85	5.65	2.10	0.70	0.40	0.30		0.15		
31		3.90		5.30	2.50		2.10		0.40	0.30		0.15		
Total	5.55	73.50	107.60	149.65	142.75	267.35	114.50	56.50	14.00	10.95	5.70	6.80	954.85	CMSDAY
Mean	0.19	2.37	3.59	4.83	4.60	8.91	3.69	1.88	0.45	0.35	0.20	0.22	2.62	CMS
Max	0.50	17.60	17.60	19.20	17.60	65.20	11.40	8.40	0.70	0.45	0.25	0.25	65.20	CMS
Min	0.10	0.20	0.90	1.70	2.30	2.30	2.10	0.70	0.40	0.30	0.15	0.15	0.10	CMS
Runoff	0.48	6.35	9.30	12.93	12.33	23.10	9.89	4.88	1.21	0.95	0.49	0.59	82.50	MCM

Momentary Peak 96.80 CMS. at 251.88 m. (MSL.) at 06.00 Hours , on Sep 14 , 2008

Runoff Yield 22.75 Liters/Second/Square KM. Momentary Peak Yield 841.74 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 3 readings.		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Float	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +142.860 m.(MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

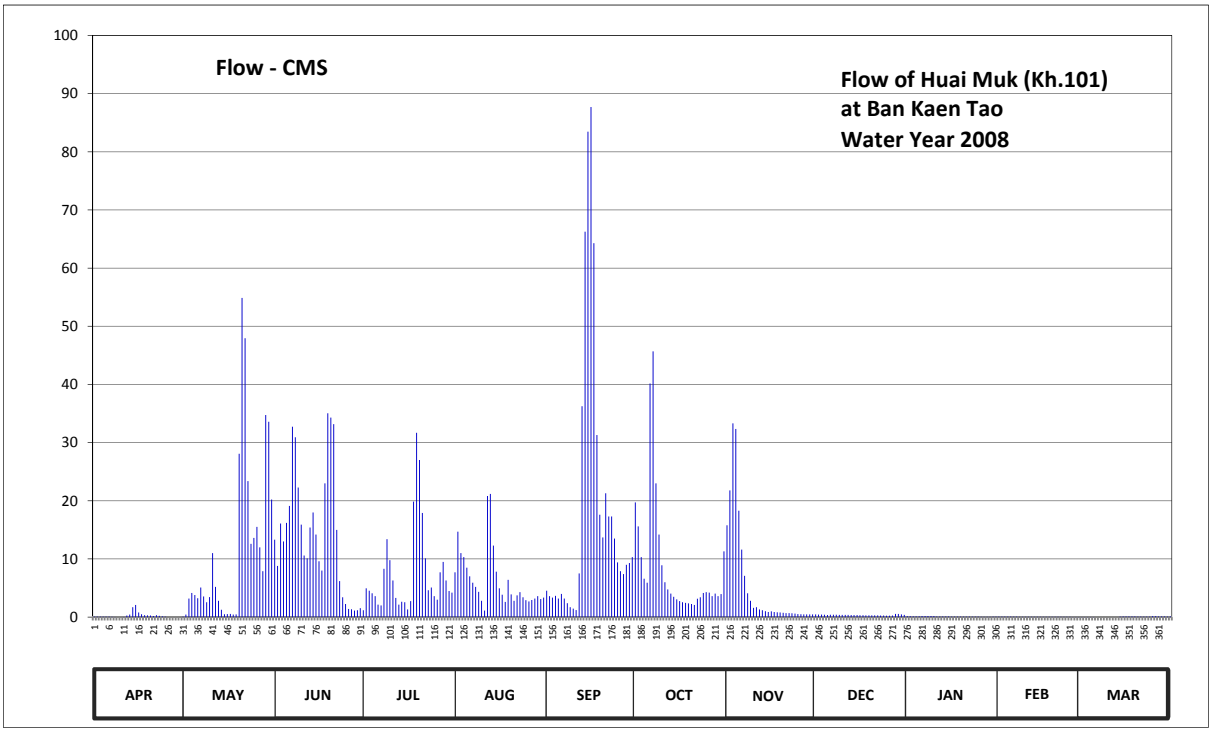
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.49	137.48	139.53	137.93	138.97	138.62	140.16	139.78	137.68	137.53	137.49	137.43	
2	137.49	137.67	139.08	138.68	139.67	138.44	139.76	140.33	137.67	137.53	137.48	137.43	
3	137.48	138.36	139.81	138.62	139.30	138.39	139.23	141.25	137.67	137.52	137.48	137.42	
4	137.48	138.55	139.50	138.54	139.23	138.45	138.86	141.18	137.65	137.52	137.48	137.42	
5	137.47	138.48	139.82	138.44	139.05	138.36	138.79	140.03	137.63	137.52	137.47	137.42	
6	137.47	138.37	140.11	138.15	138.90	138.52	141.71	139.36	137.65	137.55	137.47	137.41	
7	137.45	138.70	141.21	138.12	138.79	138.36	142.08	138.91	137.65	137.54	137.47	137.41	
8	137.43	138.43	141.07	139.03	138.71	138.20	140.43	138.54	137.65	137.54	137.46	137.41	
9	137.41	138.23	140.37	139.54	138.59	138.06	139.62	138.28	137.64	137.54	137.46	137.41	
10	137.41	138.41	139.79	139.18	138.28	138.01	139.09	138.04	137.64	137.54	137.46	137.40	
11	137.42	139.30	139.26	138.83	137.91	137.94	138.80	138.06	137.64	137.51	137.46	137.40	
12	137.58	138.71	139.21	138.38	140.25	138.95	138.65	137.97	137.64	137.51	137.45	137.40	
13	137.67	138.28	139.74	138.15	140.28	141.45	138.53	137.93	137.63	137.50	137.45	137.41	
14	138.06	137.95	140.00	138.25	139.43	143.17	138.42	137.87	137.63	137.50	137.45	137.49	
15	138.14	137.69	139.62	138.23	138.98	143.77	138.33	137.83	137.63	137.50	137.44	137.51	
16	137.80	137.71	139.16	137.97	138.68	143.88	138.27	137.86	137.62	137.49	137.44	137.51	
17	137.70	137.72	139.00	138.27	138.49	143.09	138.23	137.83	137.61	137.49	137.44	137.50	
18	137.62	137.67	140.43	140.17	138.24	141.10	138.21	137.81	137.60	137.49	137.45	137.50	
19	137.60	137.68	141.37	141.13	138.84	139.96	138.19	137.80	137.60	137.48	137.45	137.50	
20	137.58	140.85	141.32	140.76	138.50	139.57	138.17	137.78	137.60	137.48	137.45	137.49	
21	137.55	142.63	141.24	139.99	138.28	140.29	138.14	137.76	137.60	137.48	137.46	137.49	
22	137.62	142.23	139.70	139.21	138.47	139.93	138.35	137.76	137.60	137.48	137.45	137.49	
23	137.56	140.46	138.82	138.63	138.58	139.93	138.40	137.75	137.59	137.48	137.45	137.49	
24	137.52	139.46	138.40	138.70	138.40	139.55	138.55	137.73	137.58	137.47	137.44	137.48	
25	137.48	139.56	138.17	138.44	138.30	139.14	138.58	137.71	137.57	137.47	137.44	137.53	
26	137.41	139.75	138.00	138.32	138.26	138.99	138.56	137.69	137.57	137.46	137.43	137.53	
27	137.40	139.40	137.98	138.97	138.31	138.94	138.44	137.68	137.58	137.46	137.43	137.51	
28	137.39	138.99	137.91	139.15	138.36	139.10	138.53	137.68	137.72	137.46	137.43	137.51	
29	137.40	141.35	137.93	138.83	138.44	139.13	138.44	137.68	137.72	137.46		137.50	
30	137.40	141.27	138.03	138.61	138.34	139.23	138.51	137.68	137.68	137.48		137.49	
31		140.20		138.56	138.39		139.33		137.64	137.48		137.50	
Mean	137.55	139.08	139.52	138.83	138.75	139.68	138.95	138.39	137.63	137.50	137.45	137.46	
Max	138.14	142.63	141.37	141.13	140.28	143.88	142.08	141.25	137.72	137.55	137.49	137.53	143.88
Min	137.39	137.48	137.91	137.93	137.91	137.94	138.14	137.68	137.57	137.46	137.43	137.40	137.39

Annual Max Momentary Gage Height 143.96 m. (MSL.) , at 01.00 Hours , on Sep 16, 2008

Zero Gage at Bottom Elevation 136.90 m. (MSL.) , River Bed 136.77 m. (MSL.)

Left Bank Elevation 144.01 m. (MSL.) ,

Right Bank Elevation 142.86 m. (MSL.) , Drainage Are 414 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.09	0.08	13.30	1.19	7.70	4.54	19.73	15.80	0.46	0.16	0.09	0.03		
2	0.09	0.44	8.80	4.96	14.70	3.60	15.60	21.79	0.44	0.16	0.08	0.03		
3	0.08	3.20	16.10	4.54	11.00	3.35	10.30	33.30	0.44	0.14	0.08	0.02		
4	0.08	4.15	13.00	4.10	10.30	3.65	6.60	32.34	0.40	0.14	0.08	0.02		
5	0.07	3.80	16.20	3.60	8.50	3.20	5.91	18.30	0.36	0.14	0.07	0.02		
6	0.07	3.25	19.12	2.15	7.00	4.00	40.15	11.60	0.40	0.20	0.07	0.01		
7	0.05	5.10	32.74	2.00	5.91	3.20	45.70	7.10	0.40	0.18	0.07	0.01		
8	0.03	3.55	30.91	8.30	5.19	2.40	23.00	4.10	0.40	0.18	0.06	0.01		
9	0.01	2.55	22.27	13.40	4.35	1.70	14.20	2.80	0.38	0.18	0.06	0.01		
10	0.01	3.45	15.90	9.80	2.80	1.45	8.90	1.60	0.38	0.18	0.06	0.00		
11	0.02	11.00	10.60	6.30	1.13	1.22	6.00	1.70	0.38	0.12	0.06	0.00		
12	0.26	5.19	10.10	3.30	20.82	7.50	4.75	1.31	0.38	0.12	0.05	0.00		
13	0.44	2.80	15.40	2.15	21.18	36.25	4.05	1.19	0.36	0.10	0.05	0.01		
14	1.70	1.25	18.00	2.65	12.30	66.25	3.50	1.01	0.36	0.10	0.05	0.09		
15	2.10	0.48	14.20	2.55	7.80	83.45	3.05	0.89	0.36	0.10	0.04	0.12		
16	0.80	0.53	9.60	1.31	4.96	87.70	2.75	0.98	0.34	0.09	0.04	0.12		
17	0.50	0.56	8.00	2.75	3.85	64.27	2.55	0.89	0.32	0.09	0.04	0.10		
18	0.34	0.44	23.00	19.85	2.60	31.30	2.45	0.83	0.30	0.09	0.05	0.10		
19	0.30	0.46	35.05	31.69	6.40	17.60	2.35	0.80	0.30	0.08	0.05	0.10		
20	0.26	28.09	34.30	27.00	3.90	13.70	2.25	0.74	0.30	0.08	0.05	0.09		
21	0.20	54.87	33.16	17.90	2.80	21.30	2.10	0.68	0.30	0.08	0.06	0.09		
22	0.34	47.95	15.00	10.10	3.75	17.30	3.15	0.68	0.30	0.08	0.05	0.09		
23	0.22	23.37	6.20	4.61	4.30	17.30	3.40	0.65	0.28	0.08	0.05	0.09		
24	0.14	12.60	3.40	5.10	3.40	13.50	4.15	0.59	0.26	0.07	0.04	0.08		
25	0.08	13.60	2.25	3.60	2.90	9.40	4.30	0.53	0.24	0.07	0.04	0.16		
26	0.01	15.50	1.40	3.00	2.70	7.90	4.20	0.48	0.24	0.06	0.03	0.16		
27	0.00	12.00	1.34	7.70	2.95	7.40	3.60	0.46	0.26	0.06	0.03	0.12		
28	0.00	7.90	1.13	9.50	3.20	9.00	4.05	0.46	0.56	0.06	0.03	0.12		
29	0.00	34.75	1.19	6.30	3.60	9.30	3.60	0.46	0.56	0.06		0.10		
30	0.00	33.58	1.55	4.47	3.10	10.30	3.95	0.46	0.46	0.08		0.09		
31		20.21		4.20	3.35		11.30		0.38	0.08		0.10		
Total	8.29	356.70	433.21	230.07	198.44	563.03	271.59	164.52	11.30	3.41	1.53	2.09	2244.18	CMSDAY
Mean	0.28	11.51	14.44	7.42	6.40	18.77	8.76	5.48	0.36	0.11	0.05	0.07	6.15	CMS
Max	2.10	54.87	35.05	31.69	21.18	87.70	45.70	33.30	0.56	0.20	0.09	0.16	87.70	CMS
Min	0.00	0.08	1.13	1.19	1.13	1.22	2.10	0.46	0.24	0.06	0.03	0.00	0.00	CMS
Runoff	0.72	30.82	37.43	19.88	17.15	48.65	23.47	14.21	0.98	0.29	0.13	0.18	193.90	MCM

Momentary Peak 91.50 CMS. at 143.96 m. (MSL.) at 01.00 Hours , on Sep 16, 2008

Runoff Yield 14.85 Liters/Second/Square KM. Momentary Peak Yield 221.01 Liters/Second/Square KM.

WATER YEAR : 2008

KHONG RIVER BASIN

Huai Luang at Ban Non Toom , Udon Thani (Kh.103)

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

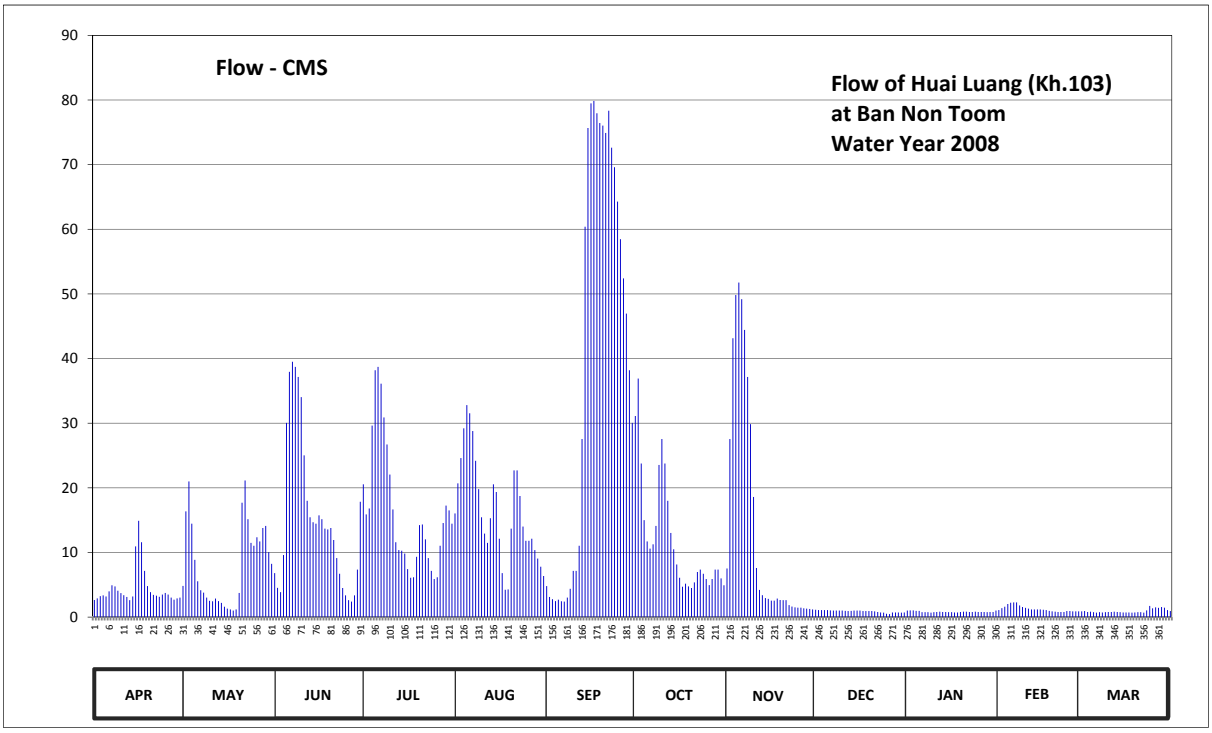
Location : on right bank at the bridge on highway.

	Ban Non Toom	**Amphoe** Mueang	**Changwat** Udon Thani
Drainge 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 mean of 3 readings.		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +170.860 m.(MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	167.44	167.96	168.20	169.37	169.07	167.95	169.91	168.28	167.08	167.05	167.07	167.02	
2	167.50	169.09	167.89	169.06	169.38	167.55	170.15	169.74	167.07	167.06	167.14	167.03	
3	167.58	169.40	167.73	169.12	169.60	167.47	169.56	170.39	167.07	167.06	167.19	167.00	
4	167.61	168.95	168.51	169.84	169.82	167.40	169.00	170.62	167.07	167.04	167.29	167.01	
5	167.57	168.43	169.86	170.20	169.99	167.45	168.70	170.68	167.07	167.04	167.34	166.99	
6	167.76	168.06	170.19	170.22	169.93	167.39	168.60	170.60	167.06	166.99	167.35	166.97	
7	167.98	167.80	170.25	170.12	169.80	167.38	168.66	170.44	167.05	166.99	167.35	166.99	
8	167.94	167.71	170.22	169.90	169.58	167.53	168.92	170.16	167.05	166.99	167.24	166.98	
9	167.78	167.53	170.16	169.70	169.32	167.85	169.55	169.85	167.05	166.97	167.18	166.99	
10	167.69	167.41	170.04	169.47	169.03	168.24	169.74	169.24	167.05	166.99	167.15	167.00	
11	167.62	167.39	169.62	169.11	168.81	168.24	169.56	168.29	167.04	167.00	167.12	167.00	
12	167.55	167.49	169.20	168.69	168.68	168.64	169.20	167.81	167.03	167.01	167.09	167.01	
13	167.43	167.40	169.03	168.58	169.02	169.74	168.82	167.62	167.04	167.00	167.09	167.00	
14	167.57	167.33	168.97	168.57	169.37	170.95	168.59	167.51	167.05	167.00	167.09	166.99	
15	168.63	167.19	168.95	168.53	169.29	171.36	168.35	167.48	167.05	166.99	167.09	166.98	
16	168.99	167.12	169.05	168.27	168.74	171.46	168.12	167.42	167.05	166.99	167.08	166.98	
17	168.69	167.09	169.01	168.12	168.20	171.47	167.93	167.42	167.03	166.98	167.07	166.98	
18	168.24	167.05	168.88	168.13	167.82	171.42	168.02	167.49	167.03	166.98	167.04	166.97	
19	167.95	167.09	168.87	168.48	167.83	171.38	167.94	167.44	167.03	167.00	167.02	166.98	
20	167.73	167.70	168.89	168.93	168.88	171.37	167.88	167.43	167.03	167.01	167.01	166.99	
21	167.63	169.18	168.72	168.94	169.51	171.34	168.04	167.43	167.02	167.01	167.00	166.99	
22	167.60	169.41	168.46	168.73	169.51	171.43	168.22	167.25	167.00	167.00	167.00	166.97	
23	167.56	169.01	168.19	168.46	169.25	171.28	168.26	167.20	166.98	167.00	167.00	167.06	
24	167.64	168.68	167.88	168.24	168.91	171.20	168.19	167.17	166.97	167.01	167.03	167.22	
25	167.70	168.64	167.61	168.10	168.71	171.06	168.10	167.16	166.93	167.00	167.03	167.13	
26	167.64	168.76	167.43	168.13	168.71	170.89	167.99	167.16	166.92	167.00	167.02	167.17	
27	167.53	168.70	167.38	168.64	168.74	170.70	168.10	167.13	166.98	167.00	167.02	167.15	
28	167.45	168.89	167.61	168.96	168.58	170.53	168.26	167.12	166.98	166.99	167.02	167.18	
29	167.50	168.92	168.26	169.15	168.45	170.20	168.26	167.11	166.98	167.00		167.16	
30	167.53	168.55	169.19	169.10	168.31	169.86	168.11	167.09	166.97	167.00		167.07	
31		168.36		168.95	168.15		167.98		166.98	167.05		167.03	
Mean	167.77	168.14	168.81	168.96	169.00	169.69	168.60	168.26	167.02	167.01	167.11	167.03	
Max	168.99	169.41	170.25	170.22	169.99	171.47	170.15	170.68	167.08	167.06	167.35	167.22	171.47
Min	167.43	167.05	167.38	168.10	167.82	167.38	167.88	167.09	166.92	166.97	167.00	166.97	166.92

Annual Max Momentary Gage Height	171.48	m. (MSL.) ,	at 13.00 Hours , on Sep 22 , 2008		
Zero Gage at Bottom Elevation	166.50	m. (MSL.) ,	River Bed	166.74	m. (MSL.)
Left Bank Elevation	172.76	m. (MSL.) ,			
Right Bank Elevation	170.85	m. (MSL.) ,	Drainage Are	1,235	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.65	4.83	6.80	20.55	16.05	4.79	31.11	7.52	1.14	1.01	1.09	0.88		
2	2.90	16.35	4.54	15.90	20.70	3.11	36.90	27.54	1.09	1.05	1.39	0.93		
3	3.24	21.00	3.87	16.80	24.60	2.77	23.76	43.14	1.09	1.05	1.60	0.80		
4	3.36	14.45	9.61	29.64	29.22	2.48	15.00	49.84	1.09	0.97	2.02	0.84		
5	3.19	8.87	30.06	38.20	32.79	2.69	11.70	51.76	1.09	0.97	2.23	0.76		
6	3.99	5.54	37.94	38.72	31.53	2.44	10.60	49.20	1.05	0.76	2.27	0.68		
7	4.92	4.16	39.50	36.12	28.80	2.40	11.26	44.44	1.01	0.76	2.27	0.76		
8	4.75	3.78	38.72	30.90	24.18	3.03	14.12	37.16	1.01	0.76	1.81	0.72		
9	4.08	3.03	37.16	26.70	19.80	4.37	23.55	29.85	1.01	0.68	1.56	0.76		
10	3.70	2.52	34.04	22.05	15.45	7.16	27.54	18.60	1.01	0.76	1.43	0.80		
11	3.40	2.44	25.02	16.65	12.91	7.16	23.76	7.61	0.97	0.80	1.30	0.80		
12	3.11	2.86	18.00	11.59	11.48	11.04	18.00	4.20	0.93	0.84	1.18	0.84		
13	2.61	2.48	15.45	10.38	15.30	27.54	13.02	3.40	0.97	0.80	1.18	0.80		
14	3.19	2.19	14.67	10.27	20.55	60.40	10.49	2.94	1.01	0.80	1.18	0.76		
15	10.93	1.60	14.45	9.83	19.35	75.68	8.15	2.82	1.01	0.76	1.18	0.72		
16	14.89	1.30	15.75	7.43	12.14	79.48	6.08	2.56	1.01	0.76	1.14	0.72		
17	11.59	1.18	15.15	6.08	6.80	79.86	4.71	2.56	0.93	0.72	1.09	0.72		
18	7.16	1.01	13.68	6.17	4.24	77.96	5.18	2.86	0.93	0.72	0.97	0.68		
19	4.79	1.18	13.57	9.32	4.29	76.44	4.75	2.65	0.93	0.80	0.88	0.72		
20	3.87	3.74	13.79	14.23	13.68	76.06	4.50	2.61	0.93	0.84	0.84	0.76		
21	3.45	17.70	11.92	14.34	22.71	74.92	5.36	2.61	0.88	0.84	0.80	0.76		
22	3.32	21.15	9.14	12.03	22.71	78.34	6.98	1.85	0.80	0.80	0.80	0.68		
23	3.15	15.15	6.71	9.14	18.75	72.64	7.34	1.64	0.72	0.80	0.80	1.05		
24	3.49	11.48	4.50	7.16	14.01	69.60	6.71	1.51	0.68	0.84	0.93	1.72		
25	3.74	11.04	3.36	5.90	11.81	64.28	5.90	1.47	0.52	0.80	0.93	1.35		
26	3.49	12.36	2.61	6.17	11.81	58.48	4.96	1.47	0.48	0.80	0.88	1.51		
27	3.03	11.70	2.40	11.04	12.14	52.40	5.90	1.35	0.72	0.80	0.88	1.43		
28	2.69	13.79	3.36	14.56	10.38	46.96	7.34	1.30	0.72	0.76	0.88	1.56		
29	2.90	14.12	7.34	17.25	9.05	38.20	7.34	1.26	0.72	0.80		1.47		
30	3.03	10.05	17.85	16.50	7.79	30.06	5.99	1.18	0.68	0.80		1.09		
31		8.24		14.45	6.35		4.92		0.72	1.01		0.93		
Total	134.61	251.29	470.96	506.07	511.37	1192.74	372.92	408.90	27.85	25.66	35.51	29.00	3966.88	CMSDAY
Mean	4.49	8.11	15.70	16.32	16.50	39.76	12.03	13.63	0.90	0.83	1.27	0.94	10.87	CMS
Max	14.89	21.15	39.50	38.72	32.79	79.86	36.90	51.76	1.14	1.05	2.27	1.72	79.86	CMS
Min	2.61	1.01	2.40	5.90	4.24	2.40	4.50	1.18	0.48	0.68	0.80	0.68	0.48	CMS
Runoff	11.63	21.71	40.69	43.72	44.18	103.05	32.22	35.33	2.41	2.22	3.07	2.51	342.74	MCM

Momentary Peak 80.24 CMS. at 171.48 m. (MSL.) at 13.00 Hours , on Sep 22 , 2008

Runoff Yield 8.80 Liters/Second/Square KM. Momentary Peak Yield 64.97 Liters/Second/Square KM.

WATER YEAR : 2008

KHONG RIVER BASIN

Huai Puan at Ban Pa Noi , Loei (Kh.105)

Lat 17 - 21 - 43 N Long 101 - 49 - 46 E

Location : on right bank at the bridge on highway.

	Ban Pa Noi	**Amphoe** Wang Saphung	**Changwat** Loei
Drainge Area	948 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+247.500 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the footpath of the bridge.		**Elevation** +258.341 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 Float	-		
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 14 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

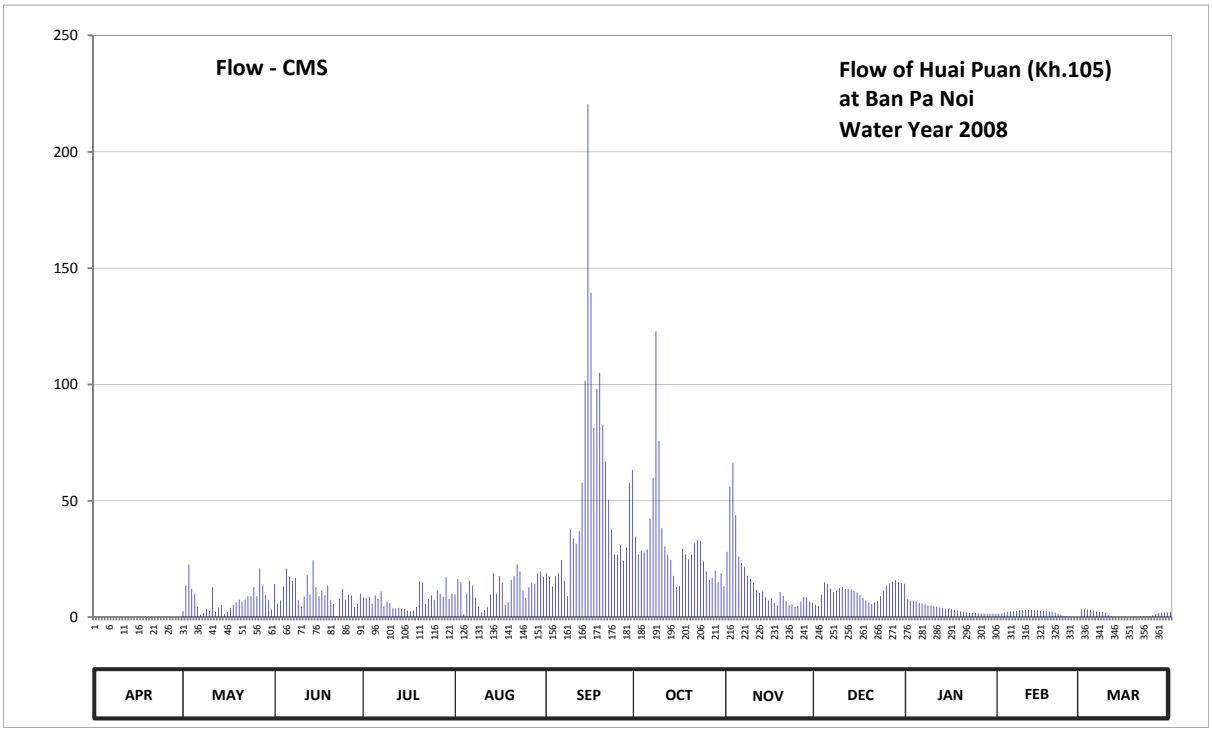
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	249.72	251.13	251.55	251.38	251.42	251.67	251.83	251.58	250.50	250.64	250.21	250.38	
2	249.94	251.53	251.29	251.37	251.61	251.63	251.54	252.56	250.46	250.61	250.23	250.36	
3	250.18	251.76	251.34	251.39	251.57	251.52	251.59	252.86	250.75	250.60	250.26	250.35	
4	250.34	251.49	251.52	251.29	251.06	251.64	251.57	252.16	251.02	250.58	250.28	250.34	
5	250.42	251.43	251.72	251.41	251.43	251.67	251.62	251.50	250.99	250.55	250.29	250.32	
6	250.47	251.23	251.63	251.36	251.59	251.80	252.11	251.38	250.89	250.53	250.30	250.30	
7	250.48	251.05	251.59	251.46	251.53	251.59	252.67	251.31	250.81	250.51	250.31	250.28	
8	250.50	251.09	251.62	251.23	251.38	251.40	254.25	251.14	250.84	250.48	250.33	250.27	
9	250.50	251.18	251.34	251.32	251.23	251.95	253.13	251.08	250.90	250.47	250.33	250.25	
10	250.50	251.13	251.23	251.30	251.10	251.80	251.97	251.01	250.92	250.45	250.34	250.16	
11	250.50	251.51	251.39	251.19	251.15	251.71	251.67	250.86	250.88	250.44	250.34	250.07	
12	250.50	251.11	251.65	251.19	251.21	251.92	251.53	250.79	250.88	250.42	250.34	250.01	
13	250.50	251.21	251.42	251.20	251.42	252.61	251.44	250.82	250.87	250.40	250.33	249.98	
14	250.49	251.26	251.80	251.17	251.67	253.78	251.14	250.68	250.84	250.38	250.33	249.99	
15	250.48	251.06	251.51	251.17	251.43	256.03	250.92	250.61	250.80	250.37	250.31	250.01	
16	250.48	251.11	251.40	251.14	251.64	254.60	250.94	250.66	250.73	250.36	250.31	250.03	
17	250.48	251.20	251.47	251.13	251.57	253.28	251.63	250.54	250.67	250.34	250.30	250.03	
18	250.47	251.26	251.41	251.14	251.26	253.70	251.54	250.48	250.61	250.32	250.29	250.03	
19	250.46	251.31	251.53	251.22	251.31	253.86	251.45	250.81	250.56	250.30	250.28	250.04	
20	250.45	251.35	251.34	251.58	251.60	253.31	251.53	250.72	250.52	250.28	250.25	250.03	
21	250.45	251.32	251.28	251.57	251.64	252.88	251.72	250.59	250.56	250.26	250.21	250.07	
22	250.47	251.35	251.02	251.29	251.76	252.38	251.77	250.49	250.59	250.25	250.14	250.07	
23	250.46	251.40	251.36	251.36	251.69	251.95	251.76	250.51	250.71	250.24	250.10	250.07	
24	250.46	251.40	251.49	251.41	251.47	251.54	251.41	250.43	250.85	250.24	250.07	250.08	
25	250.45	251.51	251.35	251.35	251.38	251.53	251.22	250.46	250.95	250.23	250.05	250.13	
26	250.44	251.40	251.42	251.47	251.51	251.69	251.07	250.58	251.00	250.22	250.02	250.19	
27	250.44	251.72	251.41	251.43	251.56	251.42	251.10	250.69	251.03	250.22	250.00	250.24	
28	250.48	251.53	251.22	251.39	251.55	251.65	251.24	250.68	251.06	250.21	249.99	250.25	
29	250.59	251.41	251.29	251.63	251.67	252.61	251.02	250.58	251.02	250.21		250.26	
30	250.86	251.35	251.43	251.36	251.69	252.77	251.19	250.55	251.01	250.21		250.26	
31		251.16		251.43	251.63		250.94		250.99	250.21		250.27	
Mean	250.43	251.32	251.43	251.33	251.48	252.40	251.63	250.97	250.81	250.37	250.23	250.17	
Max	250.86	251.76	251.80	251.63	251.76	256.03	254.25	252.86	251.06	250.64	250.34	250.38	256.03
Min	249.72	251.05	251.02	251.13	251.06	251.40	250.92	250.43	250.46	250.21	249.99	249.98	249.72

Annual Max Momentary Gage Height 256.28 m. (MSL.) , at 06.00 Hours , on Sep 15 , 2008

Zero Gage at Bottom Elevation 247.50 m. (MSL.) , River Bed 248.48 m. (MSL)

Left Bank Elevation 258.29 m. (MSL.) ,

Right Bank Elevation 258.31 m. (MSL.) , Drainage Are 948 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	2.60	14.25	8.40	9.70	18.80	34.58	28.08	5.30	7.72	1.42	3.62		
2	0.00	13.55	5.80	8.10	16.40	17.20	27.04	56.04	4.74	7.18	1.66	3.34		
3	0.00	22.70	7.20	8.70	14.95	13.20	28.34	66.24	9.70	7.00	2.02	3.20		
4	0.00	12.15	13.20	5.80	1.20	17.60	27.82	43.80	14.96	6.66	2.26	3.06		
5	0.00	10.05	20.90	9.35	10.05	18.80	29.12	26.00	14.30	6.15	2.38	2.78		
6	0.00	4.60	17.20	7.80	15.65	24.50	42.30	23.24	12.31	5.81	2.50	2.50		
7	0.00	1.00	15.65	11.10	13.55	15.65	59.78	21.63	10.79	5.47	2.64	2.26		
8	0.00	1.80	16.80	4.60	8.40	9.00	122.75	17.72	11.36	5.02	2.92	2.14		
9	0.00	3.60	7.20	6.60	4.60	37.70	75.81	16.34	12.50	4.88	2.92	1.90		
10	0.00	2.60	4.60	6.00	2.00	33.80	38.22	14.73	12.90	4.60	3.06	0.98		
11	0.00	12.85	8.70	3.80	3.00	31.46	30.42	11.74	12.12	4.46	3.06	0.35		
12	0.00	2.20	18.00	3.80	4.20	36.92	26.78	10.42	12.12	4.18	3.06	0.05		
13	0.00	4.20	9.70	4.00	9.70	57.74	24.62	10.98	11.93	3.90	2.92	0.00		
14	0.00	5.20	24.50	3.40	18.80	101.54	17.72	8.44	11.36	3.62	2.92	0.00		
15	0.00	1.20	12.85	3.40	10.05	220.36	12.90	7.18	10.60	3.48	2.64	0.05		
16	0.00	2.20	9.00	2.80	17.60	139.40	13.30	8.08	9.34	3.34	2.64	0.15		
17	0.00	4.00	11.45	2.60	14.95	81.36	29.38	5.98	8.26	3.06	2.50	0.15		
18	0.00	5.20	9.35	2.80	5.20	98.10	27.04	5.02	7.18	2.78	2.38	0.15		
19	0.00	6.30	13.55	4.40	6.30	104.98	24.85	10.79	6.32	2.50	2.26	0.20		
20	0.00	7.50	7.20	15.30	16.00	82.47	26.78	9.16	5.64	2.26	1.90	0.15		
21	0.00	6.60	5.60	14.95	17.60	66.92	31.72	6.83	6.32	2.02	1.42	0.35		
22	0.00	7.50	0.40	5.80	22.70	50.40	33.02	5.16	6.83	1.90	0.82	0.35		
23	0.00	9.00	7.80	7.80	19.60	37.70	32.76	5.47	8.98	1.78	0.50	0.35		
24	0.00	9.00	12.15	9.35	11.45	27.04	23.93	4.32	11.55	1.78	0.35	0.40		
25	0.00	12.85	7.50	7.50	8.40	26.78	19.56	4.74	13.50	1.66	0.25	0.74		
26	0.00	9.00	9.70	11.45	12.85	30.94	16.11	6.66	14.50	1.54	0.10	1.22		
27	0.00	20.90	9.35	10.05	14.60	24.16	16.80	8.62	15.19	1.54	0.00	1.78		
28	0.00	13.55	4.40	8.70	14.25	29.90	20.02	8.44	15.88	1.42	0.00	1.90		
29	0.00	9.35	5.80	17.20	18.80	57.74	14.96	6.66	14.96	1.42		2.02		
30	0.00	7.50	10.05	7.80	19.60	63.18	18.87	6.15	14.73	1.42		2.02		
31		3.20		10.05	17.20		13.30		14.30	1.42		2.14		
Total	0.00	233.95	319.85	233.40	379.35	1575.34	960.60	464.66	340.47	111.97	53.50	40.30	4713.39	CMSDAY
Mean	0.00	7.55	10.66	7.53	12.24	52.51	30.99	15.49	10.98	3.61	1.91	1.30	12.91	CMS
Max	0.00	22.70	24.50	17.20	22.70	220.36	122.75	66.24	15.88	7.72	3.06	3.62	220.36	CMS
Min	0.00	1.00	0.40	2.60	1.20	9.00	12.90	4.32	4.74	1.42	0.00	0.00	0.00	CMS
Runoff	0.00	20.21	27.64	20.17	32.78	136.11	83.00	40.15	29.42	9.67	4.62	3.48	407.24	MCM

Momentary Peak 236.20 CMS. at 256.28 m. (MSL.) at 06.00 Hours , on Sep 15 , 2008

Runoff Yield 13.62 Liters/Second/Square KM. Momentary Peak Yield 249.16 Liters/Second/Square KM.

WATER YEAR : 2008

NAM MAE ING RIVER BASIN

Nam Waen at Ban Nam Waen, Phayao (I.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

Drainge Area	151 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 in the vicinity of gage observer's house. **Elevation** +8.152 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1980 to date
Rating Operation	
Period of Rating	1997 to date
Rated by Float	-
Rated by Current Meter	1997 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 Nam Waen reservoir about 4 - 5 kilometers abov gage site. Stage-discharge relation defined by 12 discharge measurements made in 2008.

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

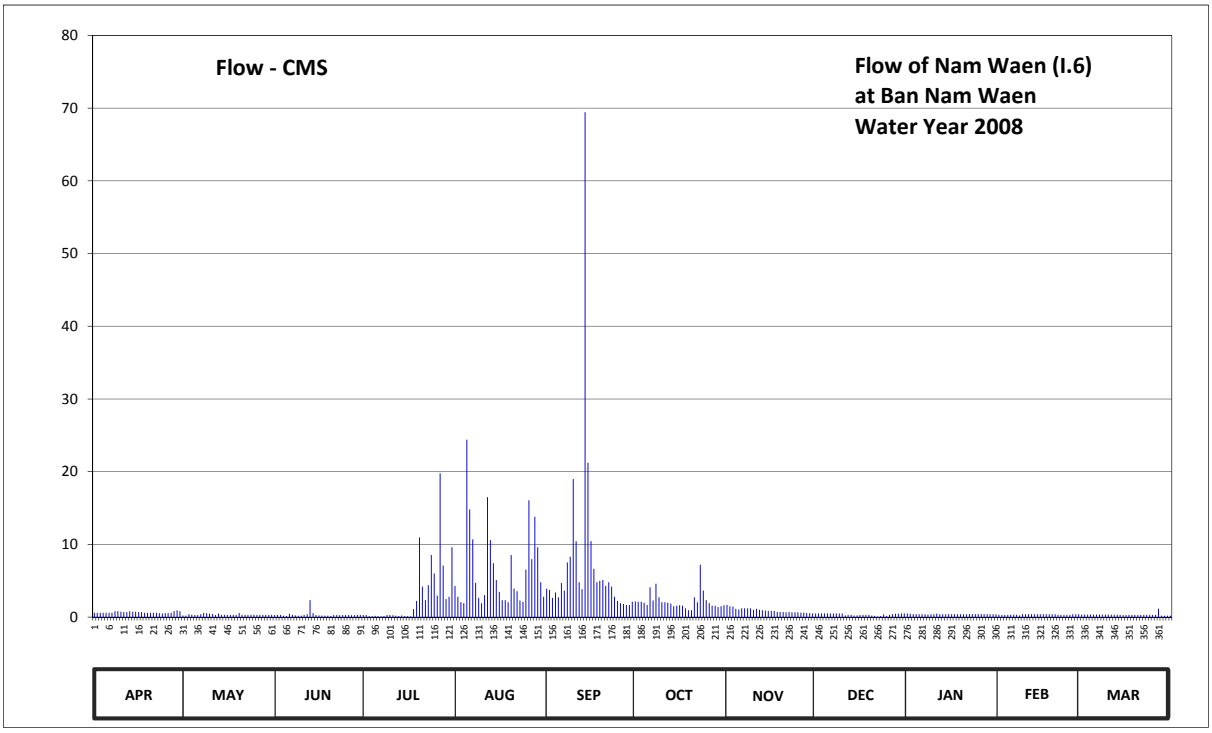
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	0.50	0.60	0.58	0.92	0.88	0.66	0.58	0.35	0.67	0.61	0.62	
2	0.70	0.48	0.60	0.57	0.75	0.86	0.65	0.55	0.35	0.65	0.60	0.62	
3	0.70	0.63	0.60	0.39	0.64	0.73	0.65	0.54	0.35	0.64	0.60	0.62	
4	0.70	0.61	0.46	0.39	0.62	0.82	0.63	0.49	0.35	0.64	0.60	0.62	
5	0.70	0.59	0.43	0.44	2.40	0.74	0.58	0.47	0.35	0.63	0.61	0.62	
6	0.70	0.59	0.65	0.38	1.80	0.96	0.90	0.50	0.35	0.63	0.61	0.62	
7	0.70	0.63	0.60	0.35	1.50	0.85	0.68	0.50	0.35	0.63	0.61	0.62	
8	0.73	0.69	0.54	0.42	0.96	1.23	0.95	0.50	0.35	0.62	0.52	0.62	
9	0.73	0.68	0.47	0.58	0.73	1.30	0.74	0.50	0.35	0.63	0.63	0.62	
10	0.72	0.65	0.47	0.57	0.62	2.08	0.64	0.46	0.35	0.63	0.63	0.62	
11	0.71	0.64	0.60	0.56	0.78	1.48	0.64	0.49	0.28	0.66	0.63	0.61	
12	0.71	0.57	0.63	0.46	1.92	0.97	0.63	0.46	0.30	0.63	0.63	0.61	
13	0.73	0.66	0.88	0.42	1.49	0.87	0.61	0.45	0.30	0.63	0.63	0.61	
14	0.72	0.60	0.68	0.50	1.22	4.22	0.55	0.44	0.27	0.63	0.63	0.61	
15	0.72	0.60	0.59	0.42	1.00	2.22	0.56	0.43	0.28	0.63	0.63	0.59	
16	0.71	0.60	0.54	0.37	0.83	1.48	0.57	0.43	0.30	0.63	0.63	0.59	
17	0.71	0.60	0.49	0.35	0.69	1.15	0.56	0.43	0.30	0.63	0.63	0.60	
18	0.70	0.60	0.47	0.48	0.69	0.97	0.50	0.40	0.30	0.63	0.63	0.60	
19	0.70	0.60	0.46	0.67	0.64	0.99	0.45	0.40	0.30	0.63	0.63	0.60	
20	0.70	0.69	0.45	1.52	1.32	1.00	0.45	0.40	0.27	0.63	0.63	0.60	
21	0.70	0.60	0.59	0.91	0.88	0.92	0.74	0.39	0.26	0.63	0.60	0.60	
22	0.70	0.60	0.59	0.69	0.84	0.97	0.64	0.40	0.23	0.64	0.60	0.60	
23	0.68	0.60	0.56	0.93	0.68	0.91	1.20	0.39	0.25	0.64	0.60	0.60	
24	0.67	0.60	0.59	1.32	0.65	0.75	0.85	0.39	0.32	0.64	0.60	0.60	
25	0.68	0.60	0.59	1.09	1.14	0.67	0.69	0.39	0.26	0.64	0.60	0.60	
26	0.68	0.60	0.57	0.77	1.89	0.62	0.62	0.38	0.30	0.64	0.63	0.60	
27	0.70	0.60	0.56	2.13	1.27	0.60	0.56	0.38	0.33	0.64	0.63	0.78	
28	0.73	0.60	0.56	1.19	1.73	0.58	0.56	0.37	0.65	0.64	0.63	0.46	
29	0.75	0.60	0.60	0.71	1.41	0.58	0.53	0.36	0.65	0.63		0.46	
30	0.73	0.60	0.60	0.75	0.97	0.65	0.55	0.35	0.67	0.63		0.48	
31		0.60		1.41	0.75		0.57		0.67	0.63		0.48	
Mean	0.71	0.61	0.57	0.72	1.09	1.10	0.65	0.44	0.35	0.64	0.61	0.60	
Max	0.75	0.69	0.88	2.13	2.40	4.22	1.20	0.58	0.67	0.67	0.63	0.78	4.22
Min	0.67	0.48	0.43	0.35	0.62	0.58	0.45	0.35	0.23	0.62	0.52	0.46	0.23

Annual Max Momentary Gage Height 4.75 m. (A.D.) , at 09.00 Hours , on Sep 14, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.05 m. (A.D.) ,

Left Bank Elevation 8.77 m. (A.D.) ,

Right Bank Elevation 8.82 m. (A.D.) , Drainage Are 151 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	0.22	0.30	0.28	4.30	3.92	2.16	1.68	0.50	0.51	0.33	0.36		
2	0.60	0.20	0.30	0.28	2.80	3.74	2.10	1.50	0.50	0.45	0.30	0.36		
3	0.60	0.39	0.30	0.13	2.04	2.64	2.10	1.44	0.50	0.42	0.30	0.36		
4	0.60	0.33	0.19	0.13	1.92	3.38	1.98	1.15	0.50	0.42	0.30	0.36		
5	0.60	0.29	0.16	0.17	24.40	2.72	1.68	1.05	0.50	0.39	0.33	0.36		
6	0.60	0.29	0.45	0.13	14.80	4.70	4.10	1.20	0.50	0.39	0.33	0.36		
7	0.60	0.39	0.30	0.11	10.70	3.65	2.28	1.20	0.50	0.39	0.33	0.36		
8	0.81	0.57	0.25	0.16	4.70	7.53	4.60	1.20	0.50	0.36	0.24	0.36		
9	0.81	0.54	0.20	0.28	2.64	8.30	2.72	1.20	0.50	0.39	0.39	0.36		
10	0.74	0.45	0.20	0.28	1.92	18.98	2.04	1.00	0.50	0.39	0.39	0.36		
11	0.67	0.42	0.30	0.27	3.04	10.46	2.04	1.15	0.24	0.48	0.39	0.33		
12	0.67	0.28	0.39	0.19	16.50	4.80	1.98	1.00	0.30	0.39	0.39	0.33		
13	0.81	0.48	2.34	0.16	10.58	3.83	1.86	0.95	0.30	0.39	0.39	0.33		
14	0.74	0.30	0.54	0.22	7.42	69.44	1.50	0.90	0.21	0.39	0.39	0.33		
15	0.74	0.30	0.29	0.16	5.10	21.24	1.56	0.85	0.24	0.39	0.39	0.29		
16	0.67	0.30	0.25	0.12	3.47	10.46	1.62	0.85	0.30	0.39	0.39	0.29		
17	0.67	0.30	0.21	0.11	2.34	6.65	1.56	0.85	0.30	0.39	0.39	0.30		
18	0.60	0.30	0.20	1.10	2.34	4.80	1.20	0.70	0.30	0.39	0.39	0.30		
19	0.60	0.30	0.19	2.22	2.04	5.00	0.95	0.70	0.30	0.39	0.39	0.30		
20	0.60	0.57	0.18	10.96	8.54	5.10	0.95	0.70	0.21	0.39	0.39	0.30		
21	0.60	0.30	0.29	4.20	3.92	4.30	2.72	0.66	0.18	0.39	0.30	0.30		
22	0.60	0.30	0.29	2.34	3.56	4.80	2.04	0.70	0.09	0.42	0.30	0.30		
23	0.54	0.30	0.27	4.40	2.28	4.20	7.20	0.66	0.15	0.42	0.30	0.30		
24	0.51	0.30	0.29	8.54	2.10	2.80	3.65	0.66	0.38	0.42	0.30	0.30		
25	0.54	0.30	0.29	6.00	6.54	2.22	2.34	0.66	0.18	0.42	0.30	0.30		
26	0.54	0.30	0.28	2.96	16.06	1.92	1.92	0.62	0.30	0.42	0.39	0.30		
27	0.60	0.30	0.27	19.78	7.97	1.80	1.56	0.62	0.42	0.42	0.39	1.16		
28	0.81	0.30	0.27	7.09	13.82	1.68	1.56	0.58	0.45	0.42	0.39	0.19		
29	0.95	0.30	0.30	2.48	9.62	1.68	1.38	0.54	0.45	0.39		0.19		
30	0.81	0.30	0.30	2.80	4.80	2.10	1.50	0.50	0.51	0.39		0.20		
31		0.30		9.62	2.80		1.62		0.51	0.39		0.20		
Total	19.83	10.52	10.39	87.67	205.06	228.84	68.47	27.47	11.32	12.60	9.81	10.44	702.42	CMSDAY
Mean	0.66	0.34	0.35	2.83	6.61	7.63	2.21	0.92	0.37	0.41	0.35	0.34	1.92	CMS
Max	0.95	0.57	2.34	19.78	24.40	69.44	7.20	1.68	0.51	0.51	0.39	1.16	69.44	CMS
Min	0.51	0.20	0.16	0.11	1.92	1.68	0.95	0.50	0.09	0.36	0.24	0.19	0.09	CMS
Runoff	1.71	0.91	0.90	7.57	17.72	19.77	5.92	2.37	0.98	1.09	0.85	0.90	60.69	MCM

Momentary Peak 86.90 CMS. at 4.75 m. (A.D.) at 09.00 Hours , on Sep 14 , 2008

Runoff Yield 12.74 Liters/Second/Square KM. Momentary Peak Yield 575.50 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1993 to date
Rating Operation	
Period of Rating	1993 to date
Rated by Float	-
Rated by Current Meter	1993 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the local weir about 100 meters downstream from the gage site. Stage-discharge relation defined by 16 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

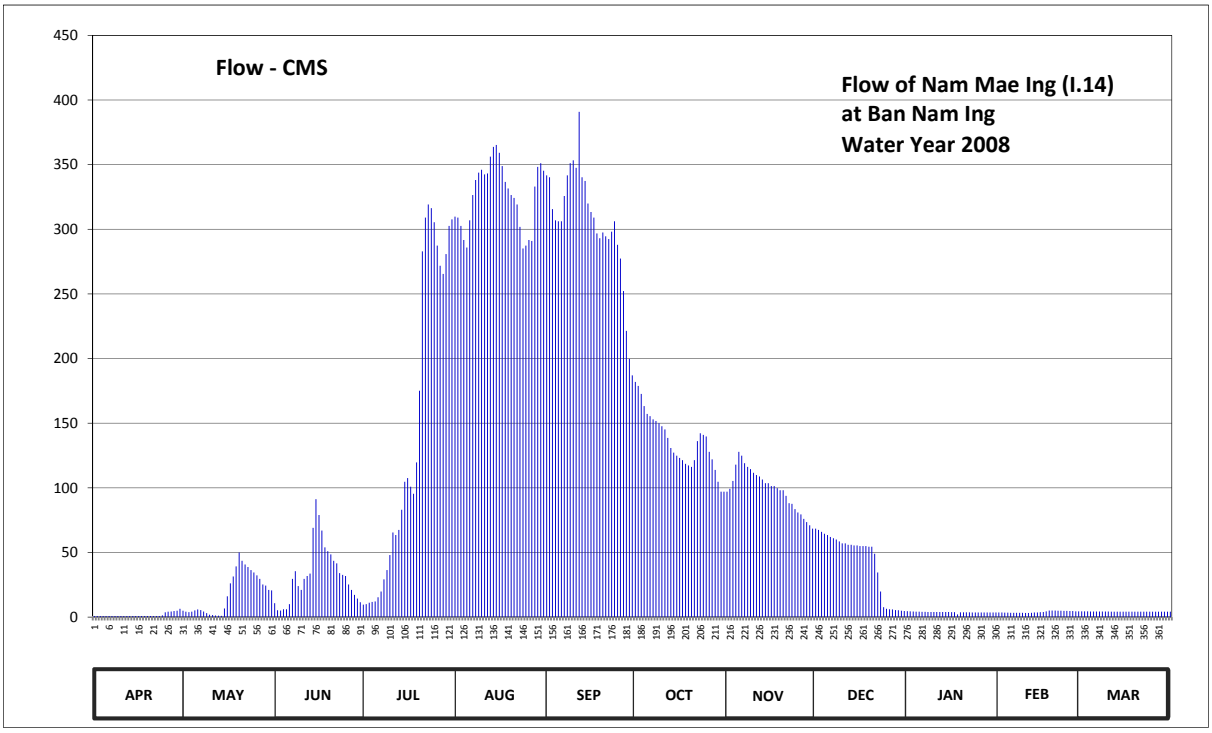
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	352.75	353.12	353.05	353.02	358.17	358.61	356.32	354.89	354.33	352.78	352.68	352.77	
2	352.75	353.08	352.83	353.03	358.16	358.59	356.27	354.93	354.31	352.77	352.68	352.77	
3	352.74	353.06	352.82	353.06	358.07	358.25	356.17	355.04	354.28	352.76	352.67	352.77	
4	352.74	353.08	352.88	353.08	357.92	358.13	356.02	355.26	354.25	352.74	352.67	352.76	
5	352.74	353.13	352.88	353.09	357.84	358.12	355.92	355.43	354.23	352.74	352.66	352.76	
6	352.74	353.16	353.03	353.18	358.13	358.12	355.89	355.38	354.20	352.73	352.66	352.76	
7	352.73	353.14	353.53	353.30	358.40	358.39	355.85	355.28	354.18	352.73	352.66	352.76	
8	352.73	353.09	353.66	353.52	358.56	358.61	355.83	355.23	354.16	352.72	352.65	352.76	
9	352.73	353.02	353.40	353.68	358.64	358.74	355.80	355.20	354.13	352.72	352.65	352.76	
10	352.73	352.91	353.33	353.92	358.67	358.77	355.76	355.15	354.10	352.72	352.64	352.76	
11	352.73	352.88	353.53	354.27	358.62	358.69	355.72	355.12	354.10	352.72	352.64	352.75	
12	352.73	352.83	353.58	354.23	358.63	359.27	355.61	355.10	354.08	352.72	352.65	352.75	
13	352.73	352.82	353.62	354.31	358.81	358.59	355.48	355.06	354.08	352.72	352.68	352.75	
14	352.73	352.80	354.34	354.62	358.91	358.55	355.42	355.01	354.07	352.72	352.68	352.75	
15	352.72	352.91	354.78	355.03	358.93	358.31	355.38	355.01	354.07	352.72	352.71	352.75	
16	352.72	353.20	354.54	355.08	358.85	358.22	355.35	354.97	354.06	352.71	352.72	352.75	
17	352.72	353.45	354.30	354.96	358.71	358.16	355.32	354.97	354.06	352.71	352.77	352.75	
18	352.72	353.57	354.04	354.86	358.54	357.99	355.27	354.94	354.06	352.45	352.82	352.75	
19	352.72	353.74	353.98	355.29	358.47	357.94	355.25	354.91	354.05	352.70	352.82	352.75	
20	352.72	353.96	353.93	356.21	358.40	358.00	355.23	354.91	354.05	352.70	352.82	352.75	
21	352.73	353.83	353.83	357.80	358.37	357.96	355.32	354.83	353.94	352.70	352.81	352.75	
22	352.73	353.77	353.79	358.16	358.30	357.93	355.57	354.72	353.64	352.70	352.81	352.75	
23	352.75	353.73	353.63	358.30	358.06	358.01	355.67	354.71	353.30	352.69	352.80	352.75	
24	352.85	353.68	353.60	358.26	357.83	358.12	355.65	354.63	352.95	352.69	352.80	352.75	
25	353.05	353.64	353.58	358.11	357.86	357.87	355.63	354.58	352.90	352.68	352.79	352.75	
26	353.08	353.59	353.43	357.86	357.92	357.72	355.43	354.55	352.88	352.68	352.79	352.75	
27	353.09	353.53	353.33	357.64	357.91	357.36	355.33	354.48	352.87	352.68	352.77	352.75	
28	353.11	353.43	353.23	357.55	358.49	356.92	355.19	354.43	352.84	352.68	352.77	352.75	
29	353.12	353.41	353.15	357.77	358.70	356.60	355.03	354.38	352.83	352.68		352.74	
30	353.18	353.33	353.07	358.07	358.74	356.40	354.89	354.33	352.81	352.68		352.74	
31		353.32		358.14	358.66		354.89		352.79	352.68		352.74	
Mean	352.81	353.30	353.56	355.46	358.40	358.10	355.56	354.91	353.76	352.70	352.72	352.75	
Max	353.18	353.96	354.78	358.30	358.93	359.27	356.32	355.43	354.33	352.78	352.82	352.77	359.27
Min	352.72	352.80	352.82	353.02	357.83	356.40	354.89	354.33	352.79	352.45	352.64	352.74	352.45

Annual Max Momentary Gage Height 359.43 m. (MSL.) , at 09.00 Hours , on Sep 12 , 2008

Zero Gage at Bottom Elevation 351.43 m. (MSL.) , River Bed 351.94 m. (MSL.)

Left Bank Elevation 362.01 m. (MSL.) ,

Right Bank Elevation 362.03 m. (MSL.) , Drainage Are 6,266 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.90	4.98	10.75	9.70	309.83	341.73	182.00	97.08	68.50	4.58	3.54	4.47		
2	0.90	4.16	5.28	10.05	309.10	340.28	178.88	99.23	67.50	4.47	3.54	4.47		
3	0.88	3.82	5.12	11.10	302.58	315.63	172.63	105.30	66.00	4.36	3.46	4.47		
4	0.88	4.16	6.08	11.80	291.70	306.93	163.25	117.95	64.50	4.14	3.46	4.36		
5	0.88	5.22	6.08	12.15	285.90	306.20	157.20	127.80	63.50	4.14	3.38	4.36		
6	0.88	5.94	10.05	15.38	306.93	306.20	155.40	124.85	62.00	4.03	3.38	4.36		
7	0.86	5.46	29.62	19.80	326.50	325.78	153.00	119.10	61.00	4.03	3.38	4.36		
8	0.86	4.33	35.46	29.18	338.10	341.73	151.80	116.23	60.00	3.92	3.30	4.36		
9	0.86	3.14	24.00	36.38	343.90	351.15	150.00	114.50	58.50	3.92	3.30	4.36		
10	0.86	1.81	21.06	48.00	346.08	353.33	147.60	111.63	57.00	3.92	3.22	4.36		
11	0.86	1.56	29.62	65.50	342.45	347.53	145.20	109.90	57.00	3.92	3.22	4.25		
12	0.86	1.21	31.82	63.50	343.18	390.93	138.60	108.75	56.00	3.92	3.30	4.25		
13	0.86	1.14	33.62	67.50	356.25	340.28	130.80	106.45	56.00	3.92	3.54	4.25		
14	0.86	1.00	69.00	83.02	363.75	337.38	127.20	103.58	55.50	3.92	3.54	4.25		
15	0.84	6.66	91.22	104.73	365.25	319.98	124.85	103.58	55.50	3.92	3.81	4.25		
16	0.84	16.10	79.00	107.60	359.25	313.45	123.13	101.39	55.00	3.81	3.92	4.25		
17	0.84	26.15	67.00	100.85	348.98	309.10	121.40	101.39	55.00	3.81	4.47	4.25		
18	0.84	31.38	54.00	95.47	336.65	296.78	118.53	99.77	55.00	2.05	5.12	4.25		
19	0.84	39.22	51.00	119.68	331.58	293.15	117.38	98.16	54.50	3.70	5.12	4.25		
20	0.84	50.00	48.50	175.13	326.50	297.50	116.23	98.16	54.50	3.70	5.12	4.25		
21	0.86	43.57	43.57	283.00	324.33	294.60	121.40	93.86	49.00	3.70	4.96	4.25		
22	0.86	40.66	41.62	309.10	319.25	292.43	136.20	88.15	34.54	3.70	4.96	4.25		
23	0.90	38.74	34.08	319.25	301.85	298.23	142.20	87.63	19.80	3.62	4.80	4.25		
24	1.35	36.38	32.70	316.35	285.18	306.20	141.00	83.54	7.70	3.62	4.80	4.25		
25	3.65	34.54	31.82	305.48	287.35	288.08	139.80	81.00	6.40	3.54	4.69	4.25		
26	4.16	32.26	25.29	287.35	291.70	277.40	127.80	79.50	6.08	3.54	4.69	4.25		
27	4.33	29.62	21.06	271.80	290.98	252.20	121.98	76.00	5.92	3.54	4.47	4.25		
28	4.74	25.29	17.21	265.50	333.03	221.40	113.93	73.50	5.44	3.54	4.47	4.25		
29	4.98	24.43	14.30	280.90	348.25	199.75	104.73	71.00	5.28	3.54		4.14		
30	6.42	21.06	11.45	302.58	351.15	187.00	97.08	68.50	4.96	3.54		4.14		
31		20.64		307.65	345.35		97.08		4.69	3.54		4.14		
Total	49.49	564.63	981.38	4435.48	10112.88	9152.33	4218.28	2967.48	1332.31	117.60	112.96	132.85	34177.67	CMSDAY
Mean	1.65	18.21	32.71	143.08	326.22	305.08	136.07	98.92	42.98	3.79	4.03	4.29	93.64	CMS
Max	6.42	50.00	91.22	319.25	365.25	390.93	182.00	127.80	68.50	4.58	5.12	4.47	390.93	CMS
Min	0.84	1.00	5.12	9.70	285.18	187.00	97.08	68.50	4.69	2.05	3.22	4.14	0.84	CMS
Runoff	4.28	48.78	84.79	383.23	873.75	790.76	364.46	256.39	115.11	10.16	9.76	11.48	2952.95	MCM

Momentary Peak 403.40 CMS. at 359.43 m. (MSL.) at 09.00 Hours , on Sep 12 , 2008

Runoff Yield 14.94 Liters/Second/Square KM. Momentary Peak Yield 64.38 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	1,167 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 about 10 meters from the top staff gage.	**Elevation**	+3.000 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Float	-		
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 6 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

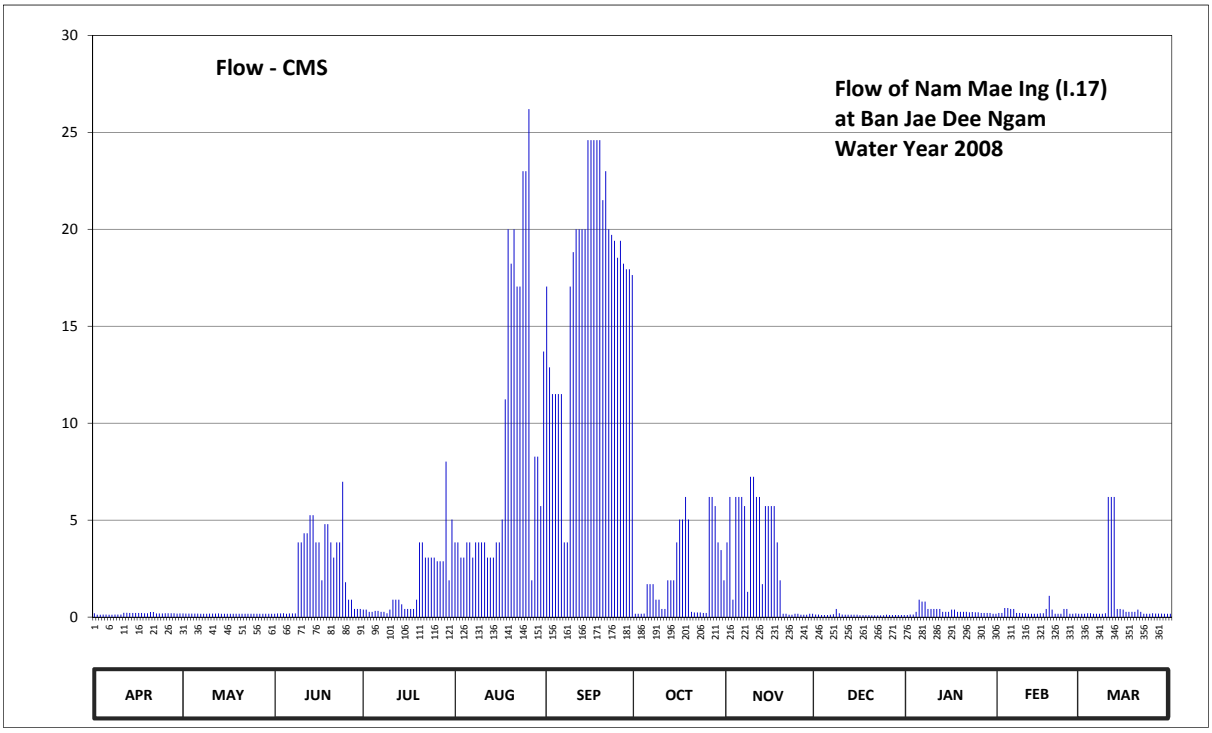
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.78	0.75	0.70	0.98	1.30	1.80	0.70	1.30	0.48	0.30	0.80	0.70	
2	0.40	0.73	0.74	0.98	1.30	1.65	0.70	1.40	0.48	0.48	0.80	0.70	
3	0.40	0.73	0.74	0.90	1.26	1.60	0.70	1.10	0.30	0.48	1.01	0.78	
4	0.45	0.73	0.78	0.90	1.26	1.60	0.73	1.40	0.30	0.90	1.01	0.78	
5	0.45	0.72	0.70	0.93	1.30	1.60	1.18	1.40	0.30	1.10	1.00	0.70	
6	0.44	0.72	0.74	0.93	1.30	1.60	1.18	1.40	0.38	1.08	1.00	0.68	
7	0.44	0.70	0.74	0.90	1.26	1.30	1.18	1.38	0.58	1.08	0.80	0.68	
8	0.48	0.70	0.74	0.90	1.30	1.30	1.10	1.14	1.00	1.00	0.80	0.70	
9	0.48	0.68	1.30	0.78	1.30	1.80	1.10	1.44	0.78	1.00	0.78	0.78	
10	0.48	0.72	1.30	0.98	1.30	1.86	1.00	1.44	0.48	1.00	0.78	1.40	
11	0.82	0.72	1.32	1.10	1.30	1.90	1.00	1.40	0.38	1.00	0.70	1.40	
12	0.82	0.72	1.32	1.10	1.26	1.90	1.20	1.40	0.38	1.00	0.70	1.40	
13	0.80	0.74	1.36	1.10	1.26	1.90	1.20	1.18	0.38	0.90	0.70	1.00	
14	0.80	0.71	1.36	1.05	1.26	1.90	1.20	1.38	0.38	0.90	0.70	1.00	
15	0.80	0.70	1.30	1.00	1.30	2.05	1.30	1.38	0.38	0.90	0.78	0.98	
16	0.80	0.70	1.30	1.00	1.30	2.05	1.35	1.38	0.20	0.98	0.78	0.90	
17	0.80	0.70	1.20	1.00	1.35	2.05	1.35	1.38	0.20	0.98	1.00	0.90	
18	0.78	0.70	1.34	1.00	1.59	2.05	1.40	1.30	0.20	0.90	1.12	0.90	
19	0.78	0.68	1.34	1.10	1.90	2.05	1.35	1.20	0.20	0.90	0.98	0.90	
20	0.88	0.68	1.30	1.30	1.84	1.95	0.90	0.70	0.10	0.90	0.70	0.98	
21	0.88	0.70	1.26	1.30	1.90	2.00	0.85	0.70	0.10	0.90	0.70	0.90	
22	0.76	0.70	1.30	1.26	1.80	1.90	0.85	0.40	0.10	0.87	0.70	0.70	
23	0.76	0.70	1.30	1.26	1.80	1.89	0.85	0.40	0.10	0.88	1.00	0.70	
24	0.76	0.68	1.43	1.26	2.00	1.88	0.80	0.70	0.22	0.87	1.00	0.70	
25	0.78	0.70	1.19	1.26	2.00	1.85	0.80	0.70	0.38	0.87	0.70	0.78	
26	0.78	0.70	1.10	1.25	2.10	1.88	1.40	0.40	0.30	0.80	0.70	0.73	
27	0.78	0.70	1.10	1.25	1.20	1.84	1.40	0.40	0.30	0.80	0.76	0.72	
28	0.78	0.70	1.00	1.25	1.48	1.83	1.38	0.40	0.30	0.80	0.70	0.72	
29	0.72	0.70	1.00	1.47	1.48	1.83	1.30	0.70	0.30	0.79		0.70	
30	0.75	0.70	1.00	1.20	1.38	1.82	1.28	0.70	0.30	0.70		0.70	
31		0.68		1.35	1.68		1.20		0.30	0.70		0.70	
Mean	0.69	0.71	1.11	1.10	1.49	1.82	1.09	1.05	0.34	0.86	0.83	0.85	
Max	0.88	0.75	1.43	1.47	2.10	2.05	1.40	1.44	1.00	1.10	1.12	1.40	2.10
Min	0.40	0.68	0.70	0.78	1.20	1.30	0.70	0.40	0.10	0.30	0.70	0.68	0.10

Annual Max Momentary Gage Height 2.10 m. (A.D.) , at 06.00 Hours , on Aug 26, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed -1.48 m. (A.D.) ,

Left Bank Elevation 4.29 m. (A.D.) ,

Right Bank Elevation 4.30 m. (A.D.) , Drainage Are 1,167 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	0.19	0.17	0.39	3.85	17.05	0.17	3.85	0.13	0.11	0.21	0.17		
2	0.12	0.18	0.19	0.39	3.85	12.88	0.17	6.20	0.13	0.13	0.21	0.17		
3	0.12	0.18	0.19	0.27	3.07	11.50	0.17	0.90	0.11	0.13	0.47	0.20		
4	0.13	0.18	0.20	0.27	3.07	11.50	0.18	6.20	0.11	0.27	0.47	0.20		
5	0.13	0.18	0.17	0.32	3.85	11.50	1.70	6.20	0.11	0.90	0.42	0.17		
6	0.12	0.18	0.19	0.32	3.85	11.50	1.70	6.20	0.12	0.80	0.42	0.17		
7	0.12	0.17	0.19	0.27	3.07	3.85	1.70	5.73	0.15	0.80	0.21	0.17		
8	0.13	0.17	0.19	0.27	3.85	3.85	0.90	1.30	0.42	0.42	0.21	0.17		
9	0.13	0.17	3.85	0.20	3.85	17.05	0.90	7.24	0.20	0.42	0.20	0.20		
10	0.13	0.18	3.85	0.39	3.85	18.82	0.42	7.24	0.13	0.42	0.20	6.20		
11	0.22	0.18	4.32	0.90	3.85	20.00	0.42	6.20	0.12	0.42	0.17	6.20		
12	0.22	0.18	4.32	0.90	3.07	20.00	1.90	6.20	0.12	0.42	0.17	6.20		
13	0.21	0.19	5.26	0.90	3.07	20.00	1.90	1.70	0.12	0.27	0.17	0.42		
14	0.21	0.17	5.26	0.66	3.07	20.00	1.90	5.73	0.12	0.27	0.17	0.42		
15	0.21	0.17	3.85	0.42	3.85	24.60	3.85	5.73	0.12	0.27	0.20	0.39		
16	0.21	0.17	3.85	0.42	3.85	24.60	5.03	5.73	0.10	0.39	0.20	0.27		
17	0.21	0.17	1.90	0.42	5.03	24.60	5.03	5.73	0.10	0.39	0.42	0.27		
18	0.20	0.17	4.79	0.42	11.23	24.60	6.20	3.85	0.10	0.27	1.10	0.27		
19	0.20	0.17	4.79	0.90	20.00	24.60	5.03	1.90	0.10	0.27	0.39	0.27		
20	0.26	0.17	3.85	3.85	18.23	21.50	0.27	0.17	0.09	0.27	0.17	0.39		
21	0.26	0.17	3.07	3.85	20.00	23.00	0.24	0.17	0.09	0.27	0.17	0.27		
22	0.19	0.17	3.85	3.07	17.05	20.00	0.24	0.12	0.09	0.25	0.17	0.17		
23	0.19	0.17	3.85	3.07	17.05	19.71	0.24	0.12	0.09	0.26	0.42	0.17		
24	0.19	0.17	6.98	3.07	23.00	19.41	0.21	0.17	0.10	0.25	0.42	0.17		
25	0.20	0.17	1.80	3.07	23.00	18.53	0.21	0.17	0.12	0.25	0.17	0.20		
26	0.20	0.17	0.90	2.88	26.20	19.41	6.20	0.12	0.11	0.21	0.17	0.18		
27	0.20	0.17	0.90	2.88	1.90	18.23	6.20	0.12	0.11	0.21	0.19	0.18		
28	0.20	0.17	0.42	2.88	8.28	17.94	5.73	0.12	0.11	0.21	0.17	0.18		
29	0.18	0.17	0.42	8.02	8.28	17.94	3.85	0.17	0.11	0.21		0.17		
30	0.19	0.17	0.42	1.90	5.73	17.64	3.46	0.17	0.11	0.17		0.17		
31		0.17		5.03	13.70		1.90		0.11	0.17		0.17		
Total	5.48	5.39	73.99	52.60	275.60	535.81	68.02	95.45	3.85	10.10	8.06	24.95	1159.30	CMSDAY
Mean	0.18	0.17	2.47	1.70	8.89	17.86	2.19	3.18	0.12	0.33	0.29	0.80	3.18	CMS
Max	0.26	0.19	6.98	8.02	26.20	24.60	6.20	7.24	0.42	0.90	1.10	6.20	26.20	CMS
Min	0.12	0.17	0.17	0.20	1.90	3.85	0.17	0.12	0.09	0.11	0.17	0.17	0.09	CMS
Runoff	0.47	0.47	6.39	4.54	23.81	46.29	5.88	8.25	0.33	0.87	0.70	2.16	100.16	MCM

Momentary Peak 26.20 CMS. at 2.10 m. (A.D.) at 06.00 Hours , on Aug 26 , 2008

Runoff Yield 2.72 Liters/Second/Square KM. Momentary Peak Yield 22.45 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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	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	2000 to date
Rated by Float	-
Rated by Current Meter	2000 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 29 discharge measurements made in 2008

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

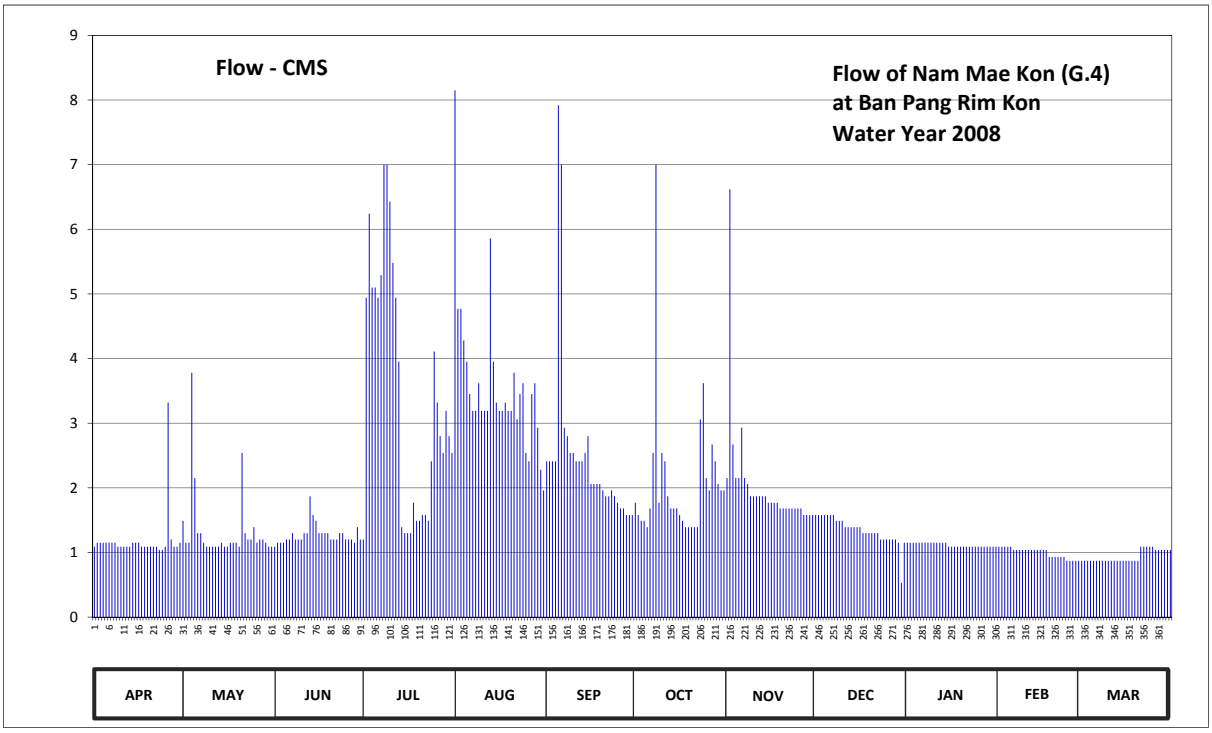
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	462.28	462.33	462.28	462.30	462.75	462.42	462.36	462.40	462.34	462.29	462.28	462.24	
2	462.29	462.29	462.29	462.59	462.58	462.42	462.34	462.68	462.34	462.29	462.28	462.24	
3	462.29	462.29	462.29	462.66	462.58	462.42	462.33	462.44	462.34	462.29	462.28	462.24	
4	462.29	462.52	462.29	462.60	462.55	462.42	462.33	462.40	462.34	462.29	462.28	462.24	
5	462.29	462.40	462.30	462.60	462.53	462.74	462.32	462.40	462.34	462.29	462.28	462.24	
6	462.29	462.31	462.30	462.59	462.50	462.70	462.35	462.46	462.34	462.29	462.27	462.24	
7	462.29	462.31	462.31	462.61	462.48	462.46	462.43	462.40	462.34	462.29	462.27	462.24	
8	462.29	462.29	462.30	462.70	462.48	462.45	462.70	462.39	462.33	462.29	462.27	462.24	
9	462.28	462.28	462.30	462.70	462.51	462.43	462.36	462.37	462.33	462.29	462.27	462.24	
10	462.28	462.28	462.30	462.67	462.48	462.43	462.43	462.37	462.33	462.29	462.27	462.24	
11	462.28	462.28	462.31	462.62	462.48	462.42	462.42	462.37	462.32	462.29	462.27	462.24	
12	462.28	462.28	462.31	462.59	462.48	462.42	462.37	462.37	462.32	462.29	462.27	462.24	
13	462.28	462.28	462.37	462.53	462.64	462.42	462.35	462.37	462.32	462.29	462.27	462.24	
14	462.29	462.29	462.34	462.32	462.53	462.43	462.35	462.37	462.32	462.29	462.27	462.24	
15	462.29	462.28	462.33	462.31	462.49	462.45	462.35	462.36	462.32	462.28	462.27	462.24	
16	462.29	462.28	462.31	462.31	462.48	462.39	462.34	462.36	462.32	462.28	462.27	462.24	
17	462.28	462.29	462.31	462.31	462.48	462.39	462.33	462.36	462.31	462.28	462.27	462.24	
18	462.28	462.29	462.31	462.36	462.49	462.39	462.32	462.36	462.31	462.28	462.25	462.24	
19	462.28	462.29	462.31	462.33	462.48	462.39	462.32	462.35	462.31	462.28	462.25	462.24	
20	462.28	462.28	462.30	462.33	462.48	462.38	462.32	462.35	462.31	462.28	462.25	462.24	
21	462.28	462.43	462.30	462.34	462.52	462.37	462.32	462.35	462.31	462.28	462.25	462.28	
22	462.28	462.31	462.30	462.34	462.47	462.37	462.32	462.35	462.31	462.28	462.25	462.28	
23	462.27	462.30	462.31	462.33	462.50	462.38	462.47	462.35	462.30	462.28	462.25	462.28	
24	462.27	462.30	462.31	462.42	462.51	462.37	462.51	462.35	462.30	462.28	462.24	462.28	
25	462.28	462.32	462.30	462.54	462.43	462.36	462.40	462.35	462.30	462.28	462.24	462.28	
26	462.49	462.29	462.30	462.49	462.42	462.35	462.38	462.35	462.30	462.28	462.24	462.27	
27	462.30	462.30	462.30	462.45	462.50	462.35	462.44	462.34	462.30	462.28	462.24	462.27	
28	462.28	462.30	462.29	462.43	462.51	462.34	462.42	462.34	462.30	462.28	462.24	462.27	
29	462.28	462.29	462.32	462.48	462.46	462.34	462.39	462.34	462.29	462.28		462.27	
30	462.29	462.28	462.30	462.45	462.41	462.34	462.38	462.34	462.17	462.28		462.27	
31		462.28		462.43	462.38		462.38		462.29	462.28		462.27	
Mean	462.29	462.31	462.31	462.48	462.50	462.42	462.38	462.38	462.31	462.28	462.26	462.25	
Max	462.49	462.52	462.37	462.70	462.75	462.74	462.70	462.68	462.34	462.29	462.28	462.28	462.75
Min	462.27	462.28	462.28	462.30	462.38	462.34	462.32	462.34	462.17	462.28	462.24	462.24	462.17

Annual Max Momentary Gage Height 463.55 m. (MSL.) , at 15.00 Hours , on Aug 1 , 2008

Zero Gage at Bottom Elevation 461.70 m. (MSL.) , River Bed 461.90 m. (MSL.)

Left Bank Elevation 465.01 m. (MSL.) ,

Right Bank Elevation 464.00 m. (MSL.) , Drainage Are 49 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.09	1.49	1.09	1.20	8.15	2.41	1.77	2.15	1.58	1.15	1.09	0.87		
2	1.15	1.15	1.15	4.94	4.77	2.41	1.58	6.62	1.58	1.15	1.09	0.87		
3	1.15	1.15	1.15	6.24	4.77	2.41	1.49	2.67	1.58	1.15	1.09	0.87		
4	1.15	3.78	1.15	5.10	4.28	2.41	1.49	2.15	1.58	1.15	1.09	0.87		
5	1.15	2.15	1.20	5.10	3.95	7.92	1.39	2.15	1.58	1.15	1.09	0.87		
6	1.15	1.30	1.20	4.94	3.45	7.00	1.68	2.93	1.58	1.15	1.04	0.87		
7	1.15	1.30	1.30	5.29	3.19	2.93	2.54	2.15	1.58	1.15	1.04	0.87		
8	1.15	1.15	1.20	7.00	3.19	2.80	7.00	2.06	1.49	1.15	1.04	0.87		
9	1.09	1.09	1.20	7.00	3.62	2.54	1.77	1.87	1.49	1.15	1.04	0.87		
10	1.09	1.09	1.20	6.43	3.19	2.54	2.54	1.87	1.49	1.15	1.04	0.87		
11	1.09	1.09	1.30	5.48	3.19	2.41	2.41	1.87	1.39	1.15	1.04	0.87		
12	1.09	1.09	1.30	4.94	3.19	2.41	1.87	1.87	1.39	1.15	1.04	0.87		
13	1.09	1.09	1.87	3.95	5.86	2.41	1.68	1.87	1.39	1.15	1.04	0.87		
14	1.15	1.15	1.58	1.39	3.95	2.54	1.68	1.87	1.39	1.15	1.04	0.87		
15	1.15	1.09	1.49	1.30	3.32	2.80	1.68	1.77	1.39	1.09	1.04	0.87		
16	1.15	1.09	1.30	1.30	3.19	2.06	1.58	1.77	1.39	1.09	1.04	0.87		
17	1.09	1.15	1.30	1.30	3.19	2.06	1.49	1.77	1.30	1.09	1.04	0.87		
18	1.09	1.15	1.30	1.77	3.32	2.06	1.39	1.77	1.30	1.09	0.93	0.87		
19	1.09	1.15	1.30	1.49	3.19	2.06	1.39	1.68	1.30	1.09	0.93	0.87		
20	1.09	1.09	1.20	1.49	3.19	1.96	1.39	1.68	1.30	1.09	0.93	0.87		
21	1.09	2.54	1.20	1.58	3.78	1.87	1.39	1.68	1.30	1.09	0.93	1.09		
22	1.09	1.30	1.20	1.58	3.06	1.87	1.39	1.68	1.30	1.09	0.93	1.09		
23	1.04	1.20	1.30	1.49	3.45	1.96	3.06	1.68	1.20	1.09	0.93	1.09		
24	1.04	1.20	1.30	2.41	3.62	1.87	3.62	1.68	1.20	1.09	0.87	1.09		
25	1.09	1.39	1.20	4.11	2.54	1.77	2.15	1.68	1.20	1.09	0.87	1.09		
26	3.32	1.15	1.20	3.32	2.41	1.68	1.96	1.68	1.20	1.09	0.87	1.04		
27	1.20	1.20	1.20	2.80	3.45	1.68	2.67	1.58	1.20	1.09	0.87	1.04		
28	1.09	1.20	1.15	2.54	3.62	1.58	2.41	1.58	1.20	1.09	0.87	1.04		
29	1.09	1.15	1.39	3.19	2.93	1.58	2.06	1.58	1.15	1.09		1.04		
30	1.15	1.09	1.20	2.80	2.28	1.58	1.96	1.58	0.53	1.09		1.04		
31		1.09		2.54	1.96		1.96		1.15	1.09		1.04		
Total	35.60	41.30	38.12	106.01	111.25	75.58	64.44	60.94	41.70	34.63	27.86	29.09	666.52	CMSDAY
Mean	1.19	1.33	1.27	3.42	3.59	2.52	2.08	2.03	1.35	1.12	0.99	0.94	1.83	CMS
Max	3.32	3.78	1.87	7.00	8.15	7.92	7.00	6.62	1.58	1.15	1.09	1.09	8.15	CMS
Min	1.04	1.09	1.09	1.20	1.96	1.58	1.39	1.58	0.53	1.09	0.87	0.87	0.53	CMS
Runoff	3.08	3.57	3.29	9.16	9.61	6.53	5.57	5.27	3.60	2.99	2.41	2.51	57.59	MCM

Momentary Peak 35.50 CMS. at 463.55 m. (MSL.) at 15.00 Hours , on Aug 1, 2008

Runoff Yield 37.27 Liters/Second/Square KM. Momentary Peak Yield 724.49 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1994 to date
Rating Operation	
Period of Rating	1994 to date
Rated by Float	-
Rated by Current Meter	1994 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Mae Lao weir situated about 10 kilometers above gage site. Stage-discharge relation defined by 32 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

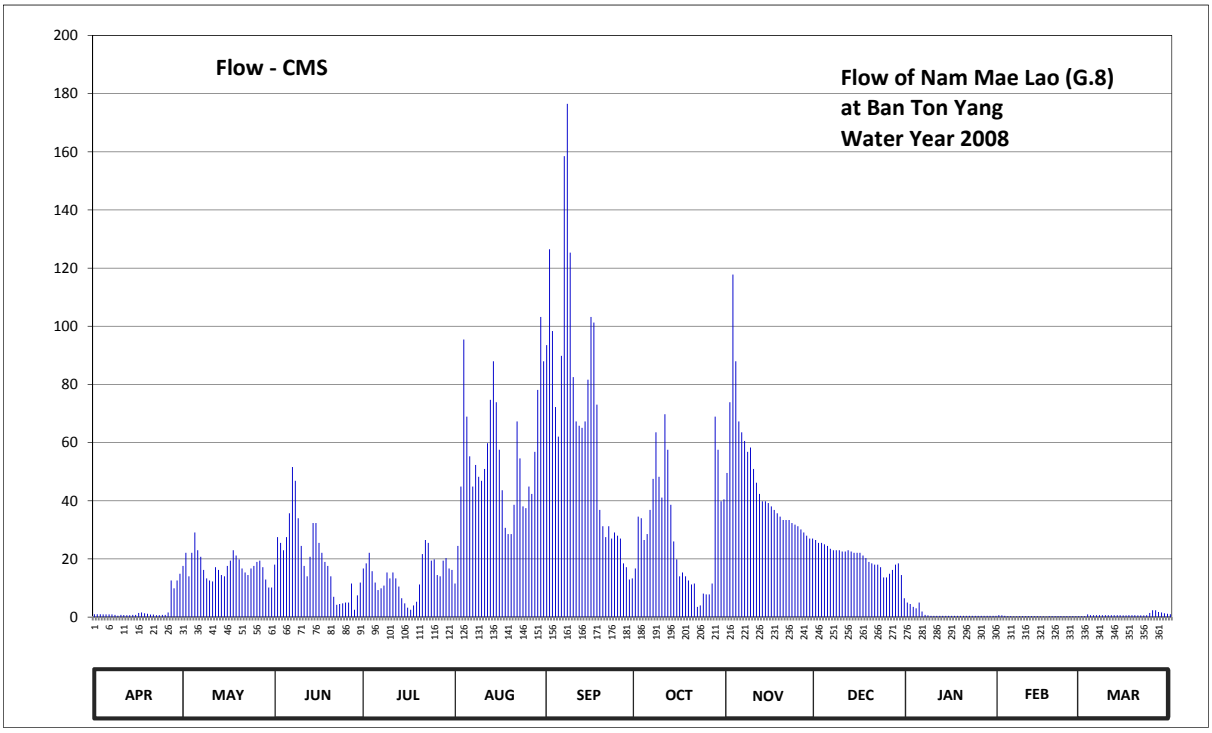
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	405.10	405.68	405.69	405.66	405.53	406.80	405.66	406.26	405.87	405.30	405.05	405.00	
2	405.10	405.78	405.89	405.70	405.83	407.12	406.02	406.58	405.85	405.28	405.04	405.00	
3	405.10	405.60	405.85	405.78	406.19	406.85	406.01	407.04	405.85	405.24	405.02	405.09	
4	405.09	405.78	405.80	405.64	406.82	406.56	405.87	406.74	405.84	405.22	405.00	405.05	
5	405.09	405.92	405.89	405.54	406.52	406.43	405.91	406.50	405.83	405.30	405.00	405.05	
6	405.09	405.80	406.04	405.46	406.34	406.76	406.06	406.45	405.81	405.16	404.99	405.05	
7	405.09	405.75	406.29	405.48	406.19	407.40	406.23	406.41	405.80	405.07	404.99	405.05	
8	405.07	405.65	406.22	405.51	406.30	407.55	406.45	406.36	405.80	405.04	405.00	405.05	
9	405.03	405.58	406.01	405.63	406.24	407.11	406.24	406.38	405.80	405.02	405.00	405.05	
10	405.07	405.56	405.83	405.58	406.22	406.68	406.13	406.28	405.79	405.02	405.00	405.05	
11	405.06	405.55	405.68	405.63	406.28	406.50	406.53	406.21	405.79	405.02	405.00	405.05	
12	405.05	405.67	405.60	405.58	406.40	406.48	406.37	406.15	405.80	405.02	405.00	405.05	
13	405.05	405.65	405.75	405.50	406.59	406.47	406.09	406.11	405.79	405.02	405.00	405.05	
14	405.07	405.61	405.98	405.36	406.74	406.50	405.86	406.11	405.78	405.02	405.00	405.05	
15	405.07	405.60	405.98	405.29	406.58	406.67	405.73	406.10	405.78	405.02	404.99	405.04	
16	405.13	405.68	405.85	405.23	406.37	406.90	405.60	406.08	405.78	405.02	404.99	405.04	
17	405.14	405.72	405.78	405.20	406.17	406.88	405.63	406.06	405.76	405.02	404.98	405.05	
18	405.12	405.80	405.71	405.26	405.95	406.57	405.60	406.04	405.74	405.02	405.00	405.05	
19	405.11	405.76	405.68	405.31	405.91	406.06	405.56	406.02	405.71	405.02	405.00	405.05	
20	405.08	405.73	405.60	405.52	405.91	405.96	405.52	406.00	405.70	405.02	405.00	405.04	
21	405.08	405.66	405.38	405.77	406.09	405.89	405.53	406.00	405.69	405.02	405.00	405.04	
22	405.05	405.63	405.27	405.87	406.50	405.96	405.24	406.00	405.69	405.02	405.00	405.04	
23	405.05	405.61	405.28	405.85	406.33	405.88	405.26	405.98	405.67	405.02	405.00	405.05	
24	405.07	405.66	405.29	405.72	406.08	405.92	405.42	405.97	405.59	405.02	405.00	405.13	
25	405.07	405.68	405.30	405.73	406.07	405.90	405.41	405.96	405.59	405.02	405.00	405.19	
26	405.14	405.71	405.30	405.61	406.19	405.88	405.41	405.94	405.62	405.02	405.00	405.19	
27	405.56	405.72	405.53	405.60	406.15	405.70	405.53	405.92	405.65	405.02	405.00	405.15	
28	405.48	405.67	405.20	405.72	406.36	405.67	406.52	405.90	405.69	405.02	405.00	405.14	
29	405.56	405.57	405.40	405.74	406.63	405.57	406.37	405.88	405.70	405.02		405.12	
30	405.62	405.49	405.54	405.66	406.90	405.58	406.11	405.88	405.61	405.02		405.11	
31		405.49		405.65	406.74		406.12		405.36	405.02		405.10	
Mean	405.15	405.67	405.69	405.57	406.29	406.41	405.87	406.18	405.73	405.07	405.00	405.07	
Max	405.62	405.92	406.29	405.87	406.90	407.55	406.53	407.04	405.87	405.30	405.05	405.19	407.55
Min	405.03	405.49	405.20	405.20	405.53	405.57	405.24	405.88	405.36	405.02	404.98	405.00	404.98

Annual Max Momentary Gage Height 407.65 m. (MSL.) , at 03.00 Hours , on Sep 8, 2008

Zero Gage at Bottom Elevation 405.10 m. (MSL.) , River Bed 404.66 m. (MSL.)

Left Bank Elevation 410.61 m. (MSL.) ,

Right Bank Elevation 410.58 m. (MSL.) , Drainage Are 2,909 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.00	17.60	18.05	16.70	11.55	93.50	16.70	49.58	26.50	5.00	0.65	0.30		
2	1.00	22.10	27.50	18.50	24.50	126.46	34.56	73.86	25.50	4.50	0.58	0.30		
3	1.00	14.00	25.50	22.10	44.87	98.35	33.98	117.78	25.50	3.50	0.44	0.93		
4	0.93	22.10	23.00	15.80	95.44	72.22	26.50	87.98	25.00	3.00	0.30	0.65		
5	0.93	29.08	27.50	11.90	68.94	62.05	28.54	67.30	24.50	5.00	0.30	0.65		
6	0.93	23.00	35.72	9.30	55.30	89.82	36.88	63.55	23.50	1.90	0.27	0.65		
7	0.93	20.75	51.62	9.90	44.87	158.50	47.54	60.55	23.00	0.79	0.27	0.65		
8	0.79	16.25	46.86	10.85	52.30	176.50	63.55	56.80	23.00	0.58	0.30	0.65		
9	0.51	13.30	33.98	15.35	48.22	125.33	48.22	58.30	23.00	0.44	0.30	0.65		
10	0.79	12.60	24.50	13.30	46.86	82.54	41.09	50.94	22.55	0.44	0.30	0.65		
11	0.72	12.25	17.60	15.35	50.94	67.30	69.76	46.18	22.55	0.44	0.30	0.65		
12	0.65	17.15	14.00	13.30	59.80	65.80	57.55	42.35	23.00	0.44	0.30	0.65		
13	0.65	16.25	20.75	10.50	74.68	65.05	38.62	39.83	22.55	0.44	0.30	0.65		
14	0.79	14.45	32.32	6.50	87.98	67.30	26.00	39.83	22.10	0.44	0.30	0.65		
15	0.79	14.00	32.32	4.75	73.86	81.66	19.85	39.20	22.10	0.44	0.27	0.58		
16	1.45	17.60	25.50	3.25	57.55	103.20	14.00	38.04	22.10	0.44	0.27	0.58		
17	1.60	19.40	22.10	2.50	43.61	101.26	15.35	36.88	21.20	0.44	0.24	0.65		
18	1.30	23.00	18.95	4.00	30.70	73.04	14.00	35.72	20.30	0.44	0.30	0.65		
19	1.15	21.20	17.60	5.25	28.54	36.88	12.60	34.56	18.95	0.44	0.30	0.65		
20	0.86	19.85	14.00	11.20	28.54	31.24	11.20	33.40	18.50	0.44	0.30	0.58		
21	0.86	16.70	7.00	21.65	38.62	27.50	11.55	33.40	18.05	0.44	0.30	0.58		
22	0.65	15.35	4.25	26.50	67.30	31.24	3.50	33.40	18.05	0.44	0.30	0.58		
23	0.65	14.45	4.50	25.50	54.55	27.00	4.00	32.32	17.15	0.44	0.30	0.65		
24	0.79	16.70	4.75	19.40	38.04	29.08	8.10	31.78	13.65	0.44	0.30	1.45		
25	0.79	17.60	5.00	19.85	37.46	28.00	7.80	31.24	13.65	0.44	0.30	2.35		
26	1.60	18.95	5.00	14.45	44.87	27.00	7.80	30.16	14.90	0.44	0.30	2.35		
27	12.60	19.40	11.55	14.00	42.35	18.50	11.55	29.08	16.25	0.44	0.30	1.75		
28	9.90	17.15	2.50	19.40	56.80	17.15	68.94	28.00	18.05	0.44	0.30	1.60		
29	12.60	12.95	7.50	20.30	78.14	12.95	57.55	27.00	18.50	0.44		1.30		
30	14.90	10.20	11.90	16.70	103.20	13.30	39.83	27.00	14.45	0.44		1.15		
31		10.20		16.25	87.98		40.46		6.50	0.44		1.00		
Total	74.11	535.58	593.32	434.30	1678.36	2009.72	917.57	1376.01	624.60	34.39	8.99	27.13	8314.08	CMSDAY
Mean	2.47	17.28	19.78	14.01	54.14	66.99	29.60	45.87	20.15	1.11	0.32	0.88	22.78	CMS
Max	14.90	29.08	51.62	26.50	103.20	176.50	69.76	117.78	26.50	5.00	0.65	2.35	176.50	CMS
Min	0.51	10.20	2.50	2.50	11.55	12.95	3.50	27.00	6.50	0.44	0.24	0.30	0.24	CMS
Runoff	6.40	46.27	51.26	37.52	145.01	173.64	79.28	118.89	53.97	2.97	0.78	2.34	718.34	MCM

Momentary Peak 188.75 CMS. at 407.65 m. (MSL.) at 03.00 Hours , on Sep 8, 2008

Runoff Yield 7.83 Liters/Second/Square KM. Momentary Peak Yield 64.88 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Float	-		
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 29 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

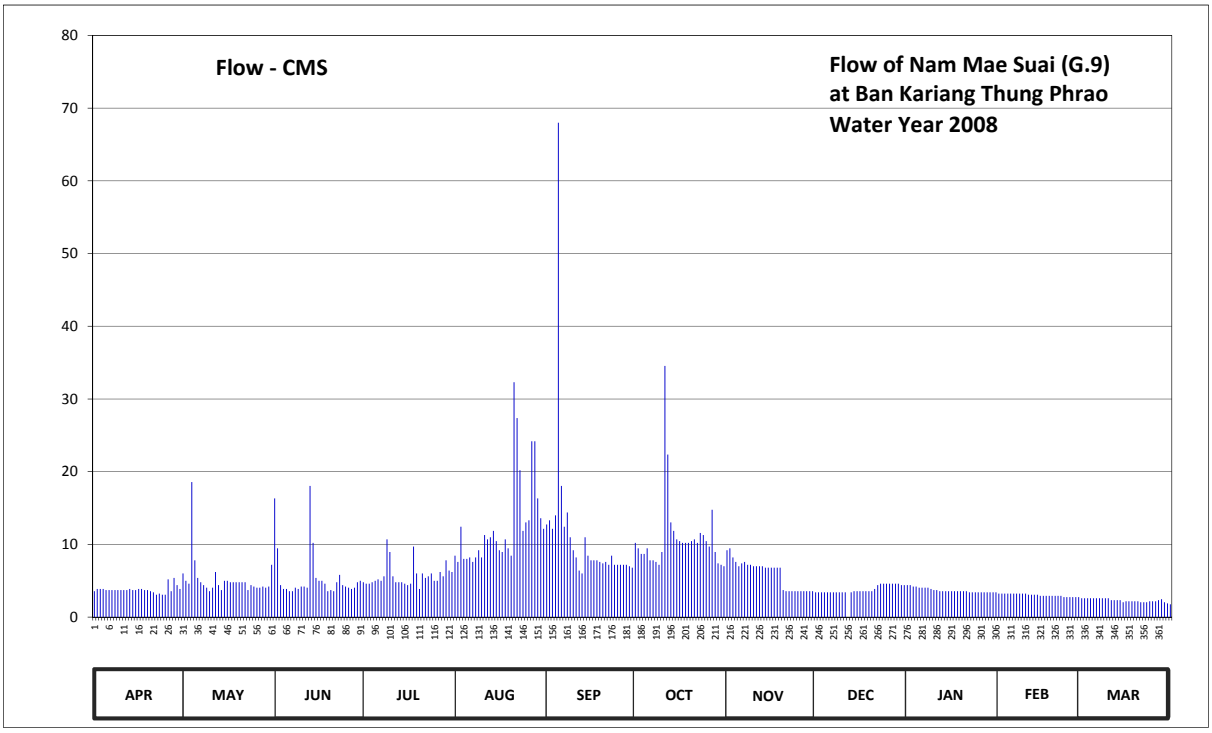
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	515.56	515.69	516.07	515.63	515.81	515.97	515.88	515.84	515.55	515.61	515.54	515.50	
2	515.58	515.64	515.85	515.62	515.77	515.99	515.85	515.85	515.55	515.61	515.54	515.50	
3	515.58	515.62	515.61	515.62	515.96	515.95	515.82	515.80	515.55	515.60	515.54	515.50	
4	515.58	516.12	515.58	515.63	515.79	516.01	515.82	515.77	515.55	515.60	515.54	515.50	
5	515.57	515.78	515.58	515.64	515.79	516.70	515.85	515.74	515.55	515.59	515.54	515.50	
6	515.57	515.66	515.56	515.65	515.80	516.11	515.78	515.76	515.55	515.59	515.54	515.50	
7	515.57	515.63	515.56	515.64	515.77	515.96	515.78	515.77	515.55	515.59	515.54	515.50	
8	515.57	515.61	515.59	515.67	515.80	516.02	515.77	515.75	515.55	515.59	515.54	515.50	
9	515.57	515.59	515.58	515.90	515.84	515.91	515.75	515.75	515.55	515.58	515.54	515.50	
10	515.57	515.56	515.60	515.83	515.80	515.84	515.83	515.74	515.55	515.57	515.54	515.50	
11	515.57	515.59	515.60	515.67	515.92	515.80	516.37	515.74	515.55	515.57	515.53	515.48	
12	515.57	515.70	515.59	515.63	515.90	515.71	516.19	515.74	515.25	515.56	515.53	515.48	
13	515.58	515.61	516.11	515.63	515.91	515.69	515.98	515.74	515.55	515.56	515.53	515.48	
14	515.57	515.57	515.88	515.63	515.94	515.91	515.94	515.73	515.56	515.56	515.53	515.48	
15	515.57	515.64	515.66	515.62	515.89	515.81	515.90	515.73	515.56	515.56	515.52	515.46	
16	515.58	515.64	515.64	515.61	515.84	515.78	515.89	515.73	515.56	515.56	515.52	515.47	
17	515.58	515.63	515.64	515.62	515.83	515.78	515.88	515.73	515.56	515.56	515.52	515.47	
18	515.57	515.63	515.62	515.86	515.90	515.78	515.88	515.73	515.56	515.56	515.52	515.47	
19	515.57	515.63	515.56	515.69	515.85	515.77	515.88	515.73	515.56	515.56	515.52	515.47	
20	515.56	515.63	515.57	515.58	515.81	515.76	515.89	515.57	515.56	515.56	515.52	515.47	
21	515.55	515.63	515.56	515.69	516.34	515.77	515.90	515.56	515.58	515.56	515.52	515.46	
22	515.53	515.63	515.63	515.66	516.27	515.75	515.88	515.56	515.61	515.55	515.52	515.46	
23	515.54	515.57	515.68	515.67	516.15	515.81	515.93	515.56	515.62	515.55	515.51	515.46	
24	515.53	515.61	515.61	515.69	515.94	515.75	515.92	515.56	515.62	515.55	515.51	515.47	
25	515.53	515.60	515.60	515.64	515.98	515.75	515.89	515.56	515.62	515.55	515.51	515.47	
26	515.65	515.59	515.59	515.64	515.99	515.75	515.86	515.56	515.62	515.55	515.51	515.47	
27	515.56	515.59	515.58	515.70	516.22	515.75	516.03	515.56	515.62	515.55	515.51	515.48	
28	515.66	515.60	515.59	515.67	516.22	515.75	515.83	515.56	515.62	515.55	515.51	515.49	
29	515.61	515.59	515.63	515.78	516.07	515.74	515.76	515.56	515.62	515.55		515.46	
30	515.58	515.60	515.64	515.71	516.00	515.73	515.75	515.56	515.61	515.55		515.45	
31		515.75		515.70	515.95		515.74		515.61	515.55		515.44	
Mean	515.57	515.64	515.65	515.67	515.94	515.86	515.88	515.68	515.57	515.57	515.53	515.48	
Max	515.66	516.12	516.11	515.90	516.34	516.70	516.37	515.85	515.62	515.61	515.54	515.50	516.70
Min	515.53	515.56	515.56	515.58	515.77	515.69	515.74	515.56	515.25	515.55	515.51	515.44	515.25

Annual Max Momentary Gage Height 516.96 m. (MSL.) , at 10.00 Hours , on Aug 21 , 2008

Zero Gage at Bottom Elevation 514.66 m. (MSL.) , River Bed 515.08 m. (MSL.)

Left Bank Elevation 521.60 m. (MSL.) ,

Right Bank Elevation 521.61 m. (MSL.) , Drainage Are 386 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.56	6.00	16.33	4.80	8.45	12.73	10.20	9.20	3.40	4.40	3.24	2.60		
2	3.88	5.00	9.45	4.60	7.60	13.31	9.45	9.45	3.40	4.40	3.24	2.60		
3	3.88	4.60	4.40	4.60	12.44	12.15	8.70	8.20	3.40	4.20	3.24	2.60		
4	3.88	18.58	3.88	4.80	8.00	13.99	8.70	7.60	3.40	4.20	3.24	2.60		
5	3.72	7.80	3.88	5.00	8.00	68.00	9.45	7.00	3.40	4.04	3.24	2.60		
6	3.72	5.40	3.56	5.20	8.20	18.04	7.80	7.40	3.40	4.04	3.24	2.60		
7	3.72	4.80	3.56	5.00	7.60	12.44	7.80	7.60	3.40	4.04	3.24	2.60		
8	3.72	4.40	4.04	5.60	8.20	14.38	7.60	7.20	3.40	4.04	3.24	2.60		
9	3.72	4.04	3.88	10.70	9.20	10.99	7.20	7.20	3.40	3.88	3.24	2.60		
10	3.72	3.56	4.20	8.95	8.20	9.20	8.95	7.00	3.40	3.72	3.24	2.60		
11	3.72	4.04	4.20	5.60	11.28	8.20	34.55	7.00	3.40	3.72	3.08	2.32		
12	3.72	6.20	4.04	4.80	10.70	6.40	22.36	7.00	0.00	3.56	3.08	2.32		
13	3.88	4.40	18.04	4.80	10.99	6.00	13.02	7.00	3.40	3.56	3.08	2.32		
14	3.72	3.72	10.20	4.80	11.86	10.99	11.86	6.80	3.56	3.56	3.08	2.32		
15	3.72	5.00	5.40	4.60	10.45	8.45	10.70	6.80	3.56	3.56	2.92	2.04		
16	3.88	5.00	5.00	4.40	9.20	7.80	10.45	6.80	3.56	3.56	2.92	2.18		
17	3.88	4.80	5.00	4.60	8.95	7.80	10.20	6.80	3.56	3.56	2.92	2.18		
18	3.72	4.80	4.60	9.70	10.70	7.80	10.20	6.80	3.56	3.56	2.92	2.18		
19	3.72	4.80	3.56	6.00	9.45	7.60	10.20	6.80	3.56	3.56	2.92	2.18		
20	3.56	4.80	3.72	3.88	8.45	7.40	10.45	3.72	3.56	3.56	2.92	2.18		
21	3.40	4.80	3.56	6.00	32.30	7.60	10.70	3.56	3.88	3.56	2.92	2.04		
22	3.08	4.80	4.80	5.40	27.38	7.20	10.20	3.56	4.40	3.40	2.92	2.04		
23	3.24	3.72	5.80	5.60	20.20	8.45	11.57	3.56	4.60	3.40	2.76	2.04		
24	3.08	4.40	4.40	6.00	11.86	7.20	11.28	3.56	4.60	3.40	2.76	2.18		
25	3.08	4.20	4.20	5.00	13.02	7.20	10.45	3.56	4.60	3.40	2.76	2.18		
26	5.20	4.04	4.04	5.00	13.31	7.20	9.70	3.56	4.60	3.40	2.76	2.18		
27	3.56	4.04	3.88	6.20	24.18	7.20	14.77	3.56	4.60	3.40	2.76	2.32		
28	5.40	4.20	4.04	5.60	24.18	7.20	8.95	3.56	4.60	3.40	2.76	2.46		
29	4.40	4.04	4.80	7.80	16.33	7.00	7.40	3.56	4.60	3.40		2.04		
30	3.88	4.20	5.00	6.40	13.60	6.80	7.20	3.56	4.40	3.40		1.90		
31		7.20		6.20	12.15		7.00		4.40	3.40		1.76		
Total	113.36	161.38	165.46	177.63	396.43	336.72	339.06	178.97	115.00	114.28	84.64	71.36	2254.29	CMSDAY
Mean	3.78	5.21	5.52	5.73	12.79	11.22	10.94	5.97	3.71	3.69	3.02	2.30	6.18	CMS
Max	5.40	18.58	18.04	10.70	32.30	68.00	34.55	9.45	4.60	4.40	3.24	2.60	68.00	CMS
Min	3.08	3.56	3.56	3.88	7.60	6.00	7.00	3.56	0.00	3.40	2.76	1.76	0.00	CMS
Runoff	9.79	13.94	14.30	15.35	34.25	29.09	29.29	15.46	9.94	9.87	7.31	6.17	194.77	MCM

Momentary Peak 108.12 CMS. at 516.96 m. (MSL.) at 10.00 Hours , on Aug 21, 2008

Runoff Yield 16.00 Liters/Second/Square KM. Momentary Peak Yield 280.10 Liters/Second/Square KM.

WATER YEAR : 2008

NAM MAE KOK RIVER BASIN

Nam Mae Lao at Ban Pong Phu Phuang , Chiang Rai (G.10)

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

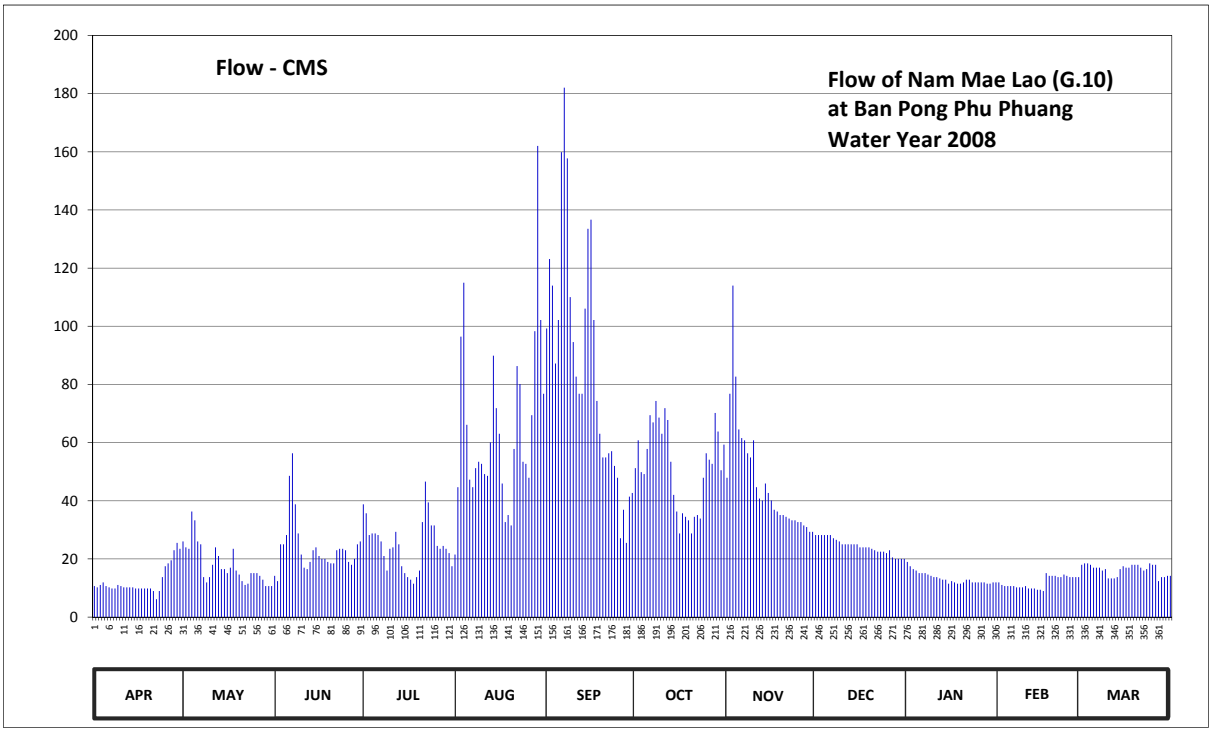
Location : on right bank at Ban Pong Phu Phuang.

	Ban Pong Phu Phuang	**Amphoe** Mae Suai	**Changwat** Chiang Rai		
Drainge Area	2,614 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 at the abutment of the bridge.		**Elevation** +5.000 m. (A.D.)		
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings				
Period of Available Gage Records	2003 to date				
Rating Operation					
Period of Rating	2003 to date				
Rated by Float	-				
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 29 discharge measurements made in 2008.				

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.28	0.60	0.36	0.82	0.51	1.59	1.01	0.96	0.64	0.46	0.31	0.44	
2	0.27	0.56	0.32	0.77	0.91	1.83	1.14	1.34	0.64	0.43	0.29	0.45	
3	0.29	0.55	0.58	0.64	1.56	1.74	0.99	1.74	0.64	0.41	0.28	0.45	
4	0.31	0.78	0.58	0.65	1.75	1.46	0.98	1.41	0.64	0.40	0.28	0.44	
5	0.28	0.73	0.64	0.65	1.21	1.62	1.10	1.19	0.64	0.38	0.28	0.42	
6	0.27	0.60	0.97	0.64	0.95	2.18	1.25	1.15	0.64	0.38	0.28	0.42	
7	0.26	0.58	1.08	0.60	0.91	2.38	1.22	1.14	0.62	0.38	0.27	0.42	
8	0.26	0.35	0.82	0.50	1.01	2.16	1.31	1.08	0.61	0.37	0.27	0.40	
9	0.29	0.31	0.65	0.40	1.04	1.70	1.24	1.06	0.60	0.36	0.27	0.41	
10	0.28	0.35	0.51	0.55	1.03	1.54	1.17	1.14	0.58	0.35	0.28	0.34	
11	0.27	0.44	0.42	0.56	0.98	1.41	1.28	0.91	0.58	0.35	0.26	0.34	
12	0.27	0.56	0.41	0.66	0.97	1.34	1.23	0.85	0.58	0.34	0.26	0.34	
13	0.27	0.50	0.46	0.58	1.13	1.34	1.04	0.84	0.58	0.33	0.26	0.35	
14	0.27	0.41	0.54	0.43	1.49	1.66	0.87	0.93	0.58	0.33	0.25	0.41	
15	0.26	0.41	0.56	0.38	1.28	1.93	0.78	0.88	0.58	0.30	0.25	0.43	
16	0.26	0.38	0.50	0.35	1.17	1.96	0.65	0.84	0.56	0.32	0.24	0.42	
17	0.26	0.42	0.48	0.33	0.93	1.62	0.77	0.79	0.56	0.31	0.38	0.42	
18	0.26	0.55	0.48	0.30	0.72	1.31	0.75	0.78	0.56	0.30	0.36	0.44	
19	0.26	0.40	0.46	0.35	0.76	1.17	0.73	0.76	0.56	0.30	0.36	0.44	
20	0.26	0.37	0.45	0.40	0.70	1.06	0.65	0.76	0.55	0.31	0.36	0.44	
21	0.24	0.32	0.45	0.72	1.10	1.06	0.75	0.75	0.54	0.33	0.35	0.42	
22	0.17	0.29	0.54	0.94	1.45	1.08	0.76	0.74	0.53	0.33	0.35	0.40	
23	0.24	0.30	0.55	0.83	1.38	1.09	0.74	0.73	0.53	0.31	0.37	0.41	
24	0.35	0.38	0.55	0.70	1.04	1.02	0.96	0.73	0.53	0.31	0.36	0.45	
25	0.43	0.38	0.54	0.70	1.03	0.96	1.08	0.72	0.52	0.31	0.35	0.44	
26	0.45	0.38	0.46	0.57	0.96	0.62	1.05	0.72	0.54	0.31	0.35	0.44	
27	0.47	0.36	0.44	0.55	1.25	0.79	1.03	0.70	0.49	0.31	0.35	0.32	
28	0.54	0.33	0.48	0.57	1.58	0.59	1.26	0.69	0.48	0.30	0.35	0.35	
29	0.59	0.28	0.58	0.55	2.20	0.86	1.18	0.66	0.48	0.30		0.35	
30	0.55	0.28	0.60	0.52	1.62	0.88	1.00	0.66	0.48	0.31		0.36	
31		0.28		0.43	1.34		1.12		0.48	0.31		0.36	
Mean	0.32	0.43	0.55	0.57	1.16	1.40	1.00	0.92	0.57	0.34	0.31	0.40	
Max	0.59	0.78	1.08	0.94	2.20	2.38	1.31	1.74	0.64	0.46	0.38	0.45	2.38
Min	0.17	0.28	0.32	0.30	0.51	0.59	0.65	0.66	0.48	0.30	0.24	0.32	0.17

Annual Max Momentary Gage Height	2.44	m. (A.D.) ,	at 06.00 Hours , on Sep 7, 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	-1.69	m. (A.D.)
Left Bank Elevation	5.47	m. (A.D.) ,			
Right Bank Elevation	5.44	m. (A.D.) ,	Drainage Are	2,614	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.66	26.00	14.20	38.80	21.50	99.26	51.23	47.90	28.20	19.00	11.95	18.00		
2	10.24	24.00	12.40	35.70	44.65	123.12	60.80	76.82	28.20	17.50	11.08	18.50		
3	11.08	23.50	25.00	28.20	96.44	114.00	49.85	114.00	28.20	16.50	10.66	18.50		
4	11.95	36.30	25.00	28.75	115.00	87.20	49.20	82.70	28.20	16.00	10.66	18.00		
5	10.66	33.30	28.20	28.75	66.12	102.16	57.80	64.55	28.20	15.10	10.66	17.00		
6	10.24	26.00	48.55	28.20	47.25	159.86	69.40	61.55	28.20	15.10	10.66	17.00		
7	9.82	25.00	56.34	26.00	44.65	182.04	66.94	60.80	27.10	15.10	10.24	17.00		
8	9.82	13.75	38.80	21.00	51.23	157.72	74.33	56.34	26.55	14.65	10.24	16.00		
9	11.08	11.95	28.75	16.00	53.42	110.00	68.58	54.88	26.00	14.20	10.24	16.50		
10	10.66	13.75	21.50	23.50	52.69	94.56	63.05	60.80	25.00	13.75	10.66	13.30		
11	10.24	18.00	17.00	24.00	49.20	82.70	71.86	44.65	25.00	13.75	9.82	13.30		
12	10.24	24.00	16.50	29.30	48.55	76.82	67.76	40.75	25.00	13.30	9.82	13.30		
13	10.24	21.00	19.00	25.00	60.05	76.82	53.42	40.10	25.00	12.85	9.82	13.75		
14	10.24	16.50	23.00	17.50	89.90	106.08	42.05	45.95	25.00	12.85	9.40	16.50		
15	9.82	16.50	24.00	15.10	71.86	133.52	36.30	42.70	25.00	11.50	9.40	17.50		
16	9.82	15.10	21.00	13.75	63.05	136.64	28.75	40.10	24.00	12.40	8.98	17.00		
17	9.82	17.00	20.00	12.85	45.95	102.16	35.70	36.90	24.00	11.95	15.10	17.00		
18	9.82	23.50	20.00	11.50	32.70	74.33	34.50	36.30	24.00	11.50	14.20	18.00		
19	9.82	16.00	19.00	13.75	35.10	63.05	33.30	35.10	24.00	11.50	14.20	18.00		
20	9.82	14.65	18.50	16.00	31.50	54.88	28.75	35.10	23.50	11.95	14.20	18.00		
21	8.98	12.40	18.50	32.70	57.80	54.88	34.50	34.50	23.00	12.85	13.75	17.00		
22	6.16	11.08	23.00	46.60	86.30	56.34	35.10	33.90	22.50	12.85	13.75	16.00		
23	8.98	11.50	23.50	39.45	80.14	57.07	33.90	33.30	22.50	11.95	14.65	16.50		
24	13.75	15.10	23.50	31.50	53.42	51.96	47.90	33.30	22.50	11.95	14.20	18.50		
25	17.50	15.10	23.00	31.50	52.69	47.90	56.34	32.70	22.00	11.95	13.75	18.00		
26	18.50	15.10	19.00	24.50	47.90	27.10	54.15	32.70	23.00	11.95	13.75	18.00		
27	19.50	14.20	18.00	23.50	69.40	36.90	52.69	31.50	20.50	11.95	13.75	12.40		
28	23.00	12.85	20.00	24.50	98.32	25.50	70.22	30.95	20.00	11.50	13.75	13.75		
29	25.50	10.66	25.00	23.50	162.00	41.40	63.80	29.30	20.00	11.50		13.75		
30	23.50	10.66	26.00	22.00	102.16	42.70	50.50	29.30	20.00	11.95		14.20		
31		10.66		17.50	76.82		59.30		20.00	11.95		14.20		
Total	371.46	555.11	716.24	770.90	2007.76	2578.67	1601.97	1399.44	754.35	412.80	333.34	504.45	12006.49	CMSDAY
Mean	12.38	17.91	23.87	24.87	64.77	85.96	51.68	46.65	24.33	13.32	11.90	16.27	32.89	CMS
Max	25.50	36.30	56.34	46.60	162.00	182.04	74.33	114.00	28.20	19.00	15.10	18.50	182.04	CMS
Min	6.16	10.66	12.40	11.50	21.50	25.50	28.75	29.30	20.00	11.50	8.98	12.40	6.16	CMS
Runoff	32.09	47.96	61.88	66.61	173.47	222.80	138.41	120.91	65.18	35.67	28.80	43.58	1037.36	MCM

Momentary Peak 188.90 CMS. at 2.44 m. (A.D.) at 06.00 Hours , on Sep 7, 2008

Runoff Yield 12.58 Liters/Second/Square KM. Momentary Peak Yield 72.26 Liters/Second/Square KM.

WATER YEAR : 2008

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

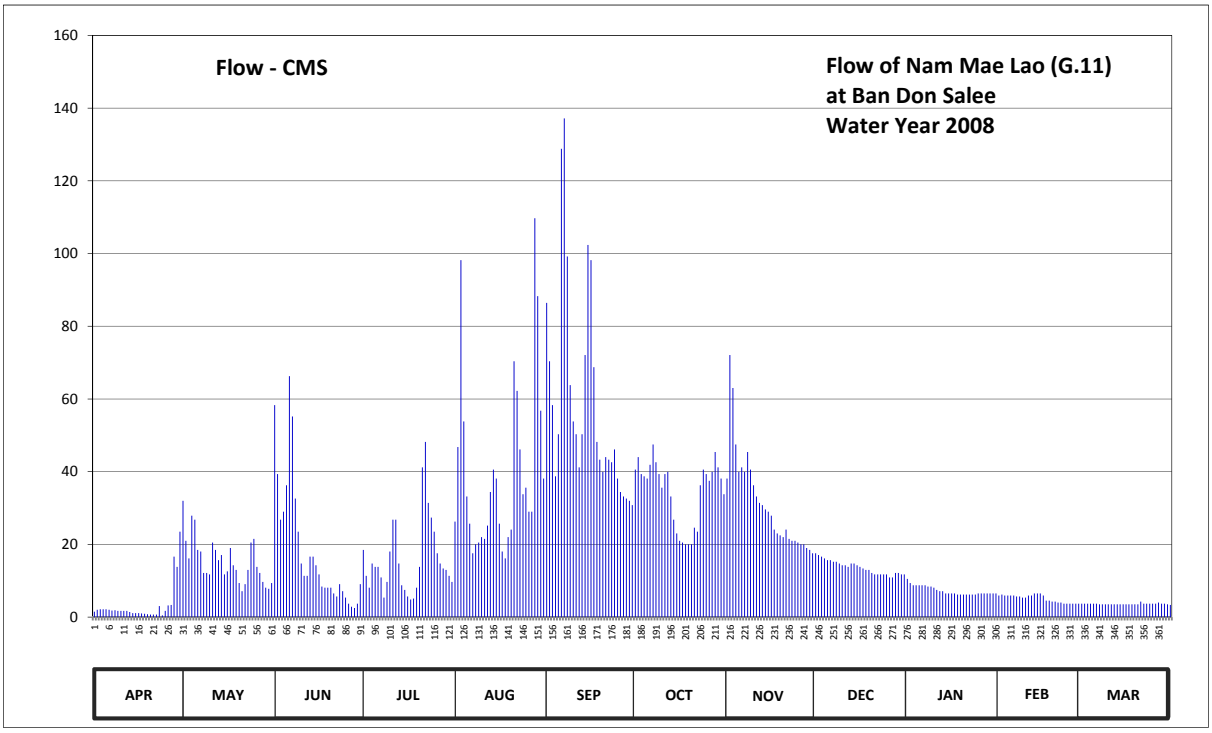
Location : on left bank at Ban Salee.

	Ban Don Salee	**Amphoe** Mae Suai	**Changwat** Chiang Rai
Drainge Area	1,918 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** +5.860 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.45	1.25	1.64	1.00	1.15	1.97	1.39	1.35	0.98	0.82	0.68	0.60	
2	0.50	1.05	1.37	0.84	1.48	1.79	1.44	1.81	0.97	0.79	0.69	0.60	
3	0.51	0.95	1.16	0.75	2.09	1.64	1.37	1.70	0.96	0.77	0.68	0.60	
4	0.51	1.18	1.20	0.92	1.58	1.36	1.36	1.49	0.95	0.77	0.68	0.60	
5	0.51	1.16	1.32	0.90	1.27	1.53	1.35	1.38	0.94	0.77	0.68	0.60	
6	0.50	1.00	1.74	0.90	1.14	2.37	1.41	1.40	0.94	0.77	0.68	0.60	
7	0.48	0.99	1.60	0.83	0.98	2.44	1.49	1.38	0.93	0.77	0.67	0.59	
8	0.49	0.86	1.26	0.66	1.03	2.10	1.42	1.46	0.93	0.76	0.67	0.59	
9	0.47	0.86	1.10	0.80	1.04	1.71	1.37	1.39	0.92	0.76	0.66	0.59	
10	0.47	0.85	0.92	0.99	1.07	1.58	1.31	1.32	0.91	0.75	0.66	0.59	
11	0.47	1.04	0.84	1.16	1.06	1.53	1.37	1.27	0.91	0.73	0.68	0.59	
12	0.47	1.00	0.84	1.16	1.13	1.40	1.38	1.24	0.90	0.72	0.68	0.59	
13	0.44	0.94	0.96	0.92	1.29	1.53	1.27	1.23	0.92	0.72	0.70	0.59	
14	0.41	0.97	0.96	0.77	1.39	1.81	1.16	1.21	0.92	0.70	0.70	0.59	
15	0.41	0.85	0.91	0.73	1.35	2.13	1.09	1.20	0.91	0.70	0.70	0.59	
16	0.41	0.87	0.85	0.67	1.14	2.09	1.05	1.18	0.90	0.70	0.68	0.59	
17	0.40	1.01	0.76	0.64	0.99	1.77	1.04	1.11	0.89	0.70	0.63	0.59	
18	0.39	0.91	0.75	0.65	0.95	1.50	1.03	1.09	0.88	0.69	0.63	0.59	
19	0.38	0.88	0.75	0.75	1.07	1.43	1.03	1.08	0.88	0.69	0.62	0.59	
20	0.37	0.79	0.75	0.90	1.11	1.38	1.03	1.07	0.86	0.69	0.62	0.59	
21	0.37	0.72	0.70	1.40	1.79	1.44	1.12	1.11	0.85	0.69	0.61	0.62	
22	0.37	0.78	0.67	1.50	1.69	1.43	1.10	1.06	0.85	0.69	0.61	0.60	
23	0.56	0.88	0.78	1.24	1.47	1.42	1.32	1.05	0.85	0.69	0.60	0.60	
24	0.35	1.04	0.72	1.17	1.28	1.47	1.39	1.05	0.85	0.69	0.60	0.60	
25	0.47	1.06	0.66	1.10	1.31	1.35	1.37	1.04	0.85	0.70	0.60	0.60	
26	0.57	0.90	0.60	0.98	1.20	1.29	1.34	1.03	0.83	0.70	0.60	0.60	
27	0.58	0.86	0.55	0.92	1.20	1.27	1.38	1.03	0.83	0.70	0.60	0.61	
28	0.96	0.80	0.53	0.89	2.20	1.26	1.46	1.01	0.86	0.70	0.60	0.60	
29	0.90	0.75	0.60	0.88	1.99	1.25	1.40	1.00	0.86	0.70		0.60	
30	1.10	0.74	0.78	0.84	1.62	1.23	1.35	0.98	0.85	0.70		0.59	
31		0.79		0.80	1.35		1.28		0.85	0.70		0.58	
Mean	0.51	0.93	0.94	0.92	1.34	1.62	1.29	1.22	0.89	0.72	0.65	0.60	
Max	1.10	1.25	1.74	1.50	2.20	2.44	1.49	1.81	0.98	0.82	0.70	0.62	2.44
Min	0.35	0.72	0.53	0.64	0.95	1.23	1.03	0.98	0.83	0.69	0.60	0.58	0.35

Annual Max Momentary Gage Height	2.52	m. (A.D.) ,	at 06.00 Hours , on Sep 7, 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	-0.63	m. (A.D.)
Left Bank Elevation	5.99	m. (A.D.) ,			
Right Bank Elevation	6.05	m. (A.D.) ,	Drainage Are	1,918	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.50	32.00	58.32	18.50	26.25	86.44	40.58	38.10	17.56	10.52	5.94	3.70		
2	2.00	21.00	39.34	11.34	46.80	70.38	44.00	72.08	17.09	9.38	6.22	3.70		
3	2.17	16.15	26.80	8.10	98.20	58.32	39.34	63.00	16.62	8.74	5.94	3.70		
4	2.17	27.90	29.00	14.74	53.80	38.72	38.72	47.50	16.15	8.74	5.94	3.70		
5	2.17	26.80	36.24	13.80	33.20	50.30	38.10	39.96	15.68	8.74	5.94	3.70		
6	2.00	18.50	66.28	13.80	25.70	128.82	41.90	41.20	15.68	8.74	5.94	3.70		
7	1.80	18.03	55.20	10.93	17.56	137.18	47.50	39.96	15.21	8.74	5.66	3.53		
8	1.90	12.16	32.60	5.38	20.00	99.20	42.60	45.40	15.21	8.42	5.66	3.53		
9	1.70	12.16	23.50	9.70	20.50	63.82	39.34	40.58	14.74	8.42	5.38	3.53		
10	1.70	11.75	14.74	18.03	22.00	53.80	35.62	36.24	14.27	8.10	5.38	3.53		
11	1.70	20.50	11.34	26.80	21.50	50.30	39.34	33.20	14.27	7.46	5.94	3.53		
12	1.70	18.50	11.34	26.80	25.15	41.20	39.96	31.40	13.80	7.14	5.94	3.53		
13	1.40	15.68	16.62	14.74	34.40	50.30	33.20	30.80	14.74	7.14	6.50	3.53		
14	1.10	17.09	16.62	8.74	40.58	72.08	26.80	29.60	14.74	6.50	6.50	3.53		
15	1.10	11.75	14.27	7.46	38.10	102.35	23.00	29.00	14.27	6.50	6.50	3.53		
16	1.10	12.57	11.75	5.66	25.70	98.20	21.00	27.90	13.80	6.50	5.94	3.53		
17	1.00	19.00	8.42	4.82	18.03	68.74	20.50	24.05	13.39	6.50	4.54	3.53		
18	0.90	14.27	8.10	5.10	16.15	48.20	20.00	23.00	12.98	6.22	4.54	3.53		
19	0.80	12.98	8.10	8.10	22.00	43.30	20.00	22.50	12.98	6.22	4.26	3.53		
20	0.70	9.38	8.10	13.80	24.05	39.96	20.00	22.00	12.16	6.22	4.26	3.53		
21	0.70	7.14	6.50	41.20	70.38	44.00	24.60	24.05	11.75	6.22	3.98	4.26		
22	0.70	9.06	5.66	48.20	62.22	43.30	23.50	21.50	11.75	6.22	3.98	3.70		
23	3.02	12.98	9.06	31.40	46.10	42.60	36.24	21.00	11.75	6.22	3.70	3.70		
24	0.50	20.50	7.14	27.35	33.80	46.10	40.58	21.00	11.75	6.22	3.70	3.70		
25	1.70	21.50	5.38	23.50	35.62	38.10	39.34	20.50	11.75	6.50	3.70	3.70		
26	3.19	13.80	3.70	17.56	29.00	34.40	37.48	20.00	10.93	6.50	3.70	3.70		
27	3.36	12.16	2.85	14.74	29.00	33.20	39.96	20.00	10.93	6.50	3.70	3.98		
28	16.62	9.70	2.51	13.39	109.70	32.60	45.40	19.00	12.16	6.50	3.70	3.70		
29	13.80	8.10	3.70	12.98	88.28	32.00	41.20	18.50	12.16	6.50		3.70		
30	23.50	7.78	9.06	11.34	56.76	30.80	38.10	17.56	11.75	6.50		3.53		
31		9.38		9.70	38.10		33.80		11.75	6.50		3.36		
Total	97.70	480.27	552.24	497.70	1228.63	1778.71	1071.70	940.58	423.77	225.32	143.08	112.65	7552.35	CMSDAY
Mean	3.26	15.49	18.41	16.05	39.63	59.29	34.57	31.35	13.67	7.27	5.11	3.63	20.69	CMS
Max	23.50	32.00	66.28	48.20	109.70	137.18	47.50	72.08	17.56	10.52	6.50	4.26	137.18	CMS
Min	0.50	7.14	2.51	4.82	16.15	30.80	20.00	17.56	10.93	6.22	3.70	3.36	0.50	CMS
Runoff	8.44	41.50	47.71	43.00	106.15	153.68	92.59	81.27	36.61	19.47	12.36	9.73	652.52	MCM

Momentary Peak 146.94 CMS. at 2.52 m. (A.D.) at 06.00 Hours , on Sep 7, 2008

Runoff Yield 10.79 Liters/Second/Square KM. Momentary Peak Yield 76.61 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	4,207 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+186.070 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In front of the station office. **Elevation** +199.956 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1958 to date
Rating Operation	
Period of Rating	1967 - 1971 , 1973, 1979, 1982 to date
Rated by Float	-
Rated by Current Meter	1967 - 1971 , 1973, 1979, 1982 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +197.190 m.(M.S.L.) and is including overbank flow.
General Description	Records good. The local weir situated about 100 meters downstream from the gage site. Stage-discharge relation defined by 20 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

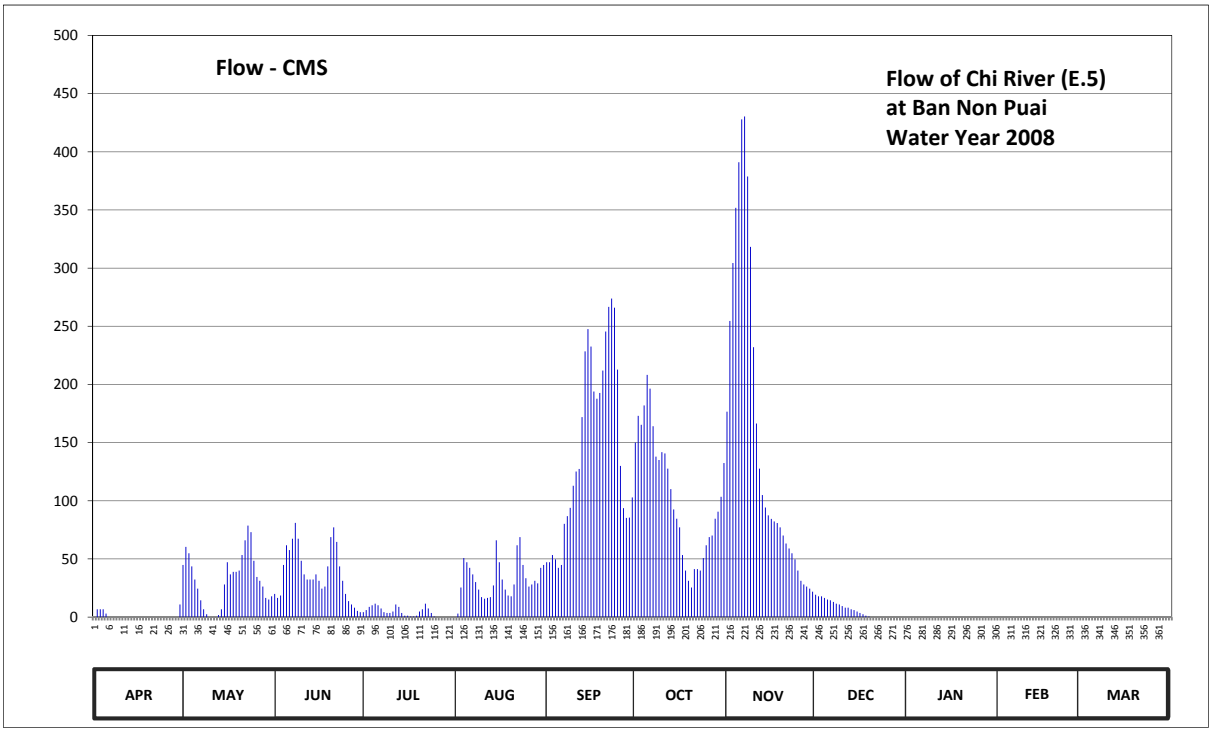
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.06	190.74	190.50	190.27	190.16	190.76	193.36	194.04	190.49	190.13	190.01	189.92	
2	190.31	190.86	190.45	190.30	190.25	190.76	193.95	195.77	190.47	190.12	190.01	189.92	
3	190.31	190.82	190.48	190.34	190.56	190.81	193.75	196.59	190.47	190.12	190.00	189.92	
4	190.31	190.73	190.74	190.36	190.79	190.78	194.17	197.09	190.45	190.10	190.00	189.90	
5	190.25	190.63	190.87	190.38	190.76	190.72	194.81	197.35	190.43	190.09	190.00	189.90	
6	190.18	190.55	190.84	190.36	190.72	190.74	194.52	197.53	190.42	190.09	190.00	189.89	
7	190.16	190.42	190.91	190.32	190.67	191.01	193.72	197.54	190.40	190.08	189.99	189.88	
8	190.15	190.31	191.05	190.27	190.61	191.34	193.05	197.28	190.38	190.07	189.98	189.87	
9	190.18	190.24	190.91	190.26	190.54	191.64	192.97	196.77	190.37	190.07	189.98	189.85	
10	190.19	190.19	190.77	190.26	190.46	192.28	193.15	195.32	190.35	190.07	189.97	189.82	
11	190.20	190.19	190.67	190.28	190.44	192.66	193.12	193.78	190.33	190.07	189.97	189.81	
12	190.09	190.20	190.63	190.37	190.45	192.73	192.74	192.74	190.33	190.08	189.97	189.83	
13	190.03	190.23	190.63	190.34	190.46	193.92	192.19	192.03	190.31	190.08	189.96	189.85	
14	190.04	190.31	190.63	190.26	190.58	195.25	191.59	191.65	190.30	190.07	189.96	189.85	
15	190.04	190.59	190.67	190.22	190.90	195.63	191.23	191.37	190.28	190.07	189.94	189.85	
16	190.00	190.76	190.62	190.22	190.76	195.33	190.98	191.22	190.26	190.06	189.94	189.83	
17	190.06	190.67	190.55	190.21	190.63	194.46	190.81	191.11	190.24	190.06	189.93	189.84	
18	190.05	190.69	190.57	190.21	190.54	194.31	190.70	191.04	190.22	190.06	189.92	189.84	
19	190.08	190.69	190.73	190.22	190.48	194.43	190.62	190.98	190.21	190.06	189.92	189.86	
20	190.09	190.70	190.92	190.28	190.47	194.90	190.56	190.93	190.20	190.05	189.92	189.88	
21	190.06	190.81	190.98	190.31	190.59	195.59	190.71	190.88	190.20	190.05	189.92	189.90	
22	190.01	190.90	190.89	190.38	190.87	196.01	190.71	190.85	190.19	190.04	189.91	189.95	
23	189.98	190.99	190.73	190.32	190.92	196.13	190.70	190.82	190.18	190.03	189.90	190.01	
24	189.98	190.95	190.62	190.26	190.74	196.00	190.79	190.78	190.17	190.03	189.91	190.02	
25	189.99	190.77	190.50	190.21	190.64	194.92	190.87	190.70	190.16	190.03	189.93	190.08	
26	189.97	190.65	190.41	190.17	190.57	192.81	190.92	190.62	190.15	190.03	189.95	190.14	
27	189.97	190.62	190.37	190.15	190.59	191.63	190.93	190.59	190.15	190.03	189.94	190.14	
28	190.00	190.57	190.33	190.14	190.62	191.26	191.23	190.57	190.15	190.02	189.92	190.14	
29	190.10	190.45	190.29	190.12	190.60	191.28	191.52	190.55	190.14	190.02		190.14	
30	190.37	190.43	190.27	190.16	190.72	191.96	191.98	190.52	190.14	190.01		190.14	
31		190.47		190.19	190.74		192.89		190.13	190.01		190.14	
Mean	190.11	190.58	190.65	190.26	190.61	193.07	192.10	192.97	190.28	190.06	189.96	189.94	
Max	190.37	190.99	191.05	190.38	190.92	196.13	194.81	197.54	190.49	190.13	190.01	190.14	197.54
Min	189.97	190.19	190.27	190.12	190.16	190.72	190.56	190.52	190.13	190.01	189.90	189.81	189.81

Annual Max Momentary Gage Height 197.57 m. (MSL.) , at 19.00 Hours, on Nov 6, 2008

Zero Gage at Bottom Elevation 186.07 m. (MSL.) , River Bed 185.93 m. (MSL.)

Left Bank Elevation 197.18 m. (MSL.) ,

Right Bank Elevation 197.91 m. (MSL.) , Drainage Are 4,207 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	44.80	20.00	4.20	0.00	47.20	150.04	176.64	19.30	0.00	0.00	0.00		
2	6.70	60.40	16.50	6.00	3.00	47.20	173.05	254.50	17.90	0.00	0.00	0.00		
3	6.70	54.80	18.60	8.80	25.40	53.40	165.25	304.30	17.90	0.00	0.00	0.00		
4	6.70	43.60	44.80	10.20	50.80	49.60	181.97	351.80	16.50	0.00	0.00	0.00		
5	3.00	32.30	61.80	11.60	47.20	42.40	208.21	391.00	15.10	0.00	0.00	0.00		
6	0.00	24.50	57.60	10.20	42.40	44.80	196.32	427.80	14.40	0.00	0.00	0.00		
7	0.00	14.40	67.40	7.40	36.70	80.20	164.08	430.40	13.00	0.00	0.00	0.00		
8	0.00	6.70	81.00	4.20	30.10	86.80	137.95	378.80	11.60	0.00	0.00	0.00		
9	0.00	2.40	67.40	3.60	23.60	93.92	135.04	318.30	10.90	0.00	0.00	0.00		
10	0.00	0.00	48.40	3.60	17.20	112.96	141.85	232.00	9.50	0.00	0.00	0.00		
11	0.00	0.00	36.70	4.80	15.80	125.12	140.68	166.42	8.10	0.00	0.00	0.00		
12	0.00	0.00	32.30	10.90	16.50	127.36	127.68	127.68	8.10	0.00	0.00	0.00		
13	0.00	1.80	32.30	8.80	17.20	171.88	110.08	104.96	6.70	0.00	0.00	0.00		
14	0.00	6.70	32.30	3.60	27.20	228.50	92.52	94.20	6.00	0.00	0.00	0.00		
15	0.00	28.10	36.70	1.20	66.00	247.50	84.60	87.40	4.80	0.00	0.00	0.00		
16	0.00	47.20	31.20	1.20	47.20	232.50	77.20	84.40	3.60	0.00	0.00	0.00		
17	0.00	36.70	24.50	0.60	32.30	193.86	53.40	82.20	2.40	0.00	0.00	0.00		
18	0.00	38.90	26.30	0.60	23.60	187.71	40.00	80.80	1.20	0.00	0.00	0.00		
19	0.00	38.90	43.60	1.20	18.60	192.63	31.20	77.20	0.60	0.00	0.00	0.00		
20	0.00	40.00	68.80	4.80	17.90	211.90	25.40	70.20	0.00	0.00	0.00	0.00		
21	0.00	53.40	77.20	6.70	28.10	245.50	41.20	63.20	0.00	0.00	0.00	0.00		
22	0.00	66.00	64.60	11.60	61.80	266.60	41.20	59.00	0.00	0.00	0.00	0.00		
23	0.00	78.60	43.60	7.40	68.80	273.80	40.00	54.80	0.00	0.00	0.00	0.00		
24	0.00	73.00	31.20	3.60	44.80	266.00	50.80	49.60	0.00	0.00	0.00	0.00		
25	0.00	48.40	20.00	0.60	33.40	212.72	61.80	40.00	0.00	0.00	0.00	0.00		
26	0.00	34.50	13.70	0.00	26.30	129.92	68.80	31.20	0.00	0.00	0.00	0.00		
27	0.00	31.20	10.90	0.00	28.10	93.64	70.20	28.10	0.00	0.00	0.00	0.00		
28	0.00	26.30	8.10	0.00	31.20	85.20	84.60	26.30	0.00	0.00	0.00	0.00		
29	0.00	16.50	5.40	0.00	29.00	85.60	90.56	24.50	0.00	0.00		0.00		
30	10.90	15.10	4.20	0.00	42.40	102.88	103.44	21.80	0.00	0.00		0.00		
31		17.90		0.00	44.80		132.48		0.00	0.00		0.00		
Total	34.00	983.10	1127.10	137.40	997.40	4339.30	3221.60	4639.50	187.60	0.00	0.00	0.00	15667.00	CMSDAY
Mean	1.13	31.71	37.57	4.43	32.17	144.64	103.92	154.65	6.05	0.00	0.00	0.00	42.92	CMS
Max	10.90	78.60	81.00	11.60	68.80	273.80	208.21	430.40	19.30	0.00	0.00	0.00	430.40	CMS
Min	0.00	0.00	4.20	0.00	0.00	42.40	25.40	21.80	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	2.94	84.94	97.38	11.87	86.18	374.92	278.35	400.85	16.21	0.00	0.00	0.00	1353.63	MCM

Momentary Peak 438.20 CMS, at 197.57 m. (MSL.), at 19.00 Hours, on Nov 6, 2008

Runoff Yield 10.20 Liters/Second/Square KM. Momentary Peak Yield 104.16 Liters/Second/Square KM.

WATER YEAR : 2008

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.

	Ban Tat Ton	**Amphoe** Mueang	**Changwat** Chaiyaphum
Drainge Area	378 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+192.700 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	About 2 meters from the sling pole.		**Elevation** +199.546 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 mean of 3 readings		
Period of Available Gage Records	1973 to date		
Rating Operation			
Period of Rating	1973 to date		
Rated by Float	-		
Rated by Current Meter	1973 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +197.370 m.(M.S.L.), records are channel flow only.		
General Description	Records good. Lam Pa Thao Dam situated about 5 kilometers and the weir situated about 2 kilometers upstream from the gage site. Stage-discharge relation defined by 26 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

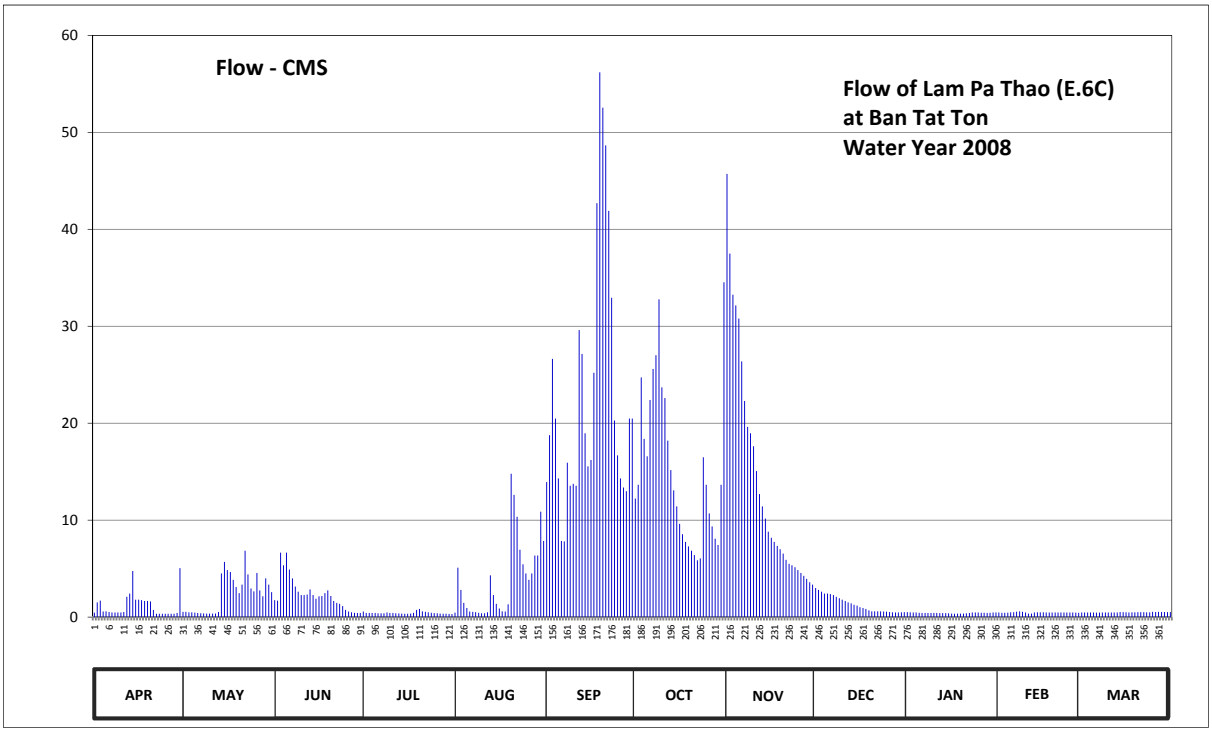
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.86	192.94	193.24	192.98	192.86	195.15	194.97	197.52	193.50	192.91	192.88	192.87	
2	193.19	192.95	193.23	192.83	193.92	195.66	195.12	197.11	193.46	192.89	192.84	192.88	
3	193.23	192.89	194.23	192.82	193.46	196.41	196.26	196.86	193.42	192.88	192.85	192.88	
4	192.98	192.89	193.97	192.83	193.18	195.84	195.62	196.79	193.38	192.87	192.86	192.88	
5	192.99	192.86	194.23	192.82	193.07	195.19	195.43	196.70	193.38	192.85	192.89	192.87	
6	192.92	192.83	193.88	192.80	192.98	194.47	196.04	196.39	193.37	192.83	192.91	192.86	
7	192.88	192.80	193.70	192.79	192.95	194.46	196.33	196.03	193.35	192.83	192.96	192.86	
8	192.87	192.78	193.53	192.80	192.91	195.36	196.44	195.75	193.31	192.83	192.99	192.87	
9	192.88	192.77	193.42	192.87	192.85	195.11	196.83	195.68	193.28	192.83	192.95	192.87	
10	192.87	192.76	193.35	192.82	192.80	195.13	196.17	195.54	193.25	192.83	192.87	192.88	
11	192.93	192.76	193.35	192.82	192.79	195.11	196.06	195.27	193.22	192.82	192.77	192.88	
12	193.31	192.76	193.36	192.80	192.90	196.62	195.60	195.02	193.19	192.81	192.77	192.88	
13	193.38	192.93	193.47	192.78	193.76	196.45	195.28	194.88	193.17	192.81	192.88	192.87	
14	193.85	193.80	193.35	192.76	193.35	195.68	195.06	194.74	193.14	192.81	192.90	192.92	
15	193.25	194.04	193.27	192.75	193.16	195.32	194.88	194.59	193.12	192.80	192.90	192.91	
16	193.25	193.87	193.32	192.75	193.06	195.39	194.68	194.52	193.09	192.77	192.89	192.90	
17	193.24	193.83	193.33	192.76	192.99	196.30	194.56	194.45	193.07	192.75	192.88	192.88	
18	193.22	193.67	193.39	192.85	192.98	197.37	194.45	194.37	193.05	192.76	192.88	192.90	
19	193.22	193.52	193.45	193.03	193.15	197.97	194.36	194.30	193.02	192.76	192.88	192.90	
20	193.21	193.39	193.33	193.05	195.24	197.83	194.27	194.21	192.99	192.76	192.88	192.91	
21	193.03	193.57	193.22	193.00	195.01	197.66	194.18	194.08	192.99	192.79	192.88	192.91	
22	192.75	194.27	193.18	192.95	194.76	197.33	194.07	194.00	193.00	192.83	192.87	192.91	
23	192.75	193.78	193.16	192.90	194.29	196.84	194.11	193.97	193.00	192.87	192.87	192.90	
24	192.74	193.49	193.11	192.85	193.99	195.82	195.42	193.93	192.98	192.88	192.87	192.90	
25	192.75	193.43	193.03	192.81	193.80	195.44	195.12	193.87	192.96	192.88	192.87	192.94	
26	192.74	193.81	192.98	192.79	193.67	195.19	194.80	193.81	192.93	192.85	192.87	192.93	
27	192.74	193.45	192.90	192.76	193.80	195.09	194.65	193.75	192.89	192.84	192.86	192.94	
28	192.74	193.32	192.85	192.75	194.17	195.05	194.51	193.69	192.88	192.82	192.84	192.93	
29	192.83	193.70	192.82	192.74	194.17	195.84	194.39	193.62	192.88	192.85		192.92	
30	193.91	193.57	192.82	192.73	194.82	195.84	195.12	193.57	192.90	192.87		192.91	
31		193.41		192.71	194.47		196.94		192.91	192.88		192.91	
Mean	193.05	193.32	193.35	192.83	193.59	195.90	195.22	194.97	193.13	192.83	192.88	192.90	
Max	193.91	194.27	194.23	193.05	195.24	197.97	196.94	197.52	193.50	192.91	192.99	192.94	197.97
Min	192.74	192.76	192.82	192.71	192.79	194.46	194.07	193.57	192.88	192.75	192.77	192.86	192.71

Annual Max Momentary Gage Height 198.20 m. (MSL.) , at 21.00 Hours, on Sep 20, 2008

Zero Gage at Bottom Elevation 192.70 m. (MSL.) , River Bed 191.05 m. (MSL.)

Left Bank Elevation 197.43 m. (MSL.) ,

Right Bank Elevation 197.36 m. (MSL.) , Drainage Are 378 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.46	0.54	1.75	0.58	0.46	13.93	12.23	45.72	3.00	0.51	0.48	0.47		
2	1.51	0.55	1.70	0.43	5.10	18.77	13.64	37.50	2.81	0.49	0.44	0.48		
3	1.70	0.49	6.65	0.42	2.81	26.63	24.72	33.26	2.62	0.48	0.45	0.48		
4	0.58	0.49	5.35	0.43	1.46	20.48	18.39	32.15	2.42	0.47	0.46	0.48		
5	0.59	0.46	6.65	0.42	0.94	14.31	16.59	30.80	2.42	0.45	0.49	0.47		
6	0.52	0.43	4.90	0.40	0.58	7.85	22.40	26.37	2.38	0.43	0.51	0.46		
7	0.48	0.40	4.00	0.39	0.55	7.80	25.59	22.30	2.28	0.43	0.56	0.46		
8	0.47	0.38	3.15	0.40	0.51	15.92	27.02	19.63	2.09	0.43	0.59	0.47		
9	0.48	0.37	2.62	0.47	0.45	13.55	32.78	18.96	1.94	0.43	0.55	0.47		
10	0.47	0.36	2.28	0.42	0.40	13.74	23.70	17.63	1.80	0.43	0.47	0.48		
11	0.53	0.36	2.28	0.42	0.39	13.55	22.60	15.07	1.66	0.42	0.37	0.48		
12	2.09	0.36	2.33	0.40	0.50	29.60	18.20	12.69	1.51	0.41	0.37	0.48		
13	2.42	0.53	2.86	0.38	4.30	27.15	15.16	11.42	1.42	0.41	0.48	0.47		
14	4.75	4.50	2.28	0.36	2.28	18.96	13.07	10.16	1.27	0.41	0.50	0.52		
15	1.80	5.70	1.90	0.35	1.37	15.54	11.42	8.81	1.18	0.40	0.50	0.51		
16	1.80	4.85	2.14	0.35	0.89	16.21	9.62	8.18	1.03	0.37	0.49	0.50		
17	1.75	4.65	2.18	0.36	0.59	25.20	8.54	7.75	0.94	0.35	0.48	0.48		
18	1.66	3.85	2.47	0.45	0.58	42.70	7.75	7.35	0.84	0.36	0.48	0.50		
19	1.66	3.10	2.76	0.74	1.32	56.19	7.30	7.00	0.70	0.36	0.48	0.50		
20	1.61	2.47	2.18	0.84	14.78	52.55	6.85	6.55	0.59	0.36	0.48	0.51		
21	0.74	3.35	1.66	0.60	12.60	48.66	6.40	5.90	0.59	0.39	0.48	0.51		
22	0.35	6.85	1.46	0.55	10.34	41.90	5.85	5.50	0.60	0.43	0.47	0.51		
23	0.35	4.40	1.37	0.50	6.95	32.94	6.05	5.35	0.60	0.47	0.47	0.50		
24	0.34	2.95	1.13	0.45	5.45	20.29	16.49	5.15	0.58	0.48	0.47	0.50		
25	0.35	2.66	0.74	0.41	4.50	16.68	13.64	4.85	0.56	0.48	0.47	0.54		
26	0.34	4.55	0.58	0.39	3.85	14.31	10.70	4.55	0.53	0.45	0.47	0.53		
27	0.34	2.76	0.50	0.36	4.50	13.36	9.35	4.25	0.49	0.44	0.46	0.54		
28	0.34	2.14	0.45	0.35	6.35	12.98	8.09	3.95	0.48	0.42	0.44	0.53		
29	0.43	4.00	0.42	0.34	6.35	20.48	7.45	3.60	0.48	0.45		0.52		
30	5.05	3.35	0.42	0.33	10.88	20.48	13.64	3.35	0.50	0.47		0.51		
31		2.57		0.31	7.85		34.54		0.51	0.48		0.51		
Total	35.96	74.42	71.16	13.60	119.88	692.71	469.77	425.75	40.82	13.36	13.36	15.37	1986.16	CMSDAY
Mean	1.20	2.40	2.37	0.44	3.87	23.09	15.15	14.19	1.32	0.43	0.48	0.50	5.44	CMS
Max	5.05	6.85	6.65	0.84	14.78	56.19	34.54	45.72	3.00	0.51	0.59	0.54	56.19	CMS
Min	0.34	0.36	0.42	0.31	0.39	7.80	5.85	3.35	0.48	0.35	0.37	0.46	0.31	CMS
Runoff	3.11	6.43	6.15	1.18	10.36	59.85	40.59	36.78	3.53	1.15	1.15	1.33	171.60	MCM

Momentary Peak 63.00 CMS, at 198.20 m. (MSL.), at 21.00 Hours, on Sep 20, 2008

Runoff Yield 14.40 Liters/Second/Square KM. Momentary Peak Yield 166.67 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 3 readings
Period of Available Gage Records	1958 to date
Rating Operation	
Period of Rating	1967 - 1973, 1986 - 1987, 1992 to date
Rated by Float	-
Rated by Current Meter	1967 - 1980, 1983 - 1987, 1992 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The barrage situated above gage site. Stage-discharge relation defined by 26 discharge measurement made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

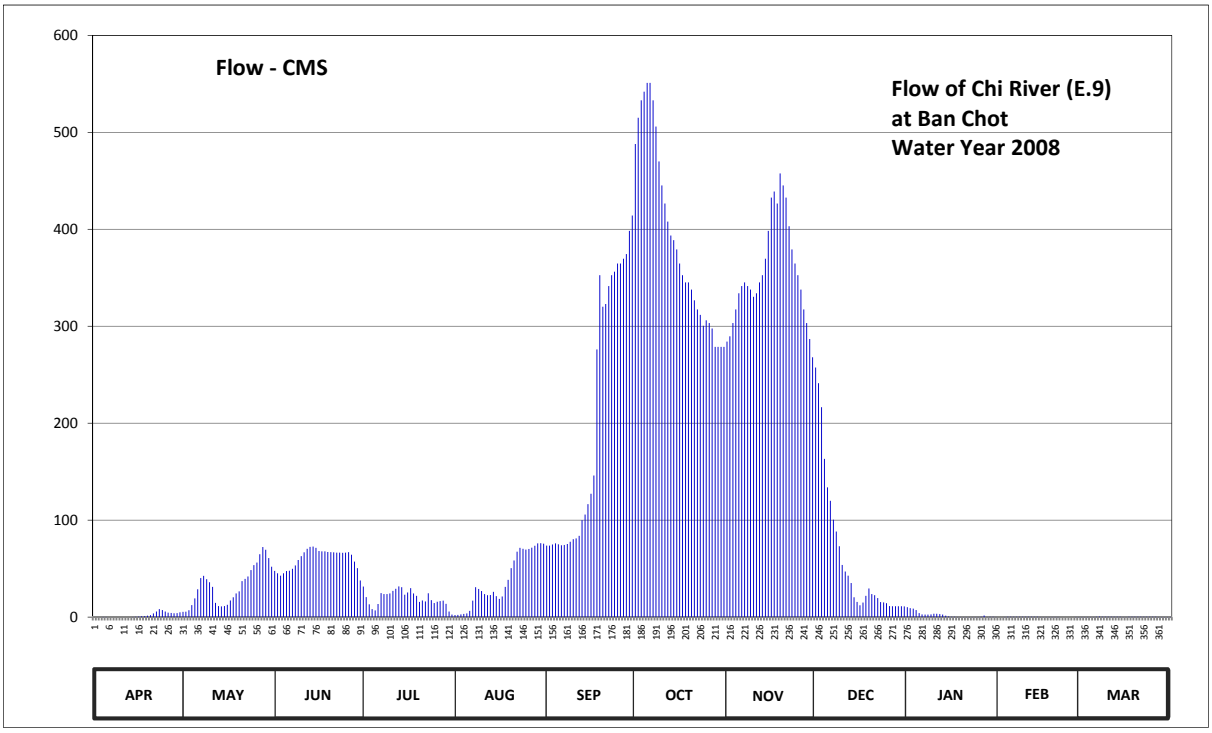
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.42	153.52	156.54	155.59	153.04	157.81	162.02	161.56	161.45	154.02	152.40	152.46	
2	152.42	153.54	156.40	154.89	153.05	157.81	162.05	161.58	161.37	153.93	152.37	152.46	
3	152.42	153.71	156.26	154.26	153.16	157.86	162.07	161.63	161.24	153.88	152.46	152.46	
4	152.43	154.20	156.40	153.82	153.25	157.91	162.08	161.68	160.84	153.73	152.56	152.45	
5	152.43	154.78	156.53	153.69	153.33	157.87	162.09	161.73	160.26	153.37	152.61	152.51	
6	152.42	155.42	156.55	154.29	153.63	157.82	162.09	161.75	159.76	153.16	152.61	152.62	
7	152.42	156.13	156.66	155.17	154.58	157.84	162.07	161.76	158.98	153.11	152.61	152.67	
8	152.41	156.25	156.85	155.11	155.55	157.88	162.04	161.75	158.45	153.11	152.61	152.63	
9	152.41	156.06	157.13	155.11	155.44	157.99	162.00	161.74	157.78	153.16	152.61	152.57	
10	152.42	155.87	157.31	155.15	155.31	158.10	161.96	161.72	156.88	153.28	152.60	152.56	
11	152.41	155.57	157.49	155.32	155.11	158.14	161.93	161.73	156.50	153.28	152.60	152.60	
12	152.40	154.39	157.66	155.45	155.04	158.25	161.90	161.76	156.26	153.21	152.61	152.59	
13	152.42	154.11	157.75	155.60	155.05	158.96	161.87	161.78	155.82	153.11	152.59	152.57	
14	152.51	154.09	157.76	155.55	155.25	159.19	161.86	161.82	154.87	152.88	152.56	152.56	
15	152.63	154.11	157.70	155.07	154.97	159.62	161.84	161.88	154.47	152.72	152.52	152.54	
16	152.69	154.23	157.55	155.21	154.73	160.04	161.81	161.94	154.19	152.61	152.46	152.52	
17	152.75	154.60	157.54	155.49	154.94	160.56	161.78	161.95	154.42	152.56	152.45	152.56	
18	152.81	154.87	157.54	155.15	155.57	161.53	161.76	161.93	154.99	152.51	152.47	152.60	
19	152.90	155.15	157.51	155.00	156.02	161.78	161.76	161.98	155.47	152.46	152.47	152.62	
20	153.01	155.28	157.50	154.47	156.69	161.69	161.74	161.96	155.11	152.46	152.46	152.59	
21	153.32	155.94	157.49	154.60	157.11	161.70	161.71	161.94	155.04	152.46	152.44	152.63	
22	153.57	156.08	157.48	154.52	157.52	161.75	161.68	161.89	154.80	152.46	152.39	152.62	
23	153.82	156.22	157.48	155.16	157.70	161.78	161.66	161.84	154.46	152.46	152.35	152.60	
24	153.73	156.58	157.47	154.62	157.66	161.79	161.62	161.81	154.43	152.48	152.34	152.57	
25	153.56	156.87	157.48	154.37	157.62	161.81	161.64	161.78	154.36	152.52	152.36	152.56	
26	153.42	157.01	157.50	154.48	157.65	161.81	161.63	161.74	154.11	152.65	152.40	152.56	
27	153.38	157.40	157.38	154.54	157.71	161.82	161.61	161.68	154.10	152.93	152.44	152.54	
28	153.35	157.74	157.06	154.58	157.80	161.83	161.54	161.63	154.10	152.45	152.47	152.54	
29	153.37	157.61	156.69	154.31	157.91	161.88	161.54	161.57	154.10	152.58		152.52	
30	153.47	157.22	155.99	153.56	157.92	161.91	161.54	161.50	154.10	152.62		152.49	
31		156.78		153.11	157.90		161.54		154.09	152.50		152.49	
Mean	152.86	155.53	157.16	154.75	155.75	159.89	161.82	161.77	156.35	152.92	152.49	152.56	
Max	153.82	157.74	157.76	155.60	157.92	161.91	162.09	161.98	161.45	154.02	152.61	152.67	162.09
Min	152.40	153.52	155.99	153.11	153.04	157.81	161.54	161.50	154.09	152.45	152.34	152.45	152.34

Annual Max Momentary Gage Height 162.09 m. (MSL.) , at 14.00 Hours, on Oct 5, 2008

Zero Gage at Bottom Elevation 151.11 m. (MSL.) , River Bed 149.98 m. (MSL.)

Left Bank Elevation 166.90 m. (MSL.) ,

Right Bank Elevation 166.60 m. (MSL.) , Drainage Are 10,878 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.07	5.38	47.72	31.44	2.20	73.82	488.00	284.20	257.50	10.24	0.05	0.11		
2	0.07	5.56	45.20	20.68	2.25	73.82	515.00	289.60	241.30	9.30	0.04	0.11		
3	0.07	7.10	42.68	13.12	2.80	74.92	533.00	303.40	216.60	8.80	0.11	0.11		
4	0.08	12.40	45.20	8.20	3.30	76.02	542.00	317.40	163.20	7.30	0.24	0.10		
5	0.08	19.36	47.54	6.91	3.84	75.14	551.00	334.10	133.80	4.16	0.32	0.17		
6	0.07	28.72	47.90	13.48	6.37	74.04	551.00	341.50	120.00	2.80	0.32	0.34		
7	0.07	40.34	49.88	24.72	16.96	74.48	533.00	345.20	100.54	2.55	0.32	0.44		
8	0.06	42.50	53.30	23.76	30.80	75.36	506.00	341.50	88.35	2.55	0.32	0.36		
9	0.06	39.08	58.86	23.76	29.04	77.78	470.00	337.80	73.16	2.80	0.32	0.26		
10	0.07	35.92	62.82	24.40	26.96	80.30	445.20	330.40	53.84	3.48	0.30	0.24		
11	0.06	31.12	66.78	27.12	23.76	81.22	426.60	334.10	47.00	3.48	0.30	0.30		
12	0.05	14.68	70.52	29.20	22.64	83.75	408.00	345.20	42.68	3.06	0.32	0.29		
13	0.07	11.32	72.50	31.60	22.80	100.08	393.60	352.60	35.12	2.55	0.29	0.26		
14	0.17	11.08	72.72	30.80	26.00	105.75	388.80	369.60	20.44	1.40	0.24	0.24		
15	0.36	11.32	71.40	23.12	21.64	116.50	379.20	398.40	15.64	0.60	0.18	0.21		
16	0.48	12.76	68.10	25.36	18.76	127.20	364.80	432.80	12.28	0.32	0.11	0.18		
17	0.75	17.20	67.88	29.84	21.28	146.00	352.60	439.00	15.04	0.24	0.10	0.24		
18	1.05	20.44	67.88	24.40	31.12	276.10	345.20	426.60	21.88	0.17	0.12	0.30		
19	1.50	24.40	67.22	22.00	38.36	352.60	345.20	457.60	29.52	0.11	0.12	0.34		
20	2.05	26.48	67.00	15.64	50.42	320.20	337.80	445.20	23.76	0.11	0.11	0.29		
21	3.76	37.04	66.78	17.20	58.42	323.00	326.70	432.80	22.64	0.11	0.09	0.36		
22	5.83	39.44	66.56	16.24	67.44	341.50	317.40	403.20	19.60	0.11	0.05	0.34		
23	8.20	41.96	66.56	24.56	71.40	352.60	311.80	379.20	15.52	0.11	0.03	0.30		
24	7.30	48.44	66.34	17.44	70.52	356.30	300.60	364.80	15.16	0.13	0.02	0.26		
25	5.74	53.66	66.56	14.44	69.64	364.80	306.20	352.60	14.32	0.18	0.03	0.24		
26	4.56	56.22	67.00	15.76	70.30	364.80	303.40	337.80	11.32	0.40	0.05	0.24		
27	4.24	64.80	64.36	16.48	71.62	369.60	297.80	317.40	11.20	1.65	0.09	0.21		
28	4.00	72.28	57.32	16.96	73.60	374.40	278.80	303.40	11.20	0.10	0.12	0.21		
29	4.16	69.42	50.42	13.72	76.02	398.40	278.80	286.90	11.20	0.27		0.18		
30	4.96	60.84	37.84	5.74	76.24	414.20	278.80	268.00	11.20	0.34		0.14		
31		52.04		2.55	75.80		278.80		11.08	0.15		0.14		
Total	59.99	1013.30	1802.84	610.64	1182.30	6124.68	12155.10	10672.30	1866.09	69.57	4.71	7.51	35569.03	CMSDAY
Mean	2.00	32.69	60.09	19.70	38.14	204.16	392.10	355.74	60.20	2.24	0.17	0.24	97.45	CMS
Max	8.20	72.28	72.72	31.60	76.24	414.20	551.00	457.60	257.50	10.24	0.32	0.44	551.00	CMS
Min	0.05	5.38	37.84	2.55	2.20	73.82	278.80	268.00	11.08	0.10	0.02	0.10	0.02	CMS
Runoff	5.18	87.55	155.77	52.76	102.15	529.17	1050.20	922.09	161.23	6.01	0.41	0.65	3073.16	MCM

Momentary Peak 550.99 CMS, at 162.09 m. (MSL.), at 14.00 Hours, on Oct 5, 2008

Runoff Yield 8.96 Liters/Second/Square KM. Momentary Peak Yield 50.65 Liters/Second/Square KM.

WATER YEAR : 2008

CHI RIVER BASIN

Chi River at Ban Tha Sa Baeng , 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 Baeng **Amphoe** Thung Khao Luang **Changwat** Roi Et

Drainge 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 mean of 3 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1974 to date
Rated by Float	-
Rated by Current Meter	1974 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 94 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

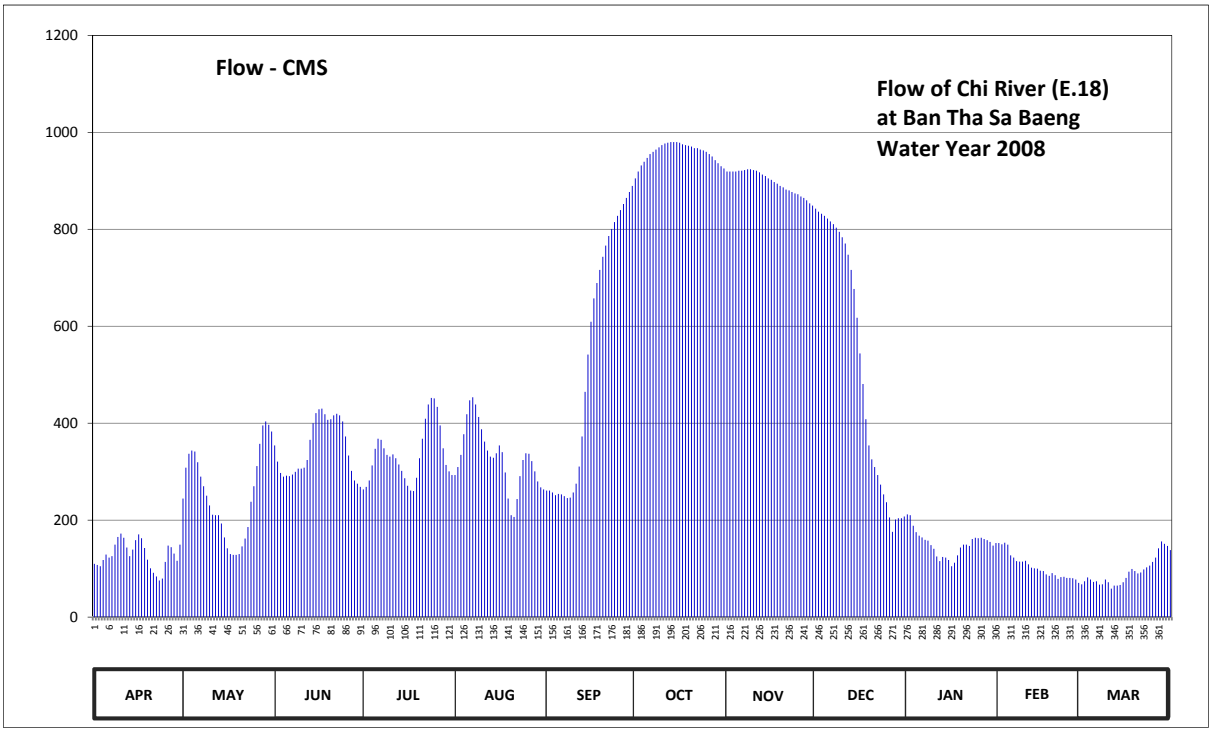
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	124.81	126.34	127.34	126.53	126.80	126.51	131.45	131.54	131.05	126.00	125.33	124.21	
2	124.78	126.94	127.05	126.58	126.95	126.51	131.54	131.54	131.01	125.98	125.30	124.30	
3	124.74	127.19	126.84	126.70	127.17	126.47	131.62	131.54	130.98	125.74	125.34	124.41	
4	124.91	127.25	126.77	126.98	127.54	126.41	131.67	131.54	130.95	125.59	125.29	124.35	
5	125.05	127.23	126.79	127.28	127.90	126.44	131.72	131.55	130.91	125.51	125.03	124.28	
6	124.97	127.04	126.78	127.46	128.14	126.43	131.77	131.55	130.87	125.47	124.97	124.30	
7	125.01	126.77	126.81	127.44	128.19	126.39	131.80	131.56	130.83	125.41	124.88	124.20	
8	125.29	126.59	126.86	127.29	128.07	126.35	131.83	131.57	130.78	125.39	124.87	124.21	
9	125.48	126.40	126.92	127.17	127.85	126.36	131.86	131.57	130.72	125.28	124.87	124.35	
10	125.56	126.19	126.92	127.14	127.63	126.47	131.89	131.56	130.64	125.19	124.89	124.27	
11	125.46	125.99	126.94	127.18	127.41	126.64	131.91	131.55	130.55	125.00	124.80	124.08	
12	125.22	125.98	127.08	127.11	127.25	126.96	131.92	131.53	130.39	124.88	124.70	124.17	
13	125.01	125.98	127.44	127.00	127.14	127.50	131.93	131.50	130.17	124.99	124.68	124.17	
14	125.17	125.79	127.74	126.88	127.12	128.28	131.93	131.48	129.89	124.97	124.67	124.19	
15	125.40	125.47	127.92	126.74	127.20	128.90	131.93	131.45	129.46	124.91	124.61	124.27	
16	125.54	125.20	127.99	126.60	127.34	129.40	131.92	131.43	128.92	124.74	124.60	124.40	
17	125.45	125.06	128.00	126.51	127.22	129.75	131.90	131.40	128.41	124.84	124.50	124.58	
18	125.21	125.04	127.90	126.50	126.85	129.98	131.89	131.38	127.81	125.03	124.46	124.66	
19	124.92	125.04	127.80	126.75	126.34	130.17	131.88	131.35	127.34	125.22	124.54	124.60	
20	124.68	125.06	127.81	127.11	125.98	130.36	131.87	131.33	127.09	125.29	124.48	124.53	
21	124.55	125.25	127.88	127.46	125.94	130.52	131.85	131.30	126.95	125.29	124.37	124.56	
22	124.44	125.44	127.91	127.82	126.33	130.66	131.85	131.29	126.80	125.26	124.42	124.65	
23	124.32	125.71	127.88	128.07	126.78	130.76	131.83	131.27	126.62	125.43	124.43	124.71	
24	124.38	126.27	127.77	128.18	127.08	130.86	131.82	131.25	126.43	125.46	124.40	124.76	
25	124.86	126.59	127.50	128.17	127.20	130.95	131.80	131.24	126.26	125.45	124.40	124.86	
26	125.27	126.97	127.16	128.03	127.19	131.03	131.77	131.21	125.93	125.46	124.39	124.97	
27	125.23	127.37	126.88	127.70	127.06	131.11	131.74	131.19	125.60	125.43	124.35	125.20	
28	125.07	127.70	126.70	127.29	126.87	131.19	131.69	131.16	125.88	125.40	124.25	125.37	
29	124.89	127.77	126.64	126.99	126.68	131.27	131.65	131.12	125.91	125.36		125.31	
30	125.29	127.71	126.58	126.87	126.57	131.35	131.61	131.09	125.91	125.27		125.26	
31		127.59		126.80	126.53		131.58		125.95	125.33		125.16	
Mean	125.03	126.35	127.29	127.17	127.11	128.73	131.79	131.40	128.61	125.31	124.71	124.56	
Max	125.56	127.77	128.00	128.18	128.19	131.35	131.93	131.57	131.05	126.00	125.34	125.37	131.93
Min	124.32	125.04	126.58	126.50	125.94	126.35	131.45	131.09	125.60	124.74	124.25	124.08	124.08

Annual Max Momentary Gage Height 131.93 m. (MSL.) , at 01.00 Hours, on Oct 13, 2008

Zero Gage at Bottom Elevation 122.24 m. (MSL.) , River Bed 120.75 m. (MSL.)

Left Bank Elevation 135.03 m. (MSL.) ,

Right Bank Elevation 135.07 m. (MSL.) , Drainage Are 41,187 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	109.80	244.64	354.10	263.30	293.00	261.10	905.20	919.24	842.80	212.00	152.72	67.70		
2	107.60	308.40	320.75	268.80	309.50	261.10	919.24	919.24	836.56	210.20	150.20	74.00		
3	104.80	336.85	297.40	282.00	334.55	257.12	931.72	919.24	832.14	188.60	153.56	81.70		
4	117.80	343.75	289.70	312.80	377.10	251.36	939.52	919.24	827.85	175.10	149.36	77.50		
5	129.20	341.45	291.90	347.20	418.50	254.24	947.32	920.80	822.13	167.90	127.52	72.60		
6	122.60	319.60	290.80	367.90	447.36	253.28	955.12	920.80	816.41	164.48	122.60	74.00		
7	125.84	289.70	294.10	365.60	453.56	249.44	959.80	922.36	810.69	159.44	115.40	67.00		
8	149.36	269.90	299.60	348.35	438.68	245.60	964.48	923.92	803.54	157.76	114.60	67.70		
9	165.32	250.40	306.20	334.55	412.75	246.56	969.16	923.92	794.96	148.52	114.60	77.50		
10	172.40	230.24	306.20	331.10	387.45	257.12	973.84	922.36	783.52	140.96	116.20	71.90		
11	163.64	211.10	308.40	335.70	362.15	275.40	976.96	920.80	770.65	125.00	109.00	58.60		
12	143.48	210.20	324.20	327.65	343.75	310.60	978.52	917.68	747.77	115.40	102.00	64.90		
13	125.84	210.20	365.60	315.00	331.10	372.50	980.08	913.00	716.31	124.20	100.60	64.90		
14	139.28	193.10	400.10	301.80	328.80	464.72	980.08	909.88	676.82	122.60	99.90	66.30		
15	158.60	164.48	420.80	286.40	338.00	541.60	980.08	905.20	617.48	117.80	95.70	71.90		
16	170.60	141.80	428.85	271.00	354.10	609.20	978.52	902.08	544.08	104.80	95.00	81.00		
17	162.80	130.04	430.00	261.10	340.30	657.50	975.40	897.40	480.84	112.20	88.00	93.60		
18	142.64	128.36	418.50	260.00	298.50	689.24	973.84	894.28	408.15	127.52	85.20	99.20		
19	118.60	128.36	407.00	287.50	244.64	716.31	972.28	889.60	354.10	143.48	90.80	95.00		
20	100.60	130.04	408.15	327.65	210.20	743.48	970.72	886.48	325.35	149.36	86.60	90.10		
21	91.50	146.00	416.20	367.90	206.60	766.36	967.60	881.80	309.50	149.36	78.90	92.20		
22	83.80	161.96	419.65	409.30	243.68	786.38	967.60	880.24	293.00	146.84	82.40	98.50		
23	75.40	185.90	416.20	438.68	290.80	800.68	964.48	877.12	273.20	161.12	83.10	102.70		
24	79.60	237.92	403.55	452.32	324.20	814.98	962.92	874.00	253.28	163.64	81.00	106.20		
25	113.80	269.90	372.50	451.08	338.00	827.85	959.80	872.44	236.96	162.80	81.00	113.80		
26	147.68	311.70	333.40	433.72	336.85	839.68	955.12	867.76	205.70	163.64	80.30	122.60		
27	144.32	357.55	301.80	395.50	321.90	852.16	950.44	864.64	176.00	161.12	77.50	141.80		
28	130.88	395.50	282.00	348.35	300.70	864.64	942.64	859.96	201.20	158.60	70.50	156.08		
29	116.20	403.55	275.40	313.90	279.80	877.12	936.40	853.72	203.90	155.24		151.04		
30	149.36	396.65	268.80	300.70	267.70	889.60	930.16	849.04	203.90	147.68		146.84		
31		382.85		293.00	263.30		925.48		207.50	152.72		138.44		
Total	3863.34	7832.09	10451.85	10399.85	10197.52	16236.92	29694.52	26928.24	16376.29	4690.08	2904.26	2887.30	142462.26	CMSDAY
Mean	128.78	252.65	348.39	335.48	328.95	541.23	957.89	897.61	528.27	151.29	103.72	93.14	390.31	CMS
Max	172.40	403.55	430.00	452.32	453.56	889.60	980.08	923.92	842.80	212.00	153.56	156.08	980.08	CMS
Min	75.40	128.36	268.80	260.00	206.60	245.60	905.20	849.04	176.00	104.80	70.50	58.60	58.60	CMS
Runoff	333.79	676.69	903.04	898.55	881.07	1402.87	2565.61	2326.60	1414.91	405.22	250.93	249.46	12308.74	MCM

Momentary Peak 980.08 CMS, at 131.93 m. (MSL.), at 01.00 Hours, on Oct 13, 2008

Runoff Yield 9.48 Liters/Second/Square KM. Momentary Peak Yield 23.80 Liters/Second/Square KM.

WATER YEAR : 2008

CHI RIVER BASIN

Chi River at Ban 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

Drainge 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** +127.137 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 mean of 3 readings
Period of Available Gage Records	1973 to date
Rating Operation	
Period of Rating	1974 to date
Rated by Float	-
Rated by Current Meter	1974 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +119.170 m.(MSL.) and is including overbank flow.
General Description	Records fair. Tat Noi barrage situated downstream from the gage site. Stage-discharge relation defined by 29 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

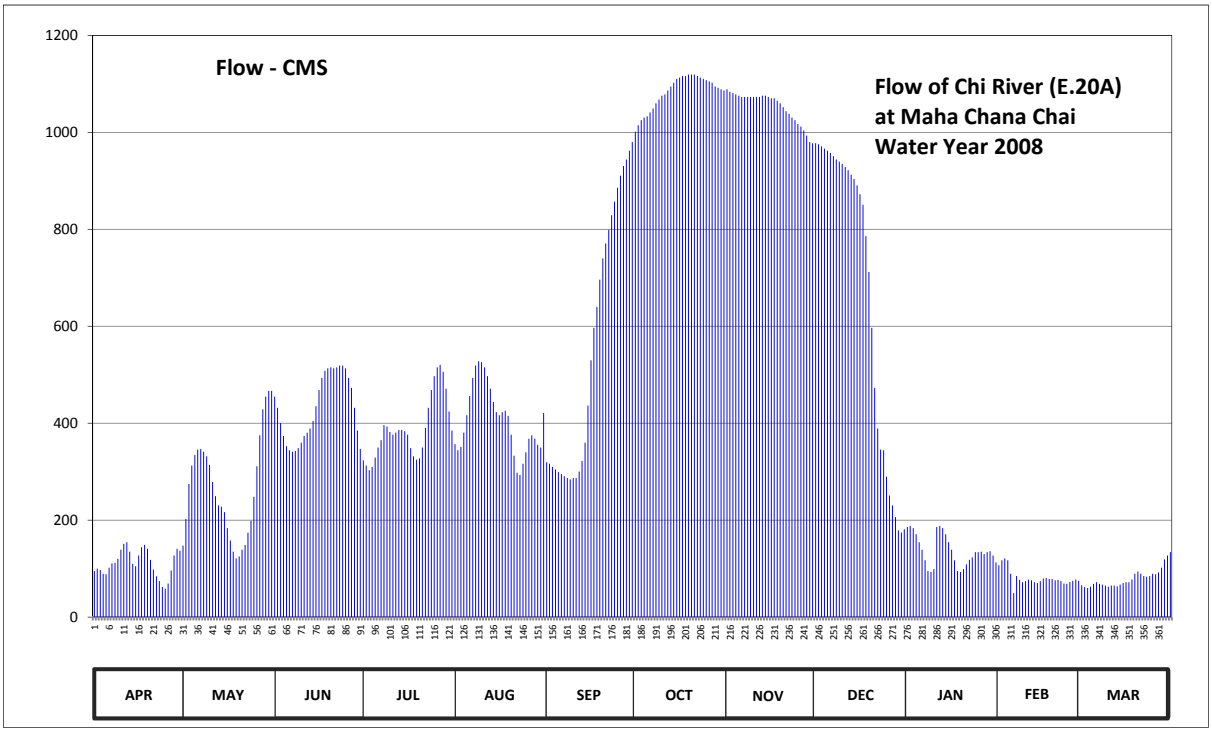
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.02	116.54	118.84	117.93	118.17	117.90	121.58	121.91	121.49	116.87	116.14	115.68	
2	116.07	117.01	118.69	117.85	118.08	117.88	121.63	121.89	121.48	116.89	116.24	115.63	
3	116.04	117.57	118.48	117.78	118.13	117.83	121.67	121.88	121.46	116.85	116.28	115.60	
4	115.96	117.85	118.29	117.83	118.34	117.79	121.69	121.87	121.44	116.74	116.24	115.64	
5	115.95	118.01	118.14	117.97	118.59	117.75	121.70	121.86	121.42	116.60	115.96	115.72	
6	116.09	118.09	118.08	118.12	118.85	117.72	121.73	121.85	121.40	116.46	115.45	115.76	
7	116.18	118.10	118.06	118.23	119.08	117.69	121.76	121.85	121.37	116.24	115.91	115.72	
8	116.19	118.06	118.07	118.45	119.22	117.66	121.80	121.85	121.34	116.02	115.82	115.70	
9	116.27	117.99	118.11	118.43	119.27	117.64	121.83	121.85	121.32	116.00	115.76	115.67	
10	116.46	117.86	118.19	118.35	119.26	117.66	121.86	121.85	121.30	116.06	115.79	115.64	
11	116.57	117.60	118.29	118.31	119.20	117.66	121.87	121.85	121.27	116.87	115.83	115.67	
12	116.60	117.38	118.34	118.34	119.10	117.76	121.90	121.85	121.24	116.89	115.81	115.67	
13	116.42	117.23	118.40	118.38	118.95	117.92	121.93	121.86	121.20	116.85	115.76	115.65	
14	116.17	117.21	118.51	118.38	118.77	118.19	121.96	121.86	121.16	116.74	115.74	115.70	
15	116.12	117.12	118.71	118.36	118.63	118.72	121.99	121.85	121.10	116.60	115.79	115.74	
16	116.34	116.85	118.93	118.31	118.59	119.28	122.00	121.84	121.02	116.46	115.85	115.76	
17	116.51	116.63	119.08	118.11	118.63	119.65	122.01	121.84	120.92	116.24	115.86	115.76	
18	116.55	116.42	119.16	117.99	118.65	119.89	122.01	121.82	120.62	116.02	115.84	115.83	
19	116.48	116.28	119.19	117.94	118.58	120.18	122.02	121.80	120.26	116.00	115.84	115.96	
20	116.25	116.32	119.20	117.96	118.31	120.40	122.02	121.77	119.65	116.06	115.81	116.01	
21	116.05	116.46	119.19	118.12	118.00	120.55	122.02	121.74	118.96	116.16	115.82	115.96	
22	115.90	116.55	119.20	118.41	117.74	120.68	122.01	121.72	118.40	116.25	115.79	115.91	
23	115.79	116.77	119.22	118.69	117.71	120.82	122.00	121.69	118.09	116.30	115.73	115.89	
24	115.63	116.98	119.22	118.93	117.88	120.95	121.99	121.67	118.08	116.41	115.72	115.91	
25	115.58	117.37	119.19	119.10	118.05	121.08	121.98	121.64	117.68	116.41	115.77	115.96	
26	115.73	117.84	119.08	119.20	118.25	121.19	121.97	121.62	117.39	116.42	115.80	115.95	
27	116.03	118.30	118.96	119.23	118.30	121.28	121.96	121.59	117.23	116.37	115.83	115.99	
28	116.34	118.67	118.69	119.15	118.25	121.34	121.93	121.55	117.04	116.41	115.80	116.09	
29	116.48	118.84	118.37	118.95	118.16	121.42	121.92	121.50	116.81	116.43		116.26	
30	116.44	118.92	118.10	118.64	118.12	121.50	121.91	121.49	116.77	116.34		116.34	
31		118.92		118.37	118.62		121.90		116.83	116.20		116.41	
Mean	116.17	117.48	118.67	118.38	118.50	119.27	121.89	121.77	119.86	116.42	115.86	115.84	
Max	116.60	118.92	119.22	119.23	119.27	121.50	122.02	121.91	121.49	116.89	116.28	116.41	122.02
Min	115.58	116.28	118.06	117.78	117.71	117.64	121.58	121.49	116.77	116.00	115.45	115.60	115.45

Annual Max Momentary Gage Height 122.02 m. (MSL.) , at 01.00 Hours, on Oct 19, 2008

Zero Gage at Bottom Elevation 112.00 m. (MSL.) , River Bed 111.12 m. (MSL.)

Left Bank Elevation 119.16 m. (MSL.) ,

Right Bank Elevation 120.62 m. (MSL.) , Drainage Are 47,800 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	95.00	147.64	454.68	323.48	356.80	319.40	1001.28	1089.06	977.76	185.92	107.00	65.60		
2	100.00	202.28	431.88	312.60	344.20	316.68	1014.58	1083.74	975.52	188.24	117.00	62.10		
3	97.00	274.52	400.20	303.08	351.20	309.88	1025.22	1081.08	971.04	183.60	121.00	60.00		
4	89.40	312.60	373.60	309.88	380.60	304.44	1030.54	1078.42	966.56	170.84	117.00	62.80		
5	88.50	334.40	352.60	328.92	416.68	299.00	1033.20	1075.76	962.08	154.60	89.40	68.60		
6	102.00	345.60	344.20	349.80	456.20	294.92	1041.18	1073.10	957.60	139.00	49.50	71.80		
7	111.00	347.00	341.40	365.20	493.48	290.84	1049.16	1073.10	950.88	117.00	84.90	68.60		
8	112.00	341.40	342.80	396.00	518.82	286.76	1059.80	1073.10	944.16	95.00	76.80	67.00		
9	120.00	331.64	348.40	393.20	527.87	284.04	1067.78	1073.10	939.68	93.00	71.80	64.90		
10	139.00	313.96	359.60	382.00	526.06	286.76	1075.76	1073.10	935.20	99.00	74.20	62.80		
11	151.12	278.60	373.60	376.40	515.20	286.76	1078.42	1073.10	928.48	185.92	77.70	64.90		
12	154.60	249.64	380.60	380.60	497.10	300.36	1086.40	1073.10	921.76	188.24	75.90	64.90		
13	135.00	230.44	389.00	386.20	471.40	322.12	1094.38	1075.76	912.80	183.60	71.80	63.50		
14	110.00	227.88	404.52	386.20	444.04	359.60	1102.36	1075.76	903.84	170.84	70.20	67.00		
15	105.00	216.36	434.92	383.40	422.76	436.44	1110.34	1073.10	890.40	154.60	74.20	70.20		
16	127.00	183.60	468.36	376.40	416.68	529.68	1113.00	1070.44	872.48	139.00	79.50	71.80		
17	144.16	158.08	493.48	348.40	422.76	596.65	1116.20	1070.44	850.72	117.00	80.40	71.80		
18	148.80	135.00	507.96	331.64	425.80	640.09	1116.20	1065.12	785.92	95.00	78.60	77.70		
19	141.00	121.00	513.39	324.84	415.16	696.00	1119.40	1059.80	712.00	93.00	78.60	89.40		
20	118.00	125.00	515.20	327.56	376.40	740.00	1119.40	1051.82	596.65	99.00	75.90	94.00		
21	98.00	139.00	513.39	349.80	333.00	770.80	1119.40	1043.84	472.92	109.00	76.80	89.40		
22	84.00	148.80	515.20	390.40	297.64	798.88	1116.20	1038.52	389.00	118.00	74.20	84.90		
23	74.20	174.32	518.82	431.88	293.56	829.12	1113.00	1030.54	345.60	123.00	69.40	83.10		
24	62.10	198.68	518.82	468.36	316.68	857.20	1110.34	1025.22	344.20	134.00	68.60	84.90		
25	58.60	248.36	513.39	497.10	340.00	885.92	1107.68	1017.24	289.48	134.00	72.60	89.40		
26	69.40	311.24	493.48	515.20	368.00	910.56	1105.02	1011.92	250.92	135.00	75.00	88.50		
27	96.00	375.00	472.92	520.63	375.00	930.72	1102.36	1003.94	230.44	130.00	77.70	92.10		
28	127.00	428.84	431.88	506.15	368.00	944.16	1094.38	993.30	206.12	134.00	75.00	102.00		
29	141.00	454.68	384.80	471.40	355.40	962.08	1091.72	980.00	178.96	136.00		119.00		
30	137.00	466.84	347.00	424.28	349.80	980.00	1089.06	977.76	174.32	127.00		127.00		
31		466.84		384.80	421.24		1086.40		181.28	113.00		134.00		
Total	3335.88	8289.24	12940.09	12045.80	12597.53	16769.86	33590.16	31584.28	21018.77	4245.40	2260.70	2483.70	161161.41	CMSDAY
Mean	111.20	267.39	431.34	388.57	406.37	559.00	1083.55	1052.81	678.02	136.95	80.74	80.12	441.54	CMS
Max	154.60	466.84	518.82	520.63	527.87	980.00	1119.40	1089.06	977.76	188.24	121.00	134.00	1119.40	CMS
Min	58.60	121.00	341.40	303.08	293.56	284.04	1001.28	977.76	174.32	93.00	49.50	60.00	49.50	CMS
Runoff	288.22	716.19	1118.02	1040.76	1088.43	1448.92	2902.19	2728.88	1816.02	366.80	195.32	214.59	13924.35	MCM

Momentary Peak 1119.40 CMS, at 122.02 m. (MSL.), at 01.00 Hours, on Oct 19, 2007

Runoff Yield 9.24 Liters/Second/Square KM. Momentary Peak Yield 23.42 Liters/Second/Square KM.

WATER YEAR : 2008

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** Chaiyaphum

Drainge 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 mean 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 Float	-
Rated by Current Meter	1968 - 1971 , 1973 - 1974 , 1982 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The rubber weir situated about 2 kilometers downstream from the gage site. Stage-discharge relation defined by 24 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

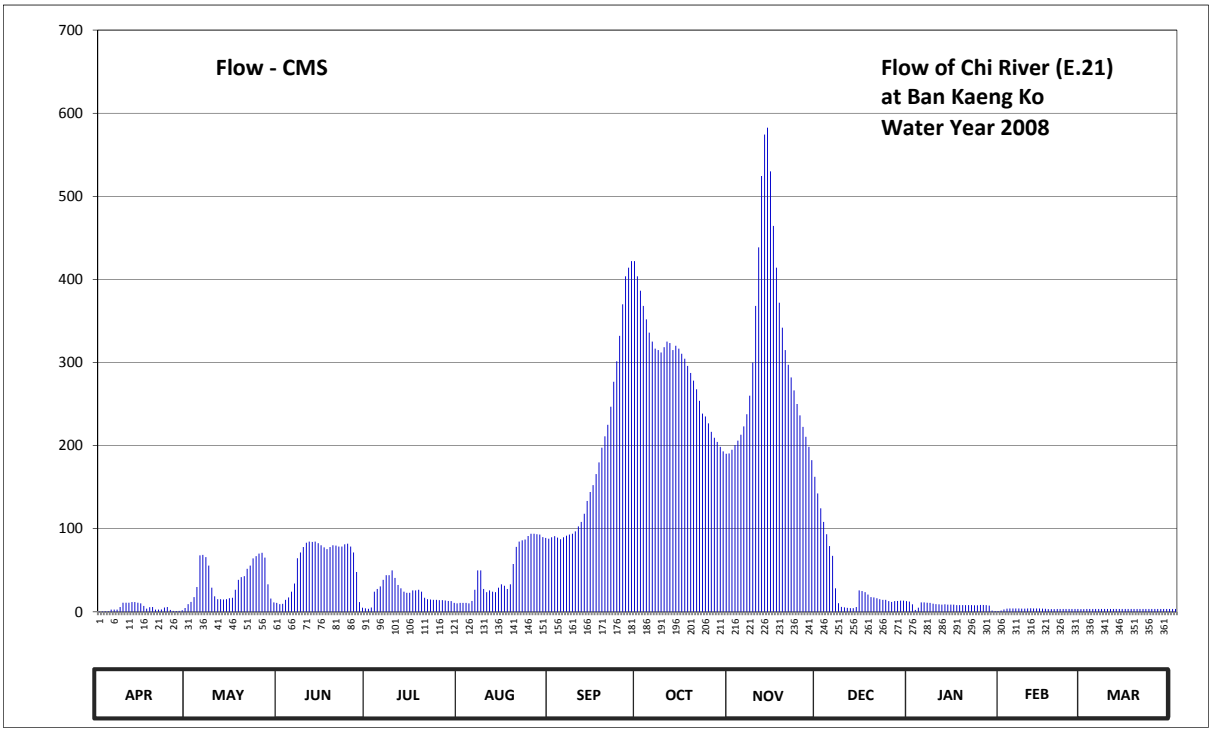
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	166.13	167.64	167.64	167.10	167.69	169.14	173.86	172.10	170.19	167.63	166.97	167.06	
2	166.24	167.73	167.65	167.35	167.69	169.18	173.78	172.21	169.70	166.83	167.12	167.06	
3	166.32	167.89	167.81	167.99	167.69	169.13	173.70	172.32	169.25	167.34	167.17	167.06	
4	166.36	168.06	167.88	168.03	167.67	169.07	173.62	172.45	168.81	167.71	167.17	167.06	
5	166.93	168.45	167.99	168.07	167.77	169.14	173.56	172.62	168.43	167.71	167.17	167.06	
6	166.91	168.47	168.11	168.15	168.02	169.20	173.51	172.84	168.04	167.70	167.16	167.06	
7	166.89	168.38	168.34	168.20	168.23	169.24	173.50	173.10	167.68	167.69	167.14	167.06	
8	167.46	168.26	168.56	168.20	168.23	169.27	173.48	173.40	167.50	167.66	167.14	167.06	
9	167.70	168.05	168.77	168.23	168.03	169.36	173.52	173.78	167.39	167.64	167.16	167.06	
10	167.70	167.91	168.94	168.17	167.98	169.54	173.56	174.05	167.28	167.63	167.19	167.06	
11	167.70	167.83	168.98	168.09	168.01	169.70	173.55	174.24	167.24	167.62	167.18	167.06	
12	167.72	167.83	168.97	168.04	167.99	170.00	173.50	174.32	167.23	167.63	167.16	167.06	
13	167.72	167.82	168.98	167.99	167.98	170.45	173.53	174.33	167.44	167.62	167.15	167.06	
14	167.70	167.83	168.92	167.97	168.05	170.77	173.51	174.25	168.01	167.62	167.14	167.06	
15	167.67	167.86	168.84	167.97	168.10	171.01	173.47	174.12	168.00	167.62	167.09	167.06	
16	167.55	167.87	168.76	168.01	168.08	171.35	173.43	173.97	167.98	167.60	167.05	167.06	
17	167.12	168.02	168.69	168.01	168.03	171.71	173.37	173.80	167.94	167.60	167.05	167.06	
18	167.41	168.15	168.77	168.02	168.10	172.15	173.31	173.65	167.89	167.60	167.05	167.06	
19	167.45	168.18	168.84	167.99	168.27	172.42	173.24	173.50	167.88	167.60	167.06	167.06	
20	166.92	168.19	168.83	167.87	168.78	172.65	173.16	173.38	167.86	167.60	167.06	167.06	
21	166.91	168.24	168.79	167.83	168.98	172.96	173.04	173.27	167.83	167.60	167.06	167.06	
22	166.97	168.26	168.79	167.82	169.03	173.23	172.85	173.15	167.81	167.59	167.06	167.06	
23	167.36	168.33	168.88	167.81	169.06	173.41	172.80	173.00	167.81	167.59	167.06	167.06	
24	167.46	168.42	168.90	167.81	169.19	173.60	172.68	172.82	167.76	167.61	167.06	167.06	
25	166.81	168.52	168.79	167.80	169.27	173.79	172.51	172.61	167.73	167.61	167.06	167.06	
26	166.51	168.55	168.56	167.80	169.27	173.93	172.39	172.41	167.76	167.60	167.06	167.06	
27	166.48	168.36	168.22	167.79	169.25	173.97	172.29	172.17	167.77	167.57	167.05	167.06	
28	166.54	168.10	167.72	167.77	169.24	174.00	172.17	171.78	167.78	166.60	167.05	167.06	
29	166.71	167.85	167.33	167.76	169.15	174.00	172.05	171.27	167.78	166.41		167.06	
30	167.25	167.71	167.19	167.69	169.12	173.93	171.98	170.72	167.76	166.42		167.06	
31		167.69		167.67	169.09		171.99		167.74	166.63		167.06	
Mean	167.09	168.08	168.45	167.90	168.42	171.38	173.13	173.05	167.98	167.45	167.10	167.06	
Max	167.72	168.55	168.98	168.23	169.27	174.00	173.86	174.33	170.19	167.71	167.19	167.06	174.33
Min	166.13	167.64	167.19	167.10	167.67	169.07	171.98	170.72	167.23	166.41	166.97	167.06	166.13

Annual Max Momentary Gage Height 174.34 m. (MSL.) , at 16.00 Hours, on Nov 12, 2008

Zero Gage at Bottom Elevation 164.98 m. (MSL.) , River Bed 163.24 m. (MSL.)

Left Bank Elevation 177.25 m. (MSL.) ,

Right Bank Elevation 177.25 m. (MSL.) , Drainage Are 8,777 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.26	9.20	9.20	3.60	10.70	89.62	386.40	195.00	124.46	8.90	2.88	3.36		
2	0.48	11.90	9.50	5.10	10.70	90.94	368.00	200.50	108.10	2.32	3.72	3.36		
3	0.64	17.60	14.40	24.30	10.70	89.29	352.00	206.00	93.25	5.04	4.02	3.36		
4	0.72	29.80	17.20	27.40	10.10	87.31	336.00	213.00	79.11	11.30	4.02	3.36		
5	2.72	67.95	24.30	30.60	13.10	89.62	325.20	223.20	67.33	11.30	4.02	3.36		
6	2.64	68.57	34.10	38.50	26.60	91.60	316.70	237.80	28.20	11.00	3.96	3.36		
7	2.56	65.78	64.54	44.00	49.79	92.92	315.00	260.00	10.40	10.70	3.84	3.36		
8	5.76	55.58	71.36	44.00	49.79	93.91	312.00	300.00	6.00	9.80	3.84	3.36		
9	11.00	29.00	77.87	49.79	27.40	96.88	318.40	368.00	5.34	9.20	3.96	3.36		
10	11.00	18.70	83.14	40.70	23.60	102.82	325.20	438.50	4.68	8.90	4.14	3.36		
11	11.00	15.20	84.38	32.20	25.80	108.10	323.50	524.40	4.44	8.60	4.08	3.36		
12	11.60	15.20	84.07	28.20	24.30	118.00	315.00	574.40	4.38	8.90	3.96	3.36		
13	11.60	14.80	84.38	24.30	23.60	133.30	320.10	582.60	5.64	8.60	3.90	3.36		
14	11.00	15.20	82.52	22.90	29.00	144.18	316.70	530.00	25.80	8.60	3.84	3.36		
15	10.10	16.40	80.04	22.90	33.00	152.39	310.50	464.40	25.00	8.60	3.54	3.36		
16	7.00	16.80	77.56	25.80	31.40	165.65	304.50	414.20	23.60	8.00	3.30	3.36		
17	3.72	26.60	75.39	25.80	27.40	179.69	295.80	372.00	20.80	8.00	3.30	3.36		
18	5.46	38.50	77.87	26.60	33.00	197.50	287.40	342.00	17.60	8.00	3.30	3.36		
19	5.70	41.80	80.04	24.30	57.51	211.20	278.20	315.00	17.20	8.00	3.36	3.36		
20	2.68	42.90	79.73	16.80	78.18	225.00	267.80	297.20	16.40	8.00	3.36	3.36		
21	2.64	51.72	78.49	15.20	84.38	246.80	254.00	282.10	15.20	8.00	3.36	3.36		
22	2.88	55.58	78.49	14.80	85.99	276.90	238.50	266.50	14.40	7.80	3.36	3.36		
23	5.16	64.23	81.28	14.40	86.98	301.50	235.00	250.00	14.40	7.80	3.36	3.36		
24	5.76	67.02	81.90	14.40	91.27	332.00	226.80	236.40	12.80	8.30	3.36	3.36		
25	2.24	70.12	78.49	14.00	93.91	370.00	216.60	222.60	11.90	8.30	3.36	3.36		
26	1.04	71.05	71.36	14.00	93.91	403.80	209.50	210.60	12.80	8.00	3.36	3.36		
27	0.96	65.16	47.86	13.70	93.25	414.20	204.50	198.50	13.10	7.40	3.30	3.36		
28	1.16	33.00	11.60	13.10	92.92	422.00	198.50	182.42	13.40	1.40	3.30	3.36		
29	1.84	16.00	4.98	12.80	89.95	422.00	193.00	162.53	13.40	0.82		3.36		
30	4.50	11.30	4.14	10.70	88.96	403.80	190.22	142.48	12.80	0.84		3.36		
31		10.70		10.10	87.97		190.61		12.20	1.52		3.36		
Total	145.82	1133.36	1750.18	704.99	1585.16	6152.92	8731.63	9212.33	834.13	231.94	101.10	104.16	30687.72	CMSDAY
Mean	4.86	36.56	58.34	22.74	51.13	205.10	281.67	307.08	26.91	7.48	3.61	3.36	84.08	CMS
Max	11.60	71.05	84.38	49.79	93.91	422.00	386.40	582.60	124.46	11.30	4.14	3.36	582.60	CMS
Min	0.26	9.20	4.14	3.60	10.10	87.31	190.22	142.48	4.38	0.82	2.88	3.36	0.26	CMS
Runoff	12.60	97.92	151.22	60.91	136.96	531.61	754.41	795.95	72.07	20.04	8.74	9.00	2651.42	MCM

Momentary Peak 590.80 CMS, at 174.34 m. (MSL.), at 16.00 Hours, on Nov 12, 2008

Runoff Yield 9.58 Liters/Second/Square KM. Momentary Peak Yield 67.31 Liters/Second/Square KM.

WATER YEAR : 2008

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.

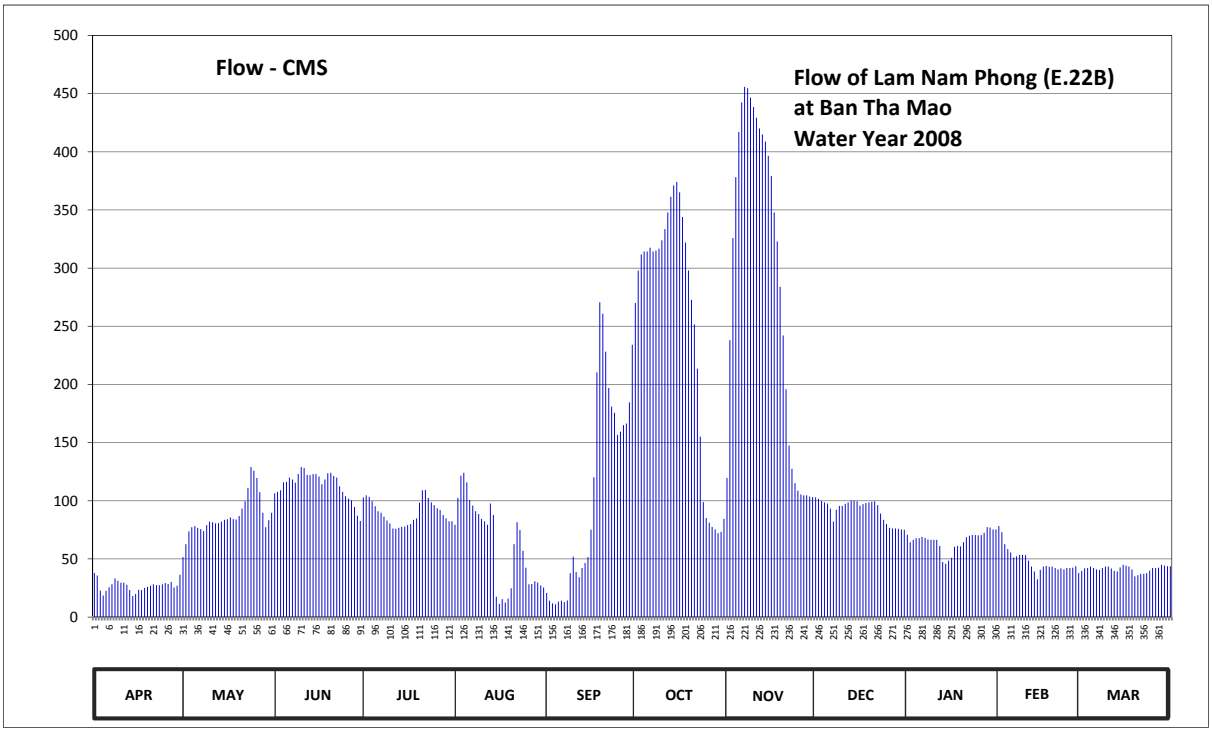
Ban Tha Mao **Amphoe** Nam Phong **Changwat** Khon Kaen

Drainge Area	13,638 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+150.920 m. (MSL.)
Bench Mark	B.M.- Highways Dept.
Location BM	On left bank at the footpath of the bridge. **Elevation** +163.911 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 mean of 3 readings
Period of Available Gage Records	1965 to date
Rating Operation	
Period of Rating	1966 - 1972 , 1982 - 1987 , 1992 to date
Rated by Float	-
Rated by Current Meter	1966 - 1972 , 1982 - 1987 , 1992 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Ubonrat Dam about 35 kilometers above gage site and Nong Wai weir situated about 5 kilometers above gage site. Stage-discharge relation defined by 26 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	153.00	153.54	155.48	155.36	154.58	152.29	158.87	155.87	155.36	154.28	154.54	153.07	
2	152.91	153.99	155.52	155.42	155.35	151.95	159.23	158.41	155.32	154.05	154.36	153.16	
3	152.39	154.38	155.56	155.38	155.93	151.81	159.40	159.56	155.26	154.12	153.99	153.17	
4	152.18	154.51	155.76	155.25	156.00	151.76	159.43	160.10	155.22	154.17	153.82	153.22	
5	152.38	154.54	155.77	155.11	155.76	151.90	159.43	160.48	155.19	154.17	153.70	153.17	
6	152.51	154.49	155.88	154.97	155.29	151.95	159.47	160.73	155.04	154.21	153.53	153.12	
7	152.61	154.45	155.83	154.92	155.13	151.88	159.43	160.86	154.67	154.18	153.57	153.10	
8	152.81	154.39	155.75	154.81	154.97	151.96	159.44	160.85	155.01	154.13	153.62	153.17	
9	152.73	154.57	155.97	154.70	154.89	152.99	159.46	160.77	155.12	154.12	153.62	153.22	
10	152.66	154.67	156.13	154.62	154.75	153.56	159.54	160.69	155.12	154.12	153.61	153.22	
11	152.66	154.65	156.11	154.47	154.68	153.03	159.64	160.60	155.18	154.12	153.42	153.15	
12	152.59	154.62	155.95	154.46	154.58	152.85	159.79	160.51	155.22	153.93	153.22	153.07	
13	152.41	154.63	155.94	154.49	155.19	153.17	159.93	160.46	155.27	153.38	153.05	153.05	
14	152.16	154.67	155.97	154.52	154.86	153.34	160.03	160.40	155.27	153.31	152.78	153.19	
15	152.25	154.72	155.97	154.53	152.13	153.54	160.06	160.28	155.25	153.42	153.11	153.28	
16	152.42	154.74	155.91	154.57	151.79	154.43	159.97	160.11	155.13	153.52	153.22	153.25	
17	152.41	154.79	155.71	154.60	152.02	155.89	159.75	159.79	155.17	153.90	153.24	153.22	
18	152.48	154.74	155.83	154.72	151.85	157.99	159.52	159.53	155.20	153.92	153.21	153.12	
19	152.52	154.73	155.99	154.76	152.05	158.88	159.23	159.06	155.22	153.91	153.22	152.88	
20	152.55	154.83	156.00	155.21	152.47	158.74	158.91	158.47	155.24	154.05	153.17	152.92	
21	152.61	155.04	155.92	155.56	153.99	158.26	158.61	157.72	155.25	154.20	153.12	152.97	
22	152.58	155.25	155.88	155.57	154.65	157.74	158.04	156.62	155.14	154.25	153.16	152.97	
23	152.58	155.62	155.66	155.35	154.42	157.43	156.82	156.09	154.90	154.27	153.12	152.99	
24	152.61	156.13	155.52	155.22	153.76	157.31	155.23	155.74	154.72	154.27	153.17	153.08	
25	152.65	156.05	155.40	155.14	153.18	156.86	154.77	155.55	154.60	154.26	153.17	153.17	
26	152.62	155.87	155.33	155.05	152.61	156.93	154.64	155.45	154.49	154.27	153.18	153.17	
27	152.69	155.51	155.28	155.00	152.62	157.07	154.52	155.42	154.47	154.34	153.23	153.18	
28	152.50	154.92	155.09	154.86	152.71	157.10	154.44	155.42	154.47	154.51	153.00	153.28	
29	152.56	154.51	154.84	154.76	152.67	157.51	154.33	155.39	154.46	154.50		153.25	
30	152.94	154.71	154.69	154.68	152.57	158.35	154.37	155.37	154.44	154.44		153.23	
31		154.92		154.68	152.50		154.75		154.43	154.44		153.23	
Mean	152.57	154.81	155.69	154.93	153.87	154.95	158.10	158.54	154.99	154.09	153.40	153.14	
Max	153.00	156.13	156.13	155.57	156.00	158.88	160.06	160.86	155.36	154.51	154.54	153.28	160.86
Min	152.16	153.54	154.69	154.46	151.79	151.76	154.33	155.37	154.43	153.31	152.78	152.88	151.76

Annual Max Momentary Gage Height	160.88	m. (MSL.) ,	at 03.00 Hours, on Nov 8, 2008		
Zero Gage at Bottom Elevation	150.92	m. (MSL.) ,	River Bed	150.48	m. (MSL.)
Left Bank Elevation	163.63	m. (MSL.) ,			
Right Bank Elevation	163.59	m. (MSL.) ,	Drainage Are	13,638	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	38.00	51.50	106.40	102.80	79.40	20.80	269.90	119.58	102.80	70.84	78.20	39.75		
2	35.75	62.75	107.68	104.60	102.50	14.15	297.86	238.06	101.60	64.40	73.08	42.00		
3	22.80	73.64	109.04	103.40	121.62	11.77	311.80	325.76	99.80	66.36	62.75	42.25		
4	18.60	77.30	115.84	99.50	124.00	10.96	314.26	378.20	98.60	67.76	58.50	43.50		
5	22.60	78.20	116.18	95.30	115.84	13.30	314.26	416.96	97.70	67.76	55.50	42.25		
6	25.75	76.72	119.92	91.10	100.70	14.15	317.54	442.46	93.20	68.88	51.25	41.00		
7	28.25	75.60	118.22	89.60	95.90	12.96	314.26	455.72	82.10	68.04	52.25	40.50		
8	33.25	73.92	115.50	86.30	91.10	14.32	315.08	454.70	92.30	66.64	53.50	42.25		
9	31.25	79.10	122.98	83.00	88.70	37.75	316.72	446.54	95.60	66.36	53.50	43.50		
10	29.50	82.10	128.94	80.60	84.50	52.00	323.84	438.38	95.60	66.36	53.25	43.50		
11	29.50	81.50	128.18	76.16	82.40	38.75	333.44	429.20	97.40	66.36	48.50	41.75		
12	27.75	80.60	122.30	75.88	79.40	34.25	347.84	420.02	98.60	61.25	43.50	39.75		
13	23.25	80.90	121.96	76.72	97.70	42.25	361.28	414.92	100.10	47.50	39.25	39.25		
14	18.20	82.10	122.98	77.60	87.80	46.50	371.06	408.80	100.10	45.75	32.50	42.75		
15	20.00	83.60	122.98	77.90	17.60	51.50	374.12	396.56	99.50	48.50	40.75	45.00		
16	23.50	84.20	120.94	79.10	11.44	75.04	365.12	379.22	95.90	51.00	43.50	44.25		
17	23.25	85.70	114.14	80.00	15.40	120.26	344.00	347.84	97.10	60.50	44.00	43.50		
18	25.00	84.20	118.22	83.60	12.45	210.46	321.92	322.88	98.00	61.00	43.25	41.00		
19	26.00	83.90	123.66	84.80	16.00	270.60	297.86	283.92	98.60	60.75	43.50	35.00		
20	26.75	86.90	124.00	98.30	24.75	260.80	272.70	242.02	99.20	64.40	42.25	36.00		
21	28.25	93.20	121.28	109.04	62.75	228.16	251.70	195.88	99.50	68.60	41.00	37.25		
22	27.50	99.50	119.92	109.38	81.50	196.96	213.64	147.56	96.20	70.00	42.00	37.25		
23	27.50	111.08	112.44	102.50	74.76	180.92	155.16	127.42	89.00	70.56	41.00	37.75		
24	28.25	128.94	107.68	98.60	57.00	175.64	98.90	115.16	83.60	70.56	42.25	40.00		
25	29.25	125.90	104.00	96.20	42.50	156.68	85.10	108.70	80.00	70.28	42.25	42.25		
26	28.50	119.58	101.90	93.50	28.25	159.34	81.20	105.50	76.72	70.56	42.50	42.25		
27	30.25	107.34	100.40	92.00	28.50	165.08	77.60	104.60	76.16	72.52	43.75	42.50		
28	25.50	89.60	94.70	87.80	30.75	166.40	75.32	104.60	76.16	77.30	38.00	45.00		
29	27.00	77.30	87.20	84.80	29.75	184.54	72.24	103.70	75.88	77.00		44.25		
30	36.50	83.30	82.70	82.40	27.25	234.10	73.36	103.10	75.32	75.32		43.75		
31		89.60		82.40	25.50		84.50		75.04	75.32		43.75		
Total	817.45	2689.77	3412.28	2784.88	1937.71	3200.39	7753.58	8577.96	2847.38	2038.43	1345.53	1284.75	38690.11	CMSDAY
Mean	27.25	86.77	113.74	89.83	62.51	106.68	250.12	285.93	91.85	65.76	48.05	41.44	106.00	CMS
Max	38.00	128.94	128.94	109.38	124.00	270.60	374.12	455.72	102.80	77.30	78.20	45.00	455.72	CMS
Min	18.20	51.50	82.70	75.88	11.44	10.96	72.24	103.10	75.04	45.75	32.50	35.00	10.96	CMS
Runoff	70.63	232.40	294.82	240.61	167.42	276.51	669.91	741.14	246.01	176.12	116.25	111.00	3342.83	MCM

Momentary Peak 457.76 CMS, at 160.88 m. (MSL.), at 03.00 Hours, on Nov 8, 2008

Runoff Yield 7.77 Liters/Second/Square KM. Momentary Peak Yield 33.57 Liters/Second/Square KM.

WATER YEAR : 2008

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.

	Ban Khai	**Amphoe** Mueang	**Changwat** Chaiyaphum
Drainge Area	6,282 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+174.000 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank about 20 meters from the automatic gage building.	**Elevation** +183.370 m. (MSL.)	
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1954 - 1956 , 1967 to date		
Rating Operation			
Period of Rating	1968 - 1974 , 1982 to date		
Rated by Float	-		
Rated by Current Meter	1968 - 1974 , 1982 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The local weir situated about 50 meters downstream from the gage site. Stage-discharge relation defined by 23 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

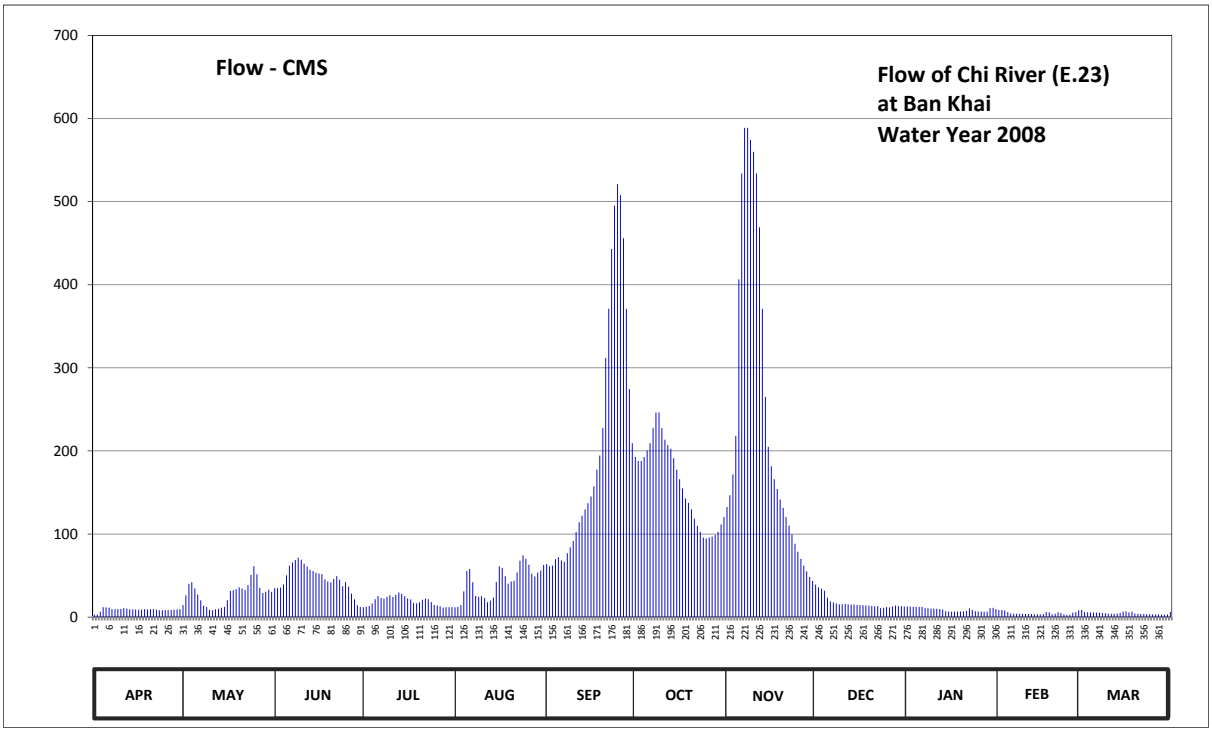
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.88	177.81	178.94	177.64	177.63	180.00	182.38	181.71	179.13	177.69	177.39	177.38	
2	176.91	178.51	178.94	177.69	177.66	179.91	182.35	181.96	178.99	177.69	177.37	177.17	
3	177.21	179.17	178.98	177.75	177.82	179.94	182.35	182.23	178.90	177.68	177.33	177.14	
4	177.64	179.25	179.14	177.96	178.75	180.18	182.38	182.50	178.79	177.67	177.17	177.13	
5	177.62	178.93	179.57	178.25	179.73	180.25	182.42	182.68	178.35	177.67	177.02	177.13	
6	177.60	178.56	179.93	178.47	179.81	180.13	182.46	182.78	178.10	177.66	177.01	177.11	
7	177.46	178.18	180.06	178.34	179.25	180.08	182.51	182.82	178.04	177.56	177.00	177.11	
8	177.47	177.76	180.15	178.30	178.47	180.40	182.53	182.82	177.95	177.54	177.01	177.09	
9	177.47	177.65	180.24	178.41	178.41	180.60	182.53	182.81	177.88	177.52	177.00	177.05	
10	177.48	177.37	180.16	178.52	178.46	180.79	182.51	182.80	177.88	177.51	176.99	177.02	
11	177.55	177.36	180.01	178.40	178.34	181.05	182.48	182.78	177.91	177.50	176.98	177.00	
12	177.51	177.45	179.90	178.54	178.05	181.32	182.45	182.73	177.88	177.49	176.96	177.00	
13	177.44	177.50	179.78	178.68	178.16	181.50	182.43	182.65	177.87	177.42	176.95	177.02	
14	177.43	177.59	179.73	178.60	178.36	181.65	182.37	182.55	177.86	177.26	176.93	177.07	
15	177.43	177.66	179.67	178.46	179.26	181.80	182.28	182.44	177.83	177.22	176.92	177.22	
16	177.41	178.19	179.64	178.31	179.91	181.94	182.18	182.31	177.81	177.21	176.96	177.24	
17	177.42	178.78	179.62	178.24	179.85	182.09	182.06	182.18	177.80	177.22	177.18	177.13	
18	177.47	178.82	179.39	178.00	179.54	182.28	181.91	182.05	177.79	177.23	177.14	177.21	
19	177.44	178.87	179.29	177.97	179.18	182.39	181.81	181.89	177.77	177.24	176.95	177.02	
20	177.45	178.99	179.24	178.05	179.29	182.51	181.65	181.69	177.75	177.24	177.01	177.00	
21	177.46	178.92	179.42	178.22	179.32	182.60	181.42	181.46	177.72	177.31	177.15	176.99	
22	177.42	178.84	179.54	178.30	179.68	182.65	181.22	181.23	177.73	177.54	177.09	176.98	
23	177.35	179.10	179.38	178.25	180.12	182.71	181.06	180.99	177.56	177.39	176.95	176.96	
24	177.35	179.59	179.05	178.06	180.32	182.75	180.89	180.71	177.58	177.26	176.86	176.94	
25	177.37	179.92	179.26	177.83	180.19	182.77	180.87	180.46	177.65	177.23	176.89	176.93	
26	177.37	179.61	179.03	177.78	179.97	182.76	180.89	180.19	177.63	177.23	177.12	176.92	
27	177.39	178.96	178.61	177.72	179.63	182.72	180.92	179.94	177.71	177.21	177.16	176.93	
28	177.40	178.64	178.24	177.61	179.53	182.65	180.97	179.72	177.77	177.21	177.34	176.91	
29	177.44	178.73	177.80	177.64	179.67	182.56	181.06	179.51	177.74	177.55		176.91	
30	177.47	178.85	177.65	177.64	179.75	182.46	181.26	179.31	177.72	177.58		176.93	
31		178.72		177.64	179.96		181.46		177.68	177.47		177.18	
Mean	177.41	178.53	179.35	178.11	179.16	181.58	181.87	181.73	177.96	177.43	177.07	177.06	
Max	177.64	179.92	180.24	178.68	180.32	182.77	182.53	182.82	179.13	177.69	177.39	177.38	182.82
Min	176.88	177.36	177.65	177.61	177.63	179.91	180.87	179.31	177.56	177.21	176.86	176.91	176.86

Annual Max Momentary Gage Height 182.82 m. (MSL.) , at 06.00 Hours, on Nov 7, 2008

Zero Gage at Bottom Elevation 174.00 m. (MSL.) , River Bed 175.29 m. (MSL.)

Left Bank Elevation 185.08 m. (MSL.) ,

Right Bank Elevation 185.44 m. (MSL.) , Drainage Are 6,282 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.80	14.34	34.80	11.96	11.82	64.00	192.80	132.50	39.12	12.66	8.68	8.56		
2	3.10	26.20	34.80	12.66	12.24	61.12	188.00	146.80	35.80	12.66	8.44	6.04		
3	6.52	40.08	35.60	13.50	14.48	62.08	188.00	171.60	34.00	12.52	7.96	5.68		
4	11.96	42.00	39.36	16.44	31.00	69.76	192.80	218.00	31.80	12.38	6.04	5.56		
5	11.68	34.60	50.24	21.50	55.36	72.00	200.40	406.40	23.30	12.38	4.24	5.56		
6	11.40	27.20	61.76	25.46	57.92	68.16	209.20	534.00	18.80	12.24	4.12	5.32		
7	9.52	20.24	65.92	23.12	42.00	66.56	227.40	588.80	17.72	10.84	4.00	5.32		
8	9.64	13.64	68.80	22.40	25.46	76.80	246.20	588.80	16.30	10.56	4.12	5.08		
9	9.64	12.10	71.68	24.38	24.38	84.00	246.20	574.40	15.32	10.28	4.00	4.60		
10	9.76	8.44	69.12	26.40	25.28	91.60	227.40	560.00	15.32	10.14	3.90	4.24		
11	10.70	8.32	64.32	24.20	23.12	102.20	213.60	534.00	15.74	10.00	3.80	4.00		
12	10.14	9.40	60.80	26.80	17.90	114.08	207.00	469.00	15.32	9.88	3.60	4.00		
13	9.28	10.00	56.96	29.60	19.88	122.00	202.60	371.00	15.18	9.04	3.50	4.24		
14	9.16	11.26	55.36	28.00	23.48	129.50	191.20	265.00	15.04	7.12	3.30	4.84		
15	9.16	12.24	53.44	25.28	42.24	137.00	177.60	204.80	14.62	6.64	3.20	6.64		
16	8.92	20.42	52.48	22.58	61.12	145.20	166.00	181.60	14.34	6.52	3.60	6.88		
17	9.04	31.60	51.84	21.32	59.20	157.20	154.80	166.00	14.20	6.64	6.16	5.56		
18	9.64	32.40	45.36	17.00	49.28	177.60	142.80	154.00	14.06	6.76	5.68	6.52		
19	9.28	33.40	42.96	16.58	40.32	194.40	137.50	141.50	13.78	6.88	3.50	4.24		
20	9.40	35.80	41.76	17.90	42.96	227.40	129.50	131.50	13.50	6.88	4.12	4.00		
21	9.52	34.40	46.08	20.96	43.68	312.00	118.48	120.24	13.08	7.72	5.80	3.90		
22	9.04	32.80	49.28	22.40	53.76	371.00	109.68	110.12	13.22	10.56	5.08	3.80		
23	8.20	38.40	45.12	21.50	67.84	443.00	102.64	99.60	10.84	8.68	3.50	3.60		
24	8.20	50.88	37.20	18.08	74.24	495.00	95.60	88.40	11.12	7.12	2.60	3.40		
25	8.44	61.44	42.24	14.62	70.08	521.00	94.80	78.72	12.10	6.76	2.90	3.30		
26	8.44	51.52	36.72	13.92	63.04	508.00	95.60	70.08	11.82	6.76	5.44	3.20		
27	8.68	35.20	28.20	13.08	52.16	456.00	96.80	62.08	12.94	6.52	5.92	3.30		
28	8.80	28.80	21.32	11.54	48.96	371.00	98.80	55.04	13.78	6.52	8.08	3.10		
29	9.28	30.60	14.20	11.96	53.44	274.40	102.64	48.32	13.36	10.70		3.10		
30	9.64	33.00	12.10	11.96	56.00	209.20	111.44	43.44	13.08	11.12		3.30		
31		30.40		11.96	62.72		120.24		12.52	9.64		6.16		
Total	268.98	871.12	1389.82	599.06	1325.36	6183.26	4987.72	7315.74	531.12	285.12	135.28	147.04	24039.62	CMSDAY
Mean	8.97	28.10	46.33	19.32	42.75	206.11	160.89	243.86	17.13	9.20	4.83	4.74	65.86	CMS
Max	11.96	61.44	71.68	29.60	74.24	521.00	246.20	588.80	39.12	12.66	8.68	8.56	588.80	CMS
Min	2.80	8.32	12.10	11.54	11.82	61.12	94.80	43.44	10.84	6.52	2.60	3.10	2.60	CMS
Runoff	23.24	75.26	120.08	51.76	114.51	534.23	430.94	632.08	45.89	24.63	11.69	12.70	2077.02	MCM

Momentary Peak 588.80 CMS, at 182.82 m. (MSL.), at 06.00 Hours, on Nov 7, 2008

Runoff Yield 10.48 Liters/Second/Square KM. Momentary Peak Yield 93.73 Liters/Second/Square KM.

WATER YEAR : 2008

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 right 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

Drainge 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 buiding. **Elevation** +236.945 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1956 - 1958 , 1967 to date
Rating Operation	
Period of Rating	1978 to date
Rated by Float	-
Rated by Current Meter	1978 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by Ubonrat Dam. Stage-discharge relation defined by 144 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

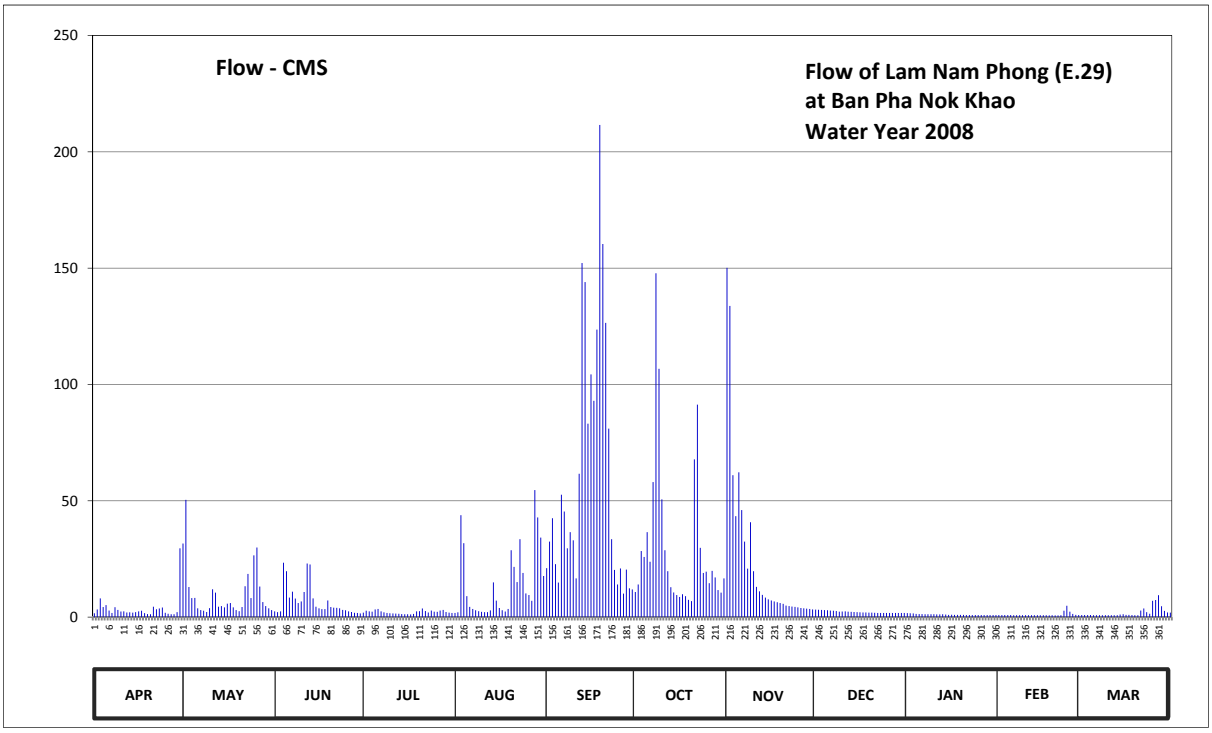
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	226.16	229.33	226.36	226.23	226.20	228.62	227.72	234.21	226.55	226.17	225.95	225.95	
2	226.58	230.37	226.29	226.43	226.26	229.38	228.08	233.68	226.54	226.16	225.96	225.96	
3	227.38	227.99	226.37	226.37	230.04	229.97	229.14	230.90	226.52	226.14	225.95	225.95	
4	226.84	227.40	228.80	226.34	229.34	228.75	228.99	230.02	226.50	226.09	225.95	225.95	
5	227.02	227.41	228.52	226.57	227.50	228.14	229.62	230.96	226.48	226.08	225.95	225.94	
6	226.45	226.69	227.42	226.62	226.85	230.48	228.83	230.15	226.45	226.07	225.94	225.93	
7	226.19	226.51	227.74	226.37	226.62	230.12	230.75	229.38	226.43	226.06	225.94	225.93	
8	226.82	226.43	227.37	226.26	226.49	229.21	234.14	228.60	226.41	226.06	225.94	225.93	
9	226.53	226.30	227.13	226.19	226.38	229.62	232.73	229.87	226.34	226.06	225.94	225.93	
10	226.35	226.72	227.22	226.16	226.31	229.41	230.38	228.52	226.35	226.05	225.94	225.93	
11	226.37	227.87	227.72	226.15	226.29	228.28	229.16	228.00	226.37	226.04	225.94	225.93	
12	226.25	227.69	228.77	226.13	226.28	230.93	228.52	227.76	226.33	226.04	225.94	225.94	
13	226.26	226.87	228.74	226.11	226.47	234.27	227.98	227.57	226.32	226.05	225.94	225.94	
14	226.23	226.93	227.38	226.08	228.15	234.03	227.70	227.42	226.30	226.02	225.93	226.02	
15	226.29	226.79	226.86	226.06	227.26	231.84	227.56	227.33	226.29	225.98	225.93	226.05	
16	226.36	227.10	226.69	226.05	226.73	232.64	227.46	227.27	226.26	226.01	225.94	225.98	
17	226.43	227.13	226.60	226.04	226.48	232.22	227.60	227.22	226.25	225.98	225.93	225.97	
18	226.17	226.79	226.60	226.10	226.35	233.33	227.50	227.17	226.24	225.98	225.91	225.96	
19	226.08	226.50	227.27	226.36	226.63	235.83	227.30	227.13	226.23	225.98	225.92	225.94	
20	226.05	226.39	226.83	226.39	229.16	234.51	227.23	227.09	226.23	225.97	225.91	225.94	
21	226.87	226.84	226.76	226.68	228.66	233.43	231.20	226.98	226.22	225.96	225.91	226.45	
22	226.59	228.02	226.74	226.41	228.16	231.75	232.16	226.93	226.20	225.96	225.92	226.67	
23	226.68	228.43	226.69	226.25	229.44	229.44	229.22	226.88	226.19	225.96	226.43	226.28	
24	226.78	227.40	226.52	226.45	228.46	228.56	228.46	226.85	226.20	225.96	226.97	226.11	
25	226.22	229.03	226.49	226.33	227.65	228.08	228.50	226.79	226.20	225.96	226.33	227.25	
26	226.11	229.23	226.36	226.31	227.56	228.61	228.12	226.73	226.19	225.96	226.09	227.29	
27	226.05	228.01	226.30	226.46	227.25	227.64	228.53	226.70	226.19	225.96	225.97	227.55	
28	226.06	227.18	226.21	226.52	230.58	228.57	228.31	226.66	226.19	225.96	225.95	226.92	
29	226.29	226.93	226.20	226.30	229.99	227.92	227.83	226.62	226.19	225.96		226.42	
30	229.21	226.69	226.14	226.23	229.48	227.86	227.69	226.58	226.20	225.96		226.25	
31		226.50		226.19	228.36		228.28		226.20	225.96		226.23	
Mean	226.52	227.40	227.04	226.29	227.66	230.45	228.93	228.27	226.31	226.02	226.01	226.21	
Max	229.21	230.37	228.80	226.68	230.58	235.83	234.14	234.21	226.55	226.17	226.97	227.55	235.83
Min	226.05	226.30	226.14	226.04	226.20	227.64	227.23	226.58	226.19	225.96	225.91	225.93	225.91

Annual Max Momentary Gage Height 236.23 m. (MSL.) , at 15.00 Hours, on Sep 19, 2008

Zero Gage at Bottom Elevation 225.00 m. (MSL.) , River Bed 225.42 m. (MSL.)

Left Bank Elevation 238.60 m. (MSL.) ,

Right Bank Elevation 238.60 m. (MSL.) , Drainage Are 949 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.64	31.61	2.44	1.92	1.80	21.06	10.76	150.14	3.20	1.68	0.88	0.88		
2	3.32	50.40	2.16	2.72	2.04	32.46	14.04	133.72	3.16	1.64	0.90	0.90		
3	8.04	12.92	2.48	2.48	43.80	42.49	28.38	61.00	3.08	1.56	0.88	0.88		
4	4.36	8.20	23.40	2.36	31.78	22.75	25.87	43.40	3.00	1.36	0.88	0.88		
5	5.16	8.28	19.76	3.28	9.00	14.82	36.54	62.20	2.92	1.32	0.88	0.85		
6	2.80	3.76	8.36	3.48	4.40	52.60	23.79	46.00	2.80	1.28	0.85	0.83		
7	1.76	3.04	10.92	2.48	3.48	45.40	58.00	32.46	2.72	1.24	0.85	0.83		
8	4.28	2.72	7.96	2.04	2.96	29.57	147.76	20.80	2.64	1.24	0.85	0.83		
9	3.12	2.20	6.04	1.76	2.52	36.54	106.71	40.79	2.36	1.24	0.85	0.83		
10	2.40	3.88	6.76	1.64	2.24	32.97	50.60	19.76	2.40	1.20	0.85	0.83		
11	2.48	11.96	10.76	1.60	2.16	16.64	28.72	13.00	2.48	1.16	0.85	0.83		
12	2.00	10.52	23.01	1.52	2.12	61.60	19.76	11.08	2.32	1.16	0.85	0.85		
13	2.04	4.48	22.62	1.44	2.88	152.18	12.84	9.56	2.28	1.20	0.85	0.85		
14	1.92	4.72	8.04	1.32	14.95	144.02	10.60	8.36	2.20	1.08	0.83	1.08		
15	2.16	4.16	4.44	1.24	7.08	83.16	9.48	7.64	2.16	0.95	0.83	1.20		
16	2.44	5.80	3.76	1.20	3.92	104.28	8.68	7.16	2.04	1.04	0.85	0.95		
17	2.72	6.04	3.40	1.16	2.92	92.94	9.80	6.76	2.00	0.95	0.83	0.93		
18	1.68	4.16	3.40	1.40	2.40	123.57	9.00	6.36	1.96	0.95	0.78	0.90		
19	1.32	3.00	7.16	2.44	3.52	211.52	7.40	6.04	1.92	0.95	0.80	0.85		
20	1.20	2.56	4.32	2.56	28.72	160.34	6.84	5.72	1.92	0.93	0.78	0.85		
21	4.48	4.36	4.04	3.72	21.58	126.47	67.80	4.92	1.88	0.90	0.78	2.80		
22	3.36	13.26	3.96	2.64	15.08	81.00	91.32	4.72	1.80	0.90	0.80	3.68		
23	3.72	18.59	3.76	2.00	33.48	33.48	29.74	4.52	1.76	0.90	2.72	2.12		
24	4.12	8.20	3.08	2.80	18.98	20.28	18.98	4.40	1.80	0.90	4.88	1.44		
25	1.88	26.51	2.96	2.32	10.20	14.04	19.50	4.16	1.80	0.90	2.32	7.00		
26	1.44	29.91	2.44	2.24	9.48	20.93	14.56	3.92	1.76	0.90	1.36	7.32		
27	1.20	13.13	2.20	2.84	7.00	10.12	19.89	3.80	1.76	0.90	0.93	9.40		
28	1.24	6.44	1.84	3.08	54.60	20.41	17.03	3.64	1.76	0.90	0.88	4.68		
29	2.16	4.72	1.80	2.20	42.83	12.36	11.64	3.48	1.76	0.90		2.68		
30	29.57	3.76	1.56	1.92	34.16	11.88	10.52	3.32	1.80	0.90		2.00		
31		3.00		1.76	17.68		16.64		1.80	0.90		1.92		
Total	110.01	316.29	208.83	67.56	439.76	1831.88	943.19	732.83	69.24	34.03	31.59	62.87	4848.08	CMSDAY
Mean	3.67	10.20	6.96	2.18	14.19	61.06	30.43	24.43	2.23	1.10	1.13	2.03	13.28	CMS
Max	29.57	50.40	23.40	3.72	54.60	211.52	147.76	150.14	3.20	1.68	4.88	9.40	211.52	CMS
Min	1.20	2.20	1.56	1.16	1.80	10.12	6.84	3.32	1.76	0.90	0.78	0.83	0.78	CMS
Runoff	9.50	27.33	18.04	5.84	38.00	158.27	81.49	63.32	5.98	2.94	2.73	5.43	418.87	MCM

Momentary Peak 230.04 CMS, at 236.23 m. (MSL.), at 15.00 Hours, on Sep 19, 2008

Runoff Yield 14.00 Liters/Second/Square KM. Momentary Peak Yield 242.40 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +210.661 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1966 to date
Rating Operation	
Period of Rating	1968 to date
Rated by Float	-
Rated by Current Meter	1968 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

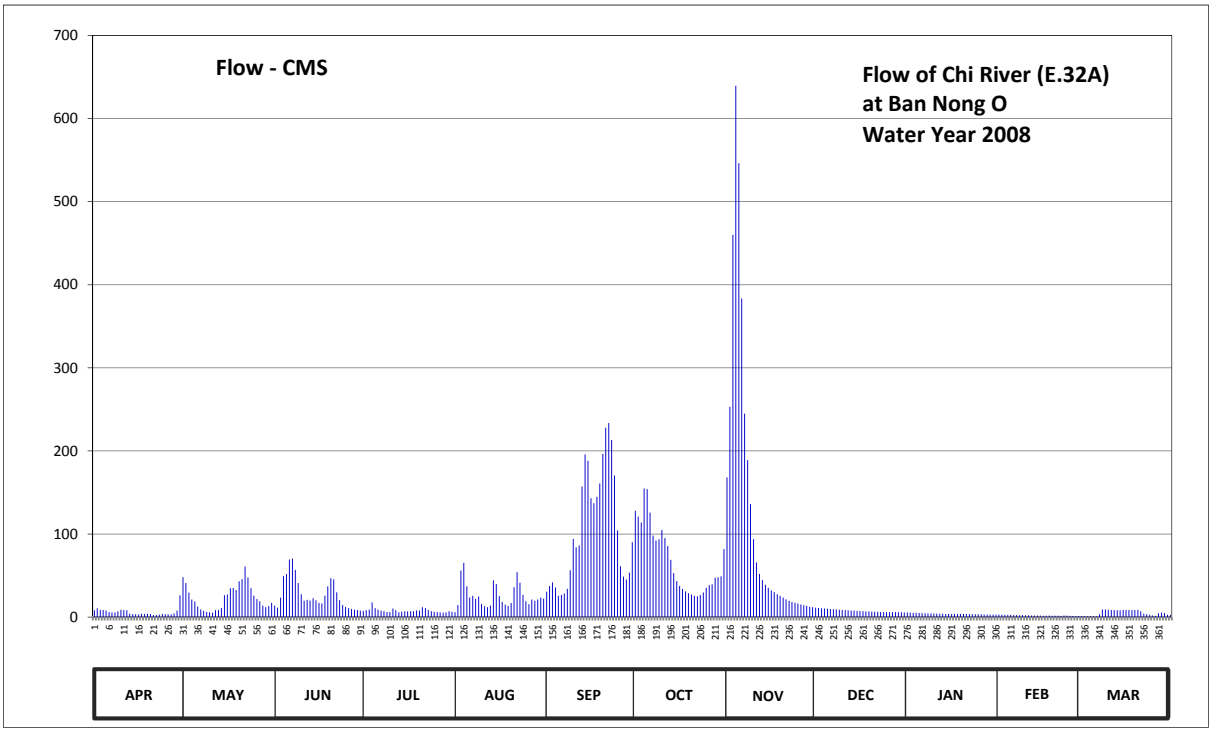
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	199.35	201.41	199.70	199.30	199.20	200.58	204.56	206.00	199.55	199.15	198.90	198.71	
2	199.51	201.09	199.55	199.37	199.73	200.92	204.29	208.27	199.53	199.13	198.88	198.68	
3	199.36	200.52	200.22	199.40	201.77	201.13	204.03	209.60	199.50	199.12	198.87	198.69	
4	199.38	200.11	201.47	199.92	202.17	200.83	205.53	210.11	199.49	199.11	198.88	198.68	
5	199.32	199.99	201.58	199.52	200.90	200.34	205.50	209.89	199.47	199.10	198.87	198.66	
6	199.19	199.63	202.33	199.39	200.23	200.39	204.47	209.23	199.45	199.08	198.85	198.66	
7	199.15	199.42	202.38	199.32	200.33	200.47	203.45	208.15	199.43	199.06	198.85	198.95	
8	199.16	199.30	201.81	199.27	200.15	200.75	203.23	206.72	199.41	199.04	198.83	199.41	
9	199.26	199.22	201.09	199.21	200.29	201.79	203.28	204.85	199.39	199.04	198.85	199.41	
10	199.39	199.17	200.43	199.19	199.82	203.30	203.70	203.29	199.37	199.03	198.82	199.39	
11	199.37	199.14	200.04	199.49	199.65	202.92	203.34	202.19	199.36	199.03	198.81	199.36	
12	199.35	199.36	200.09	199.35	199.58	203.01	202.98	201.59	199.35	199.01	198.80	199.36	
13	199.00	199.37	200.05	199.20	199.70	205.61	202.32	201.25	199.33	199.00	198.78	199.35	
14	198.97	199.53	200.19	199.24	201.24	206.96	201.63	200.99	199.32	198.99	198.80	199.35	
15	198.94	200.37	200.06	199.27	201.04	206.69	201.20	200.81	199.30	198.98	198.80	199.38	
16	198.92	200.41	199.89	199.26	200.31	205.11	200.93	200.66	199.29	198.99	198.77	199.37	
17	199.00	200.78	199.85	199.28	199.96	204.89	200.74	200.55	199.27	198.99	198.77	199.36	
18	198.99	200.80	200.34	199.27	199.77	205.17	200.60	200.43	199.26	198.99	198.79	199.37	
19	199.00	200.68	200.90	199.34	199.68	205.74	200.48	200.33	199.26	198.98	198.76	199.37	
20	198.96	201.19	201.35	199.33	199.88	206.98	200.41	200.22	199.24	198.98	198.77	199.38	
21	198.85	201.31	201.29	199.58	200.85	207.84	200.33	200.12	199.23	198.98	198.76	199.26	
22	198.84	201.99	200.54	199.52	201.69	207.95	200.30	200.03	199.22	198.96	198.74	199.00	
23	198.90	201.40	200.07	199.38	201.11	207.48	200.38	199.96	199.21	198.96	198.78	198.94	
24	198.99	200.79	199.74	199.28	200.39	206.08	200.53	199.90	199.20	198.95	198.78	198.89	
25	198.94	200.34	199.60	199.22	200.00	203.68	200.81	199.84	199.20	198.94	198.74	198.80	
26	198.95	200.14	199.52	199.19	199.80	202.01	200.97	199.78	199.20	198.93	198.71	198.73	
27	198.93	200.00	199.45	199.17	200.11	201.44	201.02	199.72	199.19	198.92	198.70	199.06	
28	199.05	199.70	199.40	199.14	200.04	201.28	201.38	199.67	199.19	198.91	198.71	199.13	
29	199.33	199.58	199.36	199.18	200.11	201.66	201.41	199.62	199.19	198.90		199.08	
30	200.36	199.66	199.33	199.27	200.22	203.15	201.46	199.58	199.17	198.89		198.89	
31		199.89		199.22	200.17		202.83		199.15	198.89		198.86	
Mean	199.16	200.20	200.39	199.32	200.32	203.54	202.20	202.78	199.31	199.00	198.80	199.08	
Max	200.36	201.99	202.38	199.92	202.17	207.95	205.53	210.11	199.55	199.15	198.90	199.41	210.11
Min	198.84	199.14	199.33	199.14	199.20	200.34	200.30	199.58	199.15	198.89	198.70	198.66	198.66

Annual Max Momentary Gage Height 210.15 m. (MSL.) , at 18.00 Hours, on Nov 4, 2008

Zero Gage at Bottom Elevation 198.00 m. (MSL.) , River Bed 197.19 m. (MSL.)

Left Bank Elevation 212.73 m. (MSL.) ,

Right Bank Elevation 210.84 m. (MSL.) , Drainage Are 2,867 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.25	48.02	13.90	7.50	6.00	30.60	128.12	168.00	11.35	5.50	3.00	1.28		
2	10.67	40.98	11.35	8.55	14.41	37.40	120.83	252.90	11.01	5.30	2.80	1.12		
3	8.40	29.40	23.40	9.00	55.94	41.86	113.81	460.00	10.50	5.20	2.70	1.16		
4	8.70	21.20	49.34	17.64	65.25	35.60	154.84	639.50	10.35	5.10	2.80	1.12		
5	7.80	18.83	51.76	10.84	37.00	25.80	154.00	546.20	10.05	5.00	2.70	1.04		
6	5.90	12.71	69.25	8.85	23.60	26.80	125.69	383.40	9.75	4.80	2.50	1.04		
7	5.50	9.30	70.50	7.80	25.60	28.40	98.15	245.00	9.45	4.60	2.50	3.50		
8	5.60	7.50	56.82	7.05	22.00	34.00	92.21	188.88	9.15	4.40	2.30	9.15		
9	6.90	6.30	40.98	6.15	24.80	56.38	93.56	135.95	8.85	4.40	2.50	9.15		
10	8.85	5.70	27.60	5.90	15.94	94.10	104.90	93.83	8.55	4.30	2.20	8.85		
11	8.55	5.40	19.80	10.35	13.05	84.00	95.18	65.75	8.40	4.30	2.10	8.40		
12	8.25	8.40	20.80	8.25	11.86	86.27	85.50	51.98	8.25	4.10	2.00	8.40		
13	4.00	8.55	20.00	6.00	13.90	157.08	69.00	44.50	7.95	4.00	1.84	8.25		
14	3.70	11.01	22.80	6.60	44.28	195.84	52.86	38.80	7.80	3.90	2.00	8.25		
15	3.40	26.40	20.20	7.05	39.88	188.01	43.40	35.20	7.50	3.80	2.00	8.70		
16	3.20	27.20	17.13	6.90	25.20	143.08	37.60	32.20	7.35	3.90	1.76	8.55		
17	4.00	34.60	16.45	7.20	18.32	137.03	33.80	30.00	7.05	3.90	1.76	8.40		
18	3.90	35.00	25.80	7.05	15.09	144.76	31.00	27.60	6.90	3.90	1.92	8.55		
19	4.00	32.60	37.00	8.10	13.56	160.72	28.60	25.60	6.90	3.80	1.68	8.55		
20	3.60	43.18	46.70	7.95	16.96	196.42	27.20	23.40	6.60	3.80	1.76	8.70		
21	2.50	45.82	45.38	11.86	36.00	228.00	25.60	21.40	6.45	3.80	1.68	6.90		
22	2.40	60.78	29.80	10.84	54.18	233.50	25.00	19.60	6.30	3.60	1.52	4.00		
23	3.00	47.80	20.40	8.70	41.42	213.20	26.60	18.32	6.15	3.60	1.84	3.40		
24	3.90	34.80	14.58	7.20	26.80	170.32	29.60	17.30	6.00	3.50	1.84	2.90		
25	3.40	25.80	12.20	6.30	19.00	104.36	35.20	16.28	6.00	3.40	1.52	2.00		
26	3.50	21.80	10.84	5.90	15.60	61.25	38.40	15.26	6.00	3.30	1.28	1.44		
27	3.30	19.00	9.75	5.70	21.20	48.68	39.44	14.24	5.90	3.20	1.20	4.60		
28	4.50	13.90	9.00	5.40	19.80	45.16	47.36	13.39	5.90	3.10	1.28	5.30		
29	7.95	11.86	8.40	5.80	21.20	53.52	48.02	12.54	5.90	3.00		4.80		
30	26.20	13.22	7.95	7.05	23.40	90.05	49.12	11.86	5.70	2.90		2.90		
31		17.13		6.30	22.40		81.75		5.50	2.90		2.60		
Total	183.82	744.19	829.88	245.78	803.64	3152.19	2136.34	3648.88	239.51	124.30	56.98	163.00	12328.51	CMSDAY
Mean	6.13	24.01	27.66	7.93	25.92	105.07	68.91	121.63	7.73	4.01	2.04	5.26	33.78	CMS
Max	26.20	60.78	70.50	17.64	65.25	233.50	154.84	639.50	11.35	5.50	3.00	9.15	639.50	CMS
Min	2.40	5.40	7.95	5.40	6.00	25.80	25.00	11.86	5.50	2.90	1.20	1.04	1.04	CMS
Runoff	15.88	64.30	71.70	21.24	69.43	272.35	184.58	315.26	20.69	10.74	4.92	14.08	1065.18	MCM

Momentary Peak 657.50 CMS, at 210.15 m. (MSL.), at 18.00 Hours, on Nov 4, 2008

Runoff Yield 11.78 Liters/Second/Square KM. Momentary Peak Yield 229.33 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	1969 to date		
Rating Operation			
Period of Rating	1969 - 1977 , 1983 to date		
Rated by Float	-		
Rated by Current Meter	1969 - 1977 , 1983 to date		
Stability of Channel Regimes	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 22 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

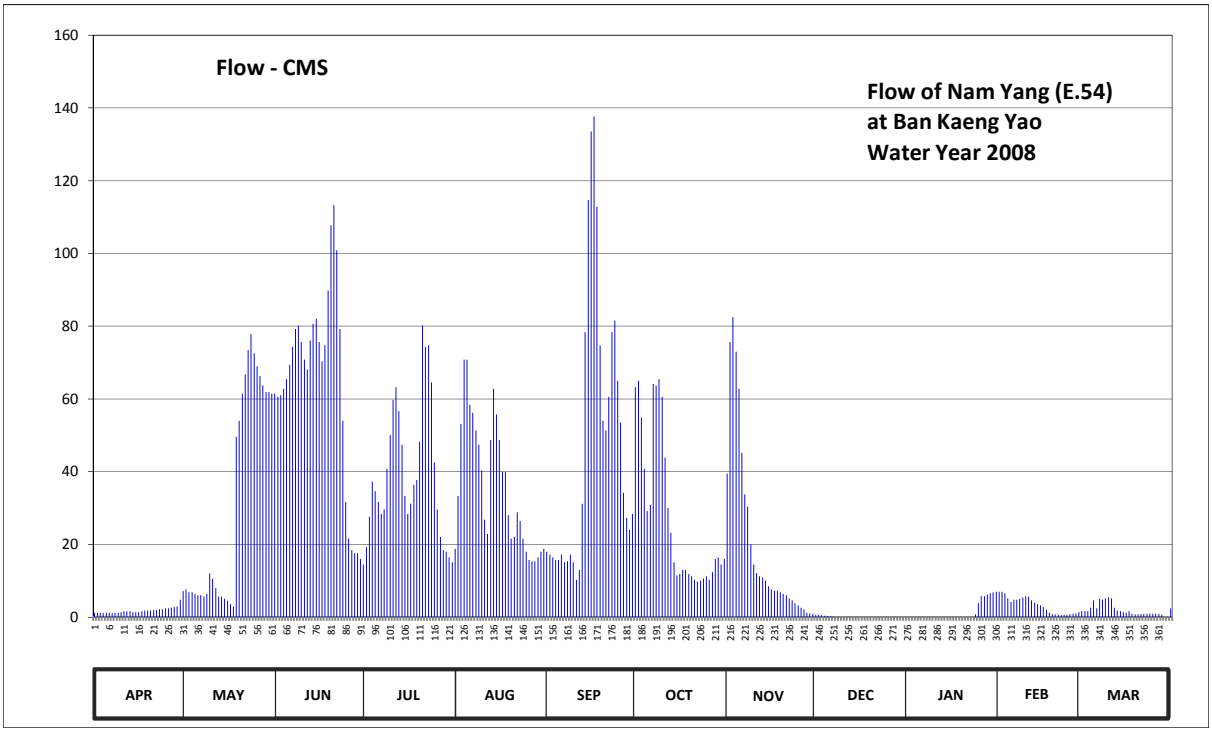
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.31	140.53	140.67	139.55	139.67	139.65	140.71	140.17	138.94	138.58	139.30	139.03	
2	140.31	140.54	140.65	139.68	140.03	139.63	140.75	140.99	138.93	138.58	139.30	139.03	
3	140.31	140.52	140.66	139.89	140.48	139.61	140.52	141.14	138.91	138.56	139.28	139.03	
4	140.31	140.52	140.70	140.12	140.88	139.59	140.20	140.93	138.89	138.57	139.21	139.08	
5	140.31	140.51	140.76	140.06	140.88	139.59	139.93	140.70	138.87	138.57	139.16	139.18	
6	140.31	140.50	140.85	139.99	140.60	139.63	139.97	140.30	138.85	138.58	139.19	139.07	
7	140.31	140.50	140.96	139.91	140.55	139.57	140.73	140.04	138.83	138.58	139.19	139.20	
8	140.31	140.49	141.07	139.94	140.44	139.58	140.72	139.96	138.80	138.58	139.20	139.19	
9	140.31	140.51	141.09	140.20	140.35	139.63	140.76	139.70	138.77	138.58	139.22	139.21	
10	140.32	140.64	140.99	140.41	140.19	139.57	140.65	139.55	138.74	138.58	139.24	139.22	
11	140.33	140.61	140.88	140.63	139.87	139.41	140.27	139.47	138.73	138.58	139.23	139.21	
12	140.33	140.55	140.82	140.71	139.77	139.50	139.95	139.44	138.73	138.58	139.18	139.08	
13	140.33	140.49	141.00	140.56	140.38	139.98	139.78	139.43	138.70	138.58	139.15	139.04	
14	140.32	140.49	141.10	140.35	140.70	141.05	139.57	139.40	138.68	138.58	139.13	139.03	
15	140.32	140.47	141.13	140.03	140.54	141.84	139.45	139.35	138.69	138.58	139.11	139.02	
16	140.32	140.45	140.99	139.91	140.38	142.22	139.46	139.32	138.78	138.59	139.09	139.01	
17	140.33	140.42	140.87	139.98	140.18	142.30	139.50	139.31	138.65	138.59	139.05	139.03	
18	140.34	140.40	140.97	140.10	140.18	141.80	139.50	139.31	138.59	138.59	139.01	138.99	
19	140.34	140.40	141.30	140.13	139.90	140.97	139.46	139.29	138.57	138.59	138.97	138.96	
20	140.34	140.50	141.69	140.37	139.74	140.50	139.44	139.27	138.57	138.59	138.95	138.95	
21	140.35	140.67	141.81	141.09	139.75	140.44	139.41	139.25	138.57	138.59	138.93	138.97	
22	140.35	140.79	141.54	140.96	139.92	140.65	139.39	139.21	138.57	138.60	138.92	138.99	
23	140.36	140.94	141.07	140.97	139.86	141.05	139.40	139.18	138.57	138.77	138.93	138.99	
24	140.36	141.04	140.50	140.74	139.74	141.12	139.42	139.14	138.58	138.95	138.94	138.99	
25	140.37	140.92	139.99	140.24	139.65	140.75	139.44	139.11	138.56	139.14	138.97	138.99	
26	140.37	140.84	139.74	139.94	139.59	140.49	139.41	139.08	138.57	139.24	138.98	138.99	
27	140.38	140.78	139.66	139.75	139.58	140.05	139.48	139.06	138.58	139.24	139.00	138.99	
28	140.39	140.72	139.64	139.66	139.58	139.88	139.60	139.01	138.59	139.26	139.02	138.93	
29	140.40	140.68	139.64	139.65	139.61	139.80	139.61	139.00	138.59	139.28		138.75	
30	140.46	140.68	139.60	139.61	139.65	139.91	139.55	138.99	138.59	139.29		138.81	
31		140.67		139.57	139.67		139.60		138.58	139.30		139.07	
Mean	140.34	140.61	140.74	140.15	140.07	140.33	139.86	139.60	138.70	138.75	139.10	139.03	
Max	140.46	141.04	141.81	141.09	140.88	142.30	140.76	141.14	138.94	139.30	139.30	139.22	142.30
Min	140.31	140.40	139.60	139.55	139.58	139.41	139.39	138.99	138.56	138.56	138.92	138.75	138.56

Annual Max Momentary Gage Height 142.39 m. (MSL.) , at 03.00 Hours, on Sep 17, 2008

Zero Gage at Bottom Elevation 138.34 m. (MSL.) , River Bed 138.11 m. (MSL.)

Left Bank Elevation 150.02 m. (MSL.) ,

Right Bank Elevation 150.05 m. (MSL.) , Drainage Are 1,548 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.20	7.20	61.48	14.50	18.80	18.00	63.24	39.48	0.70	0.00	7.00	1.60		
2	1.20	7.60	60.60	19.20	33.32	17.20	65.00	75.56	0.65	0.00	7.00	1.60		
3	1.20	6.80	61.04	27.60	53.12	16.40	54.88	82.44	0.55	0.00	6.60	1.60		
4	1.20	6.80	62.80	37.28	70.72	15.70	40.80	72.92	0.45	0.00	5.20	2.60		
5	1.20	6.40	65.44	34.64	70.72	15.70	29.20	62.80	0.35	0.00	4.20	4.60		
6	1.20	6.00	69.40	31.60	58.40	17.20	30.80	45.20	0.25	0.00	4.80	2.40		
7	1.20	6.00	74.24	28.40	56.20	15.10	64.12	33.76	0.15	0.00	4.80	5.00		
8	1.20	5.70	79.22	29.60	51.36	15.40	63.68	30.40	0.00	0.00	5.00	4.80		
9	1.20	6.40	80.14	40.80	47.40	17.20	65.44	20.00	0.00	0.00	5.40	5.20		
10	1.40	12.00	75.56	50.04	40.36	15.10	60.60	14.50	0.00	0.00	5.80	5.40		
11	1.60	10.50	70.72	59.72	26.80	10.30	43.88	12.10	0.00	0.00	5.60	5.20		
12	1.60	8.00	68.08	63.24	22.80	13.00	30.00	11.20	0.00	0.00	4.60	2.60		
13	1.60	5.70	76.00	56.64	48.72	31.20	23.20	10.90	0.00	0.00	4.00	1.80		
14	1.40	5.70	80.60	47.40	62.80	78.30	15.10	10.00	0.00	0.00	3.60	1.60		
15	1.40	5.10	81.98	33.32	55.76	114.64	11.50	8.50	0.00	0.00	3.20	1.40		
16	1.40	4.50	75.56	28.40	48.72	133.44	11.80	7.60	0.00	0.00	2.80	1.20		
17	1.60	3.60	70.28	31.20	39.92	137.60	13.00	7.30	0.00	0.00	2.00	1.60		
18	1.80	3.00	74.68	36.40	39.92	112.80	13.00	7.30	0.00	0.00	1.20	0.95		
19	1.80	49.60	89.80	37.72	28.00	74.68	11.80	6.80	0.00	0.00	0.85	0.80		
20	1.80	54.00	107.74	48.28	21.60	54.00	11.20	6.40	0.00	0.00	0.75	0.75		
21	2.00	61.48	113.26	80.14	22.00	51.36	10.30	6.00	0.00	0.00	0.65	0.85		
22	2.00	66.76	100.84	74.24	28.80	60.60	9.70	5.20	0.00	0.00	0.60	0.95		
23	2.20	73.36	79.22	74.68	26.40	78.30	10.00	4.60	0.00	0.00	0.65	0.95		
24	2.20	77.84	54.00	64.56	21.60	81.52	10.60	3.80	0.00	0.75	0.70	0.95		
25	2.40	72.48	31.60	42.56	18.00	65.00	11.20	3.20	0.00	3.80	0.85	0.95		
26	2.40	68.96	21.60	29.60	15.70	53.56	10.30	2.60	0.00	5.80	0.90	0.95		
27	2.60	66.32	18.40	22.00	15.40	34.20	12.40	2.20	0.00	5.80	1.00	0.95		
28	2.80	63.68	17.60	18.40	15.40	27.20	16.00	1.20	0.00	6.20	1.40	0.65		
29	3.00	61.92	17.60	18.00	16.40	24.00	16.40	1.00	0.00	6.60		0.00		
30	4.80	61.92	16.00	16.40	18.00	28.40	14.50	0.95	0.00	6.80		0.05		
31		61.48		15.10	18.80		16.00		0.00	7.00		2.40		
Total	54.60	956.80	1955.48	1211.66	1111.94	1427.10	859.64	595.91	3.10	42.75	91.15	62.35	8372.48	CMSDAY
Mean	1.82	30.86	65.18	39.09	35.87	47.57	27.73	19.86	0.10	1.38	3.26	2.01	22.94	CMS
Max	4.80	77.84	113.26	80.14	70.72	137.60	65.44	82.44	0.70	7.00	7.00	5.40	137.60	CMS
Min	1.20	3.00	16.00	14.50	15.40	10.30	9.70	0.95	0.00	0.00	0.60	0.00	0.00	CMS
Runoff	4.72	82.67	168.95	104.69	96.07	123.30	74.27	51.49	0.27	3.69	7.88	5.39	723.38	MCM

Momentary Peak 142.28 CMS, at 142.39 m. (MSL.), at 03.00 Hours, on Sep 17, 2008

Runoff Yield 14.82 Liters/Second/Square KM. Momentary Peak Yield 91.91 Liters/Second/Square KM.

WATER YEAR : 2008

CHI RIVER BASIN

Nam Yang at Ban Kut Chim Khum Mai, 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 Mai.

Ban Kut Chim Khum Mai **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.- H.D.
Location BM	On right bank at the footpath of the bridge. **Elevation** +177.855 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 mean 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 Float	-
Rated by Current Meter	1969 - 1970, 1984 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The local weir situated about 100 meters from the gage site. Stage-discharge relation defined by 20 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

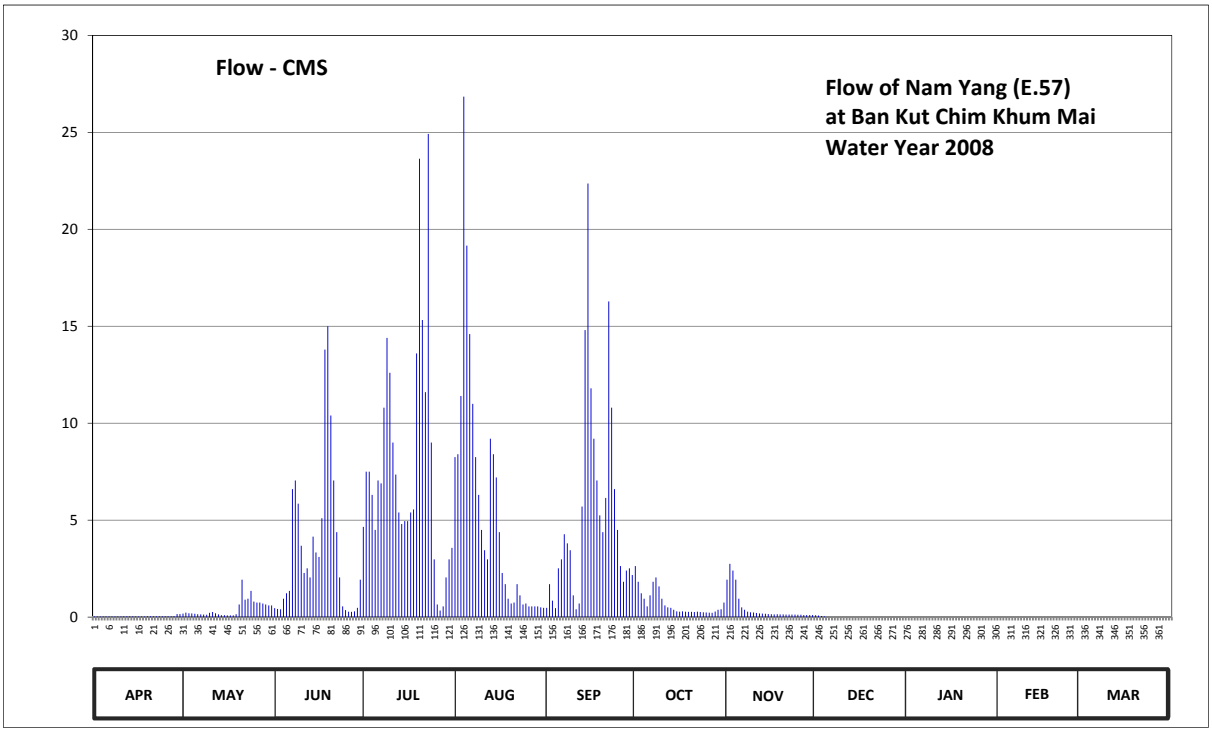
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	170.06	170.28	170.48	170.91	171.15	170.49	170.74	170.68	170.20	169.94	169.94	169.94	
2	170.06	170.33	170.46	171.10	171.16	170.66	170.67	170.75	170.16	169.94	169.94	169.94	
3	170.06	170.30	170.45	171.10	171.32	170.57	170.62	170.72	170.12	169.94	169.94	169.94	
4	170.06	170.29	170.59	171.02	171.87	170.48	170.59	170.68	170.05	169.94	169.94	169.94	
5	170.06	170.27	170.62	170.90	171.63	170.73	170.51	170.59	169.98	169.94	169.94	169.94	
6	170.06	170.25	170.63	171.07	171.48	170.77	170.61	170.50	169.96	169.94	169.94	169.94	
7	170.06	170.24	171.04	171.06	171.30	170.88	170.67	170.44	169.94	169.94	169.94	169.94	
8	170.06	170.23	171.07	171.29	171.15	170.84	170.69	170.38	169.94	169.94	169.94	169.94	
9	170.06	170.22	170.99	171.47	171.02	170.81	170.65	170.35	169.94	169.94	169.94	169.94	
10	170.06	170.32	170.83	171.38	170.90	170.61	170.59	170.34	169.94	169.94	169.94	169.94	
11	170.07	170.36	170.71	171.20	170.81	170.45	170.52	170.31	169.94	169.94	169.94	169.94	
12	170.07	170.30	170.73	171.09	170.77	170.54	170.50	170.29	169.94	169.94	169.94	169.94	
13	170.07	170.24	170.69	170.96	171.21	170.98	170.49	170.28	169.94	169.94	169.94	169.94	
14	170.07	170.20	170.87	170.92	171.16	171.49	170.44	170.27	169.94	169.94	169.94	169.94	
15	170.06	170.19	170.80	170.93	171.08	171.73	170.40	170.26	169.94	169.94	169.94	169.94	
16	170.06	170.18	170.78	170.93	170.89	171.34	170.38	170.25	169.94	169.94	169.94	169.94	
17	170.06	170.18	170.94	170.96	170.71	171.21	170.40	170.24	169.94	169.94	169.94	169.94	
18	170.06	170.18	171.44	170.97	170.66	171.07	170.38	170.25	169.94	169.94	169.94	169.94	
19	170.07	170.25	171.50	171.43	170.59	170.95	170.37	170.24	169.94	169.94	169.94	169.94	
20	170.07	170.53	171.27	171.77	170.54	170.89	170.37	170.24	169.94	169.94	169.94	169.94	
21	170.07	170.68	171.07	171.51	170.55	171.01	170.36	170.23	169.94	169.94	169.94	169.94	
22	170.07	170.58	170.89	171.33	170.66	171.54	170.38	170.23	169.94	169.94	169.94	169.94	
23	170.08	170.59	170.69	171.81	170.61	171.29	170.36	170.23	169.94	169.94	169.94	169.94	
24	170.08	170.63	170.51	171.20	170.53	171.04	170.35	170.23	169.94	169.94	169.94	169.94	
25	170.08	170.56	170.43	170.77	170.54	170.90	170.34	170.22	169.94	169.94	169.94	169.94	
26	170.08	170.55	170.38	170.53	170.51	170.74	170.33	170.22	169.94	169.94	169.94	169.94	
27	170.08	170.55	170.37	170.42	170.51	170.67	170.32	170.21	169.94	169.94	169.94	169.94	
28	170.09	170.54	170.40	170.51	170.51	170.72	170.39	170.21	169.94	169.94	169.94	169.94	
29	170.26	170.53	170.49	170.69	170.51	170.73	170.44	170.21	169.94	169.94		169.94	
30	170.26	170.52	170.68	170.77	170.50	170.70	170.45	170.21	169.94	169.94		169.94	
31		170.52		170.82	170.49		170.55		169.94	169.94		169.94	
Mean	170.08	170.37	170.76	171.06	170.88	170.89	170.48	170.34	169.97	169.94	169.94	169.94	
Max	170.26	170.68	171.50	171.81	171.87	171.73	170.74	170.75	170.20	169.94	169.94	169.94	171.87
Min	170.06	170.18	170.37	170.42	170.49	170.45	170.32	170.21	169.94	169.94	169.94	169.94	169.94

Annual Max Momentary Gage Height 172.07 m. (MSL.) , at 15.00 Hours, on Jul 23, 2008

Zero Gage at Bottom Elevation 170.10 m. (MSL.) , River Bed 169.64 m. (MSL.)

Left Bank Elevation 176.94 m. (MSL.) ,

Right Bank Elevation 175.93 m. (MSL.) , Drainage Are 103 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.03	0.18	0.46	4.65	8.25	0.48	2.63	1.93	0.10	0.00	0.00	0.00		
2	0.03	0.23	0.42	7.50	8.40	1.70	1.82	2.75	0.08	0.00	0.00	0.00		
3	0.03	0.20	0.40	7.50	11.40	0.85	1.23	2.40	0.06	0.00	0.00	0.00		
4	0.03	0.19	0.95	6.30	26.84	0.46	0.95	1.93	0.03	0.00	0.00	0.00		
5	0.03	0.17	1.23	4.50	19.16	2.52	0.55	0.95	0.00	0.00	0.00	0.00		
6	0.03	0.15	1.35	7.05	14.60	2.98	1.12	0.50	0.00	0.00	0.00	0.00		
7	0.03	0.14	6.60	6.90	11.00	4.27	1.82	0.38	0.00	0.00	0.00	0.00		
8	0.03	0.13	7.05	10.80	8.25	3.80	2.05	0.28	0.00	0.00	0.00	0.00		
9	0.03	0.12	5.85	14.40	6.30	3.45	1.58	0.25	0.00	0.00	0.00	0.00		
10	0.03	0.22	3.68	12.60	4.50	1.12	0.95	0.24	0.00	0.00	0.00	0.00		
11	0.04	0.26	2.28	9.00	3.45	0.40	0.60	0.21	0.00	0.00	0.00	0.00		
12	0.04	0.20	2.52	7.35	2.98	0.70	0.50	0.19	0.00	0.00	0.00	0.00		
13	0.04	0.14	2.05	5.40	9.20	5.70	0.48	0.18	0.00	0.00	0.00	0.00		
14	0.04	0.10	4.15	4.80	8.40	14.80	0.38	0.17	0.00	0.00	0.00	0.00		
15	0.03	0.10	3.33	4.95	7.20	22.36	0.30	0.16	0.00	0.00	0.00	0.00		
16	0.03	0.09	3.10	4.95	4.38	11.80	0.28	0.15	0.00	0.00	0.00	0.00		
17	0.03	0.09	5.10	5.40	2.28	9.20	0.30	0.14	0.00	0.00	0.00	0.00		
18	0.03	0.09	13.80	5.55	1.70	7.05	0.28	0.15	0.00	0.00	0.00	0.00		
19	0.04	0.15	15.00	13.60	0.95	5.25	0.27	0.14	0.00	0.00	0.00	0.00		
20	0.04	0.65	10.40	23.64	0.70	4.38	0.27	0.14	0.00	0.00	0.00	0.00		
21	0.04	1.93	7.05	15.32	0.75	6.15	0.26	0.13	0.00	0.00	0.00	0.00		
22	0.04	0.90	4.38	11.60	1.70	16.28	0.28	0.13	0.00	0.00	0.00	0.00		
23	0.04	0.95	2.05	24.92	1.12	10.80	0.26	0.13	0.00	0.00	0.00	0.00		
24	0.04	1.35	0.55	9.00	0.65	6.60	0.25	0.13	0.00	0.00	0.00	0.00		
25	0.04	0.80	0.36	2.98	0.70	4.50	0.24	0.12	0.00	0.00	0.00	0.00		
26	0.04	0.75	0.28	0.65	0.55	2.63	0.23	0.12	0.00	0.00	0.00	0.00		
27	0.04	0.75	0.27	0.34	0.55	1.82	0.22	0.11	0.00	0.00	0.00	0.00		
28	0.05	0.70	0.30	0.55	0.55	2.40	0.29	0.11	0.00	0.00	0.00	0.00		
29	0.16	0.65	0.48	2.05	0.55	2.52	0.38	0.11	0.00	0.00		0.00		
30	0.16	0.60	1.93	2.98	0.50	2.17	0.40	0.11	0.00	0.00		0.00		
31		0.60		3.57	0.48		0.75		0.00	0.00		0.00		
Total	1.31	13.58	107.37	240.80	168.04	159.14	21.92	14.44	0.27	0.00	0.00	0.00	726.87	CMSDAY
Mean	0.04	0.44	3.58	7.77	5.42	5.30	0.71	0.48	0.01	0.00	0.00	0.00	1.99	CMS
Max	0.16	1.93	15.00	24.92	26.84	22.36	2.63	2.75	0.10	0.00	0.00	0.00	26.84	CMS
Min	0.03	0.09	0.27	0.34	0.48	0.40	0.22	0.11	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.11	1.17	9.28	20.81	14.52	13.75	1.89	1.25	0.02	0.00	0.00	0.00	62.80	MCM

Momentary Peak 33.66 CMS, at 172.07 m. (MSL.), at 15.00 Hours, on Jul 23, 2008

Runoff Yield 19.33 Liters/Second/Square KM. Momentary Peak Yield 326.80 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 3 readings
Period of Available Gage Records	1979 to date
Rating Operation	
Period of Rating	1979 - 1980 , 1997 to date
Rated by Float	-
Rated by Current Meter	1979 - 1980 , 1997 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	Overbank flow starts at elevation +258.410 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 14 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

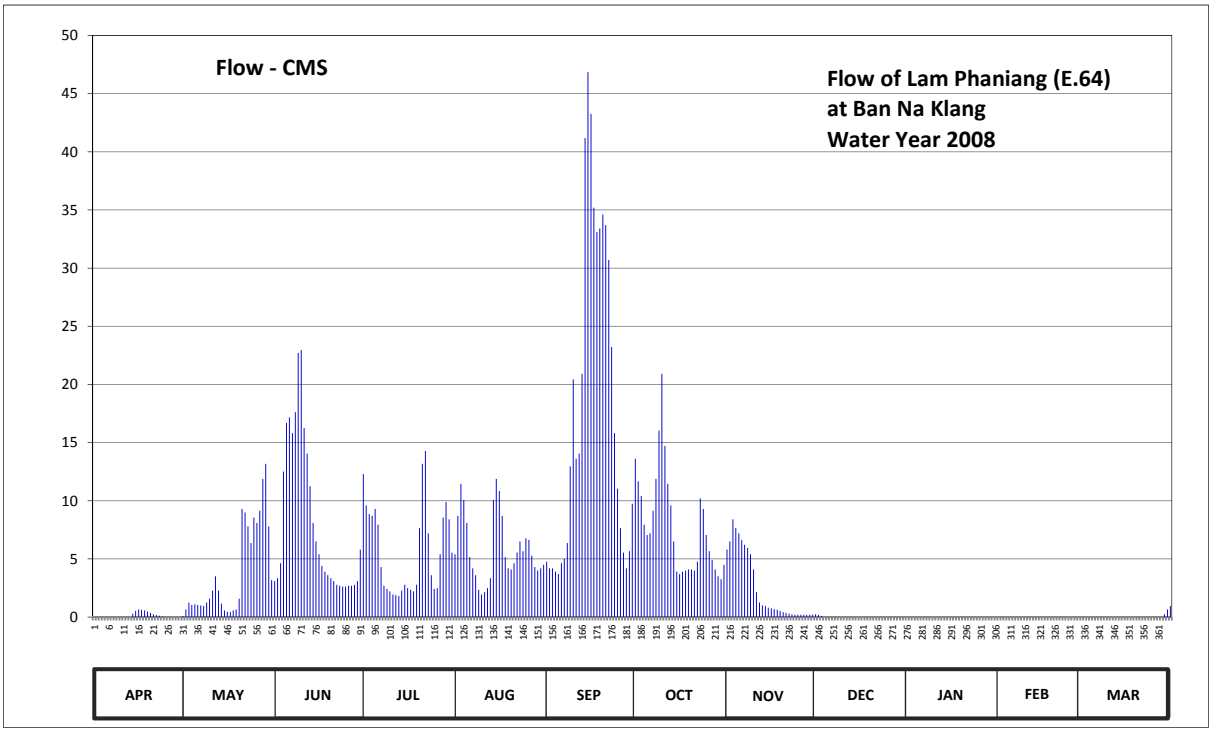
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	256.90	257.03	257.65	258.30	257.87	257.82	258.36	257.90	257.08	256.89	256.86	256.86	
2	256.91	257.22	257.68	258.16	258.10	257.77	258.27	257.95	257.06	256.89	256.86	256.86	
3	256.91	257.37	257.81	258.11	258.26	257.77	258.21	258.08	257.03	256.89	256.86	256.86	
4	256.91	257.33	258.31	258.10	258.19	257.74	258.05	258.03	257.00	256.88	256.87	256.87	
5	256.91	257.34	258.50	258.14	258.06	257.72	257.99	258.00	256.96	256.88	256.87	256.87	
6	256.90	257.33	258.52	258.05	257.85	257.81	258.00	257.96	256.90	256.88	256.87	256.87	
7	256.90	257.32	258.46	257.78	257.77	257.84	258.13	257.93	256.88	256.88	256.88	256.86	
8	256.90	257.31	258.54	257.60	257.71	257.94	258.28	257.91	256.88	256.87	256.89	256.86	
9	256.90	257.37	258.75	257.56	257.55	258.33	258.47	257.87	256.87	256.87	256.89	256.86	
10	256.90	257.43	258.76	257.53	257.49	258.66	258.68	257.76	256.87	256.87	256.89	256.84	
11	256.89	257.54	258.48	257.49	257.52	258.36	258.41	257.52	256.87	256.86	256.88	256.84	
12	256.91	257.70	258.38	257.48	257.57	258.38	258.26	257.37	256.85	256.86	256.88	256.85	
13	257.00	257.54	258.25	257.47	257.68	258.68	258.16	257.32	256.85	256.86	256.88	256.85	
14	257.10	257.35	258.06	257.54	258.19	259.37	257.95	257.31	256.85	256.86	256.87	256.85	
15	257.18	257.19	257.95	257.61	258.28	259.53	257.74	257.27	256.84	256.86	256.87	256.86	
16	257.22	257.15	257.87	257.57	258.23	259.43	257.72	257.25	256.84	256.85	256.87	256.87	
17	257.21	257.14	257.79	257.55	258.10	259.19	257.74	257.23	256.83	256.85	256.87	256.87	
18	257.19	257.19	257.74	257.53	257.85	259.12	257.75	257.21	256.83	256.85	256.87	256.88	
19	257.16	257.22	257.71	257.61	257.77	259.13	257.76	257.18	256.83	256.85	256.87	256.88	
20	257.12	257.43	257.68	258.03	257.76	259.17	257.76	257.14	256.83	256.85	256.87	256.89	
21	257.08	258.14	257.65	258.34	257.81	259.14	257.75	257.12	256.82	256.86	256.87	256.89	
22	257.06	258.12	257.61	258.39	257.88	259.04	257.82	257.10	256.82	256.86	256.86	256.90	
23	257.04	258.04	257.60	258.00	257.95	258.77	258.20	257.08	256.82	256.86	256.86	256.90	
24	257.02	257.94	257.59	257.71	257.89	258.46	258.14	257.07	256.81	256.87	256.86	256.90	
25	257.00	258.09	257.59	257.56	257.97	258.24	257.99	257.07	256.81	256.87	256.86	256.90	
26	256.98	258.06	257.60	257.57	257.96	258.03	257.89	257.07	256.80	256.87	256.86	256.92	
27	256.97	258.13	257.60	257.87	257.86	257.88	257.83	257.07	256.80	256.87	256.86	256.92	
28	256.97	258.28	257.61	258.09	257.78	257.77	257.76	257.07	256.79	256.86	256.86	256.95	
29	256.97	258.34	257.65	258.18	257.75	257.89	257.70	257.07	256.80	256.86		257.08	
30	256.98	258.04	257.90	258.08	257.77	258.17	257.67	257.07	256.85	256.86		257.22	
31		257.66		257.88	257.80		257.80		256.88	256.86		257.31	
Mean	257.00	257.59	257.98	257.83	257.88	258.44	258.01	257.43	256.87	256.87	256.87	256.91	
Max	257.22	258.34	258.76	258.39	258.28	259.53	258.68	258.08	257.08	256.89	256.89	257.31	259.53
Min	256.89	257.03	257.59	257.47	257.49	257.72	257.67	257.07	256.79	256.85	256.86	256.84	256.79

Annual Max Momentary Gage Height 259.64 m. (MSL.) , at 14.00 Hours, on Sep 15, 2008

Zero Gage at Bottom Elevation 254.47 m. (MSL.) , River Bed 254.60 m. (MSL.)

Left Bank Elevation 258.40 m. (MSL.) ,

Right Bank Elevation 259.02 m. (MSL.) , Drainage Are 362 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.09	3.10	12.30	5.41	4.76	13.62	5.80	0.24	0.00	0.00	0.00		
2	0.00	0.66	3.34	9.60	8.70	4.20	11.67	6.50	0.18	0.00	0.00	0.00		
3	0.00	1.25	4.63	8.85	11.46	4.20	10.41	8.40	0.09	0.00	0.00	0.00		
4	0.00	1.05	12.52	8.70	10.05	3.90	7.95	7.65	0.00	0.00	0.00	0.00		
5	0.00	1.10	16.70	9.30	8.10	3.70	7.06	7.20	0.00	0.00	0.00	0.00		
6	0.00	1.05	17.16	7.95	5.15	4.63	7.20	6.64	0.00	0.00	0.00	0.00		
7	0.00	1.00	15.82	4.30	4.20	5.02	9.15	6.22	0.00	0.00	0.00	0.00		
8	0.00	0.95	17.62	2.70	3.60	6.36	11.88	5.94	0.00	0.00	0.00	0.00		
9	0.00	1.25	22.70	2.42	2.35	12.96	16.04	5.41	0.00	0.00	0.00	0.00		
10	0.00	1.58	22.96	2.21	1.94	20.44	20.92	4.10	0.00	0.00	0.00	0.00		
11	0.00	2.28	16.26	1.94	2.14	13.62	14.72	2.14	0.00	0.00	0.00	0.00		
12	0.00	3.50	14.06	1.88	2.49	14.06	11.46	1.25	0.00	0.00	0.00	0.00		
13	0.00	2.28	11.25	1.82	3.34	20.92	9.60	1.00	0.00	0.00	0.00	0.00		
14	0.30	1.15	8.10	2.28	10.05	41.18	6.50	0.95	0.00	0.00	0.00	0.00		
15	0.54	0.57	6.50	2.78	11.88	46.84	3.90	0.81	0.00	0.00	0.00	0.00		
16	0.66	0.45	5.41	2.49	10.83	43.25	3.70	0.75	0.00	0.00	0.00	0.00		
17	0.63	0.42	4.40	2.35	8.70	35.20	3.90	0.69	0.00	0.00	0.00	0.00		
18	0.57	0.57	3.90	2.21	5.15	33.10	4.00	0.63	0.00	0.00	0.00	0.00		
19	0.48	0.66	3.60	2.78	4.20	33.40	4.10	0.54	0.00	0.00	0.00	0.00		
20	0.36	1.58	3.34	7.65	4.10	34.60	4.10	0.42	0.00	0.00	0.00	0.00		
21	0.24	9.30	3.10	13.18	4.63	33.70	4.00	0.36	0.00	0.00	0.00	0.00		
22	0.18	9.00	2.78	14.28	5.54	30.70	4.76	0.30	0.00	0.00	0.00	0.00		
23	0.12	7.80	2.70	7.20	6.50	23.22	10.20	0.24	0.00	0.00	0.00	0.00		
24	0.06	6.36	2.63	3.60	5.67	15.82	9.30	0.21	0.00	0.00	0.00	0.00		
25	0.00	8.55	2.63	2.42	6.78	11.04	7.06	0.21	0.00	0.00	0.00	0.00		
26	0.00	8.10	2.70	2.49	6.64	7.65	5.67	0.21	0.00	0.00	0.00	0.00		
27	0.00	9.15	2.70	5.41	5.28	5.54	4.89	0.21	0.00	0.00	0.00	0.00		
28	0.00	11.88	2.78	8.55	4.30	4.20	4.10	0.21	0.00	0.00	0.00	0.00		
29	0.00	13.18	3.10	9.90	4.00	5.67	3.50	0.21	0.00	0.00		0.24		
30	0.00	7.80	5.80	8.40	4.20	9.75	3.26	0.21	0.00	0.00		0.66		
31		3.18		5.54	4.50		4.50		0.00	0.00		0.95		
Total	4.14	117.74	244.29	177.48	181.88	533.63	243.12	75.41	0.51	0.00	0.00	1.85	1580.05	CMSDAY
Mean	0.14	3.80	8.14	5.73	5.87	17.79	7.84	2.51	0.02	0.00	0.00	0.06	4.33	CMS
Max	0.66	13.18	22.96	14.28	11.88	46.84	20.92	8.40	0.24	0.00	0.00	0.95	46.84	CMS
Min	0.00	0.09	2.63	1.82	1.94	3.70	3.26	0.21	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.36	10.17	21.11	15.33	15.71	46.11	21.01	6.52	0.04	0.00	0.00	0.16	136.52	MCM

Momentary Peak 51.10 CMS, at 259.64 m. (MSL.), at 14.00 Hours, on Sep 15, 2008

Runoff Yield 11.96 Liters/Second/Square KM. Momentary Peak Yield 141.16 Liters/Second/Square KM.

WATER YEAR : 2008

CHI RIVER BASIN

Lam Pao at Ban Tha Hai, Udon Thani (E.65)

Lat 16 - 57 - 02 N Long 103 - 10 - 16 E

Location : on left bank at the bridge on highway.

	Ban Tha Hai	**Amphoe** Si That	**Changwat** Udon Thani
Drainge Area	2,149 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+158.990 m. (MSL.)		
Bench Mark	B.M.- H.D.		
Location BM	On left bank at the abutment of the bridge.		**Elevation** +169.686 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1983 to date.		
Rating Operation			
Period of Rating	1983 to date.		
Rated by Float	-		
Rated by Current Meter	1983 to date.		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow effected by Lam Pao Dam.		
	Stage-discharge relation defined by 71 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

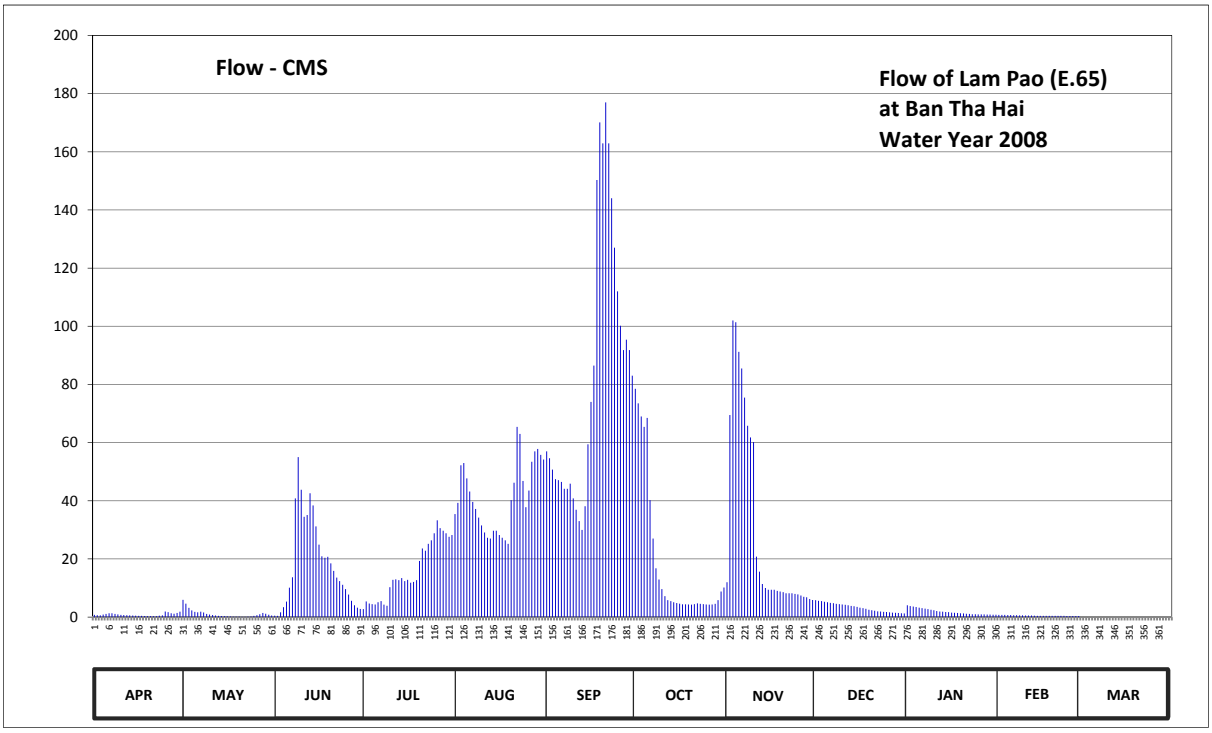
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.25	161.16	160.20	160.65	162.98	163.65	164.13	163.40	163.08	162.84	161.60	160.11	
2	160.23	161.01	160.19	161.10	163.11	163.59	164.03	163.95	163.06	162.80	161.55	160.10	
3	160.22	160.74	160.43	161.02	163.53	163.49	163.94	164.55	163.05	162.77	161.52	160.10	
4	160.28	160.56	160.78	160.99	163.55	163.38	163.86	164.54	163.03	162.74	161.48	160.10	
5	160.32	160.46	161.09	160.97	163.39	163.37	163.93	164.37	163.01	162.71	161.43	160.08	
6	160.36	160.43	161.61	161.07	163.24	163.35	164.07	164.27	162.98	162.68	161.40	160.08	
7	160.36	160.47	161.97	161.11	163.12	163.27	163.82	164.07	162.96	162.65	161.35	160.06	
8	160.32	160.42	163.16	160.96	163.04	163.27	163.56	163.87	162.93	162.62	161.30	160.04	
9	160.29	160.32	163.60	160.88	162.94	163.33	163.43	163.77	162.91	162.59	161.25	160.02	
10	160.25	160.27	163.26	161.63	162.85	163.16	163.28	163.73	162.89	162.56	161.19	160.02	
11	160.24	160.24	162.95	161.88	162.77	163.03	163.16	163.67	162.87	162.51	161.14	160.02	
12	160.23	160.21	162.97	161.90	162.71	162.90	163.08	163.52	162.84	162.46	161.12	160.00	
13	160.22	160.19	163.22	161.87	162.70	162.80	163.05	163.37	162.81	162.42	161.06	160.00	
14	160.21	160.18	163.08	161.94	162.79	163.07	163.01	163.30	162.79	162.38	161.01	160.00	
15	160.20	160.16	162.84	161.84	162.79	163.71	162.97	163.27	162.75	162.34	160.97	159.99	
16	160.19	160.15	162.63	161.88	162.74	164.04	162.94	163.27	162.71	162.28	160.95	159.99	
17	160.19	160.14	162.43	161.78	162.71	164.29	162.90	163.27	162.68	162.24	160.92	159.99	
18	160.18	160.13	162.40	161.81	162.68	165.17	162.90	163.25	162.64	162.20	160.92	159.99	
19	160.17	160.13	162.42	161.87	162.64	165.39	162.89	163.24	162.59	162.16	160.94	159.99	
20	160.17	160.13	162.28	162.33	163.14	165.31	162.88	163.23	162.56	162.12	160.94	159.99	
21	160.16	160.12	162.12	162.58	163.34	165.46	162.91	163.21	162.53	162.08	160.94	159.99	
22	160.16	160.12	161.96	162.54	163.86	165.31	162.95	163.21	162.50	162.05	160.92	159.99	
23	160.20	160.13	161.84	162.64	163.80	165.10	162.93	163.21	162.46	162.00	160.91	159.99	
24	160.22	160.14	161.71	162.68	163.36	164.90	162.91	163.20	162.40	161.96	160.90	159.99	
25	160.48	160.19	161.56	162.76	163.06	164.70	162.89	163.19	162.37	161.91	160.90	159.99	
26	160.44	160.23	161.36	162.91	163.25	164.52	162.88	163.17	162.33	161.86	160.89	159.99	
27	160.36	160.30	161.12	162.82	163.56	164.38	162.89	163.15	162.28	161.83	160.87	159.99	
28	160.33	160.39	160.91	162.79	163.65	164.44	162.93	163.14	162.24	161.78	160.86	159.99	
29	160.38	160.33	160.75	162.76	163.67	164.38	163.08	163.11	162.20	161.73		160.00	
30	160.47	160.26	160.66	162.72	163.62	164.22	163.24	163.09	162.16	161.70		160.00	
31		160.21		162.74	163.58		163.31		162.13	161.66		160.00	
Mean	160.27	160.32	161.92	161.92	163.17	164.03	163.25	163.52	162.67	162.28	161.12	160.02	
Max	160.48	161.16	163.60	162.91	163.86	165.46	164.13	164.55	163.08	162.84	161.60	160.11	165.46
Min	160.16	160.12	160.19	160.65	162.64	162.80	162.88	163.09	162.13	161.66	160.86	159.99	159.99

Annual Max Momentary Gage Height 165.50 m. (MSL.) , at 02.00 Hours, on Sep 21, 2008

Zero Gage at Bottom Elevation 158.99 m. (MSL.) , River Bed 159.42 m. (MSL.)

Left Bank Elevation 169.45 m. (MSL.) ,

Right Bank Elevation 166.42 m. (MSL.) , Drainage Are 2,149 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.75	5.94	0.50	2.75	35.40	57.00	78.50	12.00	5.80	4.04	0.78	0.01		
2	0.65	4.59	0.45	5.40	39.30	54.60	73.50	69.50	5.60	3.80	0.75	0.00		
3	0.60	3.20	1.65	4.68	52.20	50.70	69.00	102.00	5.50	3.62	0.74	0.00		
4	0.90	2.30	3.40	4.45	53.00	47.40	65.40	101.40	5.30	3.44	0.71	0.00		
5	1.10	1.80	5.31	4.35	47.70	47.10	68.50	91.20	5.10	3.26	0.69	0.00		
6	1.30	1.65	10.10	5.13	43.20	46.50	40.20	85.50	4.88	3.08	0.67	0.00		
7	1.30	1.85	13.70	5.49	39.60	44.10	27.00	75.50	4.76	2.90	0.64	0.00		
8	1.10	1.60	40.80	4.30	37.20	44.10	16.80	65.80	4.58	2.72	0.62	0.00		
9	0.95	1.10	55.00	3.90	34.20	45.90	12.90	61.80	4.46	2.54	0.59	0.00		
10	0.75	0.85	43.80	10.30	31.50	40.80	9.60	60.20	4.34	2.36	0.56	0.00		
11	0.70	0.70	34.50	12.80	29.10	36.90	7.20	20.80	4.22	2.06	0.53	0.00		
12	0.65	0.55	35.10	13.00	27.30	33.00	5.80	15.60	4.04	1.92	0.52	0.00		
13	0.60	0.45	42.60	12.70	27.00	30.00	5.50	11.40	3.86	1.84	0.48	0.00		
14	0.55	0.40	38.40	13.40	29.70	38.10	5.10	10.00	3.74	1.76	0.46	0.00		
15	0.50	0.30	31.20	12.40	29.70	59.40	4.82	9.40	3.50	1.68	0.44	0.00		
16	0.45	0.25	24.90	12.80	28.20	74.00	4.64	9.40	3.26	1.56	0.43	0.00		
17	0.45	0.20	20.88	11.80	27.30	86.50	4.40	9.40	3.08	1.48	0.41	0.00		
18	0.40	0.15	20.40	12.10	26.40	150.30	4.40	9.00	2.84	1.40	0.41	0.00		
19	0.35	0.15	20.72	12.70	25.20	170.10	4.34	8.80	2.54	1.32	0.42	0.00		
20	0.35	0.15	18.48	19.28	40.20	162.90	4.28	8.60	2.36	1.24	0.42	0.00		
21	0.30	0.10	15.92	23.60	46.20	177.00	4.46	8.20	2.18	1.16	0.42	0.00		
22	0.30	0.10	13.60	22.80	65.40	162.90	4.70	8.20	2.00	1.10	0.41	0.00		
23	0.50	0.15	12.40	25.20	63.00	144.00	4.58	8.20	1.92	1.00	0.41	0.00		
24	0.60	0.20	11.10	26.40	46.80	127.00	4.46	8.00	1.80	0.98	0.40	0.00		
25	1.90	0.45	9.60	28.80	37.80	112.00	4.34	7.80	1.74	0.95	0.40	0.00		
26	1.70	0.65	7.74	33.30	43.50	100.20	4.28	7.40	1.66	0.92	0.40	0.00		
27	1.30	1.00	5.58	30.60	53.40	91.80	4.34	7.00	1.56	0.91	0.39	0.00		
28	1.15	1.45	4.05	29.70	57.00	95.40	4.58	6.80	1.48	0.88	0.38	0.00		
29	1.40	1.15	3.25	28.80	57.80	91.80	5.80	6.20	1.40	0.85		0.00		
30	1.85	0.80	2.80	27.60	55.80	83.00	8.80	5.90	1.32	0.84		0.00		
31		0.55		28.20	54.20		10.20		1.26	0.81		0.00		
Total	25.40	34.78	547.93	488.73	1284.30	2504.50	572.42	911.00	102.08	58.42	14.48	0.01	6544.05	CMSDAY
Mean	0.85	1.12	18.26	15.77	41.43	83.48	18.47	30.37	3.29	1.88	0.52	0.00	17.93	CMS
Max	1.90	5.94	55.00	33.30	65.40	177.00	78.50	102.00	5.80	4.04	0.78	0.01	177.00	CMS
Min	0.30	0.10	0.45	2.75	25.20	30.00	4.28	5.90	1.26	0.81	0.38	0.00	0.00	CMS
Runoff	2.19	3.00	47.34	42.23	110.96	216.39	49.46	78.71	8.82	5.05	1.25	0.00	565.41	MCM

Momentary Peak 181.00 CMS, at 165.50 m. (MSL.), at 02.00 Hours, on Sep 21, 2008

Runoff Yield 8.34 Liters/Second/Square KM. Momentary Peak Yield 84.23 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 3 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Float	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +138.820 m.(MSL.) and is including overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

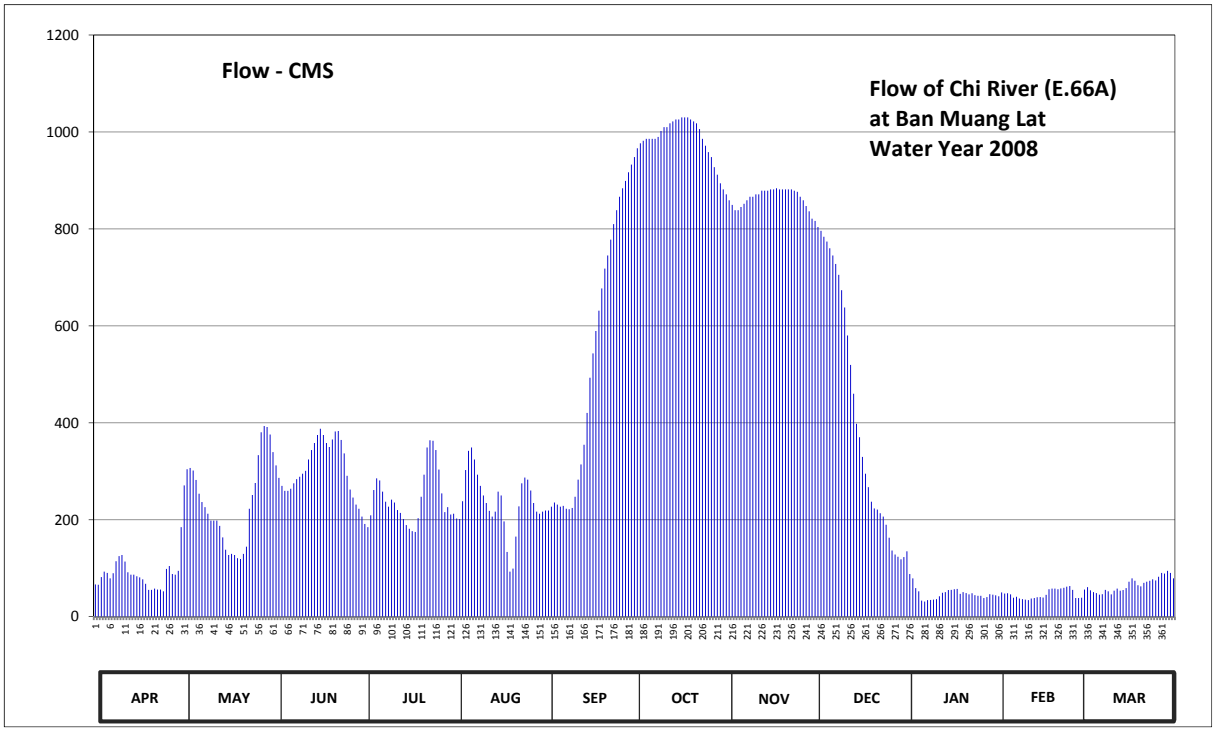
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.02	133.59	134.07	132.66	132.79	132.99	139.24	138.82	138.57	131.33	130.75	130.85	
2	131.01	133.98	133.77	132.58	132.78	133.08	139.28	138.78	138.53	131.20	130.71	130.93	
3	131.24	134.01	133.58	132.87	133.21	133.18	139.30	138.73	138.47	130.90	130.72	130.82	
4	131.40	133.95	133.46	133.48	133.96	133.13	139.31	138.73	138.42	130.79	130.68	130.76	
5	131.36	133.72	133.46	133.76	134.41	133.08	139.31	138.76	138.35	130.42	130.54	130.73	
6	131.20	133.39	133.51	133.71	134.49	133.10	139.31	138.79	138.27	130.38	130.58	130.67	
7	131.35	133.19	133.64	133.44	134.21	133.03	139.31	138.82	138.16	130.44	130.51	130.69	
8	131.69	133.07	133.74	133.20	133.85	133.02	139.32	138.85	138.02	130.45	130.48	130.84	
9	131.83	132.91	133.80	133.08	133.58	133.05	139.35	138.85	137.77	130.46	130.46	130.79	
10	131.86	132.74	133.87	133.25	133.35	133.32	139.37	138.87	137.48	130.48	130.44	130.68	
11	131.68	132.74	133.94	133.18	133.17	133.73	139.37	138.87	136.95	130.60	130.51	130.81	
12	131.38	132.74	134.21	133.00	132.98	134.09	139.39	138.90	136.31	130.74	130.53	130.88	
13	131.31	132.61	134.43	132.93	132.84	134.55	139.40	138.90	135.68	130.76	130.56	130.81	
14	131.31	132.32	134.59	132.78	132.96	135.26	139.41	138.90	135.02	130.83	130.57	130.83	
15	131.26	132.00	134.77	132.63	133.44	136.03	139.41	138.91	134.72	130.84	130.55	130.90	
16	131.23	131.86	134.91	132.54	133.35	136.56	139.42	138.91	134.27	130.86	130.66	131.10	
17	131.17	131.89	134.77	132.48	132.72	137.04	139.42	138.92	133.87	130.87	130.86	131.20	
18	131.04	131.86	134.59	132.46	131.94	137.42	139.42	138.91	133.55	130.70	130.88	131.13	
19	130.84	131.77	134.50	132.80	131.40	137.80	139.41	138.91	133.20	130.76	130.88	131.00	
20	130.84	131.75	134.67	133.32	131.49	138.10	139.40	138.91	133.04	130.73	130.86	130.96	
21	130.88	131.89	134.85	133.85	132.34	138.27	139.39	138.91	133.01	130.68	130.89	131.07	
22	130.85	132.08	134.86	134.49	133.09	138.44	139.36	138.91	132.92	130.72	130.91	131.10	
23	130.85	133.03	134.66	134.65	133.64	138.60	139.31	138.90	132.84	130.65	130.95	131.13	
24	130.79	133.36	134.35	134.64	133.78	138.73	139.26	138.89	132.64	130.62	130.97	131.17	
25	131.48	133.65	133.82	134.43	133.73	138.85	139.21	138.85	132.31	130.62	130.84	131.14	
26	131.56	134.31	133.49	133.97	133.47	138.92	139.17	138.82	131.98	130.53	130.53	131.25	
27	131.33	134.83	133.30	133.40	133.17	138.98	139.09	138.77	131.87	130.57	130.53	131.36	
28	131.31	134.97	133.13	132.95	132.96	139.05	139.03	138.72	131.81	130.69	130.54	131.34	
29	131.42	134.95	133.03	133.07	132.91	139.11	138.96	138.65	131.74	130.67		131.42	
30	132.58	134.78	132.84	132.89	132.96	139.17	138.91	138.63	131.80	130.64		131.36	
31		134.38		132.91	132.99		138.87		131.96	130.60		131.20	
Mean	131.30	133.17	134.02	133.27	133.16	135.99	139.28	138.84	134.95	130.69	130.67	131.00	
Max	132.58	134.97	134.91	134.65	134.49	139.17	139.42	138.92	138.57	131.33	130.97	131.42	139.42
Min	130.79	131.75	132.84	132.46	131.40	132.99	138.87	138.63	131.74	130.38	130.44	130.67	130.38

Annual Max Momentary Gage Height 139.42 m. (MSL.) , at 18.00 Hours, on Oct 15, 2008

Zero Gage at Bottom Elevation 126.90 m. (MSL.) , River Bed 127.00 m. (MSL.)

Left Bank Elevation 138.81 m. (MSL.) ,

Right Bank Elevation 140.93 m. (MSL.) , Drainage Are 31,879 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	66.40	270.74	312.16	191.44	202.36	219.16	966.40	859.00	804.00	88.10	50.00	56.00		
2	65.70	304.28	286.22	184.72	201.52	226.88	976.80	849.60	796.00	79.00	47.60	60.80		
3	81.80	306.88	269.88	209.08	238.06	235.48	982.00	838.60	784.00	59.00	48.20	54.20		
4	93.00	301.70	259.56	261.28	302.56	231.18	986.00	838.60	774.00	52.40	46.00	50.60		
5	90.20	281.92	259.56	285.36	342.08	226.88	986.00	845.20	760.00	33.00	39.00	48.80		
6	79.00	253.54	263.86	281.06	349.12	228.60	986.00	851.80	745.20	31.20	41.00	45.50		
7	89.50	236.34	275.04	257.84	324.48	222.58	986.00	859.00	727.60	34.00	37.50	46.50		
8	114.44	226.02	283.64	237.20	293.10	221.72	990.00	866.50	705.20	34.50	36.00	55.40		
9	125.08	212.44	288.80	226.88	269.88	224.30	1002.00	866.50	673.48	35.00	35.00	52.40		
10	127.36	198.16	294.82	241.50	250.10	247.52	1010.00	871.50	637.80	36.00	34.00	46.00		
11	113.68	198.16	300.84	235.48	234.62	282.78	1010.00	871.50	580.25	42.00	37.50	53.60		
12	91.60	198.16	324.48	220.00	218.32	313.92	1018.00	879.00	519.45	49.40	38.50	57.80		
13	86.70	187.24	343.84	214.12	206.56	354.60	1022.00	879.00	459.92	50.60	40.00	53.60		
14	86.70	163.60	358.28	201.52	216.64	420.44	1026.00	879.00	397.88	54.80	40.50	54.80		
15	83.20	138.00	374.84	188.92	257.84	492.85	1026.00	881.50	370.24	55.40	39.50	59.00		
16	81.10	127.36	387.72	181.36	250.10	543.20	1030.00	881.50	329.76	56.60	45.00	72.00		
17	76.90	129.64	374.84	176.40	196.48	589.40	1030.00	884.00	294.82	57.20	56.60	79.00		
18	67.80	127.36	358.28	174.80	133.44	631.20	1030.00	881.50	267.30	47.00	57.80	74.10		
19	55.40	120.52	350.00	203.20	93.00	677.20	1026.00	881.50	237.20	50.60	57.80	65.00		
20	55.40	119.00	365.64	247.52	99.30	718.00	1022.00	881.50	223.44	48.80	56.60	62.60		
21	57.80	129.64	382.20	293.10	165.20	745.20	1018.00	881.50	220.86	46.00	58.40	69.90		
22	56.00	144.40	383.12	349.12	227.74	778.00	1006.00	881.50	213.28	48.20	59.60	72.00		
23	56.00	222.58	364.72	363.80	275.04	810.00	986.00	879.00	206.56	44.50	62.00	74.10		
24	52.40	250.96	336.80	362.88	287.08	838.60	971.60	876.50	189.76	43.00	63.20	76.90		
25	98.60	275.90	290.52	343.84	282.78	866.50	958.60	866.50	162.80	43.00	55.40	74.80		
26	104.56	333.28	262.14	303.42	260.42	884.00	948.20	859.00	136.48	38.50	38.50	82.50		
27	88.10	380.36	245.80	254.40	234.62	899.00	927.40	847.40	128.12	40.50	38.50	90.20		
28	86.70	393.24	231.18	215.80	216.64	917.00	911.80	836.40	123.56	46.50	39.00	88.80		
29	94.40	391.40	222.58	226.02	212.44	932.60	894.00	821.00	118.24	45.50		94.40		
30	184.72	375.76	206.56	210.76	216.64	948.20	881.50	816.60	122.80	44.00		90.20		
31		339.44		212.44	219.16		871.50		134.96	42.00		79.00		
Total	2610.24	7338.02	9257.92	7555.26	7277.32	15926.99	30485.80	25911.70	12844.96	1476.30	1298.70	2040.50	124023.71	CMSDAY
Mean	87.01	236.71	308.60	243.72	234.75	530.90	983.41	863.72	414.35	47.62	46.38	65.82	339.79	CMS
Max	184.72	393.24	387.72	363.80	349.12	948.20	1030.00	884.00	804.00	88.10	63.20	94.40	1030.00	CMS
Min	52.40	119.00	206.56	174.80	93.00	219.16	871.50	816.60	118.24	31.20	34.00	45.50	31.20	CMS
Runoff	225.52	634.00	799.88	652.77	628.76	1376.09	2633.97	2238.77	1109.80	127.55	112.21	176.30	10715.65	MCM

Momentary Peak 1030.00 CMS, at 139.42 m. (MSL.), at 18.00 Hours, on Oct 15, 2008

Runoff Yield 10.66 Liters/Second/Square KM. Momentary Peak Yield 32.31 Liters/Second/Square KM.

WATER YEAR : 2008

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.

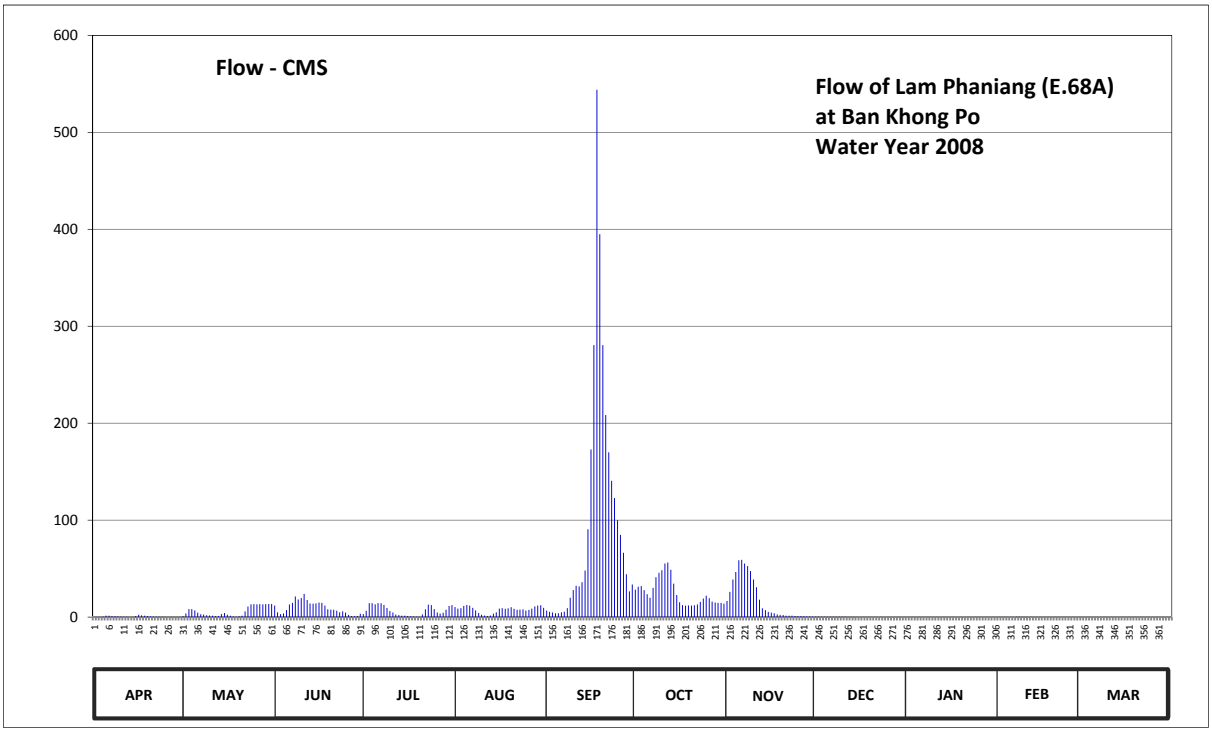
Ban Khong Po **Amphoe** Mueang **Changwat** Nong Bua Lamphu

Drainge 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 mean of 3 readings
Period of Available Gage Records	1997 to date
Rating Operation	
Period of Rating	1997 to date
Rated by Float	-
Rated by Current Meter	1997 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +199.370 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 15 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	196.90	197.04	197.64	197.21	197.57	197.39	198.28	197.88	196.99	196.84	196.80	196.26	
2	196.92	197.24	197.30	197.38	197.49	197.32	198.38	198.20	196.99	196.84	196.84	196.22	
3	196.93	197.46	197.21	197.77	197.51	197.29	198.40	198.56	196.98	196.84	196.86	196.20	
4	197.00	197.46	197.24	197.77	197.63	197.25	198.26	198.73	196.98	196.84	196.85	196.18	
5	197.09	197.40	197.41	197.71	197.68	197.25	198.12	198.99	196.97	196.84	196.85	196.16	
6	197.10	197.28	197.70	197.77	197.64	197.30	198.00	199.00	196.97	196.84	196.87	196.16	
7	197.05	197.20	197.78	197.77	197.53	197.33	198.34	198.92	196.96	196.83	196.95	196.13	
8	197.03	197.18	198.04	197.68	197.40	197.51	198.61	198.86	196.97	196.83	196.97	196.12	
9	197.01	197.13	197.94	197.52	197.26	198.00	198.71	198.75	196.96	196.83	196.94	196.11	
10	196.99	197.11	197.99	197.36	197.16	198.26	198.77	198.56	196.96	196.83	196.92	196.09	
11	196.96	197.09	198.13	197.29	197.11	198.41	198.92	198.36	196.95	196.83	196.91	196.08	
12	196.96	197.05	197.92	197.17	197.06	198.39	198.94	197.93	196.93	196.83	196.90	196.06	
13	196.90	197.04	197.75	197.14	197.11	198.50	198.78	197.50	196.92	196.82	196.89	196.02	
14	196.94	197.21	197.74	197.10	197.23	198.76	198.46	197.41	196.92	196.82	196.88	195.99	
15	197.07	197.26	197.76	197.09	197.30	199.46	198.09	197.32	196.91	196.82	196.87	195.97	
16	197.16	197.16	197.80	197.06	197.49	199.93	197.82	197.28	196.91	196.82	196.86	195.98	
17	197.12	197.09	197.78	197.03	197.51	200.23	197.67	197.25	196.91	196.82	196.86	195.96	
18	197.10	197.01	197.64	197.02	197.48	200.74	197.64	197.19	196.91	196.81	196.86	195.94	
19	197.06	196.98	197.45	197.00	197.50	200.47	197.65	197.15	196.90	196.81	196.86	195.93	
20	197.02	197.03	197.44	196.98	197.56	200.23	197.64	197.14	196.89	196.81	196.86	195.92	
21	196.99	197.09	197.43	197.19	197.48	200.04	197.66	197.10	196.89	196.81	196.86	195.93	
22	196.97	197.35	197.38	197.45	197.43	199.92	197.70	197.10	196.88	196.80	196.86	195.93	
23	196.96	197.59	197.30	197.69	197.44	199.81	197.83	197.09	196.88	196.80	196.86	195.93	
24	196.95	197.71	197.35	197.67	197.45	199.72	197.97	197.06	196.88	196.79	196.86	195.92	
25	196.94	197.72	197.28	197.46	197.39	199.55	198.07	197.05	196.88	196.78	196.85	195.92	
26	196.89	197.71	197.15	197.29	197.42	199.39	197.98	197.04	196.88	196.78	196.84	195.91	
27	196.93	197.72	197.06	197.23	197.49	199.11	197.85	197.03	196.88	196.78	196.84	195.91	
28	196.93	197.71	197.03	197.27	197.60	198.68	197.80	197.02	196.88	196.78	196.83	195.90	
29	196.93	197.72	197.07	197.43	197.64	198.22	197.78	197.01	196.88	196.79		195.89	
30	196.94	197.73	197.22	197.63	197.66	198.44	197.78	197.00	196.87	196.80		195.88	
31		197.73		197.67	197.53		197.74		196.87	196.80		195.87	
Mean	196.99	197.33	197.53	197.38	197.44	198.76	198.12	197.72	196.92	196.81	196.87	196.02	
Max	197.16	197.73	198.13	197.77	197.68	200.74	198.94	199.00	196.99	196.84	196.97	196.26	200.74
Min	196.89	196.98	197.03	196.98	197.06	197.25	197.64	197.00	196.87	196.78	196.80	195.87	195.87

Annual Max Momentary Gage Height	200.88	m. (MSL.) ,	at 09.00 Hours, on Sep 18, 2008		
Zero Gage at Bottom Elevation	194.73	m. (MSL.) ,	River Bed	193.62	m. (MSL.)
Left Bank Elevation	199.48	m. (MSL.) ,			
Right Bank Elevation	199.37	m. (MSL.) ,	Drainage Are	1,364	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.90	11.80	3.20	10.40	6.80	28.40	16.60	0.45	0.00	0.00	0.00		
2	0.10	3.80	5.00	6.60	8.80	5.40	31.40	26.00	0.45	0.00	0.00	0.00		
3	0.15	8.20	3.20	14.40	9.20	4.80	32.00	38.76	0.40	0.00	0.00	0.00		
4	0.50	8.20	3.80	14.40	11.60	4.00	27.80	46.58	0.40	0.00	0.00	0.00		
5	1.40	7.00	7.20	13.20	12.60	4.00	23.60	58.54	0.35	0.00	0.00	0.00		
6	1.50	4.60	13.00	14.40	11.80	5.00	20.00	59.00	0.35	0.00	0.00	0.00		
7	1.00	3.00	14.60	14.40	9.60	5.60	30.20	55.32	0.30	0.00	0.25	0.00		
8	0.80	2.70	21.20	12.60	7.00	9.20	41.06	52.56	0.35	0.00	0.35	0.00		
9	0.60	1.95	18.20	9.40	4.20	20.00	45.66	47.50	0.30	0.00	0.20	0.00		
10	0.45	1.65	19.70	6.20	2.40	27.80	48.42	38.76	0.30	0.00	0.10	0.00		
11	0.30	1.40	23.90	4.80	1.65	32.40	55.32	30.80	0.25	0.00	0.05	0.00		
12	0.30	1.00	17.60	2.55	1.10	31.70	56.24	17.90	0.15	0.00	0.00	0.00		
13	0.00	0.90	14.00	2.10	1.65	36.00	48.88	9.00	0.10	0.00	0.00	0.00		
14	0.20	3.20	13.80	1.50	3.60	47.96	34.40	7.20	0.10	0.00	0.00	0.00		
15	1.20	4.20	14.20	1.40	5.00	90.56	22.70	5.40	0.05	0.00	0.00	0.00		
16	2.40	2.40	15.00	1.10	8.80	173.00	15.40	4.60	0.05	0.00	0.00	0.00		
17	1.80	1.40	14.60	0.80	9.20	280.60	12.40	4.00	0.05	0.00	0.00	0.00		
18	1.50	0.60	11.80	0.70	8.60	544.00	11.80	2.85	0.05	0.00	0.00	0.00		
19	1.10	0.40	8.00	0.50	9.00	395.00	12.00	2.25	0.00	0.00	0.00	0.00		
20	0.70	0.80	7.80	0.40	10.20	280.60	11.80	2.10	0.00	0.00	0.00	0.00		
21	0.45	1.40	7.60	2.85	8.60	208.40	12.20	1.50	0.00	0.00	0.00	0.00		
22	0.35	6.00	6.60	8.00	7.60	170.00	13.00	1.50	0.00	0.00	0.00	0.00		
23	0.30	10.80	5.00	12.80	7.80	140.60	15.60	1.40	0.00	0.00	0.00	0.00		
24	0.25	13.20	6.00	12.40	8.00	122.80	19.10	1.10	0.00	0.00	0.00	0.00		
25	0.20	13.40	4.60	8.20	6.80	100.00	22.10	1.00	0.00	0.00	0.00	0.00		
26	0.00	13.20	2.25	4.80	7.40	84.74	19.40	0.90	0.00	0.00	0.00	0.00		
27	0.15	13.40	1.10	3.60	8.80	66.26	16.00	0.80	0.00	0.00	0.00	0.00		
28	0.15	13.20	0.80	4.40	11.00	44.28	15.00	0.70	0.00	0.00	0.00	0.00		
29	0.15	13.40	1.20	7.60	11.80	26.60	14.60	0.60	0.00	0.00		0.00		
30	0.20	13.60	3.40	11.60	12.20	33.60	14.60	0.50	0.00	0.00		0.00		
31		13.60		12.40	9.60		13.80		0.00	0.00		0.00		
Total	18.20	183.50	296.95	213.30	246.00	3001.70	784.88	535.72	4.45	0.00	0.95	0.00	5285.65	CMSDAY
Mean	0.61	5.92	9.90	6.88	7.94	100.06	25.32	17.86	0.14	0.00	0.03	0.00	14.48	CMS
Max	2.40	13.60	23.90	14.40	12.60	544.00	56.24	59.00	0.45	0.00	0.35	0.00	544.00	CMS
Min	0.00	0.40	0.80	0.40	1.10	4.00	11.80	0.50	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	1.57	15.85	25.66	18.43	21.25	259.35	67.81	46.29	0.38	0.00	0.08	0.00	456.68	MCM

Momentary Peak 631.20 CMS, at 200.88 m. (MSL.), at 09.00 Hours, on Sep 18, 2008

Runoff Yield 10.62 Liters/Second/Square KM. Momentary Peak Yield 462.76 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 3 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1984 to date
Rated by Float	-
Rated by Current Meter	1984 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

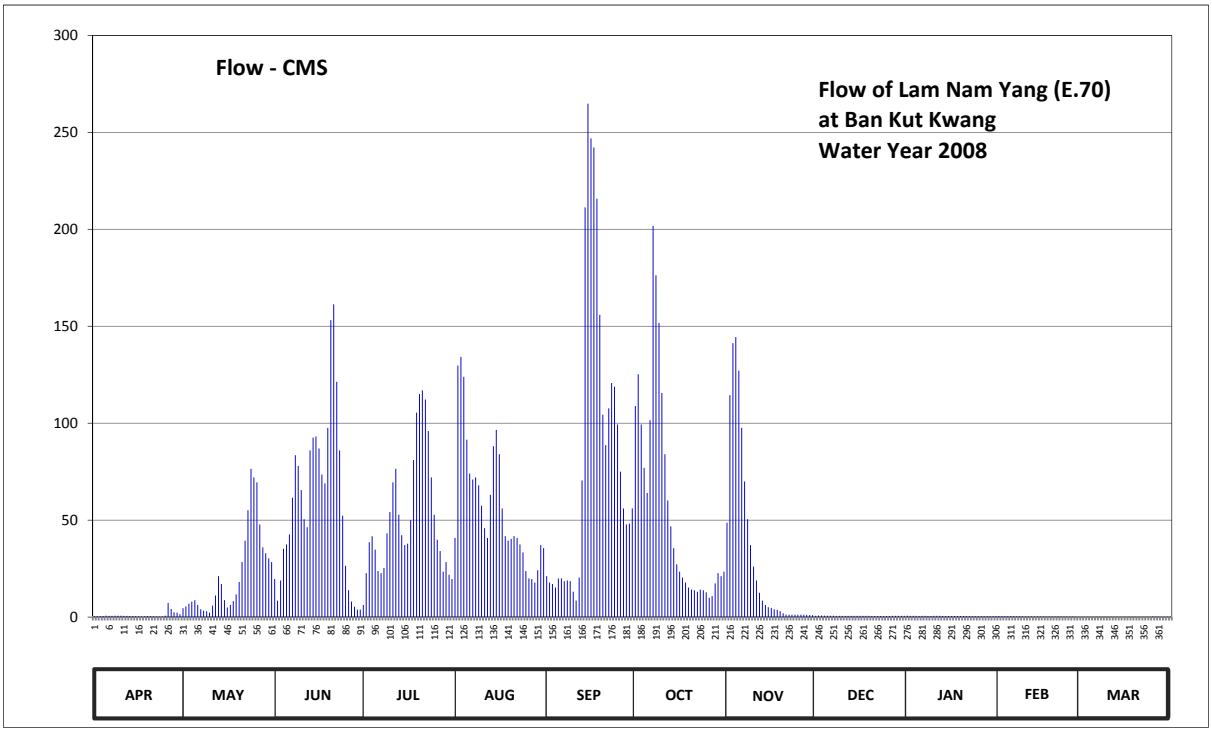
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.93	132.45	132.99	132.54	133.54	133.03	134.89	133.71	132.01	132.05	131.97	131.72	
2	131.95	132.50	132.64	133.07	135.23	132.94	135.16	134.99	132.10	132.04	131.96	131.72	
3	131.96	132.57	132.97	133.49	135.30	132.92	134.72	135.41	132.09	132.03	131.95	131.72	
4	131.97	132.62	133.40	133.56	135.14	132.87	134.30	135.46	132.08	132.02	131.94	131.72	
5	132.08	132.65	133.46	133.39	134.58	133.00	134.04	135.19	132.07	132.00	131.94	131.71	
6	132.03	132.54	133.58	133.10	134.24	133.00	134.76	134.69	132.06	132.03	131.93	131.71	
7	132.02	132.42	133.99	133.07	134.18	132.96	136.28	134.16	132.05	132.01	131.92	131.71	
8	132.08	132.38	134.43	133.14	134.20	132.97	135.93	133.75	132.04	131.99	131.91	131.70	
9	132.05	132.36	134.32	133.59	134.12	132.96	135.57	133.45	132.03	132.00	131.89	131.70	
10	132.06	132.32	134.07	133.83	133.90	132.81	135.01	133.16	132.02	132.02	131.88	131.70	
11	132.04	132.52	133.75	134.15	133.65	132.64	134.44	132.97	132.02	132.03	131.87	131.70	
12	132.01	132.74	133.66	134.29	133.54	133.01	133.96	132.79	132.01	132.02	131.87	131.70	
13	132.00	133.03	134.48	133.80	134.02	134.17	133.67	132.64	132.01	132.00	131.87	131.70	
14	131.96	132.92	134.60	133.57	134.52	136.41	133.41	132.54	132.01	131.98	131.88	131.70	
15	131.94	132.65	134.61	133.45	134.67	137.10	133.19	132.48	132.01	131.97	131.87	131.70	
16	131.90	132.47	134.50	133.47	134.44	136.87	133.09	132.46	132.01	131.97	131.86	131.69	
17	131.85	132.54	134.23	133.74	133.87	136.81	133.01	132.42	132.01	131.97	131.84	131.69	
18	131.89	132.63	134.14	134.38	133.56	136.47	132.94	132.40	132.01	131.97	131.83	131.69	
19	131.97	132.76	134.69	134.83	133.51	135.63	132.87	132.36	132.01	131.97	131.82	131.69	
20	131.94	132.95	135.59	135.00	133.53	134.81	132.84	132.30	132.00	131.97	131.84	131.69	
21	131.90	133.22	135.71	135.03	133.56	134.53	132.83	132.20	132.00	131.97	131.85	131.69	
22	131.86	133.51	135.10	134.95	133.54	134.87	132.81	132.19	132.00	131.96	131.84	131.69	
23	131.83	133.85	134.48	134.66	133.46	135.09	132.84	132.18	132.00	131.96	131.84	131.69	
24	131.83	134.29	133.79	134.20	133.35	135.06	132.83	132.18	132.00	131.95	131.83	131.70	
25	132.08	134.20	133.17	133.80	133.10	134.72	132.80	132.18	132.00	131.95	131.83	131.82	
26	132.59	134.15	132.83	133.52	133.00	134.26	132.70	132.18	132.00	131.95	131.81	131.78	
27	132.43	133.69	132.62	133.37	132.99	133.87	132.73	132.18	132.01	131.94	131.78	131.75	
28	132.33	133.42	132.49	133.09	132.94	133.69	132.93	132.17	132.03	131.94	131.74	131.72	
29	132.32	133.34	132.41	133.22	133.11	133.70	133.07	132.15	132.04	131.94		131.70	
30	132.23	133.27	132.41	133.05	133.45	133.87	133.03	132.13	132.04	131.94		131.79	
31		133.22		132.99	133.41		133.09		132.04	131.93		131.78	
Mean	132.03	132.97	133.84	133.72	133.86	134.23	133.73	133.04	132.03	131.98	131.87	131.72	
Max	132.59	134.29	135.71	135.03	135.30	137.10	136.28	135.46	132.10	132.05	131.97	131.82	137.10
Min	131.83	132.32	132.41	132.54	132.94	132.64	132.70	132.13	132.00	131.93	131.74	131.69	131.69

Annual Max Momentary Gage Height 137.17 m. (MSL.) , at 18.00 Hours, on Sep 14, 2008

Zero Gage at Bottom Elevation 132.12 m. (MSL.) , River Bed 130.35 m. (MSL.)

Left Bank Elevation 144.60 m. (MSL.) ,

Right Bank Elevation 144.09 m. (MSL.) , Drainage Are 2,647 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.46	4.60	19.63	6.30	40.84	21.14	108.84	48.66	0.62	0.70	0.54	0.08		
2	0.50	5.50	8.50	22.66	129.72	17.78	125.24	114.44	0.80	0.68	0.52	0.08		
3	0.52	6.90	18.89	38.62	134.20	17.04	99.32	141.24	0.78	0.66	0.50	0.08		
4	0.54	8.00	35.20	41.76	123.96	15.25	77.00	144.44	0.76	0.64	0.48	0.08		
5	0.76	8.75	37.48	34.82	91.48	20.00	64.00	127.16	0.74	0.60	0.48	0.07		
6	0.66	6.30	42.68	23.80	74.00	20.00	101.56	97.64	0.72	0.66	0.46	0.07		
7	0.64	4.06	61.54	22.66	71.00	18.52	201.72	70.00	0.70	0.62	0.44	0.07		
8	0.76	3.36	83.50	25.32	72.00	18.89	176.24	50.50	0.68	0.58	0.42	0.05		
9	0.70	3.02	78.00	43.14	68.00	18.52	151.76	37.10	0.66	0.60	0.38	0.05		
10	0.72	2.34	65.50	54.18	57.40	13.15	115.64	26.08	0.64	0.64	0.36	0.05		
11	0.68	5.90	50.50	69.50	45.90	8.50	84.00	18.89	0.64	0.66	0.34	0.05		
12	0.62	11.12	46.36	76.50	40.84	20.38	60.16	12.52	0.62	0.64	0.34	0.05		
13	0.60	21.14	86.00	52.80	63.00	70.50	46.82	8.50	0.62	0.60	0.34	0.05		
14	0.52	17.04	92.60	42.22	88.12	211.34	35.58	6.30	0.62	0.56	0.36	0.05		
15	0.48	8.75	93.16	37.10	96.52	264.80	27.22	5.14	0.62	0.54	0.34	0.05		
16	0.40	4.96	87.00	37.86	84.00	246.86	23.42	4.78	0.62	0.54	0.32	0.04		
17	0.30	6.30	73.50	50.04	56.02	242.18	20.38	4.06	0.62	0.54	0.28	0.04		
18	0.38	8.25	69.00	81.00	41.76	215.78	17.78	3.70	0.62	0.54	0.26	0.04		
19	0.54	11.68	97.64	105.48	39.46	155.84	15.25	3.02	0.62	0.54	0.24	0.04		
20	0.48	18.15	153.12	115.00	40.38	104.36	14.20	2.00	0.60	0.54	0.28	0.04		
21	0.40	28.36	161.28	116.92	41.76	88.68	13.85	1.30	0.60	0.54	0.30	0.04		
22	0.32	39.46	121.40	112.20	40.84	107.72	13.15	1.25	0.60	0.52	0.28	0.04		
23	0.26	55.10	86.00	95.96	37.48	120.76	14.20	1.20	0.60	0.52	0.28	0.04		
24	0.26	76.50	52.34	72.00	33.30	118.84	13.85	1.20	0.60	0.50	0.26	0.05		
25	0.76	72.00	26.46	52.80	23.80	99.32	12.80	1.20	0.60	0.50	0.26	0.24		
26	7.30	69.50	13.85	39.92	20.00	75.00	10.00	1.20	0.60	0.50	0.22	0.17		
27	4.24	47.74	8.00	34.06	19.63	56.02	10.84	1.20	0.62	0.48	0.17	0.13		
28	2.51	35.96	5.32	23.42	17.78	47.74	17.41	1.15	0.66	0.48	0.11	0.08		
29	2.34	32.92	3.88	28.36	24.18	48.20	22.66	1.05	0.68	0.48		0.05		
30	1.51	30.26	3.88	21.90	37.10	56.02	21.14	0.95	0.68	0.48		0.19		
31		28.36		19.63	35.58		23.42		0.68	0.46		0.17		
Total	31.16	682.28	1782.21	1597.93	1790.05	2539.13	1739.45	937.87	20.22	17.54	9.56	2.33	11149.73	CMSDAY
Mean	1.04	22.01	59.41	51.55	57.74	84.64	56.11	31.26	0.65	0.57	0.34	0.08	30.55	CMS
Max	7.30	76.50	161.28	116.92	134.20	264.80	201.72	144.44	0.80	0.70	0.54	0.24	264.80	CMS
Min	0.26	2.34	3.88	6.30	17.78	8.50	10.00	0.95	0.60	0.46	0.11	0.04	0.04	CMS
Runoff	2.69	58.95	153.98	138.06	154.66	219.38	150.29	81.03	1.75	1.52	0.83	0.20	963.34	MCM

Momentary Peak 270.26 CMS, at 137.17 m. (MSL.), at 18.00 Hours, on Sep 14, 2008

Runoff Yield 11.54 Liters/Second/Square KM. Momentary Peak Yield 102.10 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 3 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Float	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +238.820 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

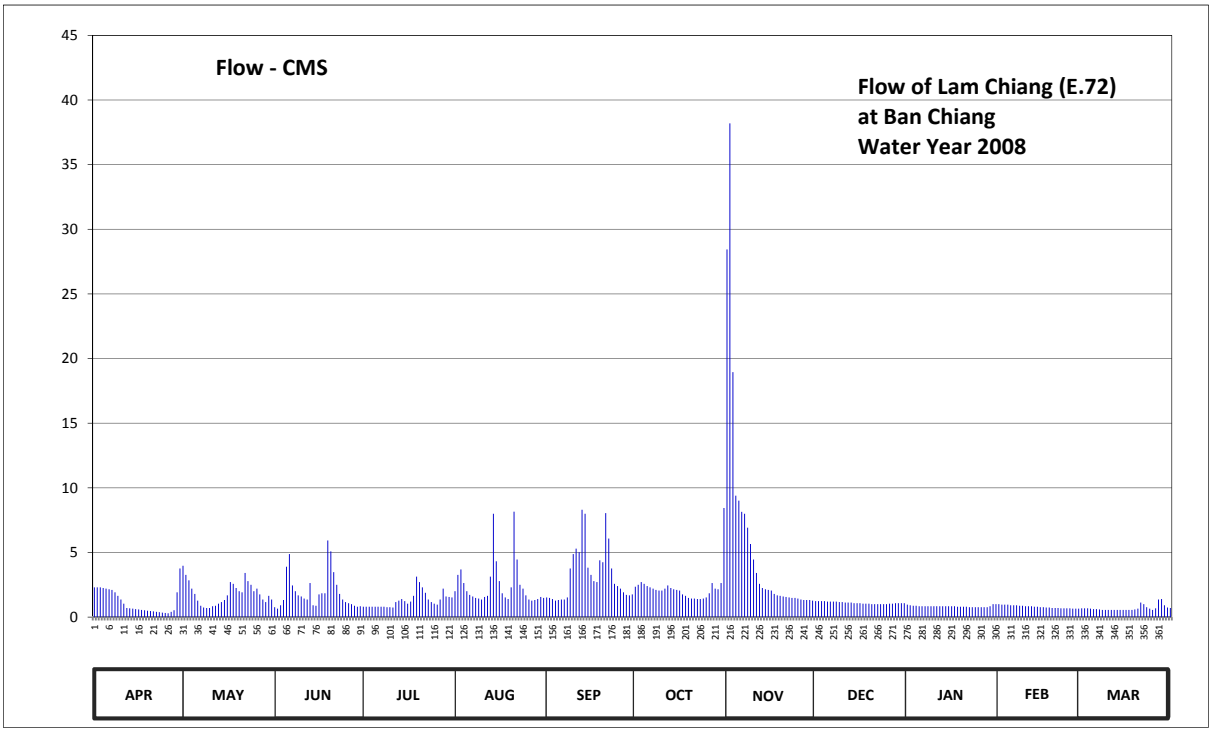
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	234.86	235.11	234.49	234.50	234.80	234.68	234.87	239.31	234.61	234.54	234.55	234.46	
2	234.86	235.01	234.45	234.50	235.01	234.67	234.90	240.00	234.61	234.53	234.54	234.46	
3	234.86	234.95	234.53	234.50	235.07	234.65	234.93	238.47	234.61	234.52	234.54	234.46	
4	234.85	234.84	234.63	234.50	234.92	234.62	234.91	236.91	234.61	234.52	234.54	234.45	
5	234.84	234.75	235.10	234.50	234.80	234.63	234.88	236.73	234.60	234.51	234.53	234.44	
6	234.83	234.62	235.24	234.50	234.73	234.64	234.86	236.05	234.60	234.51	234.53	234.44	
7	234.82	234.52	234.89	234.50	234.70	234.64	234.84	235.64	234.60	234.51	234.53	234.43	
8	234.78	234.48	234.80	234.50	234.67	234.68	234.82	235.51	234.60	234.51	234.52	234.42	
9	234.71	234.47	234.72	234.49	234.66	235.08	234.81	235.35	234.59	234.51	234.52	234.42	
10	234.64	234.47	234.70	234.49	234.64	235.24	234.81	235.18	234.59	234.51	234.51	234.42	
11	234.56	234.51	234.66	234.48	234.69	235.30	234.84	235.03	234.58	234.51	234.51	234.42	
12	234.47	234.52	234.64	234.59	234.71	235.26	234.89	234.91	234.58	234.51	234.51	234.42	
13	234.46	234.56	234.92	234.62	234.99	236.26	234.85	234.85	234.58	234.51	234.50	234.42	
14	234.45	234.59	234.53	234.65	235.61	235.62	234.83	234.83	234.57	234.51	234.50	234.42	
15	234.44	234.63	234.52	234.61	235.16	235.09	234.82	234.82	234.57	234.51	234.49	234.42	
16	234.43	234.72	234.74	234.56	234.94	235.01	234.81	234.81	234.57	234.51	234.49	234.42	
17	234.42	234.93	234.76	234.60	234.76	234.94	234.74	234.75	234.56	234.51	234.48	234.42	
18	234.41	234.91	234.76	234.71	234.68	234.93	234.71	234.72	234.56	234.50	234.48	234.42	
19	234.40	234.85	235.39	234.99	234.65	235.17	234.67	234.71	234.56	234.50	234.47	234.43	
20	234.39	234.80	235.27	234.93	234.86	235.15	234.66	234.70	234.55	234.50	234.47	234.45	
21	234.38	234.78	235.04	234.86	236.07	235.86	234.66	234.69	234.55	234.50	234.47	234.58	
22	234.37	235.03	234.90	234.77	235.18	235.41	234.65	234.68	234.55	234.49	234.46	234.55	
23	234.36	234.94	234.75	234.64	234.90	235.08	234.65	234.67	234.55	234.49	234.46	234.49	
24	234.35	234.90	234.64	234.59	234.84	234.91	234.66	234.67	234.55	234.49	234.46	234.45	
25	234.34	234.80	234.59	234.56	234.72	234.88	234.68	234.66	234.55	234.49	234.46	234.42	
26	234.33	234.84	234.57	234.54	234.64	234.84	234.76	234.64	234.56	234.49	234.45	234.46	
27	234.37	234.74	234.55	234.64	234.62	234.78	234.92	234.63	234.56	234.49	234.45	234.64	
28	234.41	234.64	234.52	234.84	234.63	234.73	234.84	234.63	234.57	234.49	234.45	234.65	
29	234.78	234.59	234.50	234.70	234.65	234.72	234.83	234.63	234.57	234.51		234.53	
30	235.08	234.71	234.51	234.69	234.69	234.74	234.92	234.62	234.57	234.55		234.48	
31		234.64		234.68	234.67		236.42		234.57	234.55		234.47	
Mean	234.57	234.74	234.74	234.62	234.86	235.01	234.85	235.46	234.58	234.51	234.50	234.46	
Max	235.08	235.11	235.39	234.99	236.07	236.26	236.42	240.00	234.61	234.55	234.55	234.65	240.00
Min	234.33	234.47	234.45	234.48	234.62	234.62	234.65	234.62	234.55	234.49	234.45	234.42	234.33

Annual Max Momentary Gage Height 240.15 m. (MSL.) , at 12.00 Hours, on Nov 2, 2008

Zero Gage at Bottom Elevation 234.12 m. (MSL.) , River Bed 233.53 m. (MSL.)

Left Bank Elevation 242.77 m. (MSL.) ,

Right Bank Elevation 238.81 m. (MSL.) , Drainage Are 323 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.30	3.97	0.77	0.80	2.00	1.52	2.35	28.44	1.24	0.96	1.00	0.68		
2	2.30	3.27	0.65	0.80	3.27	1.48	2.50	38.20	1.24	0.92	0.96	0.68		
3	2.30	2.85	0.92	0.80	3.69	1.40	2.71	18.95	1.24	0.88	0.96	0.68		
4	2.25	2.20	1.32	0.80	2.64	1.28	2.57	9.40	1.24	0.88	0.96	0.65		
5	2.20	1.80	3.90	0.80	2.00	1.32	2.40	9.01	1.20	0.84	0.92	0.62		
6	2.15	1.28	4.88	0.80	1.72	1.36	2.30	8.14	1.20	0.84	0.92	0.62		
7	2.10	0.88	2.45	0.80	1.60	1.36	2.20	8.00	1.20	0.84	0.92	0.59		
8	1.92	0.74	2.00	0.80	1.48	1.52	2.10	6.92	1.20	0.84	0.88	0.56		
9	1.64	0.71	1.68	0.77	1.44	3.76	2.05	5.65	1.16	0.84	0.88	0.56		
10	1.36	0.71	1.60	0.77	1.36	4.88	2.05	4.46	1.16	0.84	0.84	0.56		
11	1.04	0.84	1.44	0.74	1.56	5.30	2.20	3.41	1.12	0.84	0.84	0.56		
12	0.71	0.88	1.36	1.16	1.64	5.02	2.45	2.57	1.12	0.84	0.84	0.56		
13	0.68	1.04	2.64	1.28	3.13	8.31	2.25	2.25	1.12	0.84	0.80	0.56		
14	0.65	1.16	0.92	1.40	8.00	8.00	2.15	2.15	1.08	0.84	0.80	0.56		
15	0.62	1.32	0.88	1.24	4.32	3.83	2.10	2.10	1.08	0.84	0.77	0.56		
16	0.59	1.68	1.76	1.04	2.78	3.27	2.05	2.05	1.08	0.84	0.77	0.56		
17	0.56	2.71	1.84	1.20	1.84	2.78	1.76	1.80	1.04	0.84	0.74	0.56		
18	0.53	2.57	1.84	1.64	1.52	2.71	1.64	1.68	1.04	0.80	0.74	0.56		
19	0.50	2.25	5.93	3.13	1.40	4.39	1.48	1.64	1.04	0.80	0.71	0.59		
20	0.47	2.00	5.09	2.71	2.30	4.25	1.44	1.60	1.00	0.80	0.71	0.65		
21	0.44	1.92	3.48	2.30	8.16	8.04	1.44	1.56	1.00	0.80	0.71	1.12		
22	0.41	3.41	2.50	1.88	4.46	6.08	1.40	1.52	1.00	0.77	0.68	1.00		
23	0.38	2.78	1.80	1.36	2.50	3.76	1.40	1.48	1.00	0.77	0.68	0.77		
24	0.35	2.50	1.36	1.16	2.20	2.57	1.44	1.48	1.00	0.77	0.68	0.65		
25	0.32	2.00	1.16	1.04	1.68	2.40	1.52	1.44	1.00	0.77	0.68	0.56		
26	0.29	2.20	1.08	0.96	1.36	2.20	1.84	1.36	1.04	0.77	0.65	0.68		
27	0.41	1.76	1.00	1.36	1.28	1.92	2.64	1.32	1.04	0.77	0.65	1.36		
28	0.53	1.36	0.88	2.20	1.32	1.72	2.20	1.32	1.08	0.77	0.65	1.40		
29	1.92	1.16	0.80	1.60	1.40	1.68	2.15	1.32	1.08	0.84		0.92		
30	3.76	1.64	0.84	1.56	1.56	1.76	2.64	1.28	1.08	1.00		0.74		
31		1.36		1.52	1.48		8.44		1.08	1.00		0.71		
Total	35.68	56.95	58.77	40.42	77.09	99.87	69.86	172.50	34.20	25.99	22.34	21.83	715.50	CMSDAY
Mean	1.19	1.84	1.96	1.30	2.49	3.33	2.25	5.75	1.10	0.84	0.80	0.70	1.96	CMS
Max	3.76	3.97	5.93	3.13	8.16	8.31	8.44	38.20	1.24	1.00	1.00	1.40	38.20	CMS
Min	0.29	0.71	0.65	0.74	1.28	1.28	1.40	1.28	1.00	0.77	0.65	0.56	0.29	CMS
Runoff	3.08	4.92	5.08	3.49	6.66	8.63	6.04	14.90	2.95	2.25	1.93	1.89	61.82	MCM

Momentary Peak 40.72 CMS, at 240.15 m. (MSL.), at 12.00 Hours, on Nov 2, 2008

Runoff Yield 6.07 Liters/Second/Square KM. Momentary Peak Yield 126.07 Liters/Second/Square KM.

WATER YEAR : 2008

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.

Ban Wang Taku **Amphoe** Phak Di Chumphon **Changwat** Chaiyaphum

Drainge Area	251 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+247.240 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On left bank about 2 meters from the top staff gage. **Elevation** +254.832 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 mean of 3 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Float	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The local weir situated about 4 kilometers downstream from the gage site. Stage-discharge relation defined by 28 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

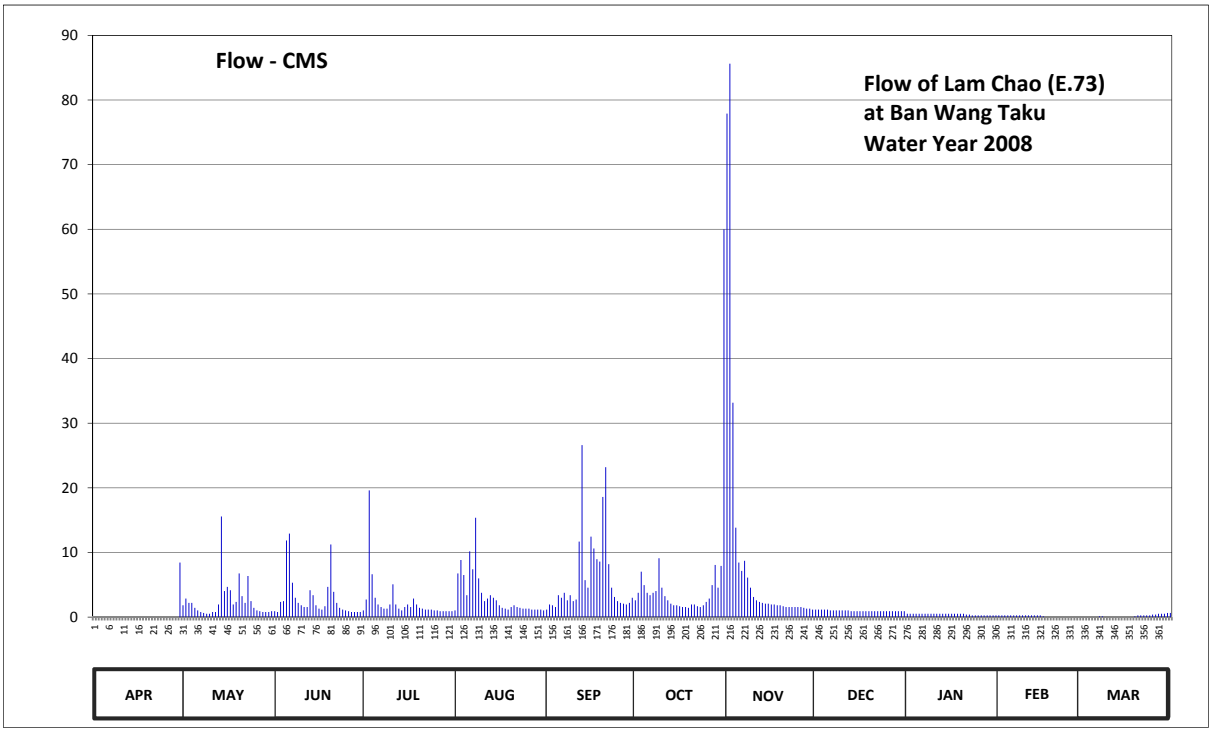
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	249.17	249.74	249.67	249.68	249.68	249.69	249.80	253.33	249.69	249.64	249.62	249.59	
2	249.25	249.82	249.66	249.81	250.12	249.75	249.89	253.58	249.69	249.64	249.62	249.59	
3	249.26	249.77	249.78	250.93	250.28	249.74	250.14	251.58	249.69	249.64	249.62	249.59	
4	249.26	249.77	249.79	250.11	250.10	249.72	249.98	250.61	249.69	249.64	249.62	249.59	
5	249.26	249.71	250.48	249.83	249.86	249.86	249.89	250.25	249.69	249.64	249.62	249.60	
6	249.26	249.68	250.55	249.75	250.37	249.83	249.86	250.15	249.68	249.64	249.62	249.60	
7	249.27	249.66	250.01	249.72	250.17	249.89	249.89	250.27	249.68	249.64	249.62	249.61	
8	249.34	249.65	249.83	249.70	250.71	249.80	249.91	250.07	249.68	249.64	249.62	249.61	
9	249.40	249.64	249.77	249.70	250.06	249.86	250.30	249.95	249.68	249.64	249.62	249.60	
10	249.43	249.64	249.74	249.75	249.89	249.79	249.95	249.84	249.68	249.64	249.62	249.60	
11	249.44	249.66	249.72	249.99	249.79	249.81	249.85	249.80	249.68	249.64	249.62	249.59	
12	249.43	249.66	249.72	249.75	249.82	250.47	249.80	249.78	249.68	249.64	249.62	249.59	
13	249.42	249.75	249.92	249.70	249.86	251.28	249.76	249.77	249.67	249.64	249.62	249.59	
14	249.41	250.72	249.86	249.68	249.83	250.04	249.74	249.76	249.67	249.64	249.62	249.60	
15	249.40	249.91	249.74	249.72	249.80	249.95	249.74	249.76	249.67	249.64	249.62	249.60	
16	249.39	249.96	249.70	249.75	249.74	250.52	249.73	249.75	249.67	249.64	249.61	249.59	
17	249.38	249.92	249.69	249.72	249.71	250.40	249.72	249.75	249.67	249.64	249.60	249.59	
18	249.36	249.75	249.73	249.82	249.70	250.29	249.72	249.74	249.67	249.64	249.59	249.59	
19	249.34	249.78	249.96	249.75	249.69	250.26	249.71	249.74	249.67	249.64	249.58	249.61	
20	249.32	250.12	250.44	249.71	249.72	250.88	249.75	249.73	249.67	249.64	249.57	249.62	
21	249.31	249.85	249.90	249.70	249.74	251.11	249.75	249.72	249.67	249.63	249.56	249.62	
22	249.30	249.77	249.77	249.69	249.72	250.23	249.73	249.72	249.67	249.63	249.55	249.62	
23	249.29	250.09	249.71	249.69	249.71	249.95	249.72	249.72	249.67	249.62	249.55	249.62	
24	249.28	249.79	249.69	249.69	249.70	249.84	249.74	249.72	249.67	249.62	249.54	249.62	
25	249.28	249.71	249.68	249.68	249.70	249.79	249.78	249.72	249.67	249.62	249.53	249.63	
26	249.27	249.68	249.67	249.68	249.70	249.77	249.82	249.72	249.67	249.62	249.52	249.63	
27	249.26	249.67	249.66	249.67	249.69	249.76	249.98	249.71	249.67	249.62	249.51	249.64	
28	249.24	249.66	249.66	249.67	249.69	249.75	250.22	249.70	249.67	249.62	249.51	249.64	
29	249.46	249.66	249.66	249.67	249.69	249.77	249.95	249.70	249.67	249.62		249.64	
30	250.25	249.66	249.66	249.67	249.69	249.83	250.21	249.69	249.67	249.62		249.65	
31		249.67		249.67	249.68		252.70		249.67	249.62		249.65	
Mean	249.36	249.79	249.83	249.78	249.86	250.05	249.96	250.14	249.68	249.63	249.59	249.61	
Max	250.25	250.72	250.55	250.93	250.71	251.28	252.70	253.58	249.69	249.64	249.62	249.65	253.58
Min	249.17	249.64	249.66	249.67	249.68	249.69	249.71	249.69	249.67	249.62	249.51	249.59	249.17

Annual Max Momentary Gage Height 254.74 m. (MSL.) , at 18.00 Hours, on Nov 2, 2008

Zero Gage at Bottom Elevation 247.24 m. (MSL.) , River Bed 247.67 m. (MSL.)

Left Bank Elevation 258.76 m. (MSL.) ,

Right Bank Elevation 255.25 m. (MSL.) , Drainage Are 251 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	1.82	0.91	1.04	1.04	1.17	2.60	77.90	1.17	0.52	0.26	0.00		
2	0.00	2.86	0.78	2.73	6.76	1.95	3.77	85.64	1.17	0.52	0.26	0.00		
3	0.00	2.21	2.34	19.60	8.84	1.82	7.02	33.16	1.17	0.52	0.26	0.00		
4	0.00	2.21	2.47	6.63	6.50	1.56	4.94	13.83	1.17	0.52	0.26	0.00		
5	0.00	1.43	11.85	2.99	3.38	3.38	3.77	8.45	1.17	0.52	0.26	0.00		
6	0.00	1.04	12.91	1.95	10.17	2.99	3.38	7.15	1.04	0.52	0.26	0.00		
7	0.00	0.78	5.33	1.56	7.41	3.77	3.77	8.71	1.04	0.52	0.26	0.13		
8	0.00	0.65	2.99	1.30	15.38	2.60	4.03	6.11	1.04	0.52	0.26	0.13		
9	0.00	0.52	2.21	1.30	5.98	3.38	9.10	4.55	1.04	0.52	0.26	0.00		
10	0.00	0.52	1.82	1.95	3.77	2.47	4.55	3.12	1.04	0.52	0.26	0.00		
11	0.00	0.78	1.56	5.07	2.47	2.73	3.25	2.60	1.04	0.52	0.26	0.00		
12	0.00	0.78	1.56	1.95	2.86	11.69	2.60	2.34	1.04	0.52	0.26	0.00		
13	0.00	1.95	4.16	1.30	3.38	26.60	2.08	2.21	0.91	0.52	0.26	0.00		
14	0.00	15.56	3.38	1.04	2.99	5.72	1.82	2.08	0.91	0.52	0.26	0.00		
15	0.00	4.03	1.82	1.56	2.60	4.55	1.82	2.08	0.91	0.52	0.26	0.00		
16	0.00	4.68	1.30	1.95	1.82	12.46	1.69	1.95	0.91	0.52	0.13	0.00		
17	0.00	4.16	1.17	1.56	1.43	10.63	1.56	1.95	0.91	0.52	0.00	0.00		
18	0.00	1.95	1.69	2.86	1.30	8.97	1.56	1.82	0.91	0.52	0.00	0.00		
19	0.00	2.34	4.68	1.95	1.17	8.58	1.43	1.82	0.91	0.52	0.00	0.13		
20	0.00	6.76	11.24	1.43	1.56	18.60	1.95	1.69	0.91	0.52	0.00	0.26		
21	0.00	3.25	3.90	1.30	1.82	23.20	1.95	1.56	0.91	0.39	0.00	0.26		
22	0.00	2.21	2.21	1.17	1.56	8.19	1.69	1.56	0.91	0.39	0.00	0.26		
23	0.00	6.37	1.43	1.17	1.43	4.55	1.56	1.56	0.91	0.26	0.00	0.26		
24	0.00	2.47	1.17	1.17	1.30	3.12	1.82	1.56	0.91	0.26	0.00	0.26		
25	0.00	1.43	1.04	1.04	1.30	2.47	2.34	1.56	0.91	0.26	0.00	0.39		
26	0.00	1.04	0.91	1.04	1.30	2.21	2.86	1.56	0.91	0.26	0.00	0.39		
27	0.00	0.91	0.78	0.91	1.17	2.08	4.94	1.43	0.91	0.26	0.00	0.52		
28	0.00	0.78	0.78	0.91	1.17	1.95	8.06	1.30	0.91	0.26	0.00	0.52		
29	0.00	0.78	0.78	0.91	1.17	2.21	4.55	1.30	0.91	0.26		0.52		
30	8.45	0.78	0.78	0.91	1.17	2.99	7.93	1.17	0.91	0.26		0.65		
31		0.91		0.91	1.04		60.00		0.91	0.26		0.65		
Total	8.45	77.96	89.95	73.16	105.24	188.59	164.39	283.72	30.42	13.52	4.03	5.33	1044.76	CMSDAY
Mean	0.28	2.51	3.00	2.36	3.39	6.29	5.30	9.46	0.98	0.44	0.14	0.17	2.86	CMS
Max	8.45	15.56	12.91	19.60	15.38	26.60	60.00	85.64	1.17	0.52	0.26	0.65	85.64	CMS
Min	0.00	0.52	0.78	0.91	1.04	1.17	1.43	1.17	0.91	0.26	0.00	0.00	0.00	CMS
Runoff	0.73	6.74	7.77	6.32	9.09	16.29	14.20	24.51	2.63	1.17	0.35	0.46	90.27	MCM

Momentary Peak 123.96 CMS, at 254.74 m. (MSL.), at 18.00 Hours, on Nov 2, 2008

Runoff Yield 11.40 Liters/Second/Square KM. Momentary Peak Yield 493.86 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 3 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Float	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow regulated by Lam Pao Dam.		
	Stage-discharge relation defined by 25 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

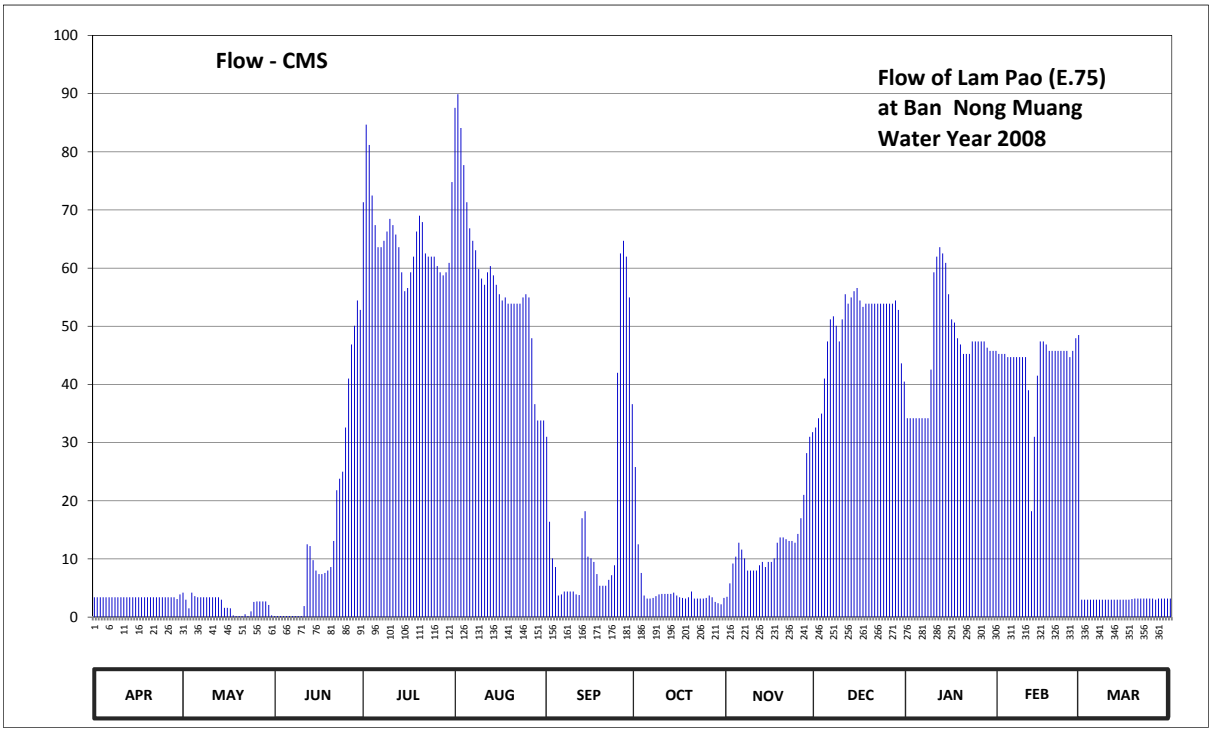
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.84	137.91	137.52	139.54	139.82	138.75	138.62	137.85	138.80	138.83	139.06	137.80	
2	137.84	137.80	137.52	139.77	139.86	138.38	138.25	137.99	138.83	138.83	139.06	137.80	
3	137.84	137.65	137.52	139.71	139.77	138.17	138.08	138.14	138.85	138.83	139.06	137.80	
4	137.84	137.91	137.52	139.56	139.65	138.12	137.87	138.19	138.98	138.83	139.05	137.80	
5	137.84	137.87	137.52	139.47	139.54	137.87	137.82	138.27	139.10	138.83	139.05	137.80	
6	137.84	137.84	137.52	139.40	139.47	137.89	137.82	138.23	139.17	138.83	139.05	137.80	
7	137.84	137.84	137.52	139.40	139.42	137.92	137.83	138.17	139.18	138.83	139.05	137.80	
8	137.84	137.84	137.52	139.42	139.39	137.92	137.86	138.11	139.15	138.83	139.05	137.80	
9	137.84	137.84	137.52	139.46	139.33	137.92	137.89	138.10	139.10	139.01	139.05	137.80	
10	137.84	137.84	137.52	139.50	139.30	137.92	137.90	138.10	139.17	139.32	139.06	137.80	
11	137.84	137.84	137.70	139.47	139.28	137.89	137.90	138.10	139.25	139.38	138.95	137.80	
12	137.84	137.84	138.25	139.44	139.32	137.89	137.90	138.13	139.22	139.40	138.43	137.80	
13	137.84	137.84	138.25	139.40	139.34	138.40	137.90	138.16	139.25	139.38	138.75	137.80	
14	137.84	137.80	138.16	139.32	139.32	138.43	137.91	138.12	139.26	139.35	138.99	137.80	
15	137.84	137.67	138.11	139.26	139.28	138.19	137.87	138.15	139.27	139.25	139.10	137.80	
16	137.84	137.66	138.07	139.27	139.26	138.17	137.84	138.15	139.24	139.18	139.10	137.80	
17	137.84	137.65	138.08	139.32	139.23	138.15	137.83	138.18	139.22	139.16	139.09	137.80	
18	137.84	137.53	138.08	139.37	139.24	138.07	137.82	138.26	139.22	139.12	139.07	137.81	
19	137.84	137.52	138.10	139.45	139.22	137.97	137.84	138.29	139.22	139.09	139.07	137.82	
20	137.84	137.52	138.12	139.50	139.22	137.97	137.92	138.29	139.22	139.06	139.07	137.82	
21	137.84	137.52	138.27	139.48	139.22	137.97	137.82	138.28	139.22	139.06	139.07	137.82	
22	137.84	137.55	138.52	139.39	139.22	138.02	137.82	138.27	139.22	139.06	139.07	137.82	
23	137.84	137.52	138.57	139.37	139.22	138.06	137.82	138.27	139.22	139.10	139.07	137.82	
24	137.84	137.60	138.61	139.37	139.24	138.13	137.82	138.26	139.22	139.10	139.07	137.82	
25	137.84	137.76	138.80	139.37	139.25	139.00	137.83	138.31	139.22	139.10	139.06	137.82	
26	137.84	137.77	138.99	139.34	139.25	139.39	137.87	138.40	139.22	139.10	139.07	137.81	
27	137.84	137.77	139.10	139.32	139.11	139.42	137.84	138.50	139.22	139.10	139.11	137.82	
28	137.84	137.77	139.16	139.31	138.89	139.37	137.76	138.69	139.23	139.08	139.12	137.82	
29	137.81	137.77	139.24	139.32	138.82	139.25	137.74	138.75	139.20	139.07		137.82	
30	137.89	137.71	139.20	139.36	138.82	138.90	137.73	138.77	139.03	139.07		137.82	
31		137.53		139.60	138.82		137.83		138.97	139.07		137.82	
Mean	137.84	137.73	138.15	139.43	139.29	138.32	137.89	138.25	139.15	139.07	139.03	137.81	
Max	137.89	137.91	139.24	139.77	139.86	139.42	138.62	138.77	139.27	139.40	139.12	137.82	139.86
Min	137.81	137.52	137.52	139.26	138.82	137.87	137.73	137.85	138.80	138.83	138.43	137.80	137.52

Annual Max Momentary Gage Height 139.90 m. (MSL.) , at 18.00 Hours, on Aug 1, 2008

Zero Gage at Bottom Elevation 138.02 m. (MSL.) , River Bed 137.30 m. (MSL.)

Left Bank Elevation 150.19 m. (MSL.) ,

Right Bank Elevation 150.24 m. (MSL.) , Drainage Are 6,013 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.40	4.20	0.20	71.32	87.56	31.00	25.80	3.50	32.60	34.20	45.24	3.00		
2	3.40	3.00	0.20	84.66	89.88	16.40	12.50	5.80	34.20	34.20	45.24	3.00		
3	3.40	1.50	0.20	81.18	84.08	10.10	7.60	9.20	35.00	34.20	45.24	3.00		
4	3.40	4.20	0.20	72.48	77.70	8.60	3.70	10.40	41.00	34.20	44.70	3.00		
5	3.40	3.60	0.20	67.38	71.32	3.70	3.20	12.80	47.40	34.20	44.70	3.00		
6	3.40	3.40	0.20	63.60	66.84	3.90	3.20	11.60	51.18	34.20	44.70	3.00		
7	3.40	3.40	0.20	63.60	64.68	4.40	3.30	10.10	51.72	34.20	44.70	3.00		
8	3.40	3.40	0.20	64.68	63.06	4.40	3.60	8.00	50.10	34.20	44.70	3.00		
9	3.40	3.40	0.20	66.30	59.82	4.40	3.90	8.00	47.40	42.54	44.70	3.00		
10	3.40	3.40	0.20	68.46	58.20	4.40	4.00	8.00	51.18	59.28	44.70	3.00		
11	3.40	3.40	1.90	67.38	57.12	3.90	4.00	8.00	55.50	61.98	39.00	3.00		
12	3.40	3.40	12.50	65.76	59.28	3.80	4.00	8.90	53.88	63.60	18.20	3.00		
13	3.40	3.40	12.20	63.60	60.36	17.00	4.00	9.50	54.96	62.52	31.00	3.00		
14	3.40	3.00	9.80	59.28	58.74	18.20	4.20	8.60	56.04	60.90	41.50	3.00		
15	3.40	1.60	8.00	56.04	57.12	10.40	3.70	9.50	56.58	55.50	47.40	3.00		
16	3.40	1.60	7.40	56.58	55.50	10.10	3.40	9.50	54.42	51.18	47.40	3.00		
17	3.40	1.50	7.40	59.28	54.42	9.50	3.30	10.10	53.34	50.64	46.86	3.00		
18	3.40	0.30	7.60	61.98	54.96	7.40	3.20	12.80	53.88	47.94	45.78	3.10		
19	3.40	0.20	8.00	66.30	53.88	5.40	3.40	13.70	53.88	46.86	45.78	3.20		
20	3.40	0.20	8.60	69.00	53.88	5.40	4.40	13.70	53.88	45.24	45.78	3.20		
21	3.40	0.20	13.10	67.92	53.88	5.40	3.20	13.40	53.88	45.24	45.78	3.20		
22	3.40	0.50	21.80	62.52	53.88	6.40	3.20	13.10	53.88	45.24	45.78	3.20		
23	3.40	0.20	23.80	61.98	53.88	7.20	3.20	13.10	53.88	47.40	45.78	3.20		
24	3.40	1.00	25.00	61.98	54.96	8.90	3.20	12.80	53.88	47.40	45.78	3.20		
25	3.40	2.60	32.60	61.98	55.50	42.00	3.30	14.30	53.88	47.40	44.70	3.20		
26	3.40	2.70	41.00	60.36	54.96	62.52	3.70	17.00	53.88	47.40	45.78	3.00		
27	3.40	2.70	46.86	59.28	47.94	64.68	3.40	21.00	53.88	47.40	47.94	3.20		
28	3.40	2.70	50.10	58.74	36.60	61.98	2.60	28.20	54.42	46.32	48.48	3.20		
29	3.10	2.70	54.42	59.28	33.80	54.96	2.40	31.00	52.80	45.78		3.20		
30	3.90	2.10	52.80	60.90	33.80	36.60	2.20	31.80	43.62	45.78		3.20		
31		0.30		74.80	33.80		3.30		40.50	45.78		3.20		
Total	102.20	69.80	446.88	2018.60	1801.40	533.04	142.10	387.40	1556.64	1432.92	1227.34	95.50	9813.82	CMSDAY
Mean	3.41	2.25	14.90	65.12	58.11	17.77	4.58	12.91	50.21	46.22	43.83	3.08	26.89	CMS
Max	3.90	4.20	54.42	84.66	89.88	64.68	25.80	31.80	56.58	63.60	48.48	3.20	89.88	CMS
Min	3.10	0.20	0.20	56.04	33.80	3.70	2.20	3.50	32.60	34.20	18.20	3.00	0.20	CMS
Runoff	8.83	6.03	38.61	174.41	155.64	46.05	12.28	33.47	134.49	123.80	106.04	8.25	847.91	MCM

Momentary Peak 92.20 CMS, at 139.90 m. (MSL.), at 18.00 Hours, on Aug 1, 2008

Runoff Yield 4.47 Liters/Second/Square KM. Momentary Peak Yield 15.33 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	195 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+163.900 m. (MSL.)		
Bench Mark	B.M.- H.D.		
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 mean of 3 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Float	-		
Rated by Current Meter	1999 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

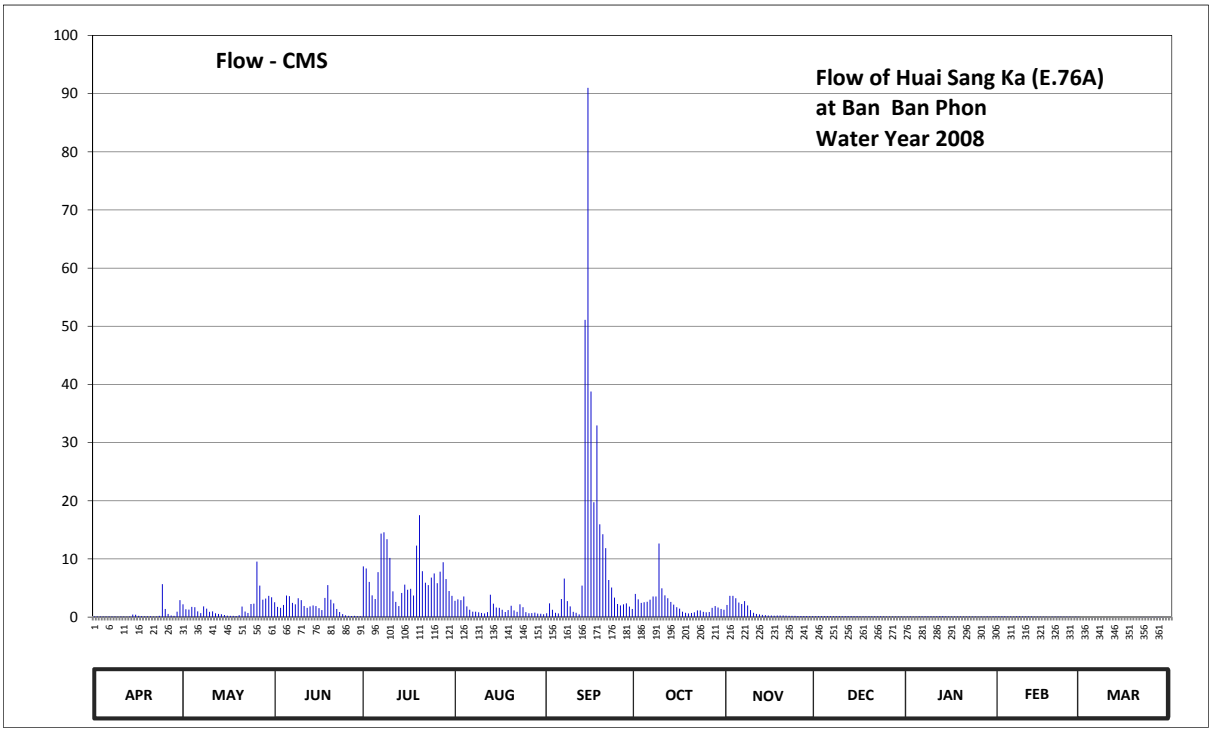
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	164.31	165.04	165.11	165.99	165.16	164.68	165.40	165.02	164.36	164.32	164.34	164.19	
2	164.31	164.87	164.95	165.95	165.21	165.07	165.21	165.33	164.36	164.33	164.33	164.19	
3	164.31	164.86	164.92	165.67	165.18	164.85	165.09	165.33	164.36	164.31	164.33	164.20	
4	164.31	164.95	165.02	165.35	165.31	164.71	165.11	165.25	164.36	164.32	164.32	164.20	
5	164.31	164.94	165.34	165.22	164.97	164.67	165.13	165.10	164.37	164.33	164.31	164.20	
6	164.31	164.80	165.32	165.88	164.85	165.22	165.20	165.05	164.37	164.34	164.32	164.20	
7	164.31	164.69	165.09	166.59	164.78	165.74	165.31	165.15	164.35	164.33	164.33	164.20	
8	164.30	164.97	165.04	166.61	164.78	165.15	165.31	165.00	164.36	164.33	164.33	164.20	
9	164.29	164.89	165.25	166.50	164.74	164.97	166.42	164.84	164.36	164.33	164.32	164.20	
10	164.30	164.77	165.18	166.15	164.70	164.77	165.53	164.71	164.35	164.34	164.31	164.19	
11	164.31	164.80	164.98	165.46	164.67	164.71	165.35	164.63	164.35	164.34	164.31	164.18	
12	164.29	164.68	164.92	165.12	164.75	164.58	165.25	164.58	164.35	164.35	164.30	164.18	
13	164.31	164.62	164.97	164.98	165.37	165.59	165.12	164.54	164.36	164.35	164.29	164.17	
14	164.57	164.59	165.00	165.42	165.06	169.29	165.03	164.51	164.36	164.34	164.29	164.17	
15	164.55	164.53	164.98	165.61	164.93	170.50	164.94	164.48	164.35	164.32	164.27	164.17	
16	164.43	164.44	164.91	165.50	164.92	168.55	164.89	164.47	164.34	164.32	164.28	164.16	
17	164.37	164.42	164.84	165.52	164.85	167.09	164.78	164.45	164.34	164.32	164.27	164.15	
18	164.34	164.41	165.26	165.34	164.76	168.14	164.71	164.46	164.34	164.31	164.26	164.19	
19	164.33	164.40	165.60	166.38	164.84	166.74	164.67	164.46	164.34	164.31	164.27	164.21	
20	164.33	164.52	165.20	166.89	164.99	166.58	164.70	164.47	164.34	164.31	164.27	164.21	
21	164.32	164.96	165.07	165.90	164.83	166.33	164.74	164.45	164.34	164.31	164.27	164.22	
22	164.30	164.79	164.88	165.65	164.77	165.71	164.83	164.43	164.33	164.32	164.28	164.22	
23	164.41	164.70	164.76	165.60	165.04	165.55	164.83	164.41	164.33	164.30	164.28	164.22	
24	165.62	165.05	164.61	165.76	164.94	165.27	164.77	164.41	164.33	164.31	164.28	164.22	
25	164.88	165.06	164.50	165.85	164.75	165.05	164.74	164.38	164.32	164.29	164.27	164.22	
26	164.62	166.08	164.42	165.64	164.68	165.00	164.76	164.39	164.32	164.30	164.25	164.22	
27	164.46	165.59	164.40	165.89	164.69	165.04	164.92	164.38	164.32	164.31	164.27	164.23	
28	164.43	165.20	164.41	166.07	164.72	165.07	164.98	164.38	164.31	164.34	164.26	164.22	
29	164.78	165.24	164.37	165.73	164.65	164.96	164.93	164.37	164.31	164.31		164.21	
30	165.18	165.33	164.36	165.47	164.64	164.88	164.88	164.37	164.31	164.34		164.21	
31		165.28		165.33	164.59		164.85		164.30	164.33		164.20	
Mean	164.46	164.89	164.92	165.77	164.87	165.82	165.04	164.66	164.34	164.32	164.29	164.20	
Max	165.62	166.08	165.60	166.89	165.37	170.50	166.42	165.33	164.37	164.35	164.34	164.23	170.50
Min	164.29	164.40	164.36	164.98	164.59	164.58	164.67	164.37	164.30	164.29	164.25	164.15	164.15

Annual Max Momentary Gage Height 171.02 m. (MSL.) , at 03.00 Hours, on Sep 15, 2008

Zero Gage at Bottom Elevation 163.90 m. (MSL.) , River Bed 163.89 m. (MSL.)

Left Bank Elevation 173.64 m. (MSL.) ,

Right Bank Elevation 173.59 m. (MSL.) , Drainage Are 195 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.11	2.20	2.55	8.71	2.80	0.66	4.00	2.10	0.16	0.12	0.14	0.00		
2	0.11	1.35	1.75	8.35	3.05	2.35	3.05	3.65	0.16	0.13	0.13	0.00		
3	0.11	1.30	1.60	6.06	2.90	1.25	2.45	3.65	0.16	0.11	0.13	0.00		
4	0.11	1.75	2.10	3.75	3.55	0.73	2.55	3.25	0.16	0.12	0.12	0.00		
5	0.11	1.70	3.70	3.10	1.85	0.64	2.65	2.50	0.17	0.13	0.11	0.00		
6	0.11	1.00	3.60	7.74	1.25	3.10	3.00	2.25	0.17	0.14	0.12	0.00		
7	0.11	0.68	2.45	14.35	0.94	6.62	3.55	2.75	0.15	0.13	0.13	0.00		
8	0.10	1.85	2.20	14.57	0.94	2.75	3.55	2.00	0.16	0.13	0.13	0.00		
9	0.09	1.45	3.25	13.40	0.82	1.85	12.66	1.20	0.16	0.13	0.12	0.00		
10	0.10	0.91	2.90	10.18	0.70	0.91	4.94	0.73	0.15	0.14	0.11	0.00		
11	0.11	1.00	1.90	4.42	0.64	0.73	3.75	0.56	0.15	0.14	0.11	0.00		
12	0.09	0.66	1.60	2.60	0.85	0.46	3.25	0.46	0.15	0.15	0.10	0.00		
13	0.11	0.54	1.85	1.90	3.85	5.42	2.60	0.38	0.16	0.15	0.09	0.00		
14	0.44	0.48	2.00	4.14	2.30	51.10	2.15	0.32	0.16	0.14	0.09	0.00		
15	0.40	0.36	1.90	5.58	1.65	91.00	1.70	0.28	0.15	0.12	0.07	0.00		
16	0.23	0.24	1.55	4.70	1.60	38.78	1.45	0.27	0.14	0.12	0.08	0.00		
17	0.17	0.22	1.20	4.86	1.25	19.74	0.94	0.25	0.14	0.12	0.07	0.00		
18	0.14	0.21	3.30	3.70	0.88	32.96	0.73	0.26	0.14	0.11	0.06	0.00		
19	0.13	0.20	5.50	12.30	1.20	15.94	0.64	0.26	0.14	0.11	0.07	0.01		
20	0.13	0.34	3.00	17.53	1.95	14.25	0.70	0.27	0.14	0.11	0.07	0.01		
21	0.12	1.80	2.35	7.90	1.15	11.84	0.82	0.25	0.14	0.11	0.07	0.02		
22	0.10	0.97	1.40	5.90	0.91	6.38	1.15	0.23	0.13	0.12	0.08	0.02		
23	0.21	0.70	0.88	5.50	2.20	5.10	1.15	0.21	0.13	0.10	0.08	0.02		
24	5.66	2.25	0.52	6.78	1.70	3.35	0.91	0.21	0.13	0.11	0.08	0.02		
25	1.40	2.30	0.30	7.50	0.85	2.25	0.82	0.18	0.12	0.09	0.07	0.02		
26	0.54	9.54	0.22	5.82	0.66	2.00	0.88	0.19	0.12	0.10	0.05	0.02		
27	0.26	5.42	0.20	7.82	0.68	2.20	1.60	0.18	0.12	0.11	0.07	0.03		
28	0.23	3.00	0.21	9.44	0.76	2.35	1.90	0.18	0.11	0.14	0.06	0.02		
29	0.94	3.20	0.17	6.54	0.60	1.80	1.65	0.17	0.11	0.11		0.01		
30	2.90	3.65	0.16	4.49	0.58	1.40	1.40	0.17	0.11	0.14		0.01		
31		3.40		3.65	0.48		1.25		0.10	0.13		0.00		
Total	15.37	54.67	56.31	223.28	45.54	329.91	73.84	29.36	4.39	3.81	2.61	0.21	839.30	CMSDAY
Mean	0.51	1.76	1.88	7.20	1.47	11.00	2.38	0.98	0.14	0.12	0.09	0.01	2.30	CMS
Max	5.66	9.54	5.50	17.53	3.85	91.00	12.66	3.65	0.17	0.15	0.14	0.03	91.00	CMS
Min	0.09	0.20	0.16	1.90	0.48	0.46	0.64	0.17	0.10	0.09	0.05	0.00	0.00	CMS
Runoff	1.33	4.72	4.87	19.29	3.93	28.50	6.38	2.54	0.38	0.33	0.23	0.02	72.52	MCM

Momentary Peak 129.46 CMS, at 171.02 m. (MSL.), at 03.00 Hours, on Sep 15, 2008

Runoff Yield 11.79 Liters/Second/Square KM. Momentary Peak Yield 663.90 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 3 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
Rated by Current Meter	2004 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 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

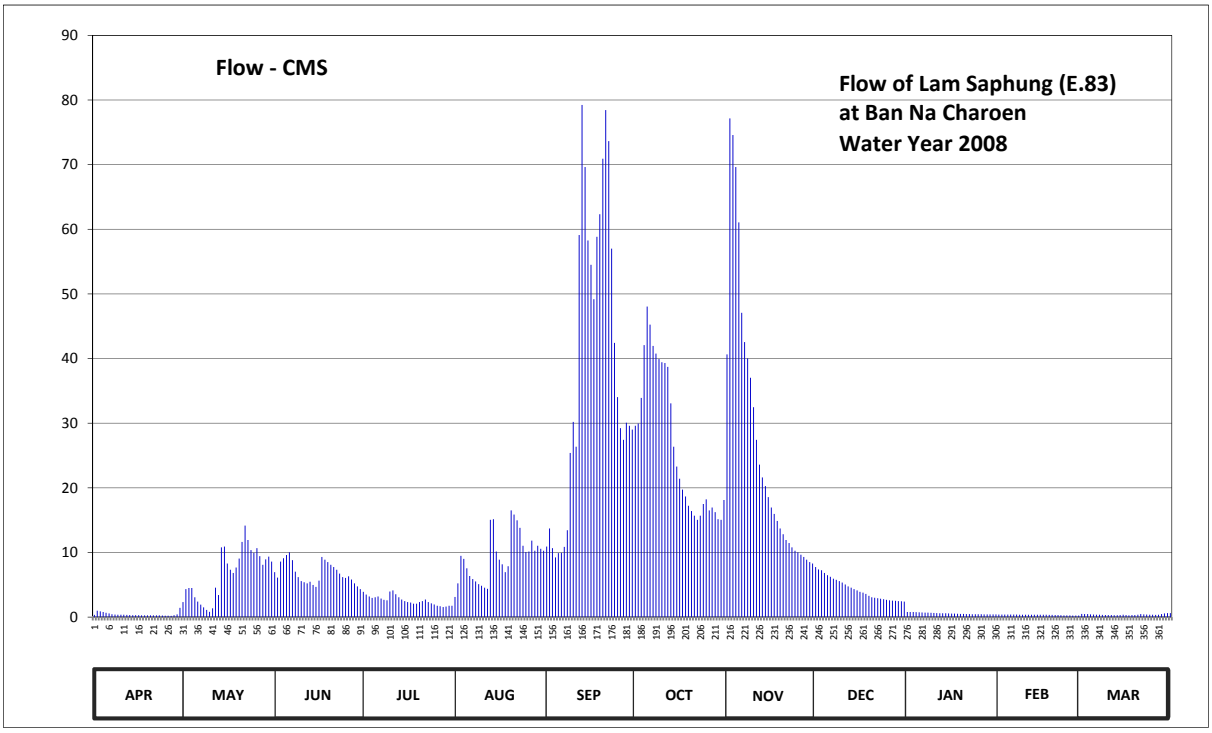
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	223.17	223.83	224.66	224.15	224.02	225.32	227.30	228.22	224.79	223.40	223.20	223.25	
2	223.49	224.22	224.52	224.08	224.37	225.69	227.33	230.76	224.73	223.40	223.20	223.24	
3	223.44	224.25	224.93	224.03	225.08	225.28	227.66	230.60	224.71	223.39	223.20	223.23	
4	223.40	224.25	225.02	223.99	225.00	225.04	228.34	230.29	224.64	223.38	223.20	223.21	
5	223.33	224.01	225.10	224.01	224.76	225.15	228.79	229.72	224.58	223.37	223.20	223.20	
6	223.28	223.85	225.17	224.03	224.56	225.16	228.59	228.72	224.54	223.36	223.20	223.19	
7	223.22	223.73	224.97	223.97	224.48	225.31	228.33	228.38	224.49	223.35	223.20	223.18	
8	223.20	223.63	224.67	223.92	224.42	225.66	228.23	228.17	224.46	223.34	223.19	223.17	
9	223.19	223.53	224.53	223.90	224.35	226.94	228.16	227.92	224.43	223.33	223.19	223.16	
10	223.19	223.41	224.43	224.16	224.31	227.35	228.12	227.54	224.39	223.32	223.19	223.16	
11	223.18	223.59	224.40	224.19	224.26	227.03	228.11	227.12	224.34	223.31	223.19	223.16	
12	223.17	224.26	224.37	224.09	224.23	229.58	228.06	226.76	224.29	223.30	223.19	223.15	
13	223.16	224.07	224.41	224.01	225.84	230.89	227.59	226.56	224.26	223.29	223.19	223.15	
14	223.15	225.30	224.33	223.93	225.85	230.29	227.03	226.42	224.22	223.29	223.19	223.16	
15	223.15	225.32	224.28	223.87	225.19	229.52	226.73	226.23	224.19	223.28	223.18	223.18	
16	223.15	224.88	224.44	223.83	224.98	229.25	226.54	226.05	224.15	223.27	223.18	223.16	
17	223.14	224.72	225.05	223.81	224.86	228.87	226.36	225.94	224.13	223.27	223.18	223.14	
18	223.14	224.64	224.98	223.77	224.66	229.56	226.24	225.82	224.10	223.26	223.17	223.16	
19	223.14	224.78	224.92	223.77	224.81	229.81	226.08	225.69	224.05	223.25	223.17	223.16	
20	223.14	225.01	224.85	223.83	226.00	230.37	225.99	225.59	224.01	223.25	223.16	223.19	
21	223.14	225.44	224.79	223.87	225.93	230.84	225.91	225.49	224.00	223.24	223.16	223.23	
22	223.14	225.74	224.72	223.93	225.83	230.54	225.84	225.41	223.98	223.23	223.15	223.21	
23	223.13	225.49	224.62	223.83	225.70	229.43	225.91	225.30	223.96	223.22	223.14	223.20	
24	223.12	225.23	224.53	223.78	225.34	228.37	226.11	225.21	223.94	223.22	223.13	223.19	
25	223.11	225.16	224.51	223.74	225.18	227.67	226.19	225.17	223.92	223.22	223.13	223.18	
26	223.11	225.28	224.55	223.69	225.19	227.27	226.00	225.11	223.90	223.22	223.12	223.17	
27	223.10	225.07	224.47	223.67	225.47	227.12	226.05	225.05	223.89	223.21	223.12	223.19	
28	223.15	224.85	224.37	223.64	225.21	227.34	225.97	224.98	223.88	223.21	223.12	223.24	
29	223.21	224.99	224.29	223.66	225.34	227.30	225.85	224.92	223.87	223.21		223.28	
30	223.61	225.06	224.22	223.69	225.26	227.25	225.84	224.88	223.86	223.21		223.31	
31		224.93		223.69	225.21		226.18		223.85	223.21		223.31	
Mean	223.21	224.60	224.64	223.89	225.02	227.84	226.95	226.80	224.21	223.28	223.17	223.20	
Max	223.61	225.74	225.17	224.19	226.00	230.89	228.79	230.76	224.79	223.40	223.20	223.31	230.89
Min	223.10	223.41	224.22	223.64	224.02	225.04	225.84	224.88	223.85	223.21	223.12	223.14	223.10

Annual Max Momentary Gage Height 231.03 m. (MSL.) , at 06.00 Hours, on Sep 13, 2008

Zero Gage at Bottom Elevation 222.75 m. (MSL.) , River Bed 222.72 m. (MSL.)

Left Bank Elevation 235.95 m. (MSL.) ,

Right Bank Elevation 235.91 m. (MSL.) , Drainage Are 744 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.34	2.32	6.96	3.90	3.12	10.92	29.60	40.64	7.74	0.80	0.40	0.50		
2	0.98	4.32	6.12	3.48	5.22	13.71	29.96	77.16	7.38	0.80	0.40	0.48		
3	0.88	4.50	8.58	3.18	9.48	10.68	33.92	74.60	7.26	0.78	0.40	0.46		
4	0.80	4.50	9.12	2.96	9.00	9.24	42.08	69.64	6.84	0.76	0.40	0.42		
5	0.66	3.06	9.60	3.06	7.56	9.90	48.06	61.08	6.48	0.74	0.40	0.40		
6	0.56	2.40	10.02	3.18	6.36	9.96	45.26	47.08	6.24	0.72	0.40	0.38		
7	0.44	1.92	8.82	2.88	5.88	10.86	41.96	42.56	5.94	0.70	0.40	0.36		
8	0.40	1.52	7.02	2.68	5.52	13.44	40.76	40.04	5.76	0.68	0.38	0.34		
9	0.38	1.12	6.18	2.60	5.10	25.40	39.92	37.04	5.58	0.66	0.38	0.32		
10	0.38	0.82	5.58	3.96	4.86	30.20	39.44	32.48	5.34	0.64	0.38	0.32		
11	0.36	1.36	5.40	4.14	4.56	26.36	39.32	27.44	5.04	0.62	0.38	0.32		
12	0.34	4.56	5.22	3.54	4.38	59.12	38.72	23.60	4.74	0.60	0.38	0.30		
13	0.32	3.42	5.46	3.06	15.06	79.24	33.08	21.60	4.56	0.58	0.38	0.30		
14	0.30	10.80	4.98	2.72	15.15	69.64	26.36	20.28	4.32	0.58	0.38	0.32		
15	0.30	10.92	4.68	2.48	10.14	58.28	23.30	18.57	4.14	0.56	0.36	0.36		
16	0.30	8.28	5.64	2.32	8.88	54.50	21.40	16.95	3.90	0.54	0.36	0.32		
17	0.28	7.32	9.30	2.24	8.16	49.18	19.74	15.96	3.78	0.54	0.36	0.28		
18	0.28	6.84	8.88	2.08	6.96	58.84	18.66	14.88	3.60	0.52	0.34	0.32		
19	0.28	7.68	8.52	2.08	7.86	62.34	17.22	13.71	3.30	0.50	0.34	0.32		
20	0.28	9.06	8.10	2.32	16.50	70.92	16.41	12.81	3.06	0.50	0.32	0.38		
21	0.28	11.64	7.74	2.48	15.87	78.44	15.69	11.94	3.00	0.48	0.32	0.46		
22	0.28	14.16	7.32	2.72	14.97	73.64	15.06	11.46	2.92	0.46	0.30	0.42		
23	0.26	11.94	6.72	2.32	13.80	57.02	15.69	10.80	2.84	0.44	0.28	0.40		
24	0.24	10.38	6.18	2.12	11.04	42.44	17.49	10.26	2.76	0.44	0.26	0.38		
25	0.22	9.96	6.06	1.96	10.08	34.04	18.21	10.02	2.68	0.44	0.26	0.36		
26	0.22	10.68	6.30	1.76	10.14	29.24	16.50	9.66	2.60	0.44	0.24	0.34		
27	0.20	9.42	5.82	1.68	11.82	27.44	16.95	9.30	2.56	0.42	0.24	0.38		
28	0.30	8.10	5.22	1.56	10.26	30.08	16.23	8.88	2.52	0.42	0.24	0.48		
29	0.42	8.94	4.74	1.64	11.04	29.60	15.15	8.52	2.48	0.42		0.56		
30	1.44	9.36	4.32	1.76	10.56	29.00	15.06	8.28	2.44	0.42		0.62		
31		8.58		1.76	10.26		18.12		2.40	0.42		0.62		
Total	12.72	209.88	204.60	80.62	289.59	1163.67	825.32	807.24	134.20	17.62	9.68	12.22	3767.36	CMSDAY
Mean	0.42	6.77	6.82	2.60	9.34	38.79	26.62	26.91	4.33	0.57	0.35	0.39	10.32	CMS
Max	1.44	14.16	10.02	4.14	16.50	79.24	48.06	77.16	7.74	0.80	0.40	0.62	79.24	CMS
Min	0.20	0.82	4.32	1.56	3.12	9.24	15.06	8.28	2.40	0.42	0.24	0.28	0.20	CMS
Runoff	1.10	18.13	17.68	6.97	25.02	100.54	71.31	69.75	11.59	1.52	0.84	1.06	325.50	MCM

Momentary Peak 81.30 CMS, at 231.03 m. (MSL.), at 06.00 Hours, on Sep 13, 2008

Runoff Yield 13.87 Liters/Second/Square KM. Momentary Peak Yield 109.27 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	508 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+237.650 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream at the footpath of the bridge.	**Elevation** +246.755 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 mean of 3 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
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 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

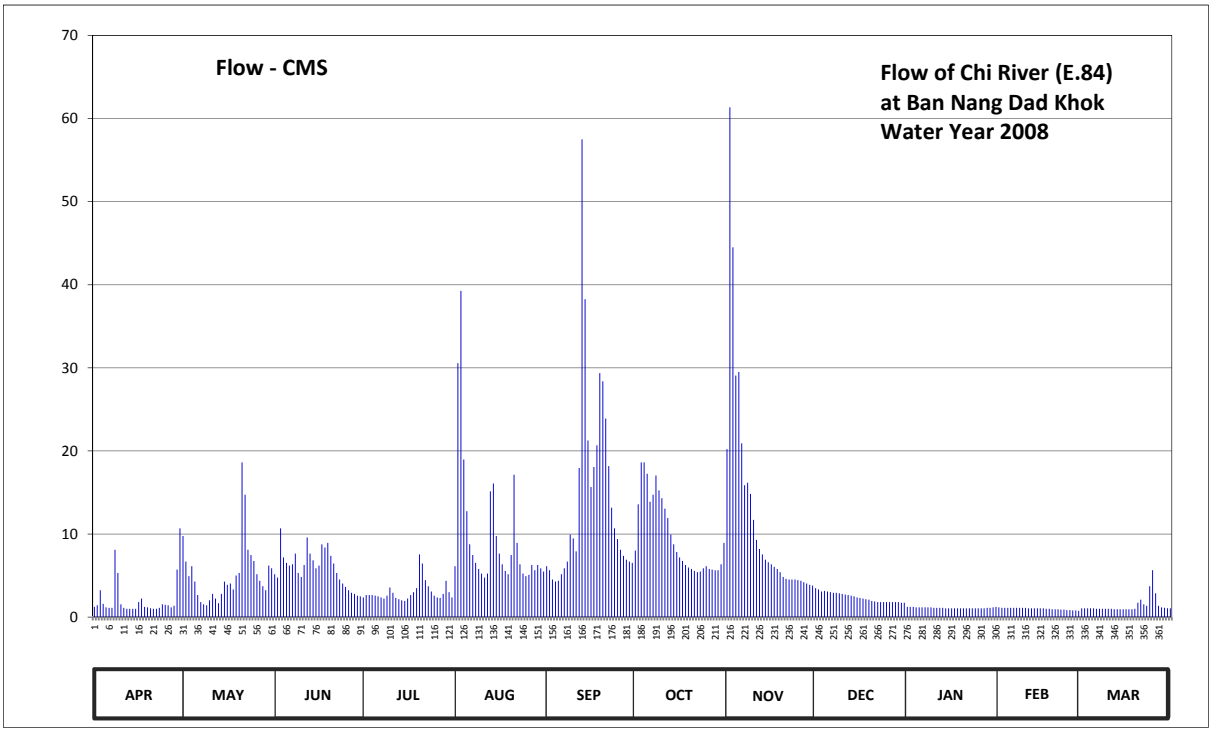
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.24	240.30	239.77	239.41	239.89	239.89	240.11	241.30	239.56	239.24	239.23	239.21	
2	239.27	239.96	239.72	239.45	242.07	239.83	240.69	243.07	239.54	239.24	239.22	239.21	
3	239.53	239.74	240.40	239.45	242.51	239.69	241.16	242.70	239.51	239.24	239.22	239.21	
4	239.30	239.89	240.02	239.45	241.19	239.66	241.16	241.97	239.52	239.23	239.22	239.21	
5	239.23	239.66	239.94	239.44	240.61	239.67	241.04	242.00	239.51	239.23	239.22	239.21	
6	239.22	239.45	239.90	239.43	240.19	239.77	240.72	241.36	239.50	239.23	239.22	239.20	
7	239.22	239.33	239.92	239.41	240.05	239.86	240.80	240.91	239.49	239.23	239.22	239.20	
8	240.12	239.29	240.07	239.39	239.94	239.96	241.02	240.94	239.49	239.23	239.22	239.20	
9	239.79	239.27	239.79	239.44	239.85	240.32	240.85	240.81	239.48	239.23	239.22	239.20	
10	239.29	239.36	239.73	239.57	239.78	240.27	240.76	240.51	239.47	239.22	239.22	239.20	
11	239.22	239.47	239.91	239.49	239.72	240.10	240.64	240.25	239.46	239.22	239.21	239.20	
12	239.20	239.39	240.28	239.40	239.78	241.10	240.53	240.13	239.45	239.22	239.21	239.19	
13	239.20	239.31	240.07	239.38	240.84	243.00	240.32	240.06	239.44	239.22	239.21	239.19	
14	239.20	239.47	239.98	239.36	240.93	242.47	240.19	239.99	239.43	239.21	239.21	239.19	
15	239.20	239.66	239.86	239.35	240.30	241.39	240.09	239.95	239.41	239.21	239.21	239.19	
16	239.33	239.61	239.90	239.39	240.07	240.89	240.02	239.92	239.40	239.21	239.21	239.19	
17	239.39	239.63	240.19	239.45	239.92	241.11	239.97	239.88	239.39	239.21	239.20	239.19	
18	239.24	239.54	240.15	239.50	239.82	241.34	239.91	239.85	239.38	239.21	239.20	239.19	
19	239.23	239.75	240.21	239.56	239.77	241.99	239.87	239.80	239.37	239.21	239.19	239.20	
20	239.21	239.79	240.04	240.06	240.05	241.92	239.85	239.73	239.35	239.21	239.19	239.32	
21	239.20	241.16	239.93	239.93	241.03	241.60	239.82	239.70	239.34	239.21	239.19	239.37	
22	239.20	240.80	239.79	239.68	240.21	241.12	239.80	239.69	239.33	239.21	239.18	239.29	
23	239.22	240.12	239.69	239.59	239.92	240.65	239.81	239.69	239.33	239.21	239.18	239.26	
24	239.29	240.05	239.63	239.51	239.78	240.40	239.86	239.69	239.33	239.21	239.17	239.59	
25	239.28	239.97	239.58	239.44	239.74	240.26	239.89	239.68	239.33	239.21	239.17	239.83	
26	239.27	239.77	239.53	239.41	239.76	240.12	239.85	239.67	239.33	239.21	239.16	239.48	
27	239.23	239.67	239.49	239.40	239.91	240.04	239.84	239.65	239.33	239.21	239.16	239.26	
28	239.26	239.59	239.47	239.47	239.83	239.99	239.83	239.63	239.33	239.22	239.15	239.23	
29	239.84	239.53	239.44	239.67	239.91	239.96	239.83	239.61	239.33	239.22		239.22	
30	240.40	239.90	239.43	239.50	239.86	239.94	239.92	239.60	239.32	239.23		239.21	
31		239.86		239.41	239.81		240.21		239.32	239.24		239.21	
Mean	239.36	239.75	239.86	239.50	240.23	240.61	240.27	240.39	239.41	239.22	239.20	239.26	
Max	240.40	241.16	240.40	240.06	242.51	243.00	241.16	243.07	239.56	239.24	239.23	239.83	243.07
Min	239.20	239.27	239.43	239.35	239.72	239.66	239.80	239.60	239.32	239.21	239.15	239.19	239.15

Annual Max Momentary Gage Height 243.23 m. (MSL.) , at 06.00 Hours, on Sep 13, 2008

Zero Gage at Bottom Elevation 237.65 m. (MSL.) , River Bed 238.35 m. (MSL.)

Left Bank Elevation 246.45 m. (MSL.) ,

Right Bank Elevation 246.45 m. (MSL.) , Drainage Are 508 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.24	9.76	5.16	2.37	6.12	6.12	8.01	20.22	3.48	1.24	1.18	1.06		
2	1.42	6.68	4.76	2.65	30.55	5.64	13.58	61.35	3.32	1.24	1.12	1.06		
3	3.24	4.92	10.68	2.65	39.25	4.52	18.62	44.50	3.08	1.24	1.12	1.06		
4	1.60	6.12	7.18	2.65	18.97	4.28	18.62	29.08	3.16	1.18	1.12	1.06		
5	1.18	4.28	6.52	2.58	12.74	4.36	17.26	29.50	3.08	1.18	1.12	1.06		
6	1.12	2.65	6.20	2.51	8.75	5.16	13.89	20.90	3.00	1.18	1.12	1.00		
7	1.12	1.81	6.36	2.37	7.46	5.88	14.72	15.86	2.93	1.18	1.12	1.00		
8	8.10	1.54	7.64	2.23	6.52	6.68	17.03	16.18	2.93	1.18	1.12	1.00		
9	5.32	1.42	5.32	2.58	5.80	9.94	15.24	14.82	2.86	1.18	1.12	1.00		
10	1.54	2.02	4.84	3.56	5.24	9.48	14.30	11.70	2.79	1.12	1.12	1.00		
11	1.12	2.79	6.28	2.93	4.76	7.92	13.06	9.30	2.72	1.12	1.06	1.00		
12	1.00	2.23	9.58	2.30	5.24	17.94	11.91	8.20	2.65	1.12	1.06	0.95		
13	1.00	1.67	7.64	2.16	15.14	57.50	9.94	7.55	2.58	1.12	1.06	0.95		
14	1.00	2.79	6.84	2.02	16.07	38.25	8.75	6.92	2.51	1.06	1.06	0.95		
15	1.00	4.28	5.88	1.95	9.76	21.25	7.83	6.60	2.37	1.06	1.06	0.95		
16	1.81	3.88	6.20	2.23	7.64	15.66	7.18	6.36	2.30	1.06	1.06	0.95		
17	2.23	4.04	8.75	2.65	6.36	18.05	6.76	6.04	2.23	1.06	1.00	0.95		
18	1.24	3.32	8.38	3.00	5.56	20.68	6.28	5.80	2.16	1.06	1.00	0.95		
19	1.18	5.00	8.93	3.48	5.16	29.36	5.96	5.40	2.09	1.06	0.95	1.00		
20	1.06	5.32	7.37	7.55	7.46	28.38	5.80	4.84	1.95	1.06	0.95	1.74		
21	1.00	18.62	6.44	6.44	17.14	23.90	5.56	4.60	1.88	1.06	0.95	2.09		
22	1.00	14.72	5.32	4.44	8.93	18.17	5.40	4.52	1.81	1.06	0.90	1.54		
23	1.12	8.10	4.52	3.72	6.36	13.16	5.48	4.52	1.81	1.06	0.90	1.36		
24	1.54	7.46	4.04	3.08	5.24	10.68	5.88	4.52	1.81	1.06	0.85	3.72		
25	1.48	6.76	3.64	2.58	4.92	9.39	6.12	4.44	1.81	1.06	0.85	5.64		
26	1.42	5.16	3.24	2.37	5.08	8.10	5.80	4.36	1.81	1.06	0.80	2.86		
27	1.18	4.36	2.93	2.30	6.28	7.37	5.72	4.20	1.81	1.06	0.80	1.36		
28	1.36	3.72	2.79	2.79	5.64	6.92	5.64	4.04	1.81	1.12	0.75	1.18		
29	5.72	3.24	2.58	4.36	6.28	6.68	5.64	3.88	1.81	1.12		1.12		
30	10.68	6.20	2.51	3.00	5.88	6.52	6.36	3.80	1.74	1.18		1.06		
31		5.88		2.37	5.48		8.93		1.74	1.24		1.06		
Total	65.02	160.74	178.52	93.87	301.78	427.94	301.27	374.00	74.03	34.78	28.32	43.68	2083.95	CMSDAY
Mean	2.17	5.19	5.95	3.03	9.73	14.26	9.72	12.47	2.39	1.12	1.01	1.41	5.71	CMS
Max	10.68	18.62	10.68	7.55	39.25	57.50	18.62	61.35	3.48	1.24	1.18	5.64	61.35	CMS
Min	1.00	1.42	2.51	1.95	4.76	4.28	5.40	3.80	1.74	1.06	0.75	0.95	0.75	CMS
Runoff	5.62	13.89	15.42	8.11	26.07	36.97	26.03	32.31	6.40	3.00	2.45	3.77	180.05	MCM

Momentary Peak 73.40 CMS, at 243.23 m. (MSL.), at 06.00 Hours, on Sep 13, 2008

Runoff Yield 11.24 Liters/Second/Square KM. Momentary Peak Yield 144.49 Liters/Second/Square KM.

WATER YEAR : 2008

CHI RIVER BASIN

Lam Nam Choen at Ban Non Han , Khon Kaen (E.85)

Lat 16 - 35 - 28 N Long 101 - 59 - 02 E

Location : on left bank at Ban Non Han.

	Ban Non Han	**Amphoe** Chum Pae	**Changwat** Khon Kaen
Drainge Area	1,218 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+224.840 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On left bank downstream at the footpath of the bridge.		**Elevation** +235.165 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 mean of 3 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
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 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

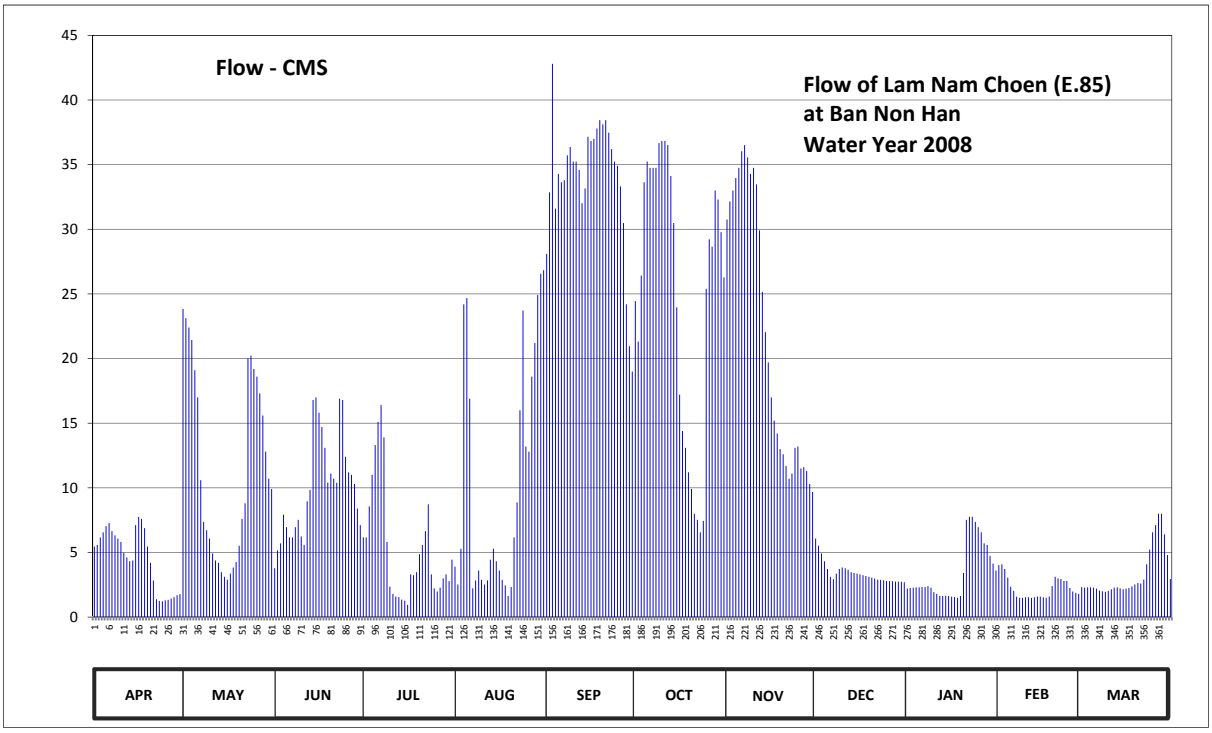
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	227.41	229.32	227.13	227.52	227.15	229.65	229.37	229.84	227.51	226.68	227.17	226.73	
2	227.43	229.26	227.36	227.52	226.81	229.99	229.11	229.94	227.42	226.70	227.18	226.71	
3	227.52	229.20	227.45	227.82	227.38	230.60	229.53	230.00	227.32	226.71	227.12	226.72	
4	227.57	229.12	227.74	228.10	229.35	229.90	230.04	230.06	227.22	226.72	227.01	226.72	
5	227.63	228.91	227.62	228.33	229.39	230.08	230.14	230.11	227.12	226.72	226.74	226.71	
6	227.66	228.70	227.52	228.51	228.69	230.04	230.11	230.19	227.02	226.73	226.61	226.68	
7	227.58	228.06	227.52	228.64	226.69	230.05	230.11	230.22	226.97	226.73	226.43	226.62	
8	227.54	227.67	227.62	228.39	226.93	230.17	230.11	230.16	227.06	226.76	226.40	226.60	
9	227.51	227.59	227.69	227.47	227.10	230.21	230.23	230.08	227.12	226.71	226.39	226.58	
10	227.47	227.51	227.53	226.74	226.95	230.14	230.24	230.11	227.14	226.57	226.41	226.61	
11	227.33	227.32	227.43	226.52	226.81	230.14	230.24	230.03	227.13	226.52	226.41	226.66	
12	227.27	227.23	227.87	226.44	226.93	230.10	230.22	229.78	227.11	226.46	226.39	226.71	
13	227.22	227.20	227.98	226.42	227.24	229.93	230.07	229.43	227.08	226.45	226.41	226.72	
14	227.23	227.08	228.68	226.34	227.38	230.01	229.82	229.17	227.07	226.46	226.43	226.69	
15	227.64	227.02	228.70	226.31	227.22	230.26	229.33	228.97	227.06	226.45	226.43	226.66	
16	227.72	226.96	228.58	226.18	227.10	230.24	228.72	228.70	227.05	226.43	226.41	226.68	
17	227.70	227.06	228.47	227.05	226.95	230.25	228.44	228.52	227.04	226.42	226.40	226.70	
18	227.61	227.14	228.31	227.04	226.78	230.30	228.31	228.42	227.03	226.40	226.44	226.75	
19	227.41	227.21	228.04	227.08	226.45	230.34	228.12	228.30	227.02	226.45	226.76	226.81	
20	227.20	227.42	228.11	227.31	226.73	230.32	227.99	228.26	227.01	227.07	227.02	226.85	
21	226.93	227.70	228.07	227.43	227.52	230.34	227.75	228.17	226.99	227.69	227.00	226.84	
22	226.35	227.85	228.04	227.58	227.86	230.28	227.69	228.07	226.96	227.72	226.98	226.96	
23	226.30	229.00	228.69	227.84	228.60	230.20	227.57	228.11	226.95	227.72	226.92	227.18	
24	226.29	229.02	228.68	227.05	229.31	230.14	227.68	228.31	226.94	227.67	226.92	227.37	
25	226.32	228.92	228.24	226.69	228.32	230.12	229.45	228.32	226.92	227.62	226.70	227.57	
26	226.33	228.86	228.12	226.59	228.28	230.02	229.73	228.15	226.91	227.57	226.59	227.64	
27	226.37	228.73	228.10	226.71	228.86	229.82	229.69	228.16	226.91	227.45	226.55	227.75	
28	226.42	228.56	228.03	227.00	229.10	229.35	230.00	228.13	226.90	227.43	226.52	227.75	
29	226.48	228.28	227.80	227.05	229.41	229.08	229.95	228.03	226.90	227.29		227.55	
30	226.51	228.07	227.64	226.91	229.54	228.90	229.77	227.96	226.89	227.19		227.30	
31		227.99		227.24	229.56		229.52		226.88	227.10		226.98	
Mean	227.13	228.06	227.96	227.22	227.82	230.03	229.32	229.06	227.05	226.92	226.67	226.93	
Max	227.72	229.32	228.70	228.64	229.56	230.60	230.24	230.22	227.51	227.72	227.18	227.75	230.60
Min	226.29	226.96	227.13	226.18	226.45	228.90	227.57	227.96	226.88	226.40	226.39	226.58	226.18

Annual Max Momentary Gage Height 230.77 m. (MSL.) , at 07.00 Hours, on Sep 3, 2008

Zero Gage at Bottom Elevation 224.84 m. (MSL.) , River Bed 225.36 m. (MSL.)

Left Bank Elevation 235.00 m. (MSL.) ,

Right Bank Elevation 234.79 m. (MSL.) , Drainage Are 1,218 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.46	23.84	3.78	6.16	3.90	28.10	24.44	30.76	6.08	2.20	4.02	2.33		
2	5.58	23.12	5.16	6.16	2.53	32.86	21.32	32.16	5.52	2.25	4.08	2.28		
3	6.16	22.40	5.70	8.56	5.28	42.80	26.42	33.00	4.92	2.28	3.72	2.30		
4	6.56	21.44	7.92	11.00	24.20	31.60	33.64	33.96	4.32	2.30	3.06	2.30		
5	7.04	19.10	6.96	13.30	24.68	34.28	35.24	34.76	3.72	2.30	2.35	2.28		
6	7.28	17.00	6.16	15.10	16.90	33.64	34.76	36.04	3.12	2.33	2.03	2.20		
7	6.64	10.60	6.16	16.40	2.23	33.80	34.76	36.52	2.93	2.33	1.58	2.05		
8	6.32	7.36	6.96	13.90	2.83	35.72	34.76	35.56	3.36	2.40	1.50	2.00		
9	6.08	6.72	7.52	5.82	3.60	36.36	36.68	34.28	3.72	2.28	1.48	1.95		
10	5.82	6.08	6.24	2.35	2.88	35.24	36.84	34.76	3.84	1.93	1.53	2.03		
11	4.98	4.92	5.58	1.80	2.53	35.24	36.84	33.48	3.78	1.80	1.53	2.15		
12	4.62	4.38	8.96	1.60	2.83	34.60	36.52	29.92	3.66	1.65	1.48	2.28		
13	4.32	4.20	9.84	1.55	4.44	32.02	34.12	25.16	3.48	1.63	1.53	2.30		
14	4.38	3.48	16.80	1.35	5.28	33.16	30.48	22.04	3.42	1.65	1.58	2.23		
15	7.12	3.12	17.00	1.28	4.32	37.16	23.96	19.70	3.36	1.63	1.58	2.15		
16	7.76	2.90	15.80	0.95	3.60	36.84	17.20	17.00	3.30	1.58	1.53	2.20		
17	7.60	3.36	14.70	3.30	2.88	37.00	14.40	15.20	3.24	1.55	1.50	2.25		
18	6.88	3.84	13.10	3.24	2.45	37.80	13.10	14.20	3.18	1.50	1.60	2.38		
19	5.46	4.26	10.40	3.48	1.63	38.44	11.20	13.00	3.12	1.63	2.40	2.53		
20	4.20	5.52	11.10	4.86	2.33	38.12	9.92	12.60	3.06	3.42	3.12	2.63		
21	2.83	7.60	10.70	5.58	6.16	38.44	8.00	11.70	2.98	7.52	3.00	2.60		
22	1.38	8.80	10.40	6.64	8.88	37.48	7.52	10.70	2.90	7.76	2.95	2.90		
23	1.25	20.00	16.90	8.72	16.00	36.20	6.56	11.10	2.88	7.76	2.80	4.08		
24	1.23	20.24	16.80	3.30	23.72	35.24	7.44	13.10	2.85	7.36	2.80	5.22		
25	1.30	19.20	12.40	2.23	13.20	34.92	25.40	13.20	2.80	6.96	2.25	6.56		
26	1.33	18.60	11.20	1.98	12.80	33.32	29.22	11.50	2.78	6.56	1.98	7.12		
27	1.43	17.30	11.00	2.28	18.60	30.48	28.66	11.60	2.78	5.70	1.88	8.00		
28	1.55	15.60	10.30	3.00	21.20	24.20	33.00	11.30	2.75	5.58	1.80	8.00		
29	1.70	12.80	8.40	3.30	24.92	20.96	32.30	10.30	2.75	4.74		6.40		
30	1.78	10.70	7.12	2.78	26.56	19.00	29.78	9.68	2.73	4.14		4.80		
31		9.92		4.44	26.84		26.28		2.70	3.60		2.95		
Total	136.04	358.40	301.06	166.41	320.20	1015.02	780.76	658.28	106.03	108.32	62.66	103.45	4116.63	CMSDAY
Mean	4.53	11.56	10.04	5.37	10.33	33.83	25.19	21.94	3.42	3.49	2.24	3.34	11.28	CMS
Max	7.76	23.84	17.00	16.40	26.84	42.80	36.84	36.52	6.08	7.76	4.08	8.00	42.80	CMS
Min	1.23	2.90	3.78	0.95	1.63	19.00	6.56	9.68	2.70	1.50	1.48	1.95	0.95	CMS
Runoff	11.75	30.97	26.01	14.38	27.67	87.70	67.46	56.88	9.16	9.36	5.41	8.94	355.68	MCM

Momentary Peak 45.86 CMS, at 230.77 m. (MSL.), at 07.00 Hours, on Sep 3, 2008

Runoff Yield 9.26 Liters/Second/Square KM. Momentary Peak Yield 37.65 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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** +213.340 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 Float	-		
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 25 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

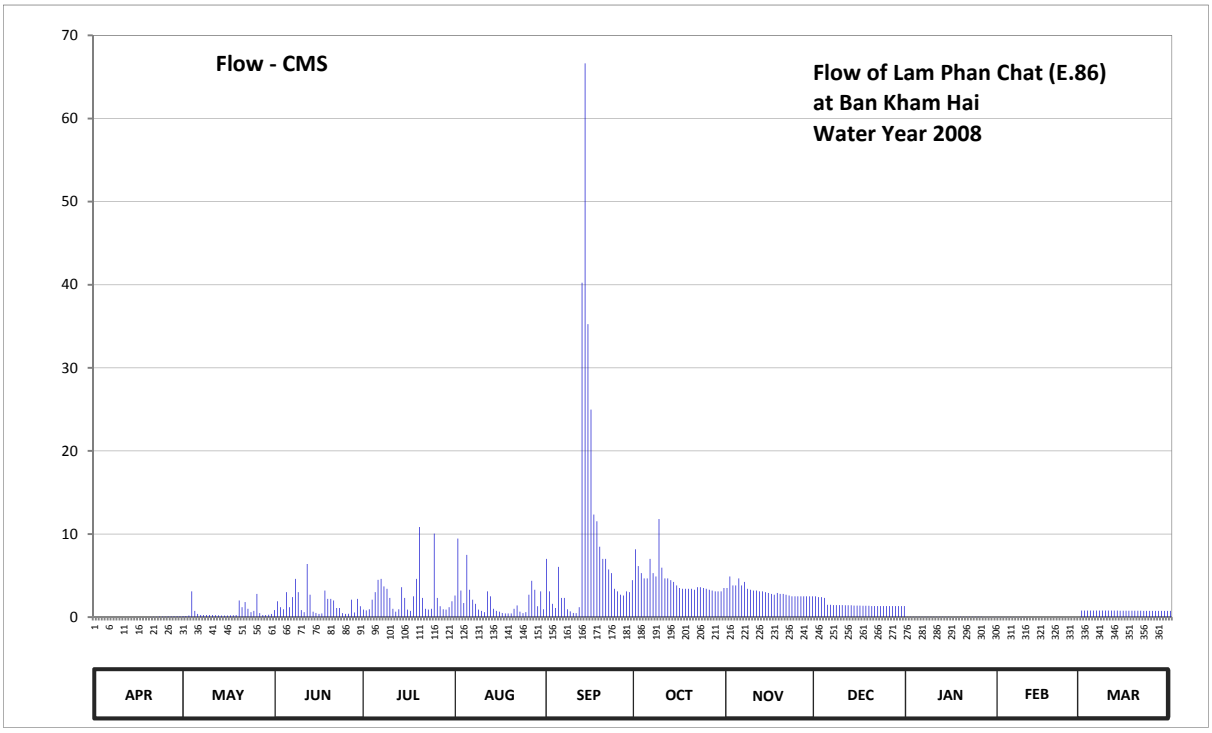
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	204.20	204.62	205.07	205.08	205.26	205.65	206.61	206.39	206.29	204.49	204.45	205.78	
2	204.20	204.67	205.19	205.06	205.83	205.31	206.52	206.46	206.28	204.50	204.44	205.78	
3	204.20	204.79	205.12	205.09	205.32	205.16	206.48	206.41	206.28	204.50	204.43	205.78	
4	204.20	205.31	205.09	205.21	205.17	205.11	206.45	206.41	206.27	204.50	204.43	205.78	
5	204.20	205.05	205.30	205.30	205.69	205.57	206.45	206.45	206.16	204.49	204.43	205.78	
6	204.20	204.95	205.12	205.44	205.33	205.23	206.56	206.41	206.16	204.49	204.42	205.78	
7	204.20	204.90	205.24	205.45	205.21	205.23	206.48	206.43	206.15	204.50	204.42	205.78	
8	204.20	204.88	205.45	205.37	205.16	205.09	206.46	206.38	206.15	204.50	204.42	205.78	
9	204.20	204.87	205.30	205.34	205.08	205.04	206.73	206.37	206.15	204.51	204.42	205.78	
10	204.20	204.87	205.07	205.23	205.05	205.00	206.51	206.36	206.15	204.50	204.42	205.78	
11	204.20	204.87	205.02	205.10	205.02	204.99	206.45	206.36	206.14	204.49	204.41	205.78	
12	204.26	204.85	205.60	205.03	205.31	205.12	206.45	206.35	206.14	204.49	204.41	205.78	
13	204.30	204.83	205.27	205.09	205.25	207.37	206.44	206.35	206.14	204.49	204.41	205.78	
14	204.32	204.80	205.03	205.36	205.10	208.38	206.43	206.34	206.13	204.48	204.41	205.77	
15	204.34	204.80	205.00	205.23	205.05	207.17	206.41	206.33	206.13	204.48	204.41	205.77	
16	204.35	204.80	204.95	205.08	205.03	206.71	206.39	206.32	206.13	204.47	204.40	205.77	
17	204.37	204.83	204.98	205.05	205.00	206.75	206.38	206.31	206.12	204.47	204.40	205.77	
18	204.38	204.85	205.32	205.25	204.98	206.72	206.38	206.33	206.12	204.47	204.40	205.76	
19	204.40	204.90	205.22	205.45	204.98	206.62	206.38	206.32	206.12	204.48	204.40	205.76	
20	204.42	205.20	205.22	205.92	204.98	206.56	206.38	206.32	206.11	204.48	204.40	205.76	
21	204.45	205.12	205.20	205.23	205.10	206.56	206.37	206.31	206.11	204.49	204.39	205.76	
22	204.47	205.18	205.11	205.10	205.14	206.50	206.40	206.30	206.11	204.49	204.39	205.75	
23	204.49	205.10	205.11	205.08	205.03	206.48	206.40	206.29	206.11	204.49	204.37	205.74	
24	204.50	205.02	204.99	205.10	204.99	206.38	206.39	206.29	206.11	204.48	204.36	205.74	
25	204.52	205.05	204.95	205.87	205.02	206.35	206.38	206.29	206.11	204.48	204.34	205.74	
26	204.53	205.28	204.96	205.23	205.27	206.31	206.37	206.29	206.11	204.48	204.32	205.74	
27	204.55	204.99	205.21	205.13	205.43	206.30	206.36	206.29	206.11	204.47	204.32	205.74	
28	204.57	204.90	205.01	205.09	205.33	206.35	206.35	206.29	206.11	204.47	204.31	205.74	
29	204.58	204.88	205.22	205.08	205.13	206.34	206.35	206.29	206.11	204.47		205.74	
30	204.58	204.91	205.13	205.12	205.31	206.44	206.35	206.29	206.11	204.46		205.74	
31		204.95		205.19	205.09		206.39		206.11	204.46		205.74	
Mean	204.35	204.94	205.15	205.24	205.18	206.09	206.43	206.34	206.15	204.48	204.40	205.76	
Max	204.58	205.31	205.60	205.92	205.83	208.38	206.73	206.46	206.29	204.51	204.45	205.78	208.38
Min	204.20	204.62	204.95	205.03	204.98	204.99	206.35	206.29	206.11	204.46	204.31	205.74	204.20

Annual Max Momentary Gage Height 208.67 m. (MSL.) , at 15.00 Hours, on Sep 14, 2008

Zero Gage at Bottom Elevation 204.20 m. (MSL.) , River Bed 204.38 m. (MSL)

Left Bank Elevation 213.33 m. (MSL.) ,

Right Bank Elevation 213.10 m. (MSL.) , Drainage Are 93 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.11	0.85	0.90	2.60	7.00	8.17	3.50	2.50	0.03	0.02	0.78		
2	0.00	0.14	1.90	0.80	9.45	3.10	6.15	4.88	2.40	0.03	0.01	0.78		
3	0.00	0.20	1.20	0.95	3.20	1.60	5.30	3.81	2.40	0.03	0.01	0.78		
4	0.00	3.10	0.95	2.10	1.70	1.10	4.66	3.81	2.30	0.03	0.01	0.78		
5	0.00	0.75	3.00	3.00	7.48	6.04	4.66	4.66	1.48	0.03	0.01	0.78		
6	0.00	0.38	1.20	4.48	3.30	2.30	7.00	3.81	1.48	0.03	0.01	0.78		
7	0.00	0.25	2.40	4.60	2.10	2.30	5.30	4.24	1.45	0.03	0.01	0.78		
8	0.00	0.24	4.60	3.70	1.60	0.95	4.88	3.40	1.45	0.03	0.01	0.78		
9	0.00	0.24	3.00	3.40	0.90	0.70	11.81	3.30	1.45	0.04	0.01	0.78		
10	0.00	0.24	0.85	2.30	0.75	0.50	5.94	3.20	1.45	0.03	0.01	0.78		
11	0.00	0.24	0.60	1.00	0.60	0.48	4.66	3.20	1.42	0.03	0.00	0.78		
12	0.00	0.23	6.40	0.65	3.10	1.20	4.66	3.10	1.42	0.03	0.00	0.78		
13	0.00	0.22	2.70	0.95	2.50	40.25	4.45	3.10	1.42	0.03	0.00	0.78		
14	0.00	0.20	0.65	3.60	1.00	66.64	4.24	3.00	1.39	0.03	0.00	0.77		
15	0.00	0.20	0.50	2.30	0.75	35.25	3.81	2.90	1.39	0.03	0.00	0.77		
16	0.00	0.20	0.38	0.90	0.65	24.98	3.50	2.80	1.39	0.02	0.00	0.77		
17	0.00	0.22	0.45	0.75	0.50	12.35	3.40	2.70	1.36	0.02	0.00	0.77		
18	0.00	0.23	3.20	2.50	0.45	11.54	3.40	2.90	1.36	0.02	0.00	0.76		
19	0.00	0.25	2.20	4.60	0.45	8.48	3.40	2.80	1.36	0.03	0.00	0.76		
20	0.01	2.00	2.20	10.84	0.45	7.00	3.40	2.80	1.33	0.03	0.00	0.76		
21	0.03	1.20	2.00	2.30	1.00	7.00	3.30	2.70	1.33	0.03	0.00	0.76		
22	0.04	1.80	1.10	1.00	1.40	5.73	3.60	2.60	1.33	0.03	0.00	0.75		
23	0.05	1.00	1.10	0.90	0.65	5.30	3.60	2.50	1.33	0.03	0.00	0.74		
24	0.05	0.60	0.48	1.00	0.48	3.40	3.50	2.50	1.33	0.03	0.00	0.74		
25	0.06	0.75	0.38	10.05	0.60	3.10	3.40	2.50	1.33	0.03	0.00	0.74		
26	0.07	2.80	0.40	2.30	2.70	2.70	3.30	2.50	1.33	0.03	0.00	0.74		
27	0.08	0.48	2.10	1.30	4.36	2.60	3.20	2.50	1.33	0.02	0.00	0.74		
28	0.09	0.25	0.55	0.95	3.30	3.10	3.10	2.50	1.33	0.02	0.00	0.74		
29	0.09	0.24	2.20	0.90	1.30	3.00	3.10	2.50	1.33	0.02		0.74		
30	0.09	0.28	1.30	1.20	3.10	4.45	3.10	2.50	1.33	0.02		0.74		
31		0.38		1.90	0.95		3.50		1.33	0.02		0.74		
Total	0.66	19.42	50.84	78.12	63.37	274.14	139.49	93.21	46.83	0.86	0.11	23.67	790.72	CMSDAY
Mean	0.02	0.63	1.69	2.52	2.04	9.14	4.50	3.11	1.51	0.03	0.00	0.76	2.17	CMS
Max	0.09	3.10	6.40	10.84	9.45	66.64	11.81	4.88	2.50	0.04	0.02	0.78	66.64	CMS
Min	0.00	0.11	0.38	0.65	0.45	0.48	3.10	2.50	1.33	0.02	0.00	0.74	0.00	CMS
Runoff	0.06	1.68	4.39	6.75	5.48	23.69	12.05	8.05	4.05	0.07	0.01	2.05	68.32	MCM

Momentary Peak 75.51 CMS, at 208.67 m. (MSL), at 15.00 Hours, on Sep 14, 2008

Runoff Yield 23.29 Liters/Second/Square KM. Momentary Peak Yield 811.94 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 Float	-		
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 25 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

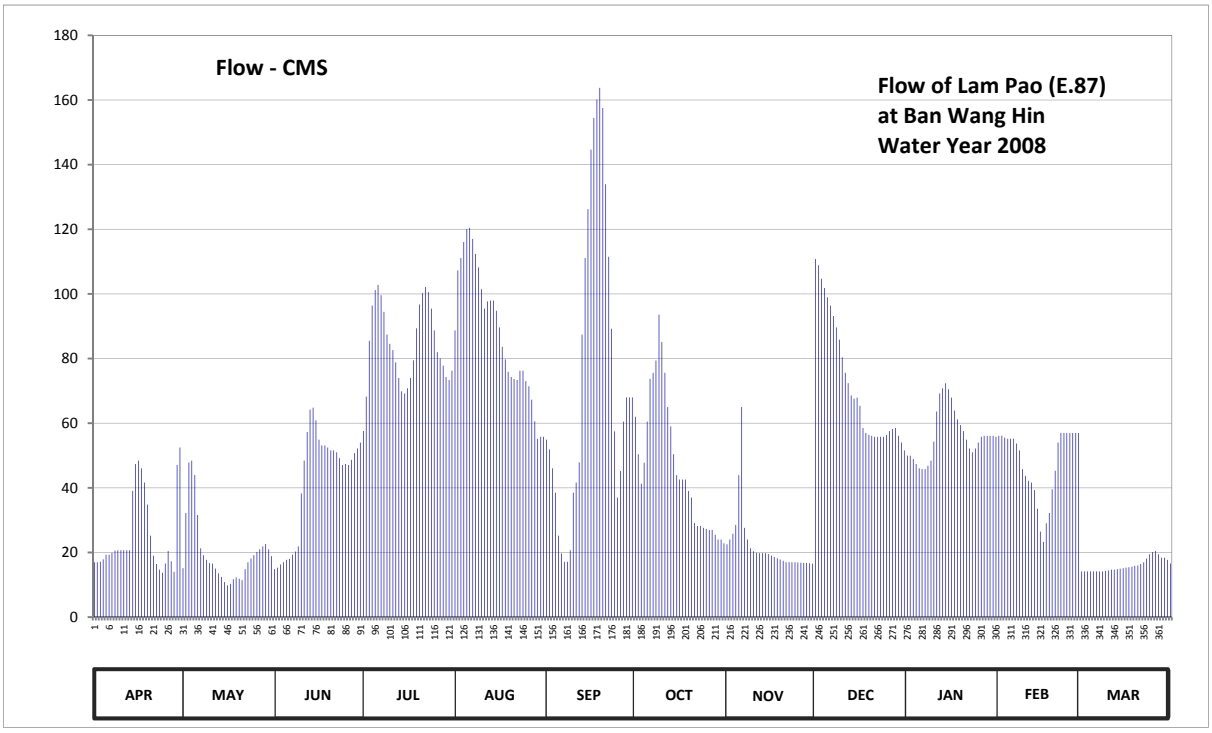
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.90	130.77	130.75	132.22	133.21	132.13	134.96	134.45	133.90	131.96	132.17	130.70	
2	130.90	131.41	130.78	132.57	133.79	132.03	134.88	134.50	133.84	131.96	132.17	130.70	
3	130.91	131.88	130.85	133.11	133.91	131.81	134.81	134.56	133.71	131.92	132.15	130.70	
4	130.96	131.90	130.90	133.45	134.06	131.52	134.86	134.65	133.62	131.86	132.14	130.70	
5	131.06	131.73	130.95	133.60	134.18	131.30	134.95	134.83	133.53	131.81	132.14	130.70	
6	131.06	131.40	130.97	133.65	134.19	131.09	135.03	134.98	133.45	131.80	132.14	130.70	
7	131.10	131.20	131.06	133.55	134.09	130.91	135.04	134.62	133.35	131.80	132.09	130.70	
8	131.15	131.05	131.13	133.39	133.95	130.91	135.06	134.50	133.24	131.84	132.02	130.70	
9	131.16	130.95	131.24	133.17	133.82	131.16	135.13	134.41	133.12	131.90	131.80	130.71	
10	131.16	130.88	131.51	133.08	133.61	131.52	135.09	134.34	132.95	132.11	131.72	130.72	
11	131.16	130.87	131.90	133.02	133.42	131.64	135.04	134.29	132.80	132.42	131.66	130.74	
12	131.16	130.76	132.21	132.90	133.49	131.88	134.98	134.28	132.70	132.60	131.64	130.74	
13	131.16	130.66	132.44	132.75	133.50	133.17	134.94	134.28	132.58	132.65	131.55	130.75	
14	131.54	130.58	132.46	132.62	133.50	133.91	134.88	134.28	132.55	132.70	131.43	130.76	
15	131.86	130.47	132.33	132.60	133.40	134.36	134.83	134.25	132.56	132.64	131.32	130.77	
16	131.90	130.40	132.13	132.65	133.24	134.88	134.82	134.20	132.48	132.56	131.27	130.78	
17	131.81	130.43	132.07	132.75	133.05	135.15	134.82	134.16	132.25	132.43	131.36	130.79	
18	131.64	130.53	132.07	132.92	132.93	135.31	134.82	134.12	132.20	132.34	131.41	130.80	
19	131.45	130.57	132.05	133.23	132.81	135.41	134.79	134.08	132.18	132.28	131.56	130.82	
20	131.30	130.54	132.02	133.46	132.76	135.38	134.77	134.04	132.17	132.22	131.78	130.83	
21	131.04	130.51	132.02	133.57	132.74	135.30	134.67	134.00	132.16	132.13	132.10	130.86	
22	130.86	130.75	132.00	133.63	132.73	135.21	134.64	134.00	132.16	132.04	132.20	130.90	
23	130.74	130.90	131.93	133.58	132.82	135.11	134.64	134.00	132.16	132.00	132.20	130.98	
24	130.67	130.98	131.85	133.42	132.82	134.93	134.62	134.00	132.16	132.04	132.20	131.07	
25	130.87	131.05	131.86	133.21	132.72	134.77	134.61	133.99	132.18	132.10	132.20	131.12	
26	131.14	131.12	131.85	133.00	132.67	134.84	134.60	133.98	132.22	132.16	132.20	131.14	
27	130.92	131.18	131.91	132.94	132.54	134.95	134.60	133.97	132.24	132.17	132.20	131.07	
28	130.69	131.24	131.99	132.87	132.32	135.00	134.55	133.97	132.25	132.17	132.20	131.00	
29	131.85	131.26	132.04	132.76	132.14	135.00	134.50	133.96	132.17	132.17		131.00	
30	132.05	131.18	132.10	132.73	132.16	135.00	134.50	133.94	132.10	132.17		130.95	
31		131.03		132.82	132.16		134.46		132.02	132.16		130.87	
Mean	131.21	130.97	131.71	133.07	133.18	133.52	134.80	134.25	132.68	132.16	131.89	130.83	
Max	132.05	131.90	132.46	133.65	134.19	135.41	135.13	134.98	133.90	132.70	132.20	131.14	135.41
Min	130.67	130.40	130.75	132.22	132.14	130.91	134.46	133.94	132.02	131.80	131.27	130.70	130.40

Annual Max Momentary Gage Height 135.41 m. (MSL.) , at 07.00 Hours, on Sep 19, 2008

Zero Gage at Bottom Elevation 128.90 m. (MSL.) , River Bed 129.86 m. (MSL)

Left Bank Elevation 137.21 m. (MSL.) ,

Right Bank Elevation 138.87 m. (MSL.) , Drainage Are 7,068 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	17.00	15.14	14.86	57.60	88.72	54.90	62.00	22.50	110.80	49.96	56.10	14.14		
2	17.00	32.24	15.29	68.24	107.28	51.90	50.40	24.00	108.88	49.96	56.10	14.14		
3	17.14	47.88	16.29	85.52	111.12	46.06	41.30	25.80	104.72	48.92	55.50	14.14		
4	17.86	48.40	17.00	96.40	116.04	38.52	47.80	28.50	101.84	47.36	55.20	14.14		
5	19.29	43.98	17.71	101.20	120.12	25.20	60.50	43.90	98.96	46.06	55.20	14.14		
6	19.29	31.60	18.00	102.80	120.46	19.71	73.70	65.00	96.40	45.80	55.20	14.14		
7	19.86	21.29	19.29	99.60	117.06	17.14	75.60	27.60	93.20	45.80	53.70	14.14		
8	20.57	19.14	20.29	94.48	112.40	17.14	79.40	24.00	89.68	46.84	51.60	14.14		
9	20.71	17.71	21.86	87.44	108.24	20.71	93.60	21.30	85.84	48.40	45.80	14.29		
10	20.71	16.71	38.26	84.56	101.52	38.52	85.10	20.40	80.40	54.30	43.72	14.43		
11	20.71	16.57	48.40	82.64	95.44	41.64	75.60	19.90	75.60	63.60	42.16	14.71		
12	20.71	15.00	57.30	78.80	97.68	47.88	65.00	19.80	72.40	69.20	41.64	14.71		
13	20.71	13.57	64.20	74.00	98.00	87.44	59.00	19.80	68.56	70.80	39.30	14.86		
14	39.04	12.43	64.80	69.84	98.00	111.12	50.40	19.80	67.60	72.40	33.52	15.00		
15	47.36	10.86	60.90	69.20	94.80	126.24	43.90	19.50	67.92	70.48	26.48	15.14		
16	48.40	9.86	54.90	70.80	89.68	144.68	42.60	19.00	65.40	67.92	23.28	15.29		
17	46.06	10.29	53.10	74.00	83.60	154.40	42.60	18.60	58.50	63.90	29.04	15.43		
18	41.64	11.71	53.10	79.44	79.76	160.16	42.60	18.20	57.00	61.20	32.24	15.57		
19	34.80	12.29	52.50	89.36	75.92	163.76	39.00	17.80	56.40	59.40	39.56	15.86		
20	25.20	11.86	51.60	96.72	74.32	157.52	37.00	17.40	56.10	57.60	45.28	16.00		
21	19.00	11.43	51.60	100.24	73.68	134.00	29.10	17.00	55.80	54.90	54.00	16.43		
22	16.43	14.86	51.00	102.16	73.36	111.50	28.20	17.00	55.80	52.20	57.00	17.00		
23	14.71	17.00	49.18	100.56	76.24	89.20	28.20	17.00	55.80	51.00	57.00	18.14		
24	13.71	18.14	47.10	95.44	76.24	57.50	27.60	17.00	55.80	52.20	57.00	19.43		
25	16.57	19.14	47.36	88.72	73.04	37.00	27.30	16.92	56.40	54.00	57.00	20.14		
26	20.43	20.14	47.10	82.00	71.44	45.20	27.00	16.84	57.60	55.80	57.00	20.43		
27	17.29	21.00	48.66	80.08	67.28	60.50	27.00	16.76	58.20	56.10	57.00	19.43		
28	14.00	21.86	50.74	77.84	60.60	68.00	25.50	16.76	58.50	56.10	57.00	18.43		
29	47.10	22.64	52.20	74.32	55.20	68.00	24.00	16.68	56.10	56.10		18.43		
30	52.50	21.00	54.00	73.36	55.80	68.00	24.00	16.52	54.00	56.10		17.71		
31		18.86		76.24	55.80		22.80		51.60	55.80		16.57		
Total	765.80	624.60	1258.59	2613.60	2728.84	2263.54	1457.80	661.28	2231.80	1740.20	1333.62	496.55	18176.22	CMSDAY
Mean	25.53	20.15	41.95	84.31	88.03	75.45	47.03	22.04	71.99	56.14	47.63	16.02	49.80	CMS
Max	52.50	48.40	64.80	102.80	120.46	163.76	93.60	65.00	110.80	72.40	57.00	20.43	163.76	CMS
Min	13.71	9.86	14.86	57.60	55.20	17.14	22.80	16.52	51.60	45.80	23.28	14.14	9.86	CMS
Runoff	66.17	53.97	108.74	225.82	235.77	195.57	125.95	57.13	192.83	150.35	115.22	42.90	1570.43	MCM

Momentary Peak 163.76 CMS, at 135.41 m. (MSL), at 07.00 Hours, on Sep 19, 2008

Runoff Yield 7.05 Liters/Second/Square KM. Momentary Peak Yield 23.17 Liters/Second/Square KM.

WATER YEAR : 2008

CHI RIVER BASIN

Huai Mun at Ban Khok Sung , Kalasin (E.88)

Lat 16 - 49 - 56 N Long 103 - 22 - 09 E

Location : on right bank at Ban Khok Sung.

	Ban Khok Sung	**Amphoe** Tha Khantho	**Changwat** Kalasin
Drainge Area	91 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+163.060 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank downstream at the footpath of the bridge.		**Elevation** +168.204 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 Float	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records poor. Stage-discharge relation defined by 25 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

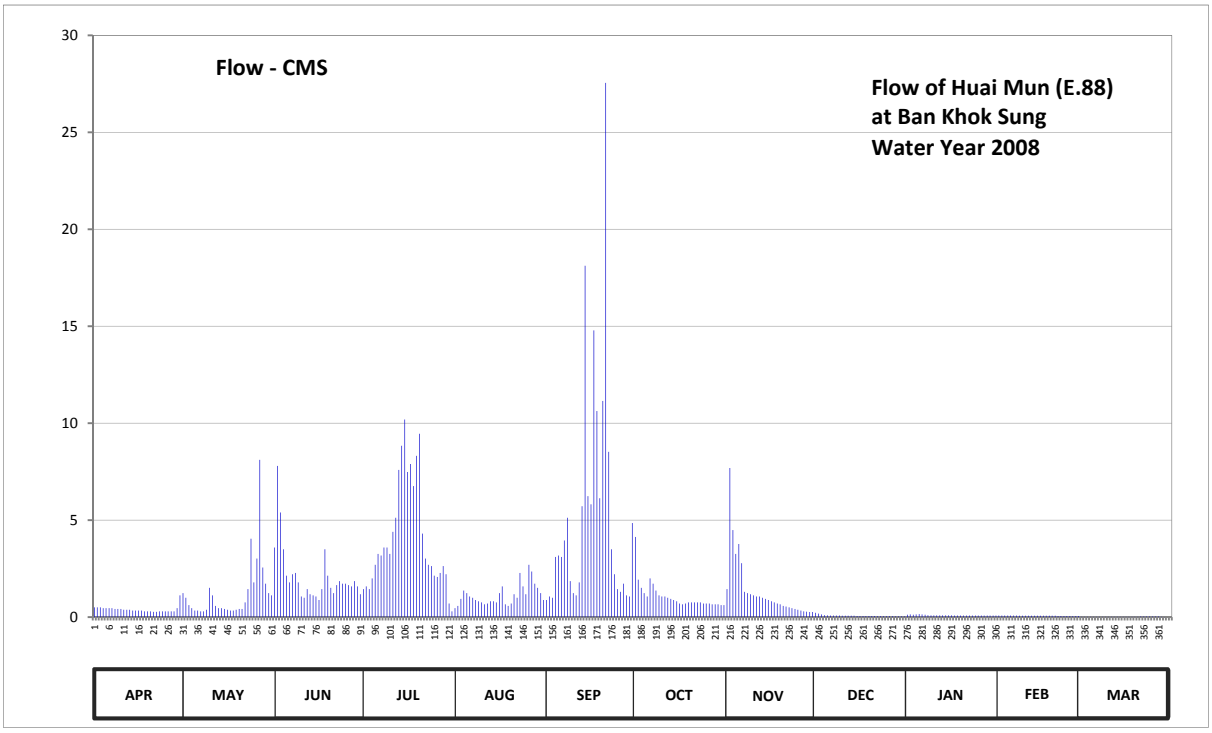
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	163.35	163.49	163.81	163.52	163.34	163.43	163.87	163.52	163.46	163.41	163.35	163.24	
2	163.35	163.45	164.24	163.54	163.37	163.46	163.59	164.23	163.44	163.42	163.35	163.24	
3	163.35	163.38	164.01	163.52	163.44	163.45	163.53	163.91	163.42	163.41	163.35	163.24	
4	163.34	163.34	163.80	163.60	163.51	163.75	163.49	163.77	163.39	163.42	163.35	163.24	
5	163.34	163.31	163.62	163.70	163.49	163.76	163.46	163.83	163.37	163.43	163.35	163.24	
6	163.34	163.31	163.57	163.77	163.46	163.75	163.60	163.71	163.36	163.42	163.35	163.24	
7	163.34	163.30	163.63	163.76	163.45	163.85	163.56	163.70	163.35	163.41	163.35	163.24	
8	163.33	163.30	163.64	163.81	163.43	163.98	163.51	163.69	163.35	163.40	163.34	163.24	
9	163.33	163.32	163.57	163.81	163.42	163.58	163.47	163.68	163.35	163.37	163.34	163.24	
10	163.33	163.53	163.46	163.77	163.41	163.49	163.46	163.67	163.34	163.38	163.34	163.24	
11	163.32	163.47	163.45	163.90	163.39	163.47	163.46	163.66	163.34	163.38	163.34	163.24	
12	163.32	163.37	163.52	163.98	163.40	163.57	163.45	163.66	163.34	163.38	163.34	163.24	
13	163.32	163.34	163.48	164.22	163.42	164.04	163.44	163.65	163.33	163.37	163.34	163.24	
14	163.31	163.34	163.47	164.34	163.42	165.07	163.43	163.64	163.33	163.37	163.34	163.24	
15	163.31	163.33	163.46	164.47	163.41	164.09	163.42	163.63	163.32	163.37	163.34	163.24	
16	163.31	163.32	163.43	164.21	163.49	164.05	163.40	163.62	163.32	163.37	163.34	163.24	
17	163.31	163.31	163.52	164.25	163.54	164.83	163.39	163.61	163.32	163.36	163.33	163.24	
18	163.30	163.31	163.80	164.14	163.39	164.51	163.40	163.60	163.32	163.36	163.33	163.24	
19	163.30	163.32	163.62	164.29	163.37	164.08	163.41	163.59	163.31	163.36	163.33	163.24	
20	163.30	163.33	163.53	164.40	163.40	164.55	163.41	163.57	163.31	163.36	163.33	163.24	
21	163.29	163.33	163.49	163.89	163.48	165.65	163.41	163.56	163.31	163.35	163.32	163.25	
22	163.29	163.41	163.55	163.74	163.45	164.31	163.41	163.55	163.30	163.35	163.32	163.25	
23	163.30	163.52	163.58	163.70	163.64	163.80	163.41	163.54	163.30	163.35	163.32	163.25	
24	163.30	163.86	163.56	163.69	163.54	163.63	163.40	163.53	163.30	163.35	163.32	163.25	
25	163.30	163.57	163.56	163.62	163.48	163.52	163.40	163.52	163.29	163.36	163.31	163.26	
26	163.30	163.74	163.55	163.61	163.70	163.50	163.40	163.51	163.29	163.36	163.30	163.26	
27	163.30	164.27	163.54	163.64	163.65	163.56	163.39	163.50	163.29	163.36	163.31	163.25	
28	163.30	163.68	163.58	163.69	163.56	163.47	163.39	163.49	163.28	163.36	163.31	163.24	
29	163.34	163.56	163.54	163.63	163.53	163.46	163.39	163.48	163.28	163.35		163.22	
30	163.47	163.49	163.48	163.40	163.49	163.95	163.38	163.48	163.28	163.36		163.20	
31		163.47		163.30	163.43		163.38		163.28	163.36		163.20	
Mean	163.32	163.45	163.60	163.84	163.47	163.92	163.46	163.64	163.33	163.38	163.33	163.24	
Max	163.47	164.27	164.24	164.47	163.70	165.65	163.87	164.23	163.46	163.43	163.35	163.26	165.65
Min	163.29	163.30	163.43	163.30	163.34	163.43	163.38	163.48	163.28	163.35	163.30	163.20	163.20

Annual Max Momentary Gage Height 166.27 m. (MSL.) , at 16.00 Hours, on Sep 21, 2008

Zero Gage at Bottom Elevation 163.06 m. (MSL.) , River Bed 163.13 m. (MSL)

Left Bank Elevation 167.33 m. (MSL.) ,

Right Bank Elevation 166.63 m. (MSL.) , Drainage Are 91 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.50	1.24	3.59	1.44	0.46	0.88	4.13	1.44	0.22	0.12	0.08	0.02		
2	0.50	1.00	7.80	1.58	0.58	1.06	1.93	7.69	0.18	0.14	0.08	0.02		
3	0.50	0.62	5.40	1.44	0.94	1.00	1.51	4.49	0.14	0.12	0.08	0.02		
4	0.46	0.46	3.50	2.00	1.37	3.10	1.24	3.26	0.10	0.14	0.08	0.02		
5	0.46	0.34	2.14	2.70	1.24	3.18	1.06	3.77	0.09	0.16	0.08	0.02		
6	0.46	0.34	1.79	3.26	1.06	3.10	2.00	2.78	0.08	0.14	0.08	0.02		
7	0.46	0.30	2.21	3.18	1.00	3.95	1.72	1.30	0.08	0.12	0.08	0.02		
8	0.42	0.30	2.28	3.59	0.88	5.12	1.37	1.24	0.08	0.10	0.07	0.02		
9	0.42	0.38	1.79	3.59	0.82	1.86	1.12	1.18	0.08	0.09	0.07	0.02		
10	0.42	1.51	1.06	3.26	0.76	1.24	1.06	1.12	0.07	0.09	0.07	0.02		
11	0.38	1.12	1.00	4.40	0.66	1.12	1.06	1.06	0.07	0.09	0.07	0.02		
12	0.38	0.58	1.44	5.12	0.70	1.79	1.00	1.06	0.07	0.09	0.07	0.02		
13	0.38	0.46	1.18	7.59	0.82	5.72	0.94	1.00	0.07	0.09	0.07	0.02		
14	0.34	0.46	1.12	8.84	0.82	18.12	0.88	0.94	0.07	0.09	0.07	0.02		
15	0.34	0.42	1.06	10.19	0.76	6.24	0.82	0.88	0.06	0.09	0.07	0.02		
16	0.34	0.38	0.88	7.48	1.24	5.82	0.70	0.82	0.06	0.09	0.07	0.02		
17	0.34	0.34	1.44	7.90	1.58	14.79	0.66	0.76	0.06	0.08	0.07	0.02		
18	0.30	0.34	3.50	6.76	0.66	10.63	0.70	0.70	0.06	0.08	0.07	0.02		
19	0.30	0.38	2.14	8.32	0.58	6.13	0.76	0.66	0.06	0.08	0.07	0.02		
20	0.30	0.42	1.51	9.46	0.70	11.15	0.76	0.58	0.06	0.08	0.07	0.02		
21	0.27	0.42	1.24	4.31	1.18	27.55	0.76	0.54	0.06	0.08	0.06	0.03		
22	0.27	0.76	1.65	3.02	1.00	8.52	0.76	0.50	0.05	0.08	0.06	0.03		
23	0.30	1.44	1.86	2.70	2.28	3.50	0.76	0.46	0.05	0.08	0.06	0.03		
24	0.30	4.04	1.72	2.63	1.58	2.21	0.70	0.42	0.05	0.08	0.06	0.03		
25	0.30	1.79	1.72	2.14	1.18	1.44	0.70	0.38	0.05	0.08	0.06	0.03		
26	0.30	3.02	1.65	2.07	2.70	1.30	0.70	0.34	0.05	0.08	0.05	0.03		
27	0.30	8.11	1.58	2.28	2.35	1.72	0.66	0.30	0.05	0.08	0.06	0.03		
28	0.30	2.56	1.86	2.63	1.72	1.12	0.66	0.28	0.04	0.08	0.06	0.02		
29	0.46	1.72	1.58	2.21	1.51	1.06	0.66	0.26	0.04	0.08		0.01		
30	1.12	1.24	1.18	0.70	1.24	4.85	0.62	0.26	0.04	0.08		0.00		
31		1.12		0.30	0.88		0.62		0.04	0.08		0.00		
Total	11.92	37.61	62.87	127.09	35.25	159.27	33.02	40.47	2.28	2.96	1.94	0.64	515.32	CMSDAY
Mean	0.40	1.21	2.10	4.10	1.14	5.31	1.07	1.35	0.07	0.10	0.07	0.02	1.41	CMS
Max	1.12	8.11	7.80	10.19	2.70	27.55	4.13	7.69	0.22	0.16	0.08	0.03	27.55	CMS
Min	0.27	0.30	0.88	0.30	0.46	0.88	0.62	0.26	0.04	0.08	0.05	0.00	0.00	CMS
Runoff	1.03	3.25	5.43	10.98	3.05	13.76	2.85	3.50	0.20	0.26	0.17	0.06	44.52	MCM

Momentary Peak 38.09 CMS, at 166.27 m. (MSL), at 16.00 Hours, on Sep 21, 2008

Runoff Yield 15.51 Liters/Second/Square KM. Momentary Peak Yield 418.57 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 Float	-		
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 21 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

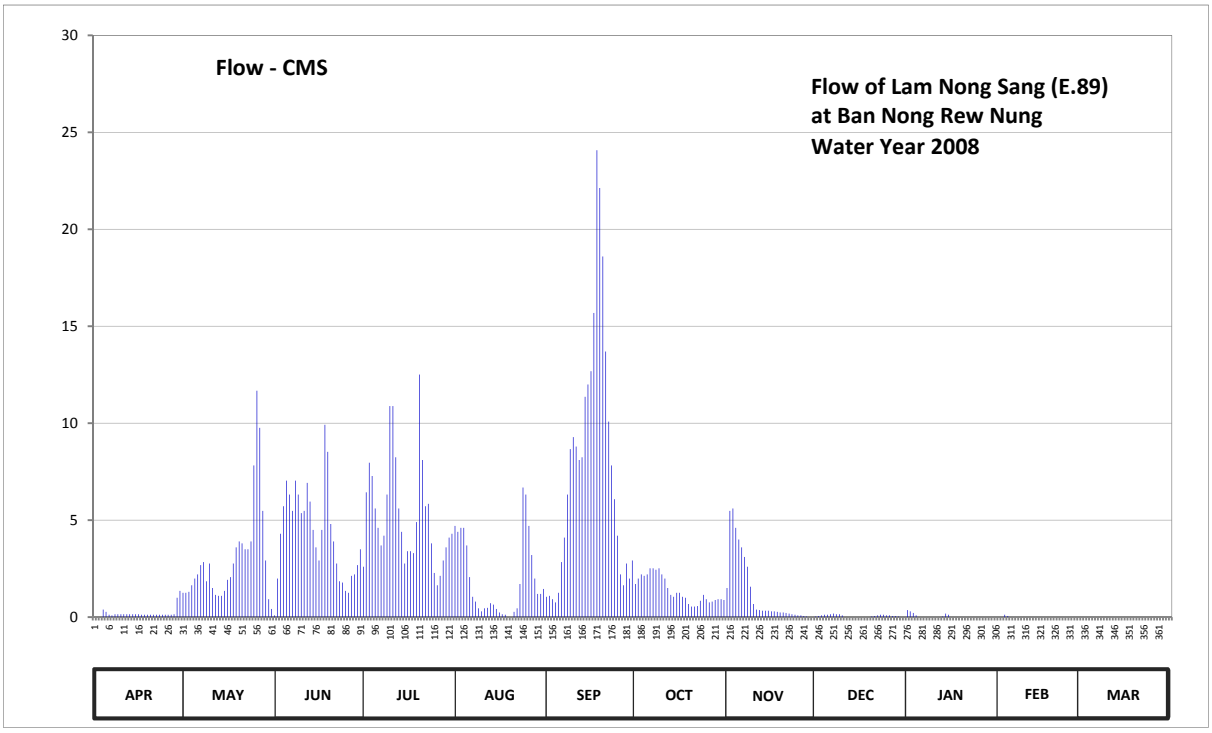
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	171.56	172.15	171.83	172.35	172.57	172.11	172.23	172.20	171.81	171.92	171.74	171.70	
2	171.65	172.15	172.27	172.72	172.54	172.12	172.27	172.64	171.82	171.90	171.80	171.70	
3	171.80	172.16	172.53	172.84	172.56	172.08	172.30	172.65	171.83	171.87	171.84	171.70	
4	171.93	172.22	172.66	172.79	172.56	172.04	172.29	172.56	171.84	171.83	171.82	171.70	
5	171.89	172.27	172.77	172.65	172.47	172.15	172.30	172.50	171.84	171.80	171.76	171.70	
6	171.84	172.30	172.71	172.56	172.28	172.38	172.34	172.46	171.85	171.77	171.74	171.70	
7	171.83	172.36	172.64	172.47	172.11	172.51	172.34	172.41	171.86	171.74	171.71	171.69	
8	171.85	172.38	172.77	172.52	172.05	172.71	172.33	172.35	171.85	171.73	171.71	171.69	
9	171.85	172.25	172.71	172.71	171.95	172.89	172.34	172.21	171.85	171.72	171.71	171.69	
10	171.85	172.37	172.63	173.03	171.90	172.93	172.30	172.02	171.83	171.71	171.71	171.69	
11	171.85	172.20	172.64	173.03	171.95	172.90	172.27	171.93	171.80	171.73	171.71	171.69	
12	171.85	172.13	172.76	172.86	171.96	172.85	172.20	171.92	171.77	171.76	171.71	171.69	
13	171.85	172.12	172.68	172.65	172.03	172.86	172.13	171.91	171.77	171.81	171.71	171.68	
14	171.85	172.12	172.55	172.54	172.01	173.06	172.11	171.91	171.77	171.86	171.71	171.68	
15	171.85	172.17	172.46	172.37	171.94	173.10	172.15	171.91	171.78	171.84	171.71	171.68	
16	171.85	172.26	172.39	172.44	171.88	173.14	172.15	171.90	171.78	171.79	171.71	171.68	
17	171.84	172.28	172.55	172.44	171.85	173.31	172.11	171.90	171.79	171.78	171.71	171.68	
18	171.84	172.37	172.97	172.43	171.84	173.72	172.10	171.89	171.79	171.77	171.71	171.68	
19	171.84	172.46	172.88	172.59	171.80	173.63	172.02	171.88	171.80	171.76	171.71	171.68	
20	171.84	172.49	172.58	173.13	171.78	173.46	171.98	171.88	171.81	171.76	171.71	171.67	
21	171.84	172.48	172.49	172.85	171.89	173.20	171.98	171.87	171.82	171.75	171.70	171.67	
22	171.84	172.45	172.37	172.66	171.95	172.98	171.99	171.86	171.83	171.74	171.69	171.67	
23	171.84	172.45	172.25	172.67	172.23	172.83	172.06	171.85	171.84	171.74	171.68	171.67	
24	171.84	172.49	172.24	172.48	172.74	172.69	172.13	171.84	171.84	171.73	171.67	171.67	
25	171.84	172.83	172.17	172.31	172.71	172.52	172.08	171.83	171.83	171.73	171.67	171.67	
26	171.84	173.08	172.15	172.22	172.57	172.30	172.04	171.83	171.83	171.73	171.66	171.67	
27	171.84	172.96	172.29	172.29	172.42	172.22	172.05	171.82	171.82	171.72	171.66	171.66	
28	171.85	172.64	172.30	172.39	172.27	172.37	172.07	171.81	171.82	171.72	171.65	171.66	
29	172.10	172.39	172.36	172.46	172.14	172.27	172.08	171.80	171.81	171.72		171.66	
30	172.17	172.08	172.45	172.51	172.14	172.39	172.08	171.80	171.80	171.71		171.66	
31		171.94		172.53	172.19		172.07		171.80	171.71		171.66	
Mean	171.85	172.35	172.50	172.60	172.17	172.72	172.16	172.04	171.82	171.77	171.71	171.68	
Max	172.17	173.08	172.97	173.13	172.74	173.72	172.34	172.65	171.86	171.92	171.84	171.70	173.72
Min	171.56	171.94	171.83	172.22	171.78	172.04	171.98	171.80	171.77	171.71	171.65	171.66	171.56

Annual Max Momentary Gage Height 173.80 m. (MSL.) , at 18.00 Hours, on Sep 18, 2008

Zero Gage at Bottom Elevation 170.60 m. (MSL.) , River Bed 171.23 m. (MSL)

Left Bank Elevation 176.27 m. (MSL.) ,

Right Bank Elevation 176.25 m. (MSL.) , Drainage Are 167 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	1.25	0.09	2.60	4.70	1.05	1.71	1.50	0.03	0.36	0.00	0.00		
2	0.00	1.25	1.99	6.44	4.40	1.10	1.99	5.48	0.06	0.30	0.00	0.00		
3	0.00	1.30	4.30	7.96	4.60	0.92	2.20	5.60	0.09	0.21	0.12	0.00		
4	0.39	1.64	5.72	7.28	4.60	0.76	2.13	4.60	0.12	0.09	0.06	0.00		
5	0.27	1.99	7.04	5.60	3.70	1.25	2.20	4.00	0.12	0.00	0.00	0.00		
6	0.12	2.20	6.32	4.60	2.06	2.84	2.52	3.60	0.15	0.00	0.00	0.00		
7	0.09	2.68	5.48	3.70	1.05	4.10	2.52	3.10	0.18	0.00	0.00	0.00		
8	0.15	2.84	7.04	4.20	0.80	6.32	2.44	2.60	0.15	0.00	0.00	0.00		
9	0.15	1.85	6.32	6.32	0.45	8.66	2.52	1.57	0.15	0.00	0.00	0.00		
10	0.15	2.76	5.36	10.88	0.30	9.28	2.20	0.68	0.09	0.00	0.00	0.00		
11	0.15	1.50	5.48	10.88	0.45	8.80	1.99	0.39	0.00	0.00	0.00	0.00		
12	0.15	1.15	6.92	8.24	0.48	8.10	1.50	0.36	0.00	0.00	0.00	0.00		
13	0.15	1.10	5.96	5.60	0.72	8.24	1.15	0.33	0.00	0.03	0.00	0.00		
14	0.15	1.10	4.50	4.40	0.64	11.36	1.05	0.33	0.00	0.18	0.00	0.00		
15	0.15	1.35	3.60	2.76	0.42	12.00	1.25	0.33	0.00	0.12	0.00	0.00		
16	0.15	1.92	2.92	3.40	0.24	12.68	1.25	0.30	0.00	0.00	0.00	0.00		
17	0.12	2.06	4.50	3.40	0.15	15.69	1.05	0.30	0.00	0.00	0.00	0.00		
18	0.12	2.76	9.92	3.30	0.12	24.08	1.00	0.27	0.00	0.00	0.00	0.00		
19	0.12	3.60	8.52	4.90	0.00	22.13	0.68	0.24	0.00	0.00	0.00	0.00		
20	0.12	3.90	4.80	12.51	0.00	18.60	0.54	0.24	0.03	0.00	0.00	0.00		
21	0.12	3.80	3.90	8.10	0.27	13.70	0.54	0.21	0.06	0.00	0.00	0.00		
22	0.12	3.50	2.76	5.72	0.45	10.08	0.57	0.18	0.09	0.00	0.00	0.00		
23	0.12	3.50	1.85	5.84	1.71	7.82	0.84	0.15	0.12	0.00	0.00	0.00		
24	0.12	3.90	1.78	3.80	6.68	6.08	1.15	0.12	0.12	0.00	0.00	0.00		
25	0.12	7.82	1.35	2.28	6.32	4.20	0.92	0.09	0.09	0.00	0.00	0.00		
26	0.12	11.68	1.25	1.64	4.70	2.20	0.76	0.09	0.09	0.00	0.00	0.00		
27	0.12	9.76	2.13	2.13	3.20	1.64	0.80	0.06	0.06	0.00	0.00	0.00		
28	0.15	5.48	2.20	2.92	1.99	2.76	0.88	0.03	0.06	0.00	0.00	0.00		
29	1.00	2.92	2.68	3.60	1.20	1.99	0.92	0.00	0.03	0.00		0.00		
30	1.35	0.92	3.50	4.10	1.20	2.92	0.92	0.00	0.00	0.00		0.00		
31		0.42		4.30	1.45		0.88		0.00	0.00		0.00		
Total	6.04	93.90	130.18	163.40	59.05	231.35	43.07	36.75	1.89	1.29	0.18	0.00	767.10	CMSDAY
Mean	0.20	3.03	4.34	5.27	1.90	7.71	1.39	1.23	0.06	0.04	0.01	0.00	2.10	CMS
Max	1.35	11.68	9.92	12.51	6.68	24.08	2.52	5.60	0.18	0.36	0.12	0.00	24.08	CMS
Min	0.00	0.42	0.09	1.64	0.00	0.76	0.54	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.52	8.11	11.25	14.12	5.10	19.99	3.72	3.18	0.16	0.11	0.02	0.00	66.28	MCM

Momentary Peak 26.00 CMS, at 173.80 m. (MSL), at 18.00 Hours, on Sep 18, 2008

Runoff Yield 12.58 Liters/Second/Square KM. Momentary Peak Yield 155.69 Liters/Second/Square KM.

WATER YEAR : 2008

CHI RIVER BASIN

Huai Sang Kiab at Ban Nong Yang Tai , Kalasin (E.90)

Lat 16 - 46 - 28 N Long 103 - 38 - 41 E

Location : on right bank at Ban Nong Yang Tai.

	Ban Nong Yang Tai	**Amphoe** Kham Muang	**Changwat** Kalasin
Drainge Area	321 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+160.600 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank upstream at the footpath of the bridge.		**Elevation** +167.096 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 Float	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records poor. Stage-discharge relation defined by 23 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

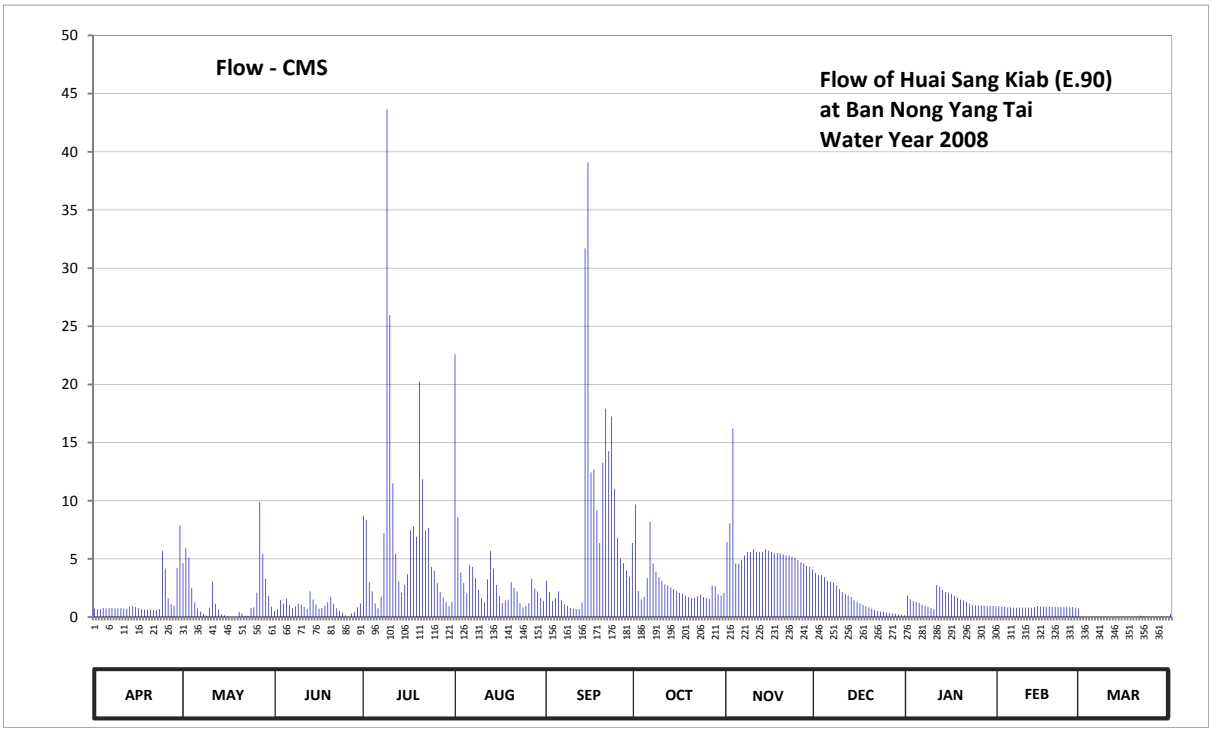
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.94	161.63	160.88	162.06	163.15	161.42	162.14	162.17	161.92	161.68	161.01	160.64	
2	160.93	161.79	160.93	162.03	162.05	161.26	161.73	162.29	161.90	161.63	161.00	160.63	
3	160.93	161.69	161.14	161.40	161.53	161.13	161.63	162.73	161.90	161.61	161.00	160.63	
4	160.96	161.32	161.09	161.27	161.39	161.17	161.66	162.00	161.88	161.60	160.98	160.63	
5	160.95	161.11	161.16	161.09	161.24	161.27	161.87	162.00	161.84	161.57	160.98	160.63	
6	160.96	160.95	161.05	160.95	161.61	161.14	162.30	162.03	161.83	161.52	160.97	160.63	
7	160.96	160.86	160.95	161.19	161.59	161.07	162.00	162.07	161.82	161.49	160.97	160.63	
8	160.95	160.79	161.01	161.93	161.46	161.02	161.93	162.10	161.79	161.46	160.97	160.63	
9	160.95	160.74	161.09	164.51	161.29	160.96	161.88	162.10	161.75	161.42	160.97	160.63	
10	160.95	160.97	161.06	163.39	161.17	160.94	161.84	162.12	161.72	161.39	160.97	160.63	
11	160.94	161.41	160.99	162.29	161.11	160.93	161.80	162.10	161.70	161.36	160.97	160.63	
12	160.94	161.08	160.93	161.73	161.44	160.93	161.79	162.10	161.68	161.34	160.97	160.63	
13	161.00	160.91	161.27	161.41	161.76	161.11	161.77	162.10	161.66	161.29	160.99	160.63	
14	161.01	160.78	161.15	161.25	161.57	163.78	161.75	162.12	161.62	161.26	161.02	160.63	
15	160.99	160.75	161.06	161.36	161.36	164.24	161.73	162.11	161.60	161.25	161.00	160.63	
16	160.95	160.72	160.94	161.51	161.20	162.37	161.71	162.10	161.56	161.23	161.00	160.63	
17	160.93	160.70	160.96	161.95	161.10	162.39	161.70	162.09	161.52	161.20	161.00	160.63	
18	160.92	160.70	161.03	161.98	161.14	162.10	161.68	162.09	161.47	161.18	160.99	160.63	
19	160.91	160.70	161.11	161.90	161.15	161.84	161.66	162.09	161.44	161.15	160.99	160.63	
20	160.91	160.85	161.19	162.98	161.40	162.44	161.65	162.08	161.41	161.14	160.99	160.65	
21	160.90	160.80	161.08	162.32	161.32	162.80	161.65	162.07	161.36	161.12	160.99	160.74	
22	160.90	160.74	160.95	161.95	161.27	162.52	161.67	162.07	161.32	161.09	160.99	160.72	
23	160.93	160.74	160.88	161.97	161.10	162.75	161.69	162.06	161.28	161.05	160.99	160.70	
24	161.76	160.96	160.83	161.59	160.98	162.25	161.66	162.05	161.25	161.04	160.99	160.67	
25	161.57	160.98	160.75	161.55	161.02	161.89	161.65	162.03	161.19	161.03	160.99	160.65	
26	161.17	161.25	160.71	161.39	161.10	161.68	161.64	162.01	161.14	161.03	160.99	160.66	
27	161.07	162.16	160.81	161.26	161.45	161.63	161.79	162.00	161.11	161.03	160.97	160.69	
28	161.03	161.73	160.84	161.18	161.31	161.55	161.78	161.98	161.09	161.02	160.95	160.71	
29	161.58	161.45	160.98	161.12	161.27	161.48	161.70	161.97	161.03	161.02		160.66	
30	161.99	161.20	161.09	161.01	161.17	161.84	161.68	161.95	161.00	161.02		160.68	
31		161.00		161.12	161.13		161.71		160.96	161.01		160.79	
Mean	161.06	161.08	161.00	161.76	161.38	161.80	161.77	162.09	161.51	161.27	160.99	160.65	
Max	161.99	162.16	161.27	164.51	163.15	164.24	162.30	162.73	161.92	161.68	161.02	160.79	164.51
Min	160.90	160.70	160.71	160.95	160.98	160.93	161.63	161.95	160.96	161.01	160.95	160.63	160.63

Annual Max Momentary Gage Height 165.70 m. (MSL.) , at 15.00 Hours, on Jul 9, 2008

Zero Gage at Bottom Elevation 160.60 m. (MSL.) , River Bed 160.64 m. (MSL)

Left Bank Elevation 167.01 m. (MSL.) ,

Right Bank Elevation 166.96 m. (MSL.) , Drainage Are 321 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.72	4.64	0.54	8.72	22.60	3.12	9.68	6.44	3.80	1.86	0.93	0.00		
2	0.69	5.92	0.69	8.36	8.60	2.16	2.24	8.06	3.60	1.51	0.90	0.00		
3	0.69	5.12	1.44	3.00	3.84	1.38	1.51	16.22	3.60	1.37	0.90	0.00		
4	0.78	2.52	1.17	2.22	2.94	1.62	1.72	4.60	3.44	1.30	0.84	0.00		
5	0.75	1.26	1.56	1.17	2.04	2.22	3.36	4.60	3.12	1.21	0.84	0.00		
6	0.78	0.75	1.05	0.75	4.48	1.44	8.20	4.90	3.04	1.06	0.81	0.00		
7	0.78	0.48	0.75	1.74	4.32	1.11	4.60	5.30	2.96	0.97	0.81	0.00		
8	0.75	0.27	0.93	7.23	3.36	0.96	3.90	5.60	2.72	0.88	0.81	0.00		
9	0.75	0.12	1.17	43.67	2.34	0.78	3.44	5.60	2.40	0.76	0.81	0.00		
10	0.75	0.81	1.08	25.96	1.62	0.72	3.12	5.84	2.16	0.68	0.81	0.00		
11	0.72	3.06	0.87	11.48	1.26	0.69	2.80	5.60	2.00	2.76	0.81	0.00		
12	0.72	1.14	0.69	5.44	3.24	0.69	2.72	5.60	1.86	2.64	0.81	0.00		
13	0.90	0.63	2.22	3.06	5.68	1.26	2.56	5.60	1.72	2.34	0.87	0.00		
14	0.93	0.24	1.50	2.10	4.16	31.70	2.40	5.84	1.44	2.16	0.96	0.00		
15	0.87	0.15	1.08	2.76	2.76	39.08	2.24	5.72	1.30	2.10	0.90	0.00		
16	0.75	0.06	0.72	3.68	1.80	12.44	2.08	5.60	1.18	1.98	0.90	0.00		
17	0.69	0.00	0.78	7.45	1.20	12.68	2.00	5.50	1.06	1.80	0.90	0.00		
18	0.66	0.00	0.99	7.78	1.44	9.20	1.86	5.50	0.91	1.68	0.87	0.00		
19	0.63	0.00	1.26	6.90	1.50	6.36	1.72	5.50	0.82	1.50	0.87	0.00		
20	0.63	0.45	1.74	20.24	3.00	13.28	1.65	5.40	0.73	1.44	0.87	0.00		
21	0.60	0.30	1.14	11.84	2.52	17.90	1.65	5.30	0.62	1.32	0.87	0.12		
22	0.60	0.12	0.75	7.45	2.22	14.26	1.79	5.30	0.54	1.17	0.87	0.06		
23	0.69	0.12	0.54	7.67	1.20	17.25	1.93	5.20	0.48	1.05	0.87	0.00		
24	5.68	0.78	0.39	4.32	0.84	11.00	1.72	5.10	0.45	1.02	0.87	0.00		
25	4.16	0.84	0.15	4.00	0.96	6.81	1.65	4.90	0.39	0.99	0.87	0.00		
26	1.62	2.10	0.03	2.94	1.20	5.04	1.58	4.70	0.34	0.99	0.87	0.00		
27	1.11	9.92	0.33	2.16	3.30	4.64	2.72	4.60	0.31	0.99	0.81	0.00		
28	0.99	5.44	0.42	1.68	2.46	4.00	2.64	4.40	0.29	0.96	0.75	0.03		
29	4.24	3.30	0.84	1.32	2.22	3.48	2.00	4.30	0.23	0.96		0.00		
30	7.89	1.80	1.17	0.93	1.62	6.36	1.86	4.10	0.20	0.96		0.00		
31		0.90		1.32	1.38		2.08		0.16	0.93		0.27		
Total	42.52	53.24	27.99	219.34	102.10	233.63	85.42	170.92	47.87	43.34	24.00	0.48	1050.85	CMSDAY
Mean	1.42	1.72	0.93	7.08	3.29	7.79	2.76	5.70	1.54	1.40	0.86	0.02	2.88	CMS
Max	7.89	9.92	2.22	43.67	22.60	39.08	9.68	16.22	3.80	2.76	0.96	0.27	43.67	CMS
Min	0.60	0.00	0.03	0.75	0.84	0.69	1.51	4.10	0.16	0.68	0.75	0.00	0.00	CMS
Runoff	3.67	4.60	2.42	18.95	8.82	20.19	7.38	14.77	4.14	3.74	2.07	0.04	90.79	MCM

Momentary Peak 65.00 CMS, at 165.70 m. (MSL), at 15.00 Hours, on Jul 9, 2008

Runoff Yield 8.97 Liters/Second/Square KM. Momentary Peak Yield 202.49 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 3 readings
Period of Available Gage Records	2005 to date
Rating Operation	
Period of Rating	2005 to date
Rated by Float	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +149.650 m.(MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

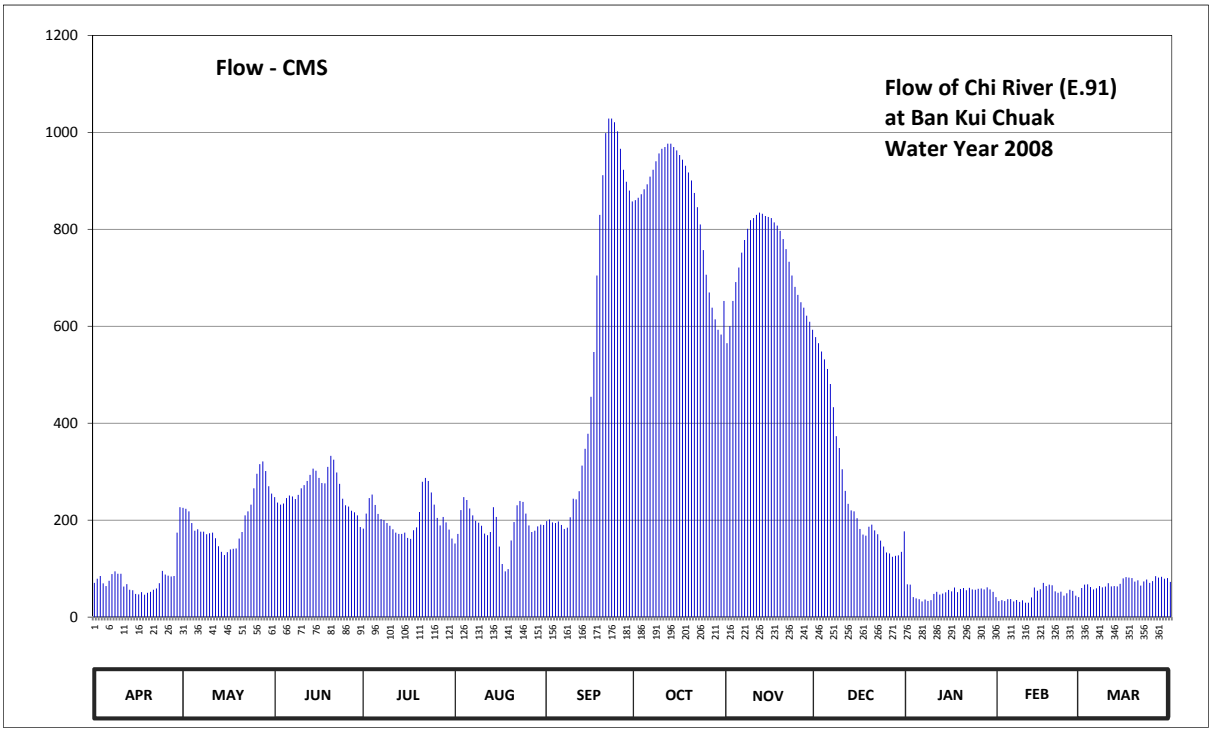
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	140.97	143.44	143.77	142.79	142.31	143.03	149.82	147.90	148.03	140.91	140.15	140.76	
2	141.13	143.41	143.60	143.26	142.62	143.08	149.84	148.21	147.90	140.90	140.20	140.90	
3	141.23	143.33	143.54	143.74	143.37	142.99	149.87	148.62	147.71	140.36	140.15	140.91	
4	140.95	142.97	143.57	143.85	143.77	142.97	149.91	148.93	147.53	140.29	140.25	140.80	
5	140.84	142.72	143.74	143.53	143.68	143.02	149.95	149.13	147.31	140.25	140.26	140.70	
6	141.05	142.77	143.82	143.25	143.42	142.91	150.01	149.31	146.96	140.13	140.13	140.75	
7	141.30	142.69	143.79	143.09	143.21	142.78	150.06	149.45	146.33	140.23	140.21	140.84	
8	141.40	142.69	143.71	143.06	143.04	142.82	150.12	149.56	145.53	140.16	140.11	140.79	
9	141.31	142.61	143.84	142.97	142.98	143.15	150.17	149.64	145.20	140.20	140.19	140.82	
10	141.31	142.64	144.04	142.88	142.88	143.72	150.20	149.66	144.59	140.52	140.07	140.96	
11	140.82	142.66	144.13	142.77	142.63	143.70	150.21	149.69	143.96	140.60	140.07	140.83	
12	140.92	142.48	144.25	142.66	142.58	143.95	150.23	149.71	143.56	140.49	140.34	140.84	
13	140.69	142.22	144.43	142.62	142.68	144.70	150.23	149.70	143.36	140.53	140.78	140.83	
14	140.67	142.04	144.61	142.62	143.46	145.18	150.21	149.68	143.33	140.58	140.65	140.93	
15	140.52	141.94	144.55	142.66	143.16	145.60	150.19	149.67	143.12	140.68	140.71	141.14	
16	140.50	142.03	144.34	142.49	142.21	146.61	150.16	149.66	142.78	140.62	140.97	141.19	
17	140.59	142.12	144.19	142.46	141.65	147.70	150.13	149.62	142.60	140.78	140.84	141.17	
18	140.48	142.14	144.18	142.74	141.40	149.03	150.09	149.59	142.56	140.59	140.90	141.15	
19	140.56	142.15	144.66	142.83	141.48	149.69	150.04	149.54	142.85	140.72	140.87	141.02	
20	140.60	142.47	144.98	143.31	142.41	150.02	149.98	149.46	142.92	140.76	140.62	141.07	
21	140.69	142.68	144.87	144.23	143.00	150.29	149.88	149.35	142.73	140.67	140.56	140.86	
22	140.74	143.21	144.50	144.34	143.52	150.37	149.76	149.20	142.61	140.77	140.61	141.03	
23	140.96	143.33	144.17	144.25	143.65	150.37	149.60	149.03	142.40	140.70	140.43	141.10	
24	141.42	143.54	143.72	143.91	143.62	150.35	149.34	148.85	142.21	140.69	140.54	140.97	
25	141.28	144.04	143.52	143.54	143.26	150.30	149.04	148.72	142.02	140.73	140.69	141.04	
26	141.24	144.46	143.48	143.13	142.89	150.20	148.76	148.60	141.99	140.74	140.64	141.22	
27	141.21	144.74	143.35	142.89	142.68	150.06	148.51	148.51	141.88	140.70	140.43	141.17	
28	141.23	144.82	143.30	143.16	142.72	149.97	148.32	148.38	141.91	140.79	140.36	141.20	
29	142.66	144.54	143.21	142.99	142.86	149.90	148.15	148.28	141.93	140.70		141.13	
30	143.46	144.10	142.84	142.76	142.92	149.81	148.07	148.15	142.04	140.60		141.15	
31		143.88		142.47	142.91		148.62		142.70	140.36		141.01	
Mean	141.09	143.06	143.96	143.14	142.87	146.61	149.66	149.13	143.95	140.57	140.45	140.98	
Max	143.46	144.82	144.98	144.34	143.77	150.37	150.23	149.71	148.03	140.91	140.97	141.22	150.37
Min	140.48	141.94	142.84	142.46	141.40	142.78	148.07	147.90	141.88	140.13	140.07	140.70	140.07

Annual Max Momentary Gage Height 150.37 m. (MSL.) , at 09.00 Hours, on Sep 22, 2008

Zero Gage at Bottom Elevation 138.00 m. (MSL.) , River Bed 138.10 m. (MSL.)

Left Bank Elevation 150.47 m. (MSL.) ,

Right Bank Elevation 149.64 m. (MSL.) , Drainage Are 29,265 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	70.50	225.48	247.59	182.56	151.84	198.01	860.00	565.00	577.78	67.50	33.00	60.00		
2	79.28	223.47	236.20	213.42	171.68	201.36	865.00	600.46	565.00	67.00	35.00	67.00		
3	84.88	218.11	232.18	245.58	220.79	195.36	872.50	652.12	547.90	41.40	33.00	67.50		
4	69.50	194.08	234.19	252.95	247.59	194.08	882.60	691.18	531.70	38.60	37.00	62.00		
5	64.00	178.08	245.58	231.51	241.56	197.34	893.00	721.10	511.90	37.00	37.40	57.00		
6	74.80	181.28	250.94	212.75	224.14	190.24	908.80	751.80	480.96	32.20	32.20	59.50		
7	88.80	176.16	248.93	202.03	210.07	181.92	922.80	778.00	433.08	36.20	35.40	64.00		
8	94.40	176.16	243.57	200.02	198.68	184.48	940.40	801.20	373.22	33.40	31.40	61.50		
9	89.36	171.04	252.28	194.08	194.72	206.05	956.40	818.80	348.80	35.00	34.60	63.00		
10	89.36	172.96	265.84	188.32	188.32	244.24	966.00	823.20	304.89	48.00	29.80	70.00		
11	63.00	174.24	272.23	181.28	172.32	242.90	969.60	829.80	260.32	52.00	29.80	63.50		
12	68.00	162.72	280.75	174.24	169.12	259.65	976.80	834.30	233.52	46.60	40.60	64.00		
13	56.50	146.08	293.53	171.68	175.52	312.70	976.80	832.00	220.12	48.50	61.00	63.50		
14	55.50	134.56	306.31	171.68	226.82	347.32	969.60	827.60	218.11	51.00	54.50	68.50		
15	48.00	128.16	302.05	174.24	206.72	378.40	962.80	825.40	204.04	56.00	57.50	79.84		
16	47.00	133.92	287.14	163.36	145.44	454.36	953.20	823.20	181.92	53.00	70.50	82.64		
17	51.50	139.68	276.49	161.44	109.60	547.00	943.60	814.40	170.40	61.00	64.00	81.52		
18	46.20	140.96	275.78	179.36	94.40	704.80	931.20	807.80	167.84	51.50	67.00	80.40		
19	50.00	141.60	309.86	185.12	98.88	829.80	917.20	796.80	186.40	58.00	65.50	73.12		
20	52.00	162.08	332.58	216.77	158.24	911.60	900.80	780.00	190.88	60.00	53.00	75.92		
21	56.50	175.52	324.77	279.33	196.00	998.40	875.00	759.00	178.72	55.50	50.00	65.00		
22	59.00	210.07	298.50	287.14	230.84	1028.60	845.80	733.00	171.04	60.50	52.50	73.68		
23	70.00	218.11	275.07	280.75	239.55	1028.60	810.00	704.80	157.60	57.00	44.20	77.60		
24	95.52	232.18	244.24	256.97	237.54	1021.00	757.20	681.10	145.44	56.50	49.00	70.50		
25	87.68	265.84	230.84	232.18	213.42	1002.00	706.40	664.72	133.28	58.50	56.50	74.24		
26	85.44	295.66	228.16	204.71	188.96	966.00	669.76	649.60	131.36	59.00	54.00	84.32		
27	83.76	315.54	219.45	188.96	175.52	922.80	638.26	638.26	124.32	57.00	44.20	81.52		
28	84.88	321.22	216.10	206.72	178.08	898.20	614.32	621.88	126.24	61.50	41.40	83.20		
29	174.24	301.34	210.07	195.36	187.04	880.00	592.90	609.28	127.52	57.00		79.28		
30	226.82	270.10	185.76	180.64	190.88	857.50	582.82	592.90	134.56	52.00		80.40		
31		254.96		162.08	190.24		652.12		176.80	41.40		72.56		
Total	2366.42	6241.36	7826.98	6377.23	5834.52	16584.71	26313.68	22028.70	8315.66	1589.80	1294.00	2206.74	106979.80	CMSDAY
Mean	78.88	201.33	260.90	205.72	188.21	552.82	848.83	734.29	268.25	51.28	46.21	71.19	293.10	CMS
Max	226.82	321.22	332.58	287.14	247.59	1028.60	976.80	834.30	577.78	67.50	70.50	84.32	1028.60	CMS
Min	46.20	128.16	185.76	161.44	94.40	181.92	582.82	565.00	124.32	32.20	29.80	57.00	29.80	CMS
Runoff	204.46	539.25	676.25	550.99	504.10	1432.92	2273.50	1903.28	718.47	137.36	111.80	190.66	9243.05	MCM

Momentary Peak 1028.60 CMS, at 150.37 m. (MSL.), at 09.00 Hours, on Sep 22, 2008

Runoff Yield 10.02 Liters/Second/Square KM. Momentary Peak Yield 35.15 Liters/Second/Square KM.

WATER YEAR : 2008

CHI RIVER BASIN

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

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

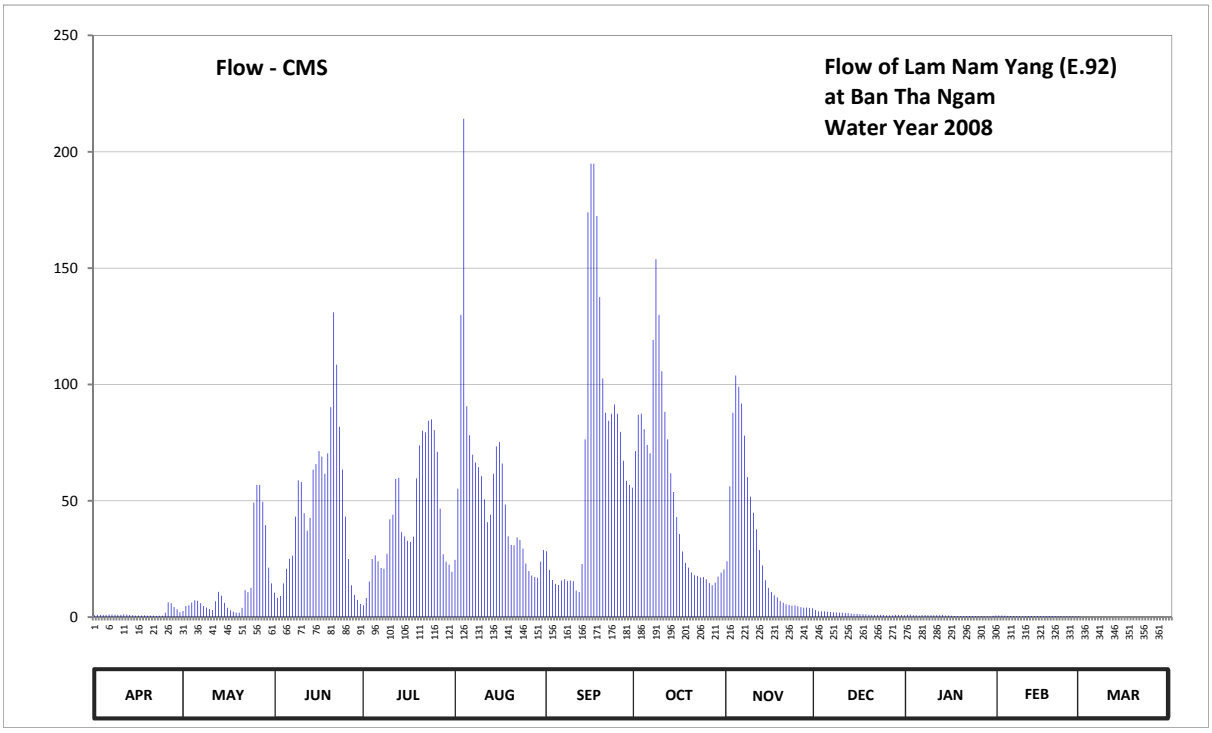
Location : on right bank at the bridge.

	Ban Tha Ngam	**Amphoe** Selaphum	**Changwat** Roi Et
Drainge 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 Float	-		
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 29 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	126.17	126.52	127.79	127.01	129.04	129.27	131.57	129.00	126.61	126.21	126.14	125.83	
2	126.21	126.95	127.46	127.46	130.76	128.69	132.25	130.81	126.50	126.22	126.14	125.85	
3	126.19	127.01	127.58	128.27	132.89	128.33	132.26	132.27	126.49	126.17	126.12	125.84	
4	126.19	127.18	128.21	129.06	133.41	128.19	132.04	132.58	126.49	126.16	126.10	125.83	
5	126.19	127.32	128.73	129.16	132.34	128.15	131.70	132.50	126.47	126.14	126.10	125.83	
6	126.22	127.29	129.07	129.00	131.91	128.31	131.52	132.37	126.44	126.18	126.10	125.79	
7	126.22	127.14	129.15	128.76	131.49	128.35	132.79	131.90	126.41	126.18	126.07	125.76	
8	126.20	126.95	130.16	128.73	131.32	128.29	133.07	131.01	126.40	126.16	126.05	125.75	
9	126.19	126.83	130.94	129.20	131.22	128.31	132.89	130.59	126.39	126.16	126.04	125.75	
10	126.19	126.68	130.90	130.10	131.03	128.29	132.61	130.24	126.38	126.16	126.05	125.74	
11	126.23	126.61	130.23	130.20	130.53	127.92	132.28	129.86	126.35	126.16	126.09	125.75	
12	126.22	127.26	129.82	130.97	130.04	127.83	131.82	129.30	126.34	126.17	126.09	125.75	
13	126.19	127.84	130.13	130.99	130.20	128.90	131.09	128.85	126.30	126.19	126.09	125.75	
14	126.16	127.60	131.17	129.78	131.08	131.82	130.69	128.32	126.28	126.14	126.10	125.74	
15	126.13	127.16	131.29	129.67	131.67	133.20	130.15	128.05	126.27	126.14	126.06	125.73	
16	126.13	126.80	131.57	129.55	131.76	133.31	129.73	127.83	126.25	126.12	126.06	125.74	
17	126.14	126.59	131.45	129.52	131.30	133.31	129.26	127.63	126.25	126.10	126.09	125.74	
18	126.15	126.47	131.08	129.66	130.42	133.19	128.94	127.49	126.23	126.07	126.09	125.74	
19	126.12	126.38	131.52	130.98	129.67	132.95	128.77	127.28	126.20	126.05	126.09	125.73	
20	126.13	126.39	132.33	131.69	129.44	132.56	128.59	127.17	126.18	126.06	126.07	125.73	
21	126.13	126.79	132.90	132.01	129.43	132.27	128.50	127.07	126.19	126.10	126.07	125.73	
22	126.11	127.95	132.65	131.97	129.64	132.18	128.48	127.03	126.19	126.10	126.06	125.72	
23	126.12	127.82	132.09	132.18	129.57	132.26	128.42	126.99	126.19	126.08	126.04	125.71	
24	126.12	128.05	131.17	132.20	129.34	132.36	128.43	127.00	126.18	126.07	126.04	125.72	
25	126.37	130.46	130.16	132.02	128.92	132.26	128.35	126.93	126.16	126.06	126.05	125.73	
26	127.19	130.84	129.06	131.55	128.65	131.98	128.22	126.85	126.15	126.06	126.04	125.73	
27	127.14	130.84	128.14	130.33	128.49	131.36	128.14	126.81	126.15	126.05	126.03	125.75	
28	126.86	130.48	127.65	129.19	128.44	130.93	128.24	126.83	126.19	126.04	126.03	125.75	
29	126.67	129.97	127.34	128.99	128.41	130.84	128.45	126.79	126.19	126.04		125.74	
30	126.41	128.77	127.09	128.88	128.99	130.78	128.59	126.75	126.18	126.11		125.74	
31		128.21		128.62	129.30		128.71		126.17	126.14		125.74	
Mean	126.29	127.71	129.96	129.93	130.35	130.55	130.21	128.80	126.30	126.12	126.08	125.76	
Max	127.19	130.84	132.90	132.20	133.41	133.31	133.07	132.58	126.61	126.22	126.14	125.85	133.41
Min	126.11	126.38	127.09	127.01	128.41	127.83	128.14	126.75	126.15	126.04	126.03	125.71	125.71

Annual Max Momentary Gage Height	133.50	m. (MSL.) ,	at 16.00 Hours, on Aug 4, 2008		
Zero Gage at Bottom Elevation	124.50	m. (MSL.) ,	River Bed	124.58	m. (MSL)
Left Bank Elevation	133.65	m. (MSL.) ,			
Right Bank Elevation	134.87	m. (MSL.) ,	Drainage Are	3,359	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.85	2.60	10.53	5.07	24.64	28.32	71.40	24.00	3.05	1.05	0.70	0.02		
2	1.05	4.75	8.22	8.22	55.20	20.28	87.00	56.20	2.50	1.10	0.70	0.03		
3	0.95	5.07	9.06	15.24	129.90	15.96	87.40	87.80	2.45	0.85	0.60	0.02		
4	0.95	6.26	14.52	24.96	214.20	14.28	80.80	103.80	2.45	0.80	0.50	0.02		
5	0.95	7.24	20.76	26.56	90.60	13.80	74.00	99.00	2.35	0.70	0.50	0.02		
6	1.10	7.03	25.12	24.00	78.20	15.72	70.40	91.80	2.20	0.90	0.50	0.00		
7	1.10	5.98	26.40	21.12	69.80	16.20	119.20	78.00	2.05	0.90	0.43	0.00		
8	1.00	4.75	43.20	20.76	66.40	15.48	153.80	60.20	2.00	0.80	0.38	0.00		
9	0.95	4.15	58.80	27.20	64.40	15.72	129.90	51.80	1.95	0.80	0.35	0.00		
10	0.95	3.40	58.00	42.00	60.60	15.48	105.70	44.80	1.90	0.80	0.38	0.00		
11	1.15	3.05	44.60	44.00	50.60	11.44	88.20	37.76	1.75	0.80	0.48	0.00		
12	1.10	6.82	37.12	59.40	40.80	10.81	76.40	28.80	1.70	0.85	0.48	0.00		
13	0.95	10.88	42.60	59.80	44.00	22.80	61.80	22.20	1.50	0.95	0.48	0.00		
14	0.80	9.20	63.40	36.48	61.60	76.40	53.80	15.84	1.40	0.70	0.50	0.00		
15	0.65	6.12	65.80	34.72	73.40	174.00	43.00	12.60	1.35	0.70	0.40	0.00		
16	0.65	4.00	71.40	32.80	75.20	194.90	35.68	10.81	1.25	0.60	0.40	0.00		
17	0.70	2.95	69.00	32.32	66.00	194.90	28.16	9.41	1.25	0.50	0.48	0.00		
18	0.75	2.35	61.60	34.56	48.40	172.40	23.28	8.43	1.15	0.43	0.48	0.00		
19	0.60	1.90	70.40	59.60	34.72	137.50	21.24	6.96	1.00	0.38	0.48	0.00		
20	0.65	1.95	90.20	73.80	31.04	102.60	19.08	6.19	0.90	0.40	0.43	0.00		
21	0.65	3.95	131.00	80.20	30.88	87.80	18.00	5.49	0.95	0.50	0.43	0.00		
22	0.55	11.65	108.50	79.40	34.24	84.40	17.76	5.21	0.95	0.50	0.40	0.00		
23	0.60	10.74	81.80	84.40	33.12	87.40	17.04	4.95	0.95	0.45	0.35	0.00		
24	0.60	12.60	63.40	85.00	29.44	91.40	17.16	5.00	0.90	0.43	0.35	0.00		
25	1.85	49.20	43.20	80.40	23.04	87.40	16.20	4.65	0.80	0.40	0.38	0.00		
26	6.33	56.80	24.96	71.00	19.80	79.60	14.64	4.25	0.75	0.40	0.35	0.00		
27	5.98	56.80	13.68	46.60	17.88	67.20	13.68	4.05	0.75	0.38	0.33	0.00		
28	4.30	49.60	9.55	27.04	17.28	58.60	14.88	4.15	0.95	0.35	0.33	0.00		
29	3.35	39.52	7.38	23.88	16.92	56.80	17.40	3.95	0.95	0.35		0.00		
30	2.05	21.24	5.63	22.56	23.88	55.60	19.08	3.75	0.90	0.55		0.00		
31		14.52		19.44	28.80		20.52		0.85	0.70		0.00		
Total	44.11	427.07	1379.83	1302.53	1654.98	2025.19	1616.60	901.85	45.85	20.02	12.57	0.11	9430.71	CMSDAY
Mean	1.47	13.78	45.99	42.02	53.39	67.51	52.15	30.06	1.48	0.65	0.45	0.00	25.84	CMS
Max	6.33	56.80	131.00	85.00	214.20	194.90	153.80	103.80	3.05	1.10	0.70	0.03	214.20	CMS
Min	0.55	1.90	5.63	5.07	16.92	10.81	13.68	3.75	0.75	0.35	0.33	0.00	0.00	CMS
Runoff	3.81	36.90	119.22	112.54	142.99	174.98	139.67	77.92	3.96	1.73	1.09	0.01	814.81	MCM

Momentary Peak 234.00 CMS, at 133.50 m. (MSL), at 16.00 Hours, on Aug 4, 2008

Runoff Yield 7.69 Liters/Second/Square KM. Momentary Peak Yield 69.66 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

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

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

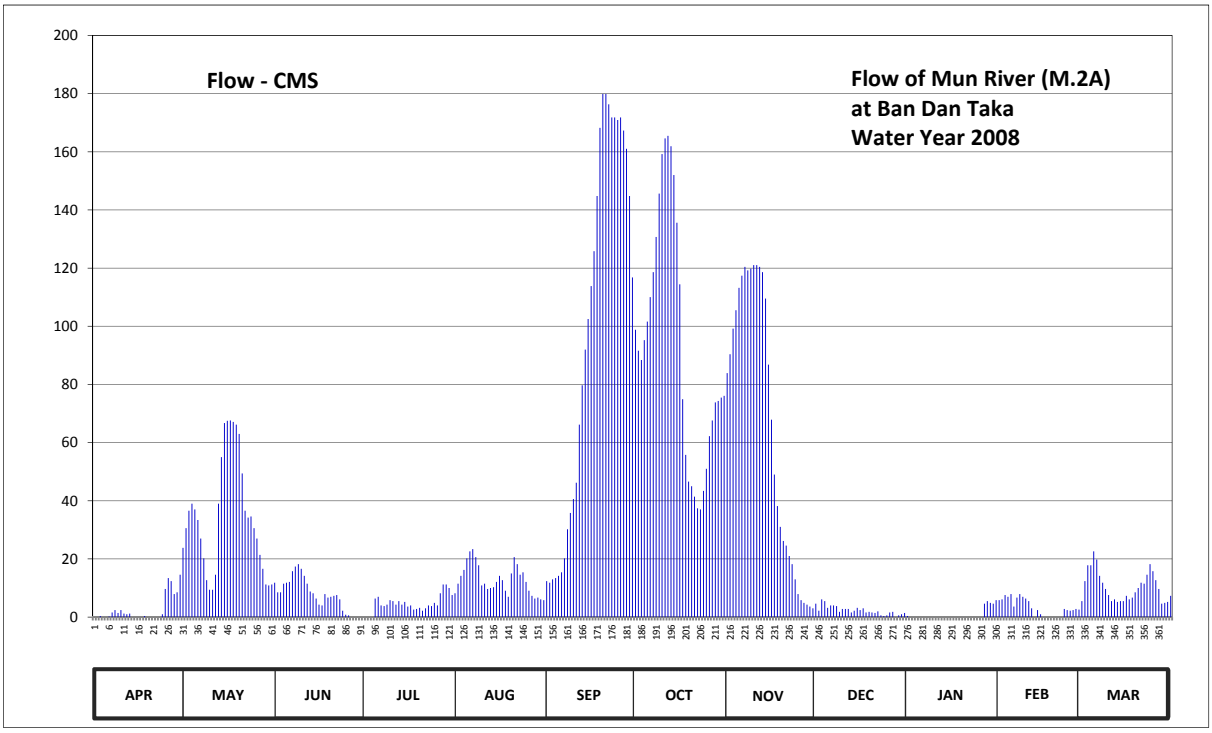
Location : on left bank at Ban Dan Taka.

	Ban Dan Taka	**Amphoe** Chaloem Phra Kiat	**Changwat** Nakhon Ratchasima
Drainge Area	4,724 sq.km.		
Type of Gage	Staff gage.		
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Float	-		
Rated by Current Meter	2001 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +166.190 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	162.90	163.77	163.46	162.86	163.34	163.48	166.12	165.73	163.22	163.02	163.26	163.25	
2	162.98	163.94	163.35	162.82	163.45	163.46	165.94	165.91	163.11	162.91	163.27	163.48	
3	163.02	164.09	163.35	162.80	163.53	163.50	165.86	166.13	163.27	162.81	163.32	163.62	
4	163.00	164.15	163.45	162.87	163.58	163.51	166.03	166.27	163.25	162.78	163.30	163.62	
5	162.93	164.10	163.46	163.28	163.68	163.53	166.19	166.42	163.16	162.66	163.33	163.74	
6	163.01	164.01	163.47	163.30	163.74	163.56	166.36	166.49	163.20	162.58	163.18	163.67	
7	163.08	163.85	163.57	163.20	163.76	163.68	166.51	166.54	163.20	162.56	163.29	163.53	
8	163.12	163.68	163.61	163.19	163.69	163.93	166.71	166.52	163.19	162.53	163.33	163.46	
9	163.07	163.49	163.63	163.21	163.62	164.07	166.92	166.53	163.09	162.51	163.30	163.39	
10	163.12	163.38	163.59	163.26	163.43	164.19	167.08	166.55	163.14	162.48	163.28	163.32	
11	163.06	163.38	163.53	163.25	163.45	164.33	167.14	166.55	163.14	162.43	163.25	163.25	
12	163.05	163.54	163.45	163.21	163.39	164.92	167.15	166.54	163.14	162.36	163.15	163.27	
13	163.06	164.15	163.36	163.25	163.40	165.59	167.11	166.51	163.08	162.29	162.98	163.24	
14	163.00	164.55	163.34	163.21	163.41	165.95	167.00	166.35	163.11	162.38	163.12	163.25	
15	162.93	164.97	163.28	163.24	163.47	166.21	166.78	165.82	163.16	162.46	163.05	163.25	
16	162.91	165.05	163.21	163.18	163.53	166.43	166.44	165.09	163.12	162.36	162.95	163.31	
17	162.99	165.06	163.20	163.20	163.49	166.63	165.43	164.40	163.15	162.33	162.90	163.27	
18	163.02	165.01	163.33	163.13	163.37	166.91	164.57	164.13	163.08	162.36	162.86	163.29	
19	162.99	164.92	163.29	163.14	163.30	167.18	164.34	163.95	163.09	162.40	162.87	163.35	
20	162.92	164.75	163.30	163.16	163.55	167.31	164.30	163.83	163.08	162.40	162.91	163.40	
21	162.82	164.41	163.31	163.11	163.69	167.31	164.21	163.79	163.07	162.40	162.87	163.46	
22	162.73	164.09	163.32	163.15	163.63	167.27	164.11	163.70	163.10	162.40	162.89	163.45	
23	162.70	164.03	163.27	163.20	163.54	167.22	164.10	163.63	163.03	162.40	163.14	163.54	
24	163.05	164.04	163.11	163.19	163.56	167.22	164.26	163.50	163.02	162.37	163.12	163.63	
25	163.39	163.94	163.04	163.23	163.47	167.21	164.45	163.33	163.03	162.35	163.11	163.57	
26	163.51	163.85	163.03	163.20	163.37	167.22	164.73	163.26	163.08	162.80	163.12	163.49	
27	163.48	163.71	162.98	163.34	163.31	167.17	165.06	163.23	163.09	163.22	163.14	163.39	
28	163.33	163.59	162.94	163.44	163.28	167.10	165.39	163.21	163.00	163.25	163.13	163.22	
29	163.35	163.44	162.91	163.44	163.29	166.91	165.41	163.18	163.03	163.23		163.23	
30	163.54	163.43	162.87	163.40	163.27	166.48	165.45	163.15	163.05	163.22		163.24	
31		163.44		163.32	163.26		165.47		163.07	163.26		163.31	
Mean	163.07	164.06	163.30	163.19	163.48	165.65	165.70	165.01	163.11	162.63	163.12	163.40	
Max	163.54	165.06	163.63	163.44	163.76	167.31	167.15	166.55	163.27	163.26	163.33	163.74	167.31
Min	162.70	163.38	162.87	162.80	163.26	163.46	164.10	163.15	163.00	162.29	162.86	163.22	162.29

Annual Max Momentary Gage Height	167.32	m. (MSL.) ,	at 18.00 Hours , on Sep 20, 2008		
Zero Gage at Bottom Elevation	161.00	m. (MSL.) ,	River Bed	159.64	m. (MSL.)
Left Bank Elevation	168.21	m. (MSL.) ,			
Right Bank Elevation	166.18	m. (MSL.) ,	Drainage Are	4,724	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	23.80	11.80	0.00	8.20	12.40	98.80	83.90	4.60	0.40	5.80	5.50		
2	0.00	30.60	8.50	0.00	11.50	11.80	91.60	90.40	2.20	0.00	6.10	12.40		
3	0.40	36.60	8.50	0.00	14.20	13.00	88.40	99.20	6.10	0.00	7.60	17.80		
4	0.00	39.00	11.50	0.00	16.20	13.40	95.20	105.50	5.50	0.00	7.00	17.80		
5	0.00	37.00	11.80	6.40	20.20	14.20	101.60	113.20	3.20	0.00	7.90	22.60		
6	0.20	33.40	12.10	7.00	22.60	15.40	110.00	117.40	4.00	0.00	3.60	19.80		
7	1.60	27.00	15.80	4.00	23.40	20.20	118.60	120.40	4.00	0.00	6.70	14.20		
8	2.40	20.20	17.40	3.80	20.60	30.20	130.70	119.20	3.80	0.00	7.90	11.80		
9	1.40	12.70	18.20	4.30	17.80	35.80	145.60	119.80	1.80	0.00	7.00	9.70		
10	2.40	9.40	16.60	5.80	10.90	40.60	159.20	121.00	2.80	0.00	6.40	7.60		
11	1.20	9.40	14.20	5.50	11.50	46.20	164.60	121.00	2.80	0.00	5.50	5.50		
12	1.00	14.60	11.50	4.30	9.70	66.20	165.50	120.40	2.80	0.00	3.00	6.10		
13	1.20	39.00	8.80	5.50	10.00	79.70	161.90	118.60	1.60	0.00	0.00	5.20		
14	0.00	55.00	8.20	4.30	10.30	92.00	152.00	109.50	2.20	0.00	2.40	5.50		
15	0.00	66.70	6.40	5.20	12.10	102.50	135.60	86.80	3.20	0.00	1.00	5.50		
16	0.00	67.50	4.30	3.60	14.20	113.80	114.40	67.90	2.40	0.00	0.00	7.30		
17	0.00	67.60	4.00	4.00	12.70	125.80	74.90	49.00	3.00	0.00	0.00	6.10		
18	0.40	67.10	7.90	2.60	9.10	144.80	55.80	38.20	1.60	0.00	0.00	6.70		
19	0.00	66.20	6.70	2.80	7.00	168.20	46.60	31.00	1.80	0.00	0.00	8.50		
20	0.00	63.00	7.00	3.20	15.00	179.90	45.00	26.20	1.60	0.00	0.00	10.00		
21	0.00	49.40	7.30	2.20	20.60	179.90	41.40	24.60	1.40	0.00	0.00	11.80		
22	0.00	36.60	7.60	3.00	18.20	176.30	37.40	21.00	2.00	0.00	0.00	11.50		
23	0.00	34.20	6.10	4.00	14.60	171.80	37.00	18.20	0.60	0.00	2.80	14.60		
24	1.00	34.60	2.20	3.80	15.40	171.80	43.40	13.00	0.40	0.00	2.40	18.20		
25	9.70	30.60	0.80	4.90	12.10	170.90	51.00	7.90	0.60	0.00	2.20	15.80		
26	13.40	27.00	0.60	4.00	9.10	171.80	62.20	5.80	1.60	0.00	2.40	12.70		
27	12.40	21.40	0.00	8.20	7.30	167.30	67.60	4.90	1.80	4.60	2.80	9.70		
28	7.90	16.60	0.00	11.20	6.40	161.00	73.80	4.30	0.00	5.50	2.60	4.60		
29	8.50	11.20	0.00	11.20	6.70	144.80	74.30	3.60	0.60	4.90		4.90		
30	14.60	10.90	0.00	10.00	6.10	116.80	75.50	3.00	1.00	4.60		5.20		
31		11.20		7.60	5.80		76.10		1.40	5.80		7.30		
Total	79.70	1069.50	235.80	142.40	399.50	2958.50	2895.70	1964.90	72.40	25.80	93.10	321.90	10259.20	CMSDAY
Mean	2.66	34.50	7.86	4.59	12.89	98.62	93.41	65.50	2.34	0.83	3.33	10.38	28.11	CMS
Max	14.60	67.60	18.20	11.20	23.40	179.90	165.50	121.00	6.10	5.80	7.90	22.60	179.90	CMS
Min	0.00	9.40	0.00	0.00	5.80	11.80	37.00	3.00	0.00	0.00	0.00	4.60	0.00	CMS
Runoff	6.89	92.40	20.37	12.30	34.52	255.61	250.19	169.77	6.26	2.23	8.04	27.81	886.39	MCM

Momentary Peak 180.80 CMS. at 167.32 m. (MSL.) at 18.00 Hours , on Sep 20, 2008

Runoff Yield 5.95 Liters/Second/Square KM. Momentary Peak Yield 38.27 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	34,654 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+117.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the gage site. **Elevation** +126.927 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	1996-1997, 2005 to date
Rating Operation	
Period of Rating	1996-1997, 2005 to date
Rated by Float	-
Rated by Current Meter	1996-1997, 2005 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +123.260 m.(MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

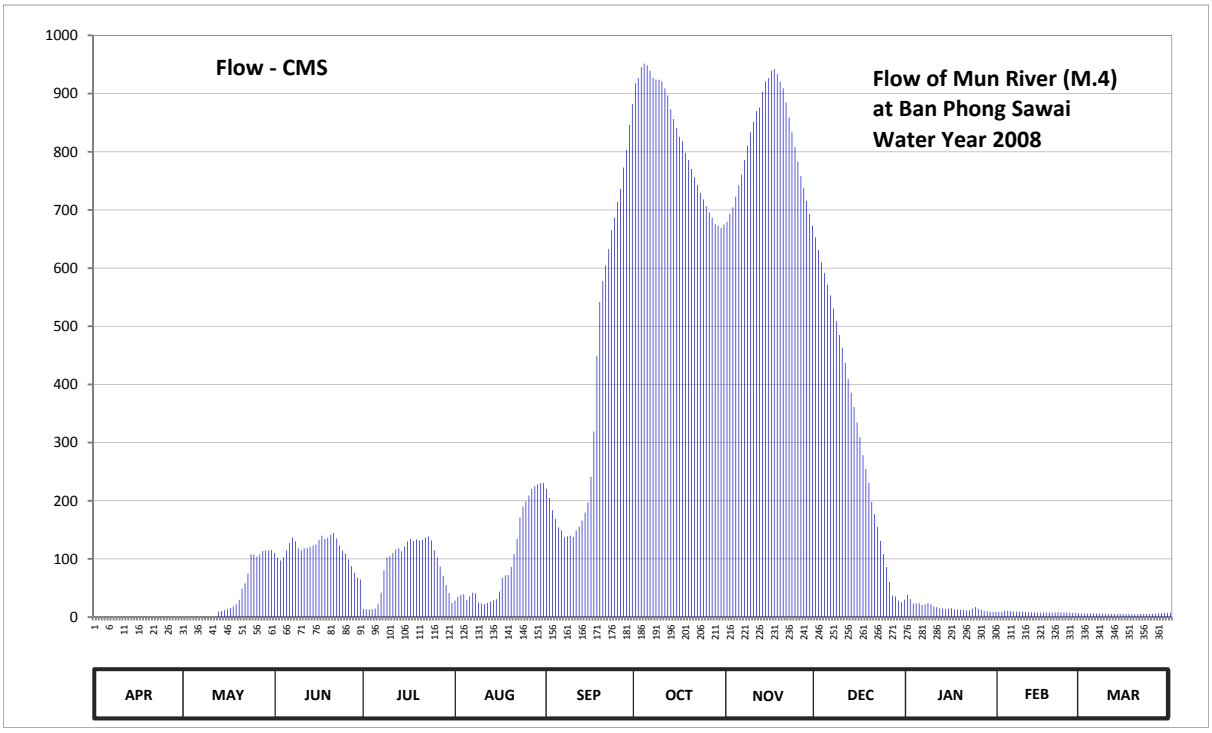
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.63	117.74	119.68	117.98	118.51	120.80	124.98	124.03	123.90	118.70	117.75	117.62	
2	117.63	117.74	119.59	117.97	118.65	120.66	125.01	124.09	123.79	118.57	117.77	117.62	
3	117.64	117.74	119.53	117.96	118.70	120.45	125.07	124.14	123.68	118.37	117.85	117.61	
4	117.65	117.74	119.60	117.96	118.72	120.30	125.09	124.22	123.58	118.39	117.85	117.61	
5	117.68	117.75	119.73	118.03	118.53	120.15	125.08	124.31	123.46	118.40	117.81	117.61	
6	117.70	117.75	119.87	118.34	118.66	120.10	125.05	124.39	123.35	118.30	117.77	117.60	
7	117.70	117.75	119.98	118.77	118.77	119.98	125.01	124.49	123.21	118.31	117.77	117.60	
8	117.70	117.76	119.90	119.32	118.75	120.00	125.00	124.59	123.07	118.40	117.77	117.58	
9	117.71	117.76	119.77	119.59	118.43	120.01	125.00	124.68	122.91	118.33	117.76	117.58	
10	117.71	117.75	119.73	119.62	118.38	119.99	124.99	124.75	122.76	118.21	117.74	117.58	
11	117.71	117.72	119.77	119.68	118.34	120.10	124.95	124.82	122.58	118.15	117.73	117.58	
12	117.70	117.73	119.78	119.75	118.41	120.17	124.91	124.84	122.37	118.06	117.71	117.58	
13	117.71	117.77	119.80	119.77	118.47	120.27	124.83	124.93	122.18	118.05	117.70	117.57	
14	117.71	117.82	119.82	119.71	118.53	120.41	124.77	124.99	121.98	118.02	117.69	117.60	
15	117.71	117.89	119.84	119.81	118.57	120.58	124.71	125.01	121.76	118.03	117.68	117.57	
16	117.71	117.98	119.93	119.90	118.80	120.98	124.65	125.05	121.55	118.07	117.69	117.56	
17	117.72	118.09	120.01	119.95	119.13	121.63	124.62	125.06	121.29	117.96	117.70	117.56	
18	117.72	118.20	119.95	119.91	119.20	122.66	124.54	125.03	121.09	117.94	117.70	117.55	
19	117.71	118.34	119.97	119.94	119.21	123.28	124.49	124.99	120.89	117.93	117.70	117.55	
20	117.71	118.54	120.03	119.92	119.39	123.50	124.43	124.95	120.59	117.90	117.69	117.55	
21	117.72	118.87	120.06	119.93	119.66	123.65	124.37	124.87	120.38	117.87	117.72	117.56	
22	117.72	119.00	119.96	119.97	119.95	123.80	124.31	124.78	120.16	117.88	117.71	117.56	
23	117.72	119.24	119.82	120.00	120.32	123.96	124.25	124.68	119.91	118.03	117.69	117.56	
24	117.72	119.66	119.73	119.92	120.51	124.06	124.20	124.58	119.66	118.17	117.68	117.57	
25	117.73	119.65	119.67	119.74	120.60	124.18	124.15	124.48	119.39	118.03	117.67	117.59	
26	117.73	119.61	119.55	119.59	120.70	124.28	124.10	124.38	119.04	117.93	117.66	117.61	
27	117.73	119.65	119.41	119.40	120.80	124.44	124.06	124.29	118.68	117.84	117.65	117.63	
28	117.74	119.72	119.26	119.19	120.84	124.56	124.01	124.19	118.66	117.79	117.64	117.64	
29	117.74	119.73	119.14	118.96	120.87	124.73	124.00	124.09	118.51	117.76		117.65	
30	117.74	119.73	119.10	118.76	120.89	124.86	123.98	124.00	118.44	117.75		117.66	
31		119.74		118.41	120.89		124.01		118.55	117.75		117.67	
Mean	117.70	118.46	119.73	119.28	119.36	121.95	124.60	124.59	121.33	118.09	117.72	117.59	
Max	117.74	119.74	120.06	120.00	120.89	124.86	125.09	125.06	123.90	118.70	117.85	117.67	125.09
Min	117.63	117.72	119.10	117.96	118.34	119.98	123.98	124.00	118.44	117.75	117.64	117.55	117.55

Annual Max Momentary Gage Height 125.09 m. (MSL.) , at 06.00 Hours , on Oct 4 , 2008

Zero Gage at Bottom Elevation 117.00 m. (MSL.) , River Bed 116.17 m. (MSL)

Left Bank Elevation 123.25 m. (MSL.) ,

Right Bank Elevation 126.23 m. (MSL.) , Drainage Are 34,654 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	110.20	13.60	28.40	220.50	918.00	679.75	653.00	38.00	9.00	6.40		
2	0.00	0.00	102.20	13.40	35.00	205.00	927.05	693.25	631.10	30.80	9.40	6.40		
3	0.00	0.00	97.40	13.20	38.00	184.00	945.35	704.50	610.20	23.10	11.00	6.20		
4	0.00	0.00	103.00	13.20	39.20	169.00	951.45	722.50	591.60	23.70	11.00	6.20		
5	0.00	0.00	114.70	14.60	29.20	154.00	948.40	742.75	571.20	24.00	10.20	6.20		
6	0.00	0.00	127.30	22.20	35.60	149.00	939.25	760.75	553.00	21.00	9.40	6.00		
7	0.00	0.00	137.20	42.20	42.20	137.20	927.05	785.50	530.60	21.30	9.40	6.00		
8	0.00	0.00	130.00	80.60	41.00	139.00	924.00	810.50	508.85	24.00	9.40	5.60		
9	0.00	0.00	118.30	102.20	25.20	140.00	924.00	833.40	484.95	21.90	9.20	5.60		
10	0.00	0.00	114.70	104.80	23.40	138.10	921.00	851.25	463.20	18.30	8.80	5.60		
11	0.00	0.00	118.30	110.20	22.20	149.00	909.00	870.00	437.10	17.00	8.60	5.60		
12	0.00	0.00	119.20	116.50	24.40	156.00	897.00	876.00	409.38	15.20	8.20	5.60		
13	0.00	9.40	121.00	118.30	26.80	166.00	873.00	903.00	385.82	15.00	8.00	5.40		
14	0.00	10.40	122.80	112.90	29.20	180.00	856.35	921.00	361.10	14.40	7.80	6.00		
15	0.00	11.80	124.60	121.90	30.80	197.00	841.05	927.05	334.70	14.60	7.60	5.40		
16	0.00	13.60	132.70	130.00	44.00	241.20	825.75	939.25	309.50	15.40	7.80	5.20		
17	0.00	15.80	140.00	134.50	67.10	319.10	818.10	942.30	278.30	13.20	8.00	5.20		
18	0.00	18.00	134.50	130.90	72.00	448.70	798.00	933.15	254.30	12.80	8.00	5.00		
19	0.00	22.20	136.30	133.60	72.70	541.80	785.50	921.00	230.85	12.60	8.00	5.00		
20	0.00	29.60	142.00	131.80	86.20	578.00	770.50	909.00	198.00	12.00	7.80	5.00		
21	0.00	48.90	145.00	132.70	108.40	604.50	756.25	885.00	177.00	11.40	8.40	5.20		
22	0.00	58.00	135.40	136.30	134.50	633.00	742.75	858.90	155.00	11.60	8.20	5.20		
23	0.00	74.80	122.80	139.00	171.00	665.00	729.25	833.40	130.90	14.60	7.80	5.20		
24	0.00	108.40	114.70	131.80	190.00	686.50	718.00	808.00	108.40	17.40	7.60	5.40		
25	0.00	107.50	109.30	115.60	199.00	713.50	706.75	783.00	86.20	14.60	7.40	5.80		
26	0.00	103.90	99.00	102.20	209.00	736.00	695.50	758.50	60.80	12.60	7.20	6.20		
27	0.00	107.50	87.80	87.00	220.50	773.00	686.50	738.25	36.80	10.80	7.00	6.60		
28	0.00	113.80	76.20	71.30	225.10	803.00	675.25	715.75	35.60	9.80	6.80	6.80		
29	0.00	114.70	67.80	55.20	228.55	846.15	673.00	693.25	28.40	9.20		7.00		
30	0.00	114.70	65.00	41.60	230.85	882.00	669.00	673.00	25.60	9.00		7.20		
31		115.60		24.40	230.85		675.25		30.00	9.00		7.40		
Total	0.00	1198.60	3469.40	2697.70	2960.35	11955.25	25427.30	24472.95	9671.45	518.30	237.00	181.60	82789.90	CMSDAY
Mean	0.00	38.66	115.65	87.02	95.50	398.51	820.24	815.76	311.98	16.72	8.46	5.86	226.82	CMS
Max	0.00	115.60	145.00	139.00	230.85	882.00	951.45	942.30	653.00	38.00	11.00	7.40	951.45	CMS
Min	0.00	0.00	65.00	13.20	22.20	137.20	669.00	673.00	25.60	9.00	6.80	5.00	0.00	CMS
Runoff	0.00	103.56	299.76	233.08	255.77	1032.93	2196.92	2114.46	835.61	44.78	20.48	15.69	7153.05	MCM

Momentary Peak 951.45 CMS. at 125.09 m. (MSL.) at 06.00 Hours , on Oct 4 , 2008

Runoff Yield 6.55 Liters/Second/Square KM. Momentary Peak Yield 27.46 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1955 to date
Rating Operation	
Period of Rating	1972 to date
Rated by Float	-
Rated by Current Meter	1972 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +118.150 m.(MSL.), records are channel flow only.
General Description	Records very good. Flow effected by Rasi Salai barrage about 10 kilometers above gage site. Stage-discharge relation defined by 32 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

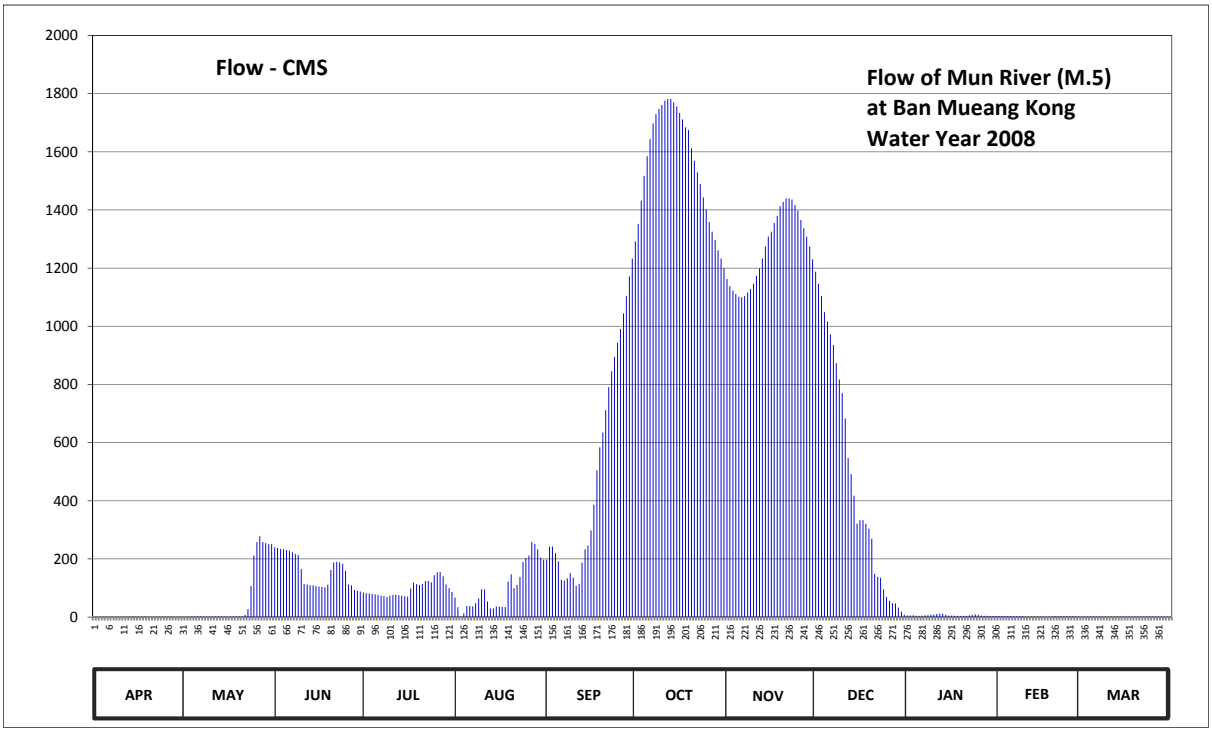
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.89	109.88	112.93	111.35	111.14	112.51	118.98	118.52	118.61	110.23	110.17	110.07	
2	109.89	109.91	112.90	111.32	110.72	112.95	119.19	118.43	118.46	110.23	110.16	110.07	
3	109.89	109.95	112.87	111.31	110.10	112.95	119.41	118.37	118.29	110.24	110.17	110.07	
4	109.99	110.05	112.86	111.29	110.37	112.73	119.63	118.32	118.05	110.21	110.17	110.07	
5	109.94	110.07	112.83	111.27	110.78	112.45	119.80	118.28	117.90	110.19	110.17	110.06	
6	109.92	110.09	112.81	111.25	110.77	111.82	119.93	118.27	117.69	110.21	110.16	110.06	
7	109.93	110.10	112.76	111.22	110.76	111.79	120.05	118.29	117.51	110.24	110.16	110.06	
8	109.93	110.07	112.70	111.20	110.91	111.87	120.12	118.34	117.20	110.25	110.16	110.06	
9	109.94	110.03	112.66	111.17	111.10	112.05	120.16	118.39	116.92	110.28	110.14	110.06	
10	109.94	110.04	112.19	111.22	111.48	111.89	120.19	118.46	116.68	110.30	110.08	110.06	
11	109.94	110.07	111.68	111.25	111.48	111.61	120.22	118.56	116.15	110.33	110.08	110.06	
12	109.95	110.08	111.66	111.26	110.98	111.68	120.23	118.65	115.26	110.35	110.07	110.05	
13	110.02	110.09	111.63	111.24	110.65	112.41	120.23	118.77	114.88	110.35	110.07	110.05	
14	110.04	110.06	111.62	111.22	110.66	112.86	120.21	118.92	114.37	110.28	110.07	110.05	
15	110.03	110.02	111.60	111.20	110.76	112.98	120.18	119.04	113.65	110.22	110.07	110.05	
16	110.02	110.03	111.58	111.18	110.75	113.46	120.13	119.10	113.75	110.22	110.07	110.05	
17	109.98	110.08	111.56	111.51	110.74	114.15	120.08	119.20	113.75	110.21	110.07	110.05	
18	109.96	110.10	111.55	111.72	110.73	114.97	120.02	119.27	113.65	110.20	110.07	110.05	
19	109.91	110.09	111.65	111.67	111.76	115.50	120.00	119.36	113.51	110.19	110.10	110.05	
20	109.89	110.09	112.16	111.64	112.01	115.84	119.86	119.40	113.21	110.19	110.13	110.05	
21	109.88	110.11	112.42	111.68	111.52	116.33	119.76	119.43	112.03	110.19	110.13	110.05	
22	109.88	110.27	112.44	111.78	111.64	116.79	119.66	119.43	111.92	110.23	110.13	110.04	
23	109.92	110.62	112.42	111.78	111.92	117.06	119.56	119.42	111.89	110.27	110.13	110.04	
24	109.95	111.60	112.37	111.73	112.43	117.31	119.44	119.37	111.47	110.31	110.12	110.04	
25	109.97	112.65	112.13	111.98	112.57	117.55	119.33	119.32	111.17	110.28	110.12	110.04	
26	109.98	113.10	111.66	112.08	112.65	117.78	119.21	119.23	111.01	110.22	110.12	110.04	
27	109.96	113.28	111.62	112.09	113.10	118.03	119.10	119.14	110.91	110.20	110.10	110.04	
28	109.95	113.10	111.45	111.94	113.04	118.29	119.00	119.04	110.90	110.19	110.06	110.04	
29	109.96	113.06	111.42	111.66	112.86	118.55	118.87	118.92	110.71	110.18		110.04	
30	109.94	113.03	111.39	111.52	112.58	118.77	118.77	118.76	110.47	110.17		110.02	
31		113.03		111.37	112.51		118.65		110.30	110.17		110.01	
Mean	109.95	110.80	112.12	111.49	111.47	114.50	119.68	118.87	114.27	110.24	110.12	110.05	
Max	110.04	113.28	112.93	112.09	113.10	118.77	120.23	119.43	118.61	110.35	110.17	110.07	120.23
Min	109.88	109.88	111.39	111.17	110.10	111.61	118.65	118.27	110.30	110.17	110.06	110.01	109.88

Annual Max Momentary Gage Height 120.24 m. (MSL.) , at 16.00 Hours , on Oct 12, 2008

Zero Gage at Bottom Elevation 110.00 m. (MSL.) , River Bed 109.04 m. (MSL.)

Left Bank Elevation 122.04 m. (MSL.) ,

Right Bank Elevation 118.14 m. (MSL.) , Drainage Are 45,295 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.45	0.40	240.49	84.75	66.90	197.23	1291.40	1162.60	1187.80	5.85	3.75	1.70		
2	0.45	0.55	237.40	82.20	33.90	242.55	1352.00	1138.10	1146.20	5.85	3.50	1.70		
3	0.45	0.75	234.31	81.35	2.00	242.55	1431.80	1122.80	1103.70	6.30	3.75	1.70		
4	0.95	1.50	233.28	79.65	12.85	219.89	1517.00	1110.80	1048.50	4.95	3.75	1.70		
5	0.70	1.70	230.19	77.95	38.10	191.20	1585.00	1101.40	1016.00	4.25	3.75	1.60		
6	0.60	1.90	228.13	76.25	37.40	128.20	1643.50	1099.10	971.90	4.95	3.50	1.60		
7	0.65	2.00	222.98	73.70	36.70	125.20	1697.50	1103.70	935.00	6.30	3.50	1.60		
8	0.65	1.70	216.80	72.00	47.80	133.20	1729.00	1115.60	873.00	6.75	3.50	1.60		
9	0.70	1.30	212.68	69.45	63.50	151.20	1747.00	1127.60	817.00	8.10	3.00	1.60		
10	0.70	1.40	165.20	73.70	95.80	135.20	1760.50	1146.20	769.90	9.00	1.80	1.60		
11	0.70	1.70	114.33	76.25	95.80	107.79	1776.00	1173.80	682.50	10.65	1.80	1.60		
12	0.75	1.80	112.46	77.10	53.40	114.33	1781.50	1199.00	547.50	11.75	1.70	1.50		
13	1.20	1.90	109.66	75.40	29.50	187.20	1781.50	1232.60	491.60	11.75	1.70	1.50		
14	1.40	1.60	108.72	73.70	30.10	233.28	1770.50	1274.60	417.65	8.10	1.70	1.50		
15	1.30	1.20	106.85	72.00	36.70	245.64	1756.00	1308.20	321.00	5.40	1.70	1.50		
16	1.20	1.30	104.98	70.30	36.00	298.40	1733.50	1325.00	333.25	5.40	1.70	1.50		
17	0.90	1.80	103.11	98.44	35.30	386.00	1711.00	1355.00	333.25	4.95	1.70	1.50		
18	0.80	2.00	102.18	118.20	34.60	504.65	1684.00	1379.50	321.00	4.50	1.70	1.50		
19	0.55	1.90	111.53	113.40	122.20	583.50	1675.00	1412.80	304.20	4.25	2.00	1.50		
20	0.45	1.90	162.20	110.59	147.20	634.50	1612.00	1428.00	269.65	4.25	2.75	1.50		
21	0.40	2.25	188.20	114.33	99.37	711.30	1569.00	1439.40	149.20	4.25	2.75	1.50		
22	0.40	7.65	190.20	124.20	110.59	791.05	1529.00	1439.40	138.20	5.85	2.75	1.40		
23	0.60	27.70	188.20	124.20	138.20	845.00	1489.40	1435.60	135.20	7.65	2.75	1.40		
24	0.75	106.85	183.20	119.20	189.20	895.00	1443.20	1416.60	94.95	9.55	2.50	1.40		
25	0.85	211.65	159.20	144.20	203.41	943.00	1401.40	1397.60	69.45	8.10	2.50	1.40		
26	0.90	258.10	112.46	154.20	211.65	990.80	1358.50	1365.50	55.85	5.40	2.50	1.40		
27	0.80	277.70	108.72	155.20	258.10	1043.90	1325.00	1337.00	47.80	4.50	2.00	1.40		
28	0.75	258.10	93.25	140.20	251.86	1103.70	1297.00	1308.20	47.00	4.25	1.60	1.40		
29	0.80	253.94	90.70	112.46	233.28	1171.00	1260.60	1274.60	33.20	4.00		1.40		
30	0.70	250.82	88.15	99.37	204.44	1232.60	1232.60	1229.80	18.70	3.75		1.20		
31		250.82		86.45	197.23		1199.00		9.00	3.75		1.10		
Total	22.50	1935.88	4759.76	3030.39	3153.08	14789.06	48140.40	37960.10	14689.15	194.35	71.60	46.50	128792.77	CMSDAY
Mean	0.75	62.45	158.66	97.75	101.71	492.97	1552.92	1265.34	473.84	6.27	2.56	1.50	352.86	CMS
Max	1.40	277.70	240.49	155.20	258.10	1232.60	1781.50	1439.40	1187.80	11.75	3.75	1.70	1781.50	CMS
Min	0.40	0.40	88.15	69.45	2.00	107.79	1199.00	1099.10	9.00	3.75	1.60	1.10	0.40	CMS
Runoff	1.94	167.26	411.24	261.83	272.43	1277.77	4159.33	3279.75	1269.14	16.79	6.19	4.02	11127.70	MCM

Momentary Peak 1787.00 CMS. at 120.24 m. (MSL.) at 16.00 Hours , on Oct 12, 2008

Runoff Yield 7.79 Liters/Second/Square KM. Momentary Peak Yield 39.45 Liters/Second/Square KM.

WATER YEAR : 2008

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.

Ban Satuk **Amphoe** Satuk **Changwat** Buri Ram

Drainge Area	28,458 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+124.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the footpath of the bridge. **Elevation** +133.541 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 mean of 5 readings
Period of Available Gage Records	1964 to date
Rating Operation	
Period of Rating	1976 to date
Rated by Float	-
Rated by Current Meter	1976 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +127.540 m.(MSL.), records are channel flow only.
General Description	Records very good. Ban Hua Saphan weir situated about 30 Kilometers above gage site and Non Kho weir situated about 10 kilometers downstream from the gage sit. Stage-discharge relation defined by 42 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

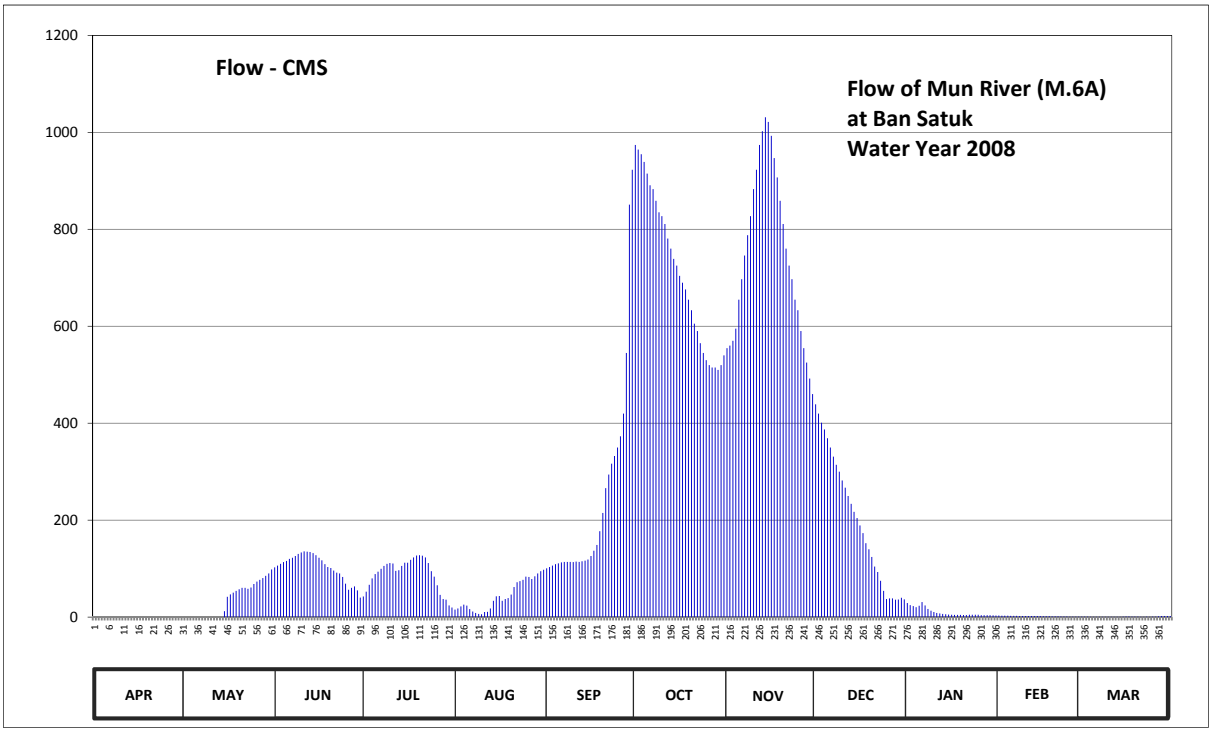
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.63	123.65	126.21	125.13	124.45	126.18	130.42	129.81	129.53	124.80	124.01	123.80	
2	123.63	123.65	126.27	125.33	124.52	126.22	130.41	129.82	129.46	124.69	124.00	123.80	
3	123.64	123.65	126.33	125.61	124.63	126.27	130.40	129.84	129.38	124.64	123.99	123.79	
4	123.64	123.64	126.39	125.83	124.72	126.32	130.38	129.89	129.31	124.59	123.98	123.78	
5	123.64	123.64	126.43	125.98	124.67	126.35	130.35	130.00	129.22	124.66	123.97	123.77	
6	123.64	123.63	126.50	126.06	124.48	126.38	130.32	130.06	129.10	124.85	123.96	123.77	
7	123.65	123.63	126.54	126.16	124.32	126.40	130.31	130.13	128.97	124.68	123.95	123.77	
8	123.65	123.62	126.60	126.26	124.22	126.40	130.28	130.19	128.83	124.49	123.94	123.77	
9	123.65	123.62	126.67	126.33	124.15	126.40	130.25	130.24	128.70	124.37	123.94	123.77	
10	123.64	123.61	126.72	126.36	124.13	126.39	130.24	130.31	128.52	124.28	123.93	123.77	
11	123.63	123.61	126.76	126.34	124.28	126.41	130.22	130.36	128.37	124.22	123.93	123.76	
12	123.63	123.61	126.75	126.09	124.30	126.40	130.18	130.42	128.20	124.19	123.93	123.77	
13	123.63	123.61	126.74	126.11	124.52	126.42	130.15	130.45	128.03	124.15	123.92	123.77	
14	123.63	123.65	126.70	126.26	124.92	126.44	130.12	130.48	127.84	124.13	123.92	123.78	
15	123.62	124.34	126.63	126.37	125.14	126.48	130.10	130.47	127.68	124.11	123.92	123.80	
16	123.62	125.12	126.54	126.37	125.15	126.60	130.07	130.44	127.49	124.09	123.90	123.82	
17	123.62	125.22	126.45	126.47	124.92	126.78	130.05	130.39	127.29	124.08	123.89	123.82	
18	123.62	125.29	126.32	126.55	125.01	126.97	130.03	130.34	127.02	124.08	123.88	123.81	
19	123.61	125.36	126.22	126.62	125.06	127.34	130.00	130.28	126.83	124.08	123.87	123.80	
20	123.61	125.43	126.19	126.63	125.21	127.81	129.96	130.22	126.57	124.06	123.86	123.79	
21	123.61	125.49	126.10	126.61	125.52	128.36	129.91	130.15	126.24	124.07	123.85	123.78	
22	123.60	125.49	126.03	126.55	125.70	128.64	129.88	130.10	126.05	124.09	123.84	123.78	
23	123.60	125.45	126.00	126.36	125.74	128.85	129.83	130.06	125.75	124.09	123.83	123.79	
24	123.60	125.50	125.88	126.08	125.78	128.98	129.79	130.00	125.36	124.10	123.82	123.78	
25	123.62	125.64	125.65	125.89	125.89	129.10	129.76	129.96	125.01	124.09	123.81	123.80	
26	123.62	125.72	125.41	125.59	125.88	129.24	129.74	129.88	125.04	124.05	123.81	123.81	
27	123.62	125.78	125.49	125.20	125.81	129.46	129.73	129.81	125.04	124.05	123.81	123.86	
28	123.63	125.84	125.55	125.01	125.90	129.79	129.73	129.75	124.97	124.05	123.81	123.92	
29	123.63	125.92	125.38	124.97	126.00	130.27	129.72	129.68	124.98	124.04		123.94	
30	123.65	126.00	125.08	124.68	126.08	130.36	129.74	129.60	125.07	124.03		123.93	
31		126.14		124.57	126.13		129.78		124.99	124.01		123.91	
Mean	123.63	124.66	126.22	125.95	125.07	127.47	130.06	130.10	127.25	124.26	123.90	123.81	
Max	123.65	126.14	126.76	126.63	126.13	130.36	130.42	130.48	129.53	124.85	124.01	123.94	130.48
Min	123.60	123.61	125.08	124.57	124.13	126.18	129.72	129.60	124.97	124.01	123.81	123.76	123.60

Annual Max Momentary Gage Height 130.48 m. (MSL.) , at 06.00 Hours , on Nov 14, 2008

Zero Gage at Bottom Elevation 124.00 m. (MSL.) , River Bed 121.41 m. (MSL.)

Left Bank Elevation 127.53 m. (MSL.) ,

Right Bank Elevation 132.17 m. (MSL.) , Drainage Are 28,458 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	102.60	42.50	15.50	100.80	974.01	555.00	439.00	29.00	3.20	1.00		
2	0.00	0.00	106.20	52.50	17.80	103.20	964.51	560.00	420.00	24.60	3.00	1.00		
3	0.00	0.00	109.80	66.60	22.20	106.20	955.00	570.00	401.00	22.60	2.90	0.90		
4	0.00	0.00	113.40	79.80	25.80	109.20	939.01	595.00	387.00	20.60	2.80	0.80		
5	0.00	0.00	115.80	88.80	23.80	111.00	915.00	655.00	369.00	23.40	2.70	0.70		
6	0.00	0.00	120.00	93.60	16.40	112.80	891.00	697.00	350.00	31.00	2.60	0.70		
7	0.00	0.00	122.40	99.60	11.60	114.00	883.00	746.00	331.10	24.20	2.50	0.70		
8	0.00	0.00	126.00	105.60	8.60	114.00	859.00	788.00	314.30	16.70	2.40	0.70		
9	0.00	0.00	130.20	109.80	6.50	114.00	835.00	827.00	300.00	13.10	2.40	0.70		
10	0.00	0.00	133.20	111.60	5.90	113.40	827.00	883.00	282.00	10.40	2.30	0.70		
11	0.00	0.00	135.60	110.40	10.40	114.60	811.00	923.00	267.00	8.60	2.30	0.60		
12	0.00	0.00	135.00	95.40	11.00	114.00	781.00	974.01	250.00	7.70	2.30	0.70		
13	0.00	0.00	134.40	96.60	17.80	115.20	760.00	1002.50	233.70	6.50	2.20	0.70		
14	0.00	0.00	132.00	105.60	33.80	116.40	739.00	1031.00	217.20	5.90	2.20	0.80		
15	0.00	12.20	127.80	112.20	43.00	118.80	725.00	1021.50	204.40	5.30	2.20	1.00		
16	0.00	42.00	122.40	112.20	43.50	126.00	704.00	993.00	189.20	4.80	2.00	1.20		
17	0.00	47.00	117.00	118.20	33.80	136.80	690.00	947.01	173.20	4.60	1.90	1.20		
18	0.00	50.50	109.20	123.00	37.40	148.90	676.00	907.00	152.40	4.60	1.80	1.10		
19	0.00	54.00	103.20	127.20	39.40	177.20	655.00	859.00	139.80	4.60	1.70	1.00		
20	0.00	57.50	101.40	127.80	46.50	214.80	633.00	811.00	124.20	4.20	1.60	0.90		
21	0.00	60.50	96.00	126.60	62.00	266.00	605.50	760.00	104.40	4.40	1.50	0.80		
22	0.00	60.50	91.80	123.00	72.00	294.00	590.00	725.00	93.00	4.80	1.40	0.80		
23	0.00	58.50	90.00	111.60	74.40	316.50	565.00	697.00	75.00	4.80	1.30	0.90		
24	0.00	61.00	82.80	94.80	76.80	332.40	545.00	655.00	54.00	5.00	1.20	0.80		
25	0.00	68.40	69.00	83.40	83.40	350.00	530.00	633.00	37.40	4.80	1.10	1.00		
26	0.00	73.20	56.50	65.50	82.80	373.00	520.00	590.00	38.60	4.00	1.10	1.10		
27	0.00	76.80	60.50	46.00	78.60	420.00	515.00	555.00	38.60	4.00	1.10	1.60		
28	0.00	80.40	63.50	37.40	84.00	545.00	515.00	525.00	35.80	4.00	1.10	2.20		
29	0.00	85.20	55.00	35.80	90.00	851.00	510.00	492.00	36.20	3.80		2.40		
30	0.00	90.00	40.20	24.20	94.80	923.00	520.00	460.00	39.80	3.60		2.30		
31		98.40		19.80	97.80		540.00		36.60	3.20		2.10		
Total	0.00	1076.10	3102.90	2747.10	1367.30	7152.20	22172.03	22437.02	6133.90	318.80	56.80	33.10	66597.25	CMSDAY
Mean	0.00	34.71	103.43	88.62	44.11	238.41	715.23	747.90	197.87	10.28	2.03	1.07	182.46	CMS
Max	0.00	98.40	135.60	127.80	97.80	923.00	974.01	1031.00	439.00	31.00	3.20	2.40	1031.00	CMS
Min	0.00	0.00	40.20	19.80	5.90	100.80	510.00	460.00	35.80	3.20	1.10	0.60	0.00	CMS
Runoff	0.00	92.98	268.09	237.35	118.13	617.95	1915.66	1938.56	529.97	27.54	4.91	2.86	5754.00	MCM

Momentary Peak 1031.00 CMS. at 130.48 m. (MSL.) at 06.00 Hours , on Nov 14, 2008

Runoff Yield 6.41 Liters/Second/Square KM. Momentary Peak Yield 36.23 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

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

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

Location : on left bank at Seri Prachathipatai Bridge.

Ban Chumchondeengam **Amphoe** Warin Chamrap **Changwat** Ubon Ratchathani

Drainge Area	107,345 sq.km.
Type of Gage	Staff gage.
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 Bridg **Elevation** +117.645 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 mean of 5 readings
Period of Available Gage Records	1944 to date
Rating Operation	
Period of Rating	1956 - 1958, 1964 - 1981, 1983 to date
Rated by Float	-
Rated by Current Meter	1956 - 1958, 1964 - 1981, 1983 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +111.360 m.(MSL.) and is including overbank flow.
General Description	Records very good. Pak Mun barrage situated about 90 kilometers downstream from the gage site. Stage-discharge relation defined by 28 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

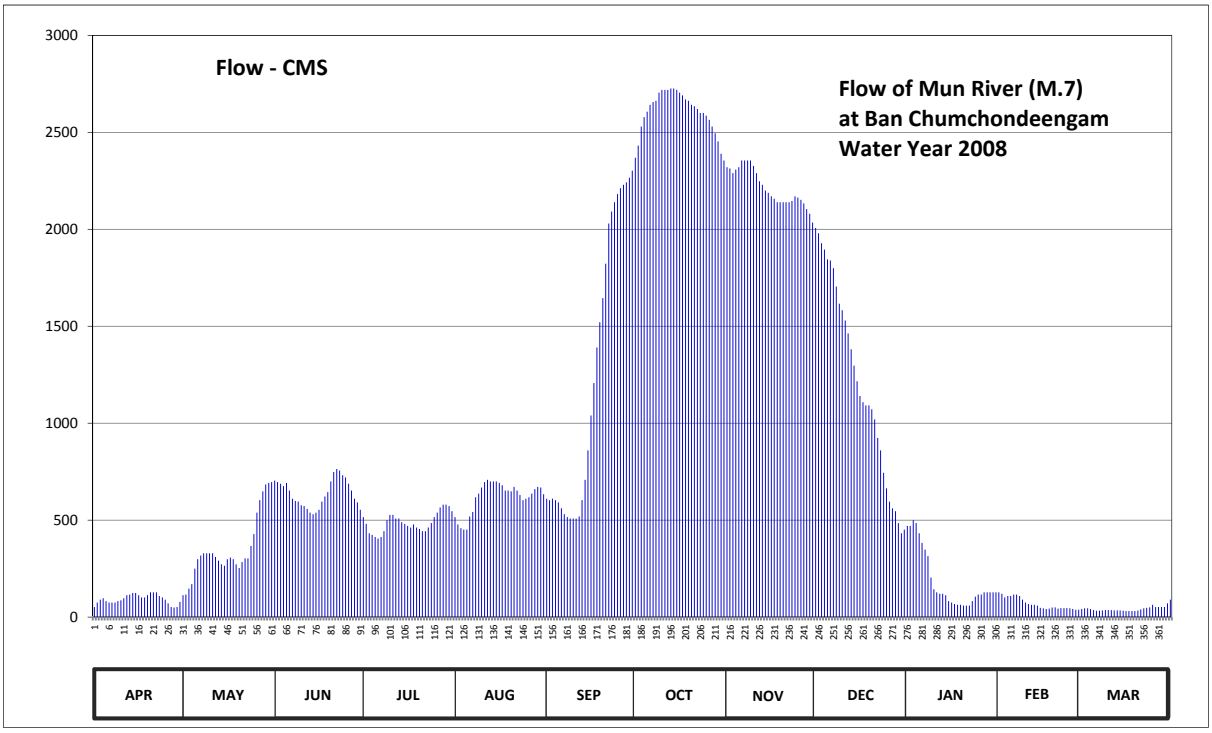
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	106.80	106.96	108.51	108.02	108.02	108.27	111.97	111.90	111.37	107.90	107.00	106.73	
2	106.86	106.97	108.49	107.93	107.92	108.25	112.06	111.89	111.32	107.90	106.98	106.75	
3	106.90	107.05	108.47	107.80	107.87	108.27	112.20	111.85	111.23	107.98	106.93	106.75	
4	106.92	107.11	108.44	107.78	107.85	108.25	112.27	111.88	111.17	107.94	106.95	106.72	
5	106.88	107.32	108.48	107.75	107.85	108.22	112.31	111.90	111.08	107.80	106.95	106.68	
6	106.86	107.45	108.38	107.73	108.03	108.14	112.36	111.95	111.07	107.67	106.97	106.65	
7	106.86	107.50	108.27	107.75	108.09	108.06	112.38	111.95	111.00	107.58	106.97	106.65	
8	106.86	107.53	108.24	107.83	108.29	108.02	112.39	111.95	110.81	107.49	106.95	106.67	
9	106.88	107.53	108.23	107.98	108.34	108.00	112.45	111.95	110.63	107.20	106.90	106.68	
10	106.89	107.53	108.18	108.05	108.42	108.00	112.47	111.91	110.56	107.04	106.86	106.68	
11	106.92	107.53	108.17	108.05	108.49	108.00	112.47	111.85	110.45	107.00	106.84	106.68	
12	106.96	107.48	108.13	108.00	108.52	108.03	112.47	111.78	110.31	106.98	106.83	106.67	
13	106.97	107.43	108.08	108.00	108.50	108.25	112.48	111.75	110.14	106.98	106.83	106.67	
14	106.99	107.38	108.06	107.95	108.50	108.52	112.48	111.70	109.96	106.96	106.82	106.67	
15	106.99	107.36	108.08	107.93	108.50	108.90	112.47	111.68	109.78	106.88	106.77	106.65	
16	106.96	107.45	108.12	107.90	108.48	109.35	112.45	111.65	109.60	106.86	106.75	106.63	
17	106.93	107.47	108.23	107.88	108.45	109.76	112.43	111.63	109.52	106.84	106.73	106.63	
18	106.93	107.45	108.30	107.92	108.38	110.16	112.40	111.60	109.48	106.83	106.74	106.63	
19	106.96	107.38	108.36	107.88	108.38	110.43	112.39	111.60	109.48	106.83	106.78	106.63	
20	107.00	107.33	108.50	107.86	108.37	110.69	112.36	111.60	109.43	106.82	106.79	106.66	
21	107.00	107.41	108.62	107.83	108.43	111.04	112.35	111.60	109.30	106.82	106.74	106.71	
22	107.00	107.46	108.66	107.83	108.38	111.41	112.33	111.60	109.06	106.82	106.76	106.75	
23	106.95	107.46	108.64	107.88	108.32	111.52	112.30	111.61	108.90	106.88	106.76	106.77	
24	106.93	107.63	108.58	107.94	108.25	111.60	112.30	111.65	108.61	106.94	106.76	106.79	
25	106.90	107.79	108.55	108.02	108.27	111.67	112.28	111.64	108.41	106.97	106.75	106.83	
26	106.85	108.08	108.47	108.08	108.29	111.72	112.25	111.62	108.23	106.97	106.73	106.80	
27	106.80	108.25	108.38	108.15	108.34	111.75	112.20	111.59	108.14	107.00	106.70	106.80	
28	106.78	108.37	108.27	108.19	108.40	111.77	112.15	111.54	108.10	107.00	106.70	106.80	
29	106.80	108.46	108.22	108.19	108.43	111.81	112.09	111.50	107.94	107.00		106.80	
30	106.87	108.48	108.12	108.17	108.42	111.87	112.00	111.42	107.80	107.00		106.85	
31		108.49		108.10	108.33		111.95		107.85	107.00		106.90	
Mean	106.91	107.58	108.34	107.95	108.29	109.66	112.31	111.72	109.70	107.16	106.83	106.72	
Max	107.00	108.49	108.66	108.19	108.52	111.87	112.48	111.95	111.37	107.98	107.00	106.90	112.48
Min	106.78	106.96	108.06	107.73	107.85	108.00	111.95	111.42	107.80	106.82	106.70	106.63	106.63

Annual Max Momentary Gage Height 112.48 m. (MSL.) , at 06.00 Hours , on Oct 13, 2008

Zero Gage at Bottom Elevation 105.00 m. (MSL.) , River Bed 100.70 m. (MSL.)

Left Bank Elevation 119.72 m. (MSL.) ,

Right Bank Elevation 111.35 m. (MSL.) , Drainage Are 107,345 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	52.00	112.80	704.00	515.60	515.60	610.60	2369.00	2320.00	2007.20	470.00	128.00	42.20		
2	74.80	116.60	696.00	481.40	477.60	603.00	2432.00	2314.00	1979.20	470.00	120.40	45.00		
3	90.00	147.00	688.00	432.00	458.60	610.60	2530.00	2290.00	1928.80	500.40	101.40	45.00		
4	97.60	169.80	676.00	424.40	451.00	603.00	2579.00	2308.00	1895.20	485.20	109.00	40.80		
5	82.40	249.60	692.00	413.00	451.00	591.60	2607.00	2320.00	1844.80	432.00	109.00	36.00		
6	74.80	299.00	652.40	405.40	519.40	561.20	2642.00	2355.00	1839.20	382.60	116.60	33.00		
7	74.80	318.00	610.60	413.00	542.20	530.80	2656.00	2355.00	1800.00	348.40	116.60	33.00		
8	74.80	329.40	599.20	443.40	618.20	515.60	2663.00	2355.00	1705.00	314.20	109.00	35.00		
9	82.40	329.40	595.40	500.40	637.20	508.00	2705.00	2355.00	1616.40	204.00	90.00	36.00		
10	86.20	329.40	576.40	527.00	668.00	508.00	2719.00	2327.00	1582.80	143.20	74.80	36.00		
11	97.60	329.40	572.60	527.00	696.00	508.00	2719.00	2290.00	1530.00	128.00	67.20	36.00		
12	112.80	310.40	557.40	508.00	708.00	519.40	2719.00	2248.00	1462.80	120.40	63.40	35.00		
13	116.60	291.40	538.40	508.00	700.00	603.00	2726.00	2230.00	1381.20	120.40	63.40	35.00		
14	124.20	272.40	530.80	489.00	700.00	708.00	2726.00	2200.00	1297.00	112.80	59.60	35.00		
15	124.20	264.80	538.40	481.40	700.00	860.00	2719.00	2188.00	1216.00	82.40	47.80	33.00		
16	112.80	299.00	553.60	470.00	692.00	1040.00	2705.00	2170.00	1140.00	74.80	45.00	31.00		
17	101.40	306.60	595.40	462.40	680.00	1207.00	2691.00	2158.00	1108.00	67.20	42.20	31.00		
18	101.40	299.00	622.00	477.60	652.40	1390.80	2670.00	2140.00	1092.00	63.40	43.60	31.00		
19	112.80	272.40	644.80	462.40	652.40	1520.40	2663.00	2140.00	1092.00	63.40	49.20	31.00		
20	128.00	253.40	700.00	454.80	648.60	1645.20	2642.00	2140.00	1072.00	59.60	50.60	34.00		
21	128.00	283.80	748.00	443.40	672.00	1822.40	2635.00	2140.00	1020.00	59.60	43.60	39.40		
22	128.00	302.80	764.00	443.40	652.40	2029.60	2621.00	2140.00	924.00	59.60	46.40	45.00		
23	109.00	302.80	756.00	462.40	629.60	2092.00	2600.00	2146.00	860.00	82.40	46.40	47.80		
24	101.40	367.40	732.00	485.20	603.00	2140.00	2600.00	2170.00	744.00	105.20	46.40	50.60		
25	90.00	428.20	720.00	515.60	610.60	2182.00	2586.00	2164.00	664.00	116.60	45.00	63.40		
26	71.00	538.40	688.00	538.40	618.20	2212.00	2565.00	2152.00	595.40	116.60	42.20	52.00		
27	52.00	603.00	652.40	565.00	637.20	2230.00	2530.00	2134.00	561.20	128.00	38.00	52.00		
28	49.20	648.60	610.60	580.20	660.00	2242.00	2495.00	2104.00	546.00	128.00	38.00	52.00		
29	52.00	684.00	591.60	580.20	672.00	2266.00	2453.00	2080.00	485.20	128.00		52.00		
30	78.60	692.00	553.60	572.60	668.00	2302.00	2390.00	2035.20	432.00	128.00		71.00		
31		696.00		546.00	633.40		2355.00		451.00	128.00		90.00		
Total	2780.80	10846.80	19159.60	15128.60	19224.60	37162.20	80712.00	66468.20	37872.40	5822.40	1952.80	1329.20	298459.60	CMSDAY
Mean	92.69	349.90	638.65	488.02	620.15	1238.74	2603.61	2215.61	1221.69	187.82	69.74	42.88	817.70	CMS
Max	128.00	696.00	764.00	580.20	708.00	2302.00	2726.00	2355.00	2007.20	500.40	128.00	90.00	2726.00	CMS
Min	49.20	112.80	530.80	405.40	451.00	508.00	2355.00	2035.20	432.00	59.60	38.00	31.00	31.00	CMS
Runoff	240.26	937.16	1655.39	1307.11	1661.01	3210.81	6973.52	5742.85	3272.18	503.06	168.72	114.84	25786.91	MCM

Momentary Peak 2726.00 CMS. at 112.48 m. (MSL.) at 06.00 Hours , on Oct 13, 2008

Runoff Yield 7.62 Liters/Second/Square KM. Momentary Peak Yield 25.39 Liters/Second/Square KM.

WATER YEAR : 2008

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.

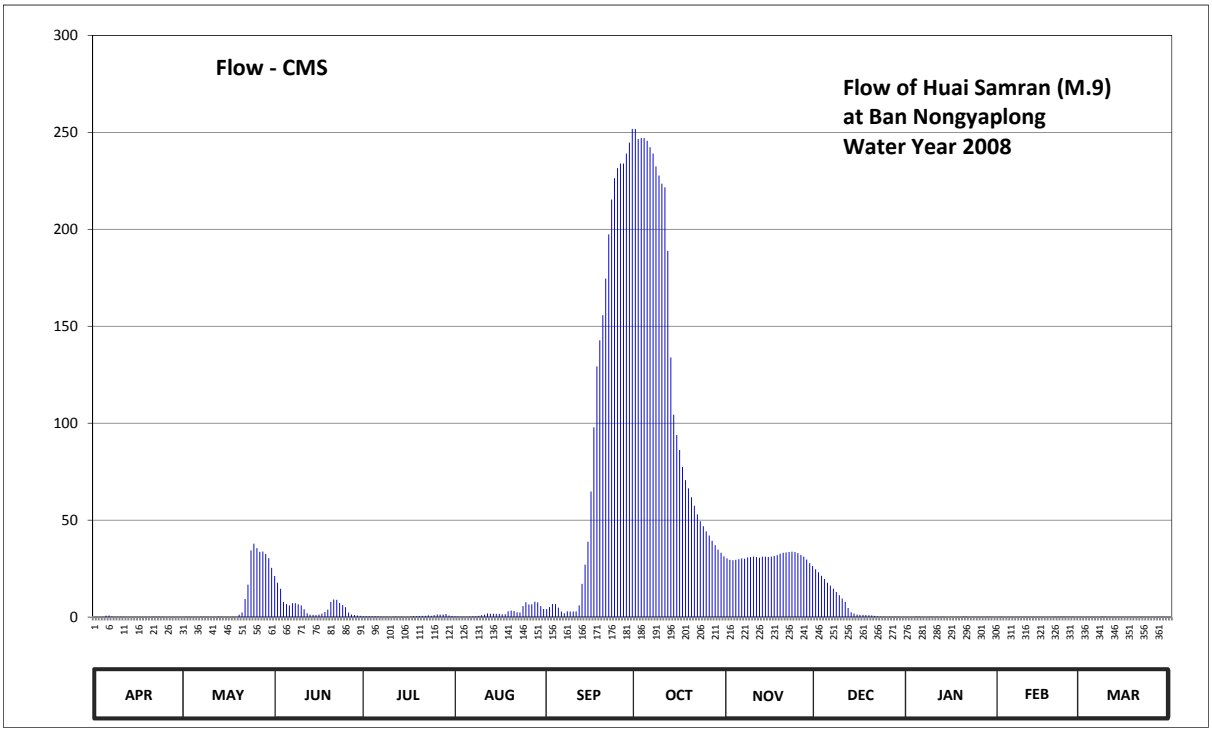
Ban Nongyaplong **Amphoe** Mueang **Changwat** Si Sa Ket

Drainge Area	2,988 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+109.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the top staff gage. **Elevation** +123.920 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 mean of 5 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1954, 1972 - 1981, 1987 to date
Rated by Float	-
Rated by Current Meter	1954, 1972 - 1981, 1987 to date
Stability of Channel Regimes	Stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +117.210 m.(MSL.) and is including overbank flow.
General Description	Records good. The Water Supply weir situated above gage site. Stage-discharge relation defined by 33 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.16	109.18	111.81	109.50	109.44	110.32	119.18	116.16	115.68	109.72	109.77	109.72	
2	109.18	109.27	111.56	109.46	109.38	110.43	119.07	116.11	115.52	109.71	109.79	109.70	
3	109.18	109.25	111.31	109.50	109.34	110.59	119.08	116.10	115.34	109.73	109.77	109.70	
4	109.18	109.19	110.69	109.44	109.32	110.58	119.08	116.11	115.17	110.03	109.76	109.68	
5	109.61	109.18	110.58	109.46	109.33	110.40	119.05	116.13	114.98	110.12	109.75	109.66	
6	109.67	109.21	110.51	109.42	109.40	110.19	118.98	116.16	114.79	109.76	109.75	109.64	
7	109.39	109.22	110.63	109.29	109.43	110.02	118.91	116.15	114.59	109.64	109.75	109.75	
8	109.24	109.24	110.63	109.30	109.43	110.21	118.77	116.19	114.38	109.67	109.75	110.15	
9	109.23	109.22	110.57	109.29	109.59	110.20	118.67	116.20	114.17	109.87	109.75	109.80	
10	109.28	109.19	110.51	109.28	109.74	110.19	118.58	116.22	113.95	109.75	109.75	109.73	
11	109.24	109.18	110.31	109.34	109.85	110.21	118.54	116.20	113.66	109.83	109.75	109.69	
12	109.21	109.16	110.02	109.35	109.99	110.51	118.45	116.18	113.12	109.63	109.75	109.66	
13	109.19	109.33	109.82	109.32	109.95	111.52	118.32	116.22	112.67	109.97	109.75	109.65	
14	109.19	109.22	109.77	109.30	109.95	112.21	118.14	116.22	112.34	109.55	109.75	109.63	
15	109.19	109.19	109.76	109.27	109.94	113.00	118.05	116.21	111.88	109.45	109.75	109.61	
16	109.18	109.18	109.85	109.26	109.93	114.15	117.97	116.22	111.70	109.45	109.75	109.62	
17	109.18	109.19	109.97	109.37	109.90	115.35	117.85	116.24	111.65	109.46	109.74	109.62	
18	109.18	109.23	110.15	109.47	109.90	116.28	117.74	116.27	111.59	109.63	109.73	109.62	
19	109.20	109.20	110.30	109.48	110.21	116.66	117.66	116.32	111.49	109.56	109.74	109.61	
20	109.21	109.80	110.69	109.52	110.25	117.01	117.56	116.35	111.39	110.03	109.95	109.61	
21	109.25	110.09	110.82	109.57	110.22	117.46	117.45	116.36	111.12	110.18	109.82	109.61	
22	109.24	110.84	110.80	109.56	110.11	117.99	117.32	116.38	110.50	109.76	109.79	109.75	
23	109.24	111.49	110.64	109.70	110.09	118.40	117.20	116.39	110.20	109.65	110.02	109.71	
24	109.22	112.70	110.53	109.58	110.48	118.64	117.10	116.38	110.04	109.65	109.86	109.68	
25	109.19	112.93	110.42	109.73	110.68	118.75	116.99	116.34	109.95	109.64	109.99	109.66	
26	109.17	112.78	110.10	109.83	110.56	118.80	116.87	116.28	109.89	109.64	109.81	109.64	
27	109.17	112.65	109.84	109.85	110.57	118.80	116.72	116.22	109.83	109.77	109.74	109.63	
28	109.18	112.66	109.75	109.84	110.70	118.91	116.59	116.12	109.81	109.83	109.72	109.63	
29	109.18	112.58	109.67	109.94	110.67	119.03	116.46	115.99	109.79	109.79		109.63	
30	109.18	112.43	109.57	109.64	110.48	119.18	116.35	115.84	109.77	109.77		109.63	
31		112.10		109.51	110.33		116.23		109.75	109.77		109.60	
Mean	109.24	110.26	110.39	109.50	109.97	114.20	117.90	116.21	112.28	109.74	109.79	109.68	
Max	109.67	112.93	111.81	109.94	110.70	119.18	119.18	116.39	115.68	110.18	110.02	110.15	119.18
Min	109.16	109.16	109.57	109.26	109.32	110.02	116.23	115.84	109.75	109.45	109.72	109.60	109.16

Annual Max Momentary Gage Height	119.20	m. (MSL.) ,	at 18.00 Hours , on Sep 30, 2008		
Zero Gage at Bottom Elevation	109.00	m. (MSL.) ,	River Bed	108.86	m. (MSL.)
Left Bank Elevation	117.21	m. (MSL.) ,			
Right Bank Elevation	119.63	m. (MSL.) ,	Drainage Are	2,988	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.07	0.09	21.24	0.52	0.42	4.10	251.76	30.30	24.70	0.09	0.11	0.09		
2	0.09	0.18	17.74	0.46	0.33	5.20	246.59	29.55	23.10	0.08	0.12	0.08		
3	0.09	0.16	14.62	0.52	0.28	6.80	247.06	29.40	21.30	0.09	0.11	0.08		
4	0.09	0.09	7.80	0.42	0.25	6.70	247.06	29.55	19.60	0.21	0.10	0.07		
5	0.72	0.09	6.70	0.46	0.26	4.90	245.65	29.85	17.74	0.25	0.10	0.06		
6	0.84	0.11	6.00	0.39	0.36	2.85	242.36	30.30	16.22	0.10	0.10	0.06		
7	0.35	0.12	7.20	0.21	0.41	2.00	239.07	30.15	14.62	0.06	0.10	0.10		
8	0.15	0.15	7.20	0.22	0.41	3.00	232.49	30.75	12.94	0.07	0.10	0.26		
9	0.14	0.12	6.60	0.21	0.68	2.90	227.79	30.90	11.26	0.15	0.10	0.12		
10	0.20	0.09	6.00	0.20	1.02	2.85	223.56	31.20	9.60	0.10	0.10	0.09		
11	0.15	0.09	4.00	0.28	1.35	3.00	221.68	30.90	7.86	0.13	0.10	0.08		
12	0.11	0.07	2.00	0.29	1.86	6.00	188.85	30.60	4.66	0.05	0.10	0.06		
13	0.09	0.26	1.26	0.25	1.70	17.18	133.90	31.20	2.46	0.19	0.10	0.06		
14	0.09	0.12	1.11	0.22	1.70	27.05	104.40	31.20	1.81	0.04	0.10	0.05		
15	0.09	0.09	1.08	0.18	1.66	38.90	93.90	31.05	1.34	0.03	0.10	0.04		
16	0.09	0.09	1.35	0.17	1.62	64.80	86.15	31.20	1.18	0.03	0.10	0.05		
17	0.09	0.09	1.78	0.32	1.50	97.85	77.40	31.50	1.14	0.03	0.10	0.05		
18	0.09	0.14	2.65	0.47	1.50	129.30	70.60	31.95	1.08	0.05	0.09	0.05		
19	0.10	0.10	3.90	0.49	3.00	142.72	66.40	32.70	0.99	0.04	0.10	0.04		
20	0.11	1.20	7.80	0.56	3.40	155.72	61.80	33.15	0.90	0.21	0.18	0.04		
21	0.16	2.35	9.10	0.65	3.10	174.62	57.40	33.30	0.67	0.27	0.13	0.04		
22	0.15	9.30	8.90	0.63	2.45	197.37	53.00	33.60	0.40	0.10	0.12	0.10		
23	0.15	16.78	7.30	0.90	2.35	215.40	49.40	33.75	0.28	0.06	0.21	0.08		
24	0.12	34.40	6.20	0.66	5.70	226.38	46.90	33.60	0.22	0.06	0.14	0.07		
25	0.09	37.85	5.10	0.99	7.70	231.55	44.22	33.00	0.18	0.06	0.20	0.06		
26	0.08	35.60	2.40	1.29	6.50	233.90	42.06	32.10	0.16	0.06	0.12	0.06		
27	0.08	33.65	1.32	1.35	6.60	233.90	39.36	31.20	0.13	0.11	0.10	0.05		
28	0.09	33.80	1.05	1.32	7.90	239.07	37.02	29.70	0.12	0.13	0.09	0.05		
29	0.09	32.60	0.84	1.66	7.60	244.71	34.80	27.80	0.12	0.12		0.05		
30	0.09	30.35	0.65	0.78	5.70	251.76	33.15	26.30	0.11	0.11		0.05		
31		25.40		0.54	4.20		31.35		0.10	0.11		0.04		
Total	4.85	295.53	170.89	17.61	83.51	2972.48	3977.13	931.75	196.99	3.19	3.22	2.18	8659.33	CMSDAY
Mean	0.16	9.53	5.70	0.57	2.69	99.08	128.29	31.06	6.35	0.10	0.12	0.07	23.72	CMS
Max	0.84	37.85	21.24	1.66	7.90	251.76	251.76	33.75	24.70	0.27	0.21	0.26	251.76	CMS
Min	0.07	0.07	0.65	0.17	0.25	2.00	31.35	26.30	0.10	0.03	0.09	0.04	0.03	CMS
Runoff	0.42	25.53	14.76	1.52	7.22	256.82	343.62	80.50	17.02	0.28	0.28	0.19	748.17	MCM

Momentary Peak 252.70 CMS. at 119.20 m. (MSL.) at 18.00 Hours , on Sep 30, 2008

Runoff Yield 7.94 Liters/Second/Square KM. Momentary Peak Yield 84.57 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Lam Chi at Ban Kho Kho, Surin (M.26)

Lat 14 - 54 - 08 N Long 103 - 24 - 12 E

Location : on left bank at railway bridge.

Ban Kho Kho **Amphoe** Mueang **Changwat** Surin

Drainge Area	3,058 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+127.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the automatic gage building. **Elevation** +135.010 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1967 - 1968, 1978 to date.
Rated by Float	-
Rated by Current Meter	1967 - 1968, 1978 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +134.450 m.(MSL.) and is including overbank flow.
General Description	Records very good. Flow effected by Mueang ling weir about 500 meters downstream from the gage site. Stage-discharge relation defined by 52 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

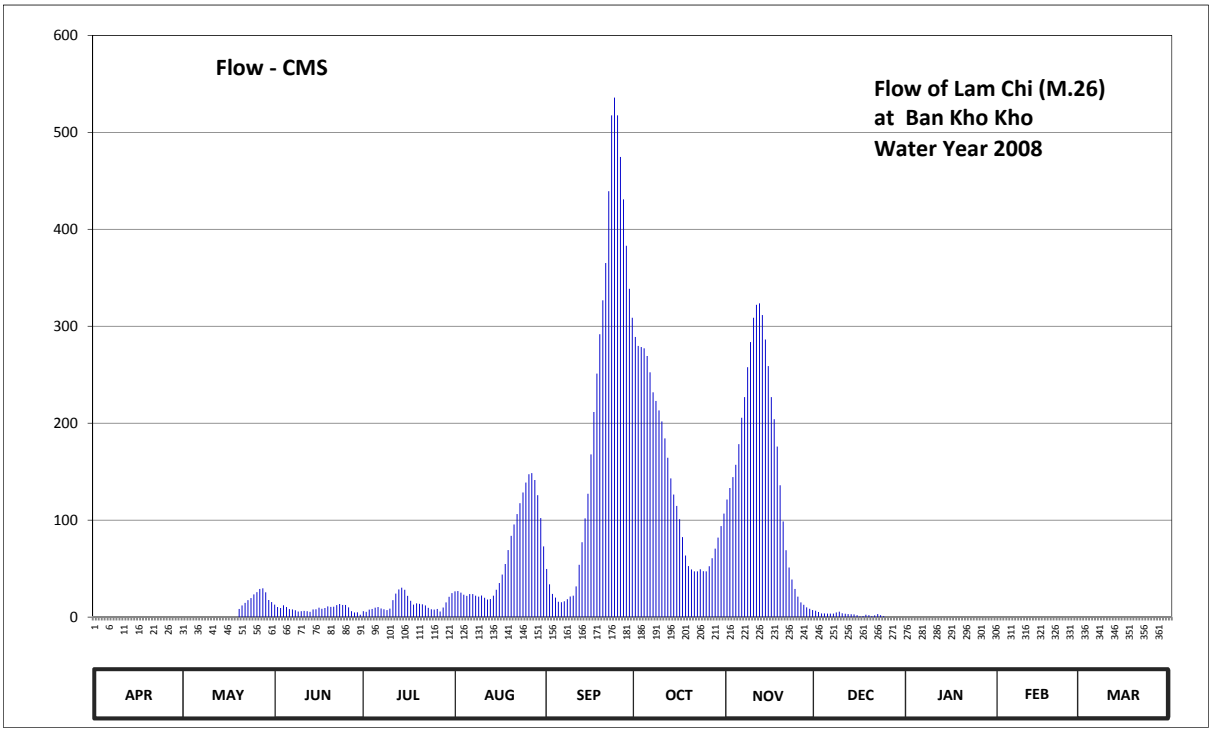
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	128.00	128.34	129.03	128.43	129.81	131.04	136.50	133.91	128.47	127.64	127.52	127.46	
2	128.04	128.09	128.81	128.36	129.83	130.21	136.43	134.29	128.35	127.62	127.52	127.52	
3	128.06	127.91	128.73	128.58	129.74	129.67	136.42	134.59	128.21	127.60	127.52	127.52	
4	128.08	127.93	128.98	128.64	129.62	129.45	136.41	134.89	128.22	127.60	127.52	127.53	
5	128.10	127.96	128.82	128.76	129.56	129.20	136.35	135.33	128.20	127.60	127.52	127.54	
6	128.12	127.98	128.62	128.82	129.66	129.17	136.22	135.75	128.20	127.59	127.52	127.49	
7	128.17	127.97	128.59	128.68	129.66	129.23	136.06	136.02	128.20	127.58	127.52	127.44	
8	128.18	127.90	128.51	128.61	129.57	129.36	135.98	136.26	128.30	127.58	127.53	127.45	
9	128.18	127.91	128.39	128.53	129.51	129.52	135.85	136.46	128.38	127.58	127.54	127.47	
10	128.08	127.92	128.42	128.67	129.58	129.57	135.70	136.64	128.23	127.58	127.56	127.48	
11	128.10	127.96	128.45	129.30	129.44	130.09	135.45	136.73	128.19	127.58	127.57	127.48	
12	128.06	128.01	128.43	129.69	129.34	131.25	135.05	136.74	128.16	127.57	127.59	127.48	
13	128.05	127.81	128.36	129.92	129.37	132.33	134.56	136.66	128.14	127.57	127.59	127.48	
14	128.06	127.90	128.59	130.02	129.57	133.24	134.08	136.48	128.13	127.57	127.58	127.46	
15	128.06	127.98	128.61	129.91	129.91	134.11	133.68	136.27	127.98	127.56	127.57	127.46	
16	128.06	128.02	128.75	129.56	130.28	135.12	133.21	136.02	127.76	127.55	127.56	127.46	
17	128.06	127.82	128.65	129.26	130.74	135.83	132.54	135.73	127.84	127.54	127.54	127.46	
18	128.06	127.80	128.72	129.03	131.29	136.21	131.73	135.28	128.10	127.54	127.49	127.45	
19	128.05	127.87	128.87	129.10	132.01	136.52	131.19	134.37	127.99	127.53	127.45	127.45	
20	128.04	128.64	128.83	129.08	132.59	136.76	131.01	133.13	127.78	127.52	127.44	127.46	
21	128.04	128.97	128.85	129.05	133.02	136.97	130.91	132.00	127.96	127.52	127.44	127.46	
22	128.04	129.13	128.99	128.96	133.39	137.33	130.91	131.11	128.16	127.52	127.44	127.45	
23	128.06	129.30	129.07	128.74	133.78	137.66	131.02	130.47	127.98	127.53	127.44	127.45	
24	128.08	129.43	129.01	128.60	134.15	137.73	130.92	129.95	127.79	127.58	127.44	127.44	
25	128.08	129.64	129.01	128.58	134.45	137.66	130.91	129.51	127.70	127.59	127.44	127.50	
26	128.02	129.77	128.78	128.63	134.66	137.49	131.18	129.16	127.69	127.51	127.44	127.54	
27	127.96	129.95	128.42	128.40	134.69	137.29	131.59	129.02	127.69	127.51	127.44	127.50	
28	127.99	129.99	128.30	128.77	134.52	137.06	132.07	128.79	127.69	127.51	127.44	127.49	
29	128.06	129.76	128.32	129.16	134.06	136.83	132.52	128.65	127.69	127.51		127.45	
30	128.15	129.31	128.10	129.50	133.25	136.64	132.96	128.53	127.69	127.51		127.45	
31		129.18		129.71	132.16		133.41		127.69	127.51		127.44	
Mean	128.07	128.52	128.67	129.00	131.39	133.68	133.64	133.62	128.02	127.56	127.51	127.47	
Max	128.18	129.99	129.07	130.02	134.69	137.73	136.50	136.74	128.47	127.64	127.59	127.54	137.73
Min	127.96	127.80	128.10	128.36	129.34	129.17	130.91	128.53	127.69	127.51	127.44	127.44	127.44

Annual Max Momentary Gage Height 137.74 m. (MSL.) , at 06.00 Hours , on Sep 24 , 2008

Zero Gage at Bottom Elevation 127.00 m. (MSL.) , River Bed 127.08 m. (MSL.)

Left Bank Elevation 134.44 m. (MSL.) ,

Right Bank Elevation 135.17 m. (MSL.) , Drainage Are 3,058 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	12.91	6.13	26.48	49.70	288.90	121.29	6.57	0.00	0.00	0.00		
2	0.00	0.00	10.31	5.36	26.84	33.89	279.80	133.25	5.25	0.00	0.00	0.00		
3	0.00	0.00	9.43	7.78	25.22	23.96	278.50	144.38	3.71	0.00	0.00	0.00		
4	0.00	0.00	12.18	8.44	23.06	20.05	277.20	157.17	3.82	0.00	0.00	0.00		
5	0.00	0.00	10.42	9.76	21.98	15.80	269.40	178.40	3.60	0.00	0.00	0.00		
6	0.00	0.00	8.22	10.42	23.78	15.29	252.50	205.65	3.60	0.00	0.00	0.00		
7	0.00	0.00	7.89	8.88	23.78	16.31	231.90	226.90	3.60	0.00	0.00	0.00		
8	0.00	0.00	7.01	8.11	22.16	18.52	222.90	257.70	4.70	0.00	0.00	0.00		
9	0.00	0.00	5.69	7.23	21.08	21.26	213.15	283.70	5.58	0.00	0.00	0.00		
10	0.00	0.00	6.02	8.77	22.34	22.16	201.90	308.70	3.93	0.00	0.00	0.00		
11	0.00	0.00	6.35	17.50	19.88	31.61	184.40	322.08	3.49	0.00	0.00	0.00		
12	0.00	0.00	6.13	24.32	18.18	53.90	164.40	323.64	3.16	0.00	0.00	0.00		
13	0.00	0.00	5.36	28.46	18.69	77.15	143.12	311.60	2.94	0.00	0.00	0.00		
14	0.00	0.00	7.89	30.28	22.16	101.86	126.38	286.30	2.83	0.00	0.00	0.00		
15	0.00	0.00	8.11	28.28	28.28	127.31	114.62	259.00	1.90	0.00	0.00	0.00		
16	0.00	0.00	9.65	21.98	35.22	167.90	100.99	226.90	0.84	0.00	0.00	0.00		
17	0.00	0.00	8.55	16.82	43.96	211.65	82.48	204.15	1.20	0.00	0.00	0.00		
18	0.00	0.00	9.32	12.91	54.70	251.20	63.50	175.90	2.50	0.00	0.00	0.00		
19	0.00	0.00	10.97	14.10	69.15	291.70	52.70	136.05	1.95	0.00	0.00	0.00		
20	0.00	8.44	10.53	13.76	83.83	326.76	49.10	98.67	0.92	0.00	0.00	0.00		
21	0.00	12.07	10.75	13.25	95.48	365.30	47.19	68.90	1.80	0.00	0.00	0.00		
22	0.00	14.61	12.29	11.96	106.21	439.30	47.19	51.10	3.16	0.00	0.00	0.00		
23	0.00	17.50	13.59	9.54	117.52	517.60	49.30	38.83	1.90	0.00	0.00	0.00		
24	0.00	19.71	12.57	8.00	128.55	535.80	47.38	29.00	0.96	0.00	0.00	0.00		
25	0.00	23.42	12.57	7.78	138.85	517.60	47.19	21.08	0.00	0.00	0.00	0.00		
26	0.00	25.76	9.98	8.33	147.32	474.70	52.50	15.12	0.00	0.00	0.00	0.00		
27	0.00	29.00	6.02	5.80	148.58	430.90	60.70	12.74	0.00	0.00	0.00	0.00		
28	0.00	29.72	4.70	9.87	141.44	383.00	70.65	10.09	0.00	0.00	0.00	0.00		
29	0.00	25.58	4.92	15.12	125.76	338.70	81.94	8.55	0.00	0.00		0.00		
30	0.00	17.67	2.50	20.90	102.15	308.70	93.82	7.23	0.00	0.00		0.00		
31		15.46		24.68	72.90		106.79		0.00	0.00		0.00		
Total	0.00	238.94	262.83	424.52	1955.53	6189.58	4302.49	4624.07	73.91	0.00	0.00	0.00	18071.87	CMSDAY
Mean	0.00	7.71	8.76	13.69	63.08	206.32	138.79	154.14	2.38	0.00	0.00	0.00	49.51	CMS
Max	0.00	29.72	13.59	30.28	148.58	535.80	288.90	323.64	6.57	0.00	0.00	0.00	535.80	CMS
Min	0.00	0.00	2.50	5.36	18.18	15.29	47.19	7.23	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	20.64	22.71	36.68	168.96	534.78	371.74	399.52	6.39	0.00	0.00	0.00	1561.41	MCM

Momentary Peak 538.40 CMS. at 137.74 m. (MSL.) at 06.00 Hours , on Sep 24, 2008

Runoff Yield 16.19 Liters/Second/Square KM. Momentary Peak Yield 176.06 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	1,646 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+120.290 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the automatic gage building. **Elevation** +127.626 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1968 - 1974, 1997 to date.
Rating Operation	
Period of Rating	1968 - 1969, 1997 to date.
Rated by Float	-
Rated by Current Meter	1968 - 1969, 1997 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The concrete weir situated about 3 kilometers downstream from the gage site. Stage-discharge relation defined by 21 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

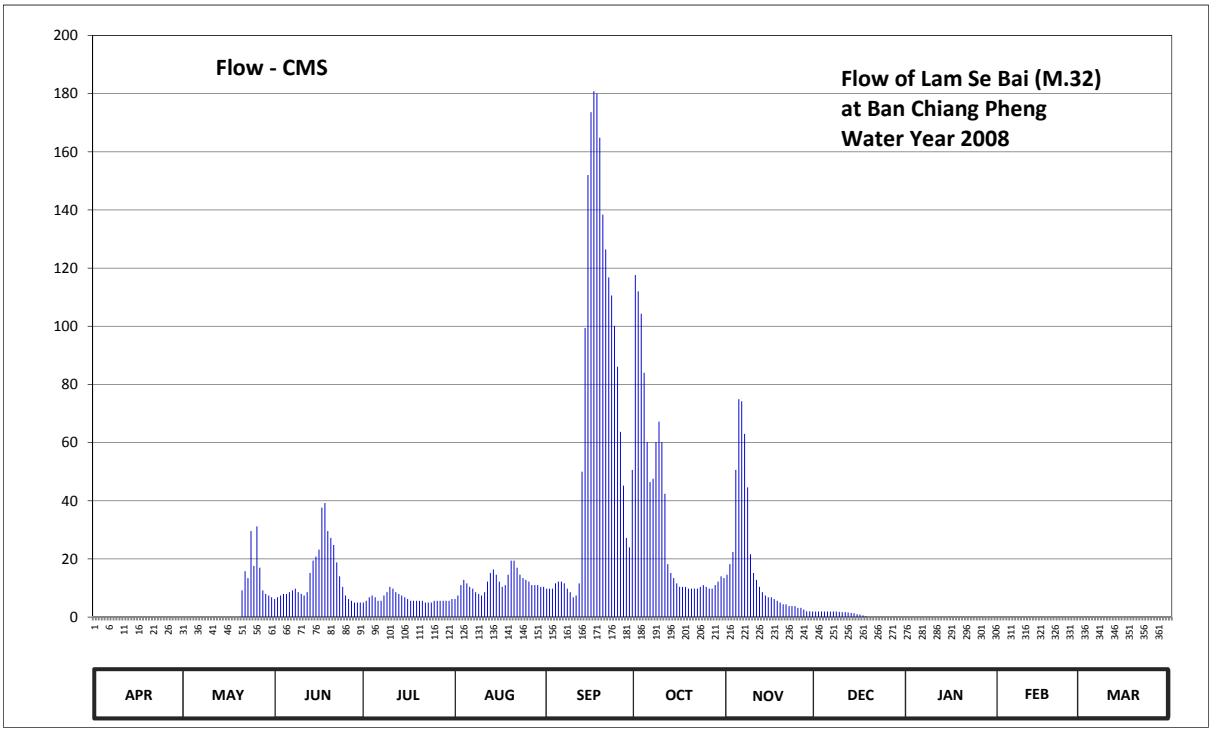
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	120.99	120.60	123.77	123.75	123.77	123.83	125.27	123.91	123.69	123.31	122.57	121.69	
2	120.97	120.60	123.78	123.76	123.79	123.83	125.20	123.97	123.69	123.31	122.55	121.65	
3	120.96	120.61	123.79	123.78	123.85	123.83	125.09	124.03	123.69	123.29	122.52	121.60	
4	120.95	120.62	123.80	123.79	123.88	123.86	124.80	124.31	123.69	123.27	122.51	121.51	
5	120.93	120.63	123.80	123.78	123.86	123.87	124.46	124.67	123.69	123.26	122.49	121.43	
6	120.92	120.65	123.81	123.76	123.84	123.87	124.24	124.66	123.69	123.24	122.46	121.41	
7	120.91	120.72	123.82	123.76	123.83	123.86	124.26	124.50	123.69	123.22	122.43	121.39	
8	120.89	120.99	123.83	123.79	123.81	123.83	124.46	124.21	123.69	123.20	122.40	121.35	
9	120.89	121.29	123.81	123.81	123.80	123.81	124.56	124.02	123.68	123.16	122.37	121.25	
10	120.88	121.56	123.80	123.84	123.79	123.78	124.46	123.92	123.67	123.14	122.36	121.18	
11	120.87	121.83	123.79	123.83	123.81	123.79	124.19	123.88	123.67	123.11	122.34	121.13	
12	120.85	122.00	123.81	123.81	123.87	123.86	123.97	123.84	123.66	123.07	122.31	121.10	
13	120.83	122.37	123.92	123.80	123.92	124.30	123.92	123.81	123.64	123.04	122.28	121.07	
14	120.81	122.57	123.99	123.79	123.94	125.02	123.89	123.79	123.63	123.02	122.25	121.04	
15	120.80	122.79	124.01	123.78	123.91	125.70	123.86	123.78	123.60	123.00	122.21	120.99	
16	120.78	122.85	124.04	123.77	123.87	125.97	123.84	123.78	123.59	122.98	122.20	120.94	
17	120.77	122.89	124.16	123.76	123.84	126.06	123.84	123.77	123.56	122.98	122.18	120.91	
18	120.75	122.96	124.17	123.76	123.85	126.05	123.84	123.76	123.53	122.95	122.14	120.90	
19	120.74	123.05	124.11	123.76	123.91	125.86	123.83	123.75	123.50	122.91	122.08	120.88	
20	120.73	123.42	124.09	123.76	123.99	125.53	123.83	123.74	123.47	122.88	122.05	120.86	
21	120.71	123.82	124.06	123.76	123.99	125.38	123.83	123.74	123.44	122.84	122.02	120.84	
22	120.70	123.93	123.98	123.75	123.95	125.26	123.83	123.73	123.41	122.81	121.99	120.80	
23	120.68	123.89	123.90	123.75	123.91	125.18	123.84	123.73	123.39	122.78	121.97	120.75	
24	120.66	124.11	123.84	123.75	123.89	125.03	123.85	123.73	123.36	122.76	121.94	120.72	
25	120.65	123.96	123.79	123.76	123.88	124.83	123.84	123.72	123.35	122.73	121.90	120.70	
26	120.64	124.12	123.77	123.76	123.87	124.51	123.83	123.72	123.34	122.70	121.86	120.69	
27	120.62	123.95	123.76	123.76	123.85	124.22	123.83	123.71	123.33	122.67	121.81	120.69	
28	120.61	123.82	123.75	123.76	123.85	124.09	123.85	123.70	123.32	122.64	121.76	120.69	
29	120.60	123.80	123.75	123.76	123.85	124.05	123.87	123.70	123.31	122.61		120.68	
30	120.59	123.79	123.75	123.76	123.84	124.31	123.90	123.69	123.30	122.59		120.67	
31		123.78		123.77	123.84		123.89		123.29	122.59		120.67	
Mean	120.79	122.52	123.88	123.77	123.87	124.58	124.13	123.91	123.53	122.97	122.21	121.04	
Max	120.99	124.12	124.17	123.84	123.99	126.06	125.27	124.67	123.69	123.31	122.57	121.69	126.06
Min	120.59	120.60	123.75	123.75	123.77	123.78	123.83	123.69	123.29	122.59	121.76	120.67	120.59

Annual Max Momentary Gage Height 126.07 m. (MSL.) , at 12.00 Hours , on Sep 17, 2008

Zero Gage at Bottom Elevation 120.29 m. (MSL.) , River Bed 118.61 m. (MSL.)

Left Bank Elevation 127.49 m. (MSL.) ,

Right Bank Elevation 126.92 m. (MSL.) , Drainage Are 1,646 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	6.20	5.00	6.20	9.80	117.60	14.60	1.90	0.00	0.00	0.00		
2	0.00	0.00	6.80	5.60	7.40	9.80	112.00	18.20	1.90	0.00	0.00	0.00		
3	0.00	0.00	7.40	6.80	11.00	9.80	104.30	22.40	1.90	0.00	0.00	0.00		
4	0.00	0.00	8.00	7.40	12.80	11.60	84.00	50.60	1.90	0.00	0.00	0.00		
5	0.00	0.00	8.00	6.80	11.60	12.20	60.20	74.90	1.90	0.00	0.00	0.00		
6	0.00	0.00	8.60	5.60	10.40	12.20	46.40	74.20	1.90	0.00	0.00	0.00		
7	0.00	0.00	9.20	5.60	9.80	11.60	47.60	63.00	1.90	0.00	0.00	0.00		
8	0.00	0.00	9.80	7.40	8.60	9.80	60.20	44.60	1.90	0.00	0.00	0.00		
9	0.00	0.00	8.60	8.60	8.00	8.60	67.20	21.60	1.80	0.00	0.00	0.00		
10	0.00	0.00	8.00	10.40	7.40	6.80	60.20	15.20	1.70	0.00	0.00	0.00		
11	0.00	0.00	7.40	9.80	8.60	7.40	42.40	12.80	1.70	0.00	0.00	0.00		
12	0.00	0.00	8.60	8.60	12.20	11.60	18.20	10.40	1.60	0.00	0.00	0.00		
13	0.00	0.00	15.20	8.00	15.20	50.00	15.20	8.60	1.40	0.00	0.00	0.00		
14	0.00	0.00	19.40	7.40	16.40	99.40	13.40	7.40	1.30	0.00	0.00	0.00		
15	0.00	0.00	20.80	6.80	14.60	152.00	11.60	6.80	1.00	0.00	0.00	0.00		
16	0.00	0.00	23.20	6.20	12.20	173.60	10.40	6.80	0.90	0.00	0.00	0.00		
17	0.00	0.00	37.60	5.60	10.40	180.80	10.40	6.20	0.60	0.00	0.00	0.00		
18	0.00	0.00	39.20	5.60	11.00	180.00	10.40	5.60	0.30	0.00	0.00	0.00		
19	0.00	0.00	29.60	5.60	14.60	164.80	9.80	5.00	0.00	0.00	0.00	0.00		
20	0.00	0.00	27.20	5.60	19.40	138.40	9.80	4.40	0.00	0.00	0.00	0.00		
21	0.00	9.20	24.80	5.60	19.40	126.40	9.80	4.40	0.00	0.00	0.00	0.00		
22	0.00	15.80	18.80	5.00	17.00	116.80	9.80	3.80	0.00	0.00	0.00	0.00		
23	0.00	13.40	14.00	5.00	14.60	110.60	10.40	3.80	0.00	0.00	0.00	0.00		
24	0.00	29.60	10.40	5.00	13.40	100.10	11.00	3.80	0.00	0.00	0.00	0.00		
25	0.00	17.60	7.40	5.60	12.80	86.10	10.40	3.20	0.00	0.00	0.00	0.00		
26	0.00	31.20	6.20	5.60	12.20	63.70	9.80	3.20	0.00	0.00	0.00	0.00		
27	0.00	17.00	5.60	5.60	11.00	45.20	9.80	2.60	0.00	0.00	0.00	0.00		
28	0.00	9.20	5.00	5.60	11.00	27.20	11.00	2.00	0.00	0.00	0.00	0.00		
29	0.00	8.00	5.00	5.60	11.00	24.00	12.20	2.00	0.00	0.00		0.00		
30	0.00	7.40	5.00	5.60	10.40	50.60	14.00	1.90	0.00	0.00		0.00		
31		6.80		6.20	10.40		13.40		0.00	0.00		0.00		
Total	0.00	165.20	411.00	198.80	371.00	2010.90	1032.90	504.00	27.50	0.00	0.00	0.00	4721.30	CMSDAY
Mean	0.00	5.33	13.70	6.41	11.97	67.03	33.32	16.80	0.89	0.00	0.00	0.00	12.94	CMS
Max	0.00	31.20	39.20	10.40	19.40	180.80	117.60	74.90	1.90	0.00	0.00	0.00	180.80	CMS
Min	0.00	0.00	5.00	5.00	6.20	6.80	9.80	1.90	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	14.27	35.51	17.18	32.05	173.74	89.24	43.55	2.38	0.00	0.00	0.00	407.92	MCM

Momentary Peak 181.60 CMS. at 126.07 m. (MSL.) at 12.00 Hours , on Sep 17, 2008

Runoff Yield 7.86 Liters/Second/Square KM. Momentary Peak Yield 110.33 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	2,832 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	118.850 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the footpath of the bridge. **Elevation** +130.440 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 mean of 5 readings
Period of Available Gage Records	1972 to date
Rating Operation	
Period of Rating	1972 - 1981, 1987 to date
Rated by Float	-
Rated by Current Meter	1972 - 1981, 1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevetion +124.900 m.(MSL.) and is including overbank flow.
General Description	Records very good. Flow effected by the local weir about 800 meters downstream from the gage site. Stage-discharge relation defined by 21 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

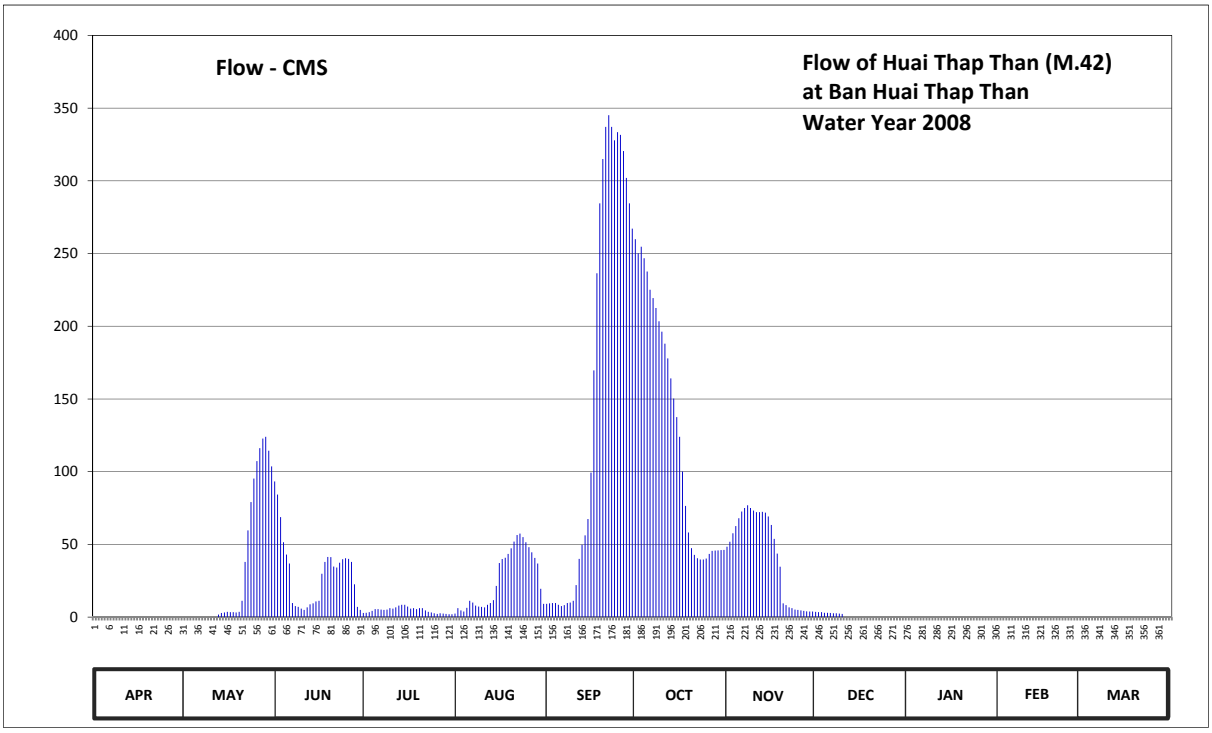
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.14	122.15	126.42	122.24	122.22	122.47	128.52	124.39	122.28	122.20	122.16	122.13	
2	122.14	122.15	126.13	122.25	122.37	122.48	128.44	124.62	122.27	122.20	122.16	122.13	
3	122.14	122.15	125.49	122.27	122.32	122.49	128.48	124.93	122.27	122.19	122.16	122.13	
4	122.15	122.15	124.60	122.31	122.29	122.49	128.41	125.18	122.25	122.19	122.16	122.13	
5	122.15	122.15	123.90	122.35	122.38	122.45	128.33	125.45	122.25	122.19	122.16	122.13	
6	122.15	122.18	123.28	122.35	122.53	122.42	128.22	125.65	122.24	122.19	122.16	122.13	
7	122.15	122.18	122.49	122.34	122.50	122.44	128.17	125.75	122.23	122.19	122.16	122.13	
8	122.14	122.16	122.42	122.33	122.43	122.49	128.11	125.83	122.23	122.18	122.15	122.13	
9	122.14	122.15	122.40	122.34	122.41	122.50	128.03	125.75	122.22	122.20	122.15	122.13	
10	122.14	122.15	122.36	122.37	122.40	122.53	127.96	125.68	122.21	122.19	122.15	122.13	
11	122.14	122.14	122.33	122.36	122.39	122.78	127.87	125.63	122.22	122.19	122.15	122.12	
12	122.13	122.15	122.39	122.39	122.45	123.60	127.76	125.63	122.22	122.19	122.15	122.12	
13	122.13	122.19	122.46	122.43	122.49	124.48	127.61	125.64	122.22	122.19	122.15	122.12	
14	122.13	122.24	122.48	122.45	122.54	124.86	127.45	125.62	122.22	122.18	122.15	122.12	
15	122.13	122.26	122.52	122.45	122.77	125.42	127.27	125.51	122.22	122.18	122.15	122.12	
16	122.12	122.28	122.53	122.41	123.32	126.57	127.05	125.22	122.22	122.18	122.15	122.12	
17	122.12	122.27	122.93	122.36	123.59	127.67	126.59	124.74	122.22	122.17	122.15	122.12	
18	122.10	122.27	123.40	122.37	123.68	128.32	125.81	123.97	122.22	122.17	122.15	122.11	
19	122.09	122.26	123.74	122.35	123.95	128.69	124.96	123.07	122.21	122.17	122.15	122.11	
20	122.08	122.28	123.73	122.37	124.32	128.87	124.33	122.48	122.21	122.17	122.15	122.11	
21	122.08	122.53	123.08	122.37	124.63	128.99	123.88	122.44	122.21	122.17	122.15	122.11	
22	122.08	123.40	123.01	122.32	124.87	129.03	123.65	122.39	122.21	122.17	122.14	122.11	
23	122.08	125.03	123.34	122.28	124.92	128.99	123.56	122.37	122.20	122.17	122.13	122.11	
24	122.12	125.92	123.58	122.26	124.80	128.94	123.56	122.34	122.20	122.17	122.13	122.10	
25	122.11	126.47	123.65	122.23	124.60	128.97	123.63	122.33	122.20	122.17	122.13	122.12	
26	122.10	126.75	123.60	122.21	124.37	128.96	123.94	122.32	122.20	122.17	122.13	122.12	
27	122.10	126.92	123.39	122.23	124.05	128.90	124.15	122.31	122.22	122.17	122.13	122.12	
28	122.10	127.03	122.79	122.22	123.67	128.80	124.18	122.30	122.22	122.16	122.13	122.12	
29	122.16	127.05	122.40	122.21	123.29	128.69	124.19	122.29	122.21	122.16		122.12	
30	122.15	126.89	122.33	122.20	122.73	128.57	124.21	122.29	122.21	122.16		122.12	
31		126.67		122.20	122.47		124.22		122.21	122.16		122.12	
Mean	122.12	123.50	123.31	122.32	123.22	125.83	126.21	124.14	122.22	122.18	122.15	122.12	
Max	122.16	127.05	126.42	122.45	124.92	129.03	128.52	125.83	122.28	122.20	122.16	122.13	129.03
Min	122.08	122.14	122.33	122.20	122.22	122.42	123.56	122.29	122.20	122.16	122.13	122.10	122.08

Annual Max Momentary Gage Height 129.03 m. (MSL.) , at 06.00 Hours , on Sep 22, 2008

Zero Gage at Bottom Elevation 118.85 m. (MSL.) , River Bed 118.31 m. (MSL.) ,

Left Bank Elevation 124.89 m. (MSL.) ,

Right Bank Elevation 126.87 m. (MSL.) , Drainage Are 2,832 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	93.30	2.80	2.40	9.10	259.90	48.35	3.60	0.00	0.00	0.00		
2	0.00	0.00	84.25	3.00	6.10	9.40	250.16	51.80	3.40	0.00	0.00	0.00		
3	0.00	0.00	68.80	3.40	4.60	9.70	254.72	57.60	3.40	0.00	0.00	0.00		
4	0.00	0.00	51.50	4.30	3.80	9.70	246.74	62.60	3.00	0.00	0.00	0.00		
5	0.00	0.00	43.00	5.50	6.40	8.50	237.62	68.00	3.00	0.00	0.00	0.00		
6	0.00	0.00	36.80	5.50	11.20	7.60	225.08	72.60	2.80	0.00	0.00	0.00		
7	0.00	0.00	9.70	5.20	10.00	8.20	219.38	75.00	2.60	0.00	0.00	0.00		
8	0.00	0.00	7.60	4.90	7.90	9.70	212.54	76.92	2.60	0.00	0.00	0.00		
9	0.00	0.00	7.00	5.20	7.30	10.00	203.42	75.00	2.40	0.00	0.00	0.00		
10	0.00	0.00	5.80	6.10	7.00	11.20	196.32	73.32	2.20	0.00	0.00	0.00		
11	0.00	0.00	4.90	5.80	6.70	22.00	188.04	72.12	0.00	0.00	0.00	0.00		
12	0.00	0.00	6.70	6.70	8.50	40.00	177.92	72.12	0.00	0.00	0.00	0.00		
13	0.00	1.80	8.80	7.90	9.70	49.70	164.12	72.36	0.00	0.00	0.00	0.00		
14	0.00	2.80	9.40	8.50	11.60	56.20	150.25	71.88	0.00	0.00	0.00	0.00		
15	0.00	3.20	10.80	8.50	21.50	67.40	137.55	69.24	0.00	0.00	0.00	0.00		
16	0.00	3.60	11.20	7.30	37.20	99.30	124.00	63.40	0.00	0.00	0.00	0.00		
17	0.00	3.40	29.80	5.80	39.90	169.64	100.10	53.80	0.00	0.00	0.00	0.00		
18	0.00	3.40	38.00	6.10	40.80	236.48	76.44	43.70	0.00	0.00	0.00	0.00		
19	0.00	3.20	41.40	5.50	43.50	284.55	58.20	34.70	0.00	0.00	0.00	0.00		
20	0.00	3.60	41.30	6.10	47.30	314.95	47.45	9.40	0.00	0.00	0.00	0.00		
21	0.00	11.20	34.80	6.10	51.95	337.15	42.80	8.20	0.00	0.00	0.00	0.00		
22	0.00	38.00	34.10	4.60	56.40	345.15	40.50	6.70	0.00	0.00	0.00	0.00		
23	0.00	59.60	37.40	3.60	57.40	337.15	39.60	6.10	0.00	0.00	0.00	0.00		
24	0.00	79.08	39.80	3.20	55.00	327.90	39.60	5.20	0.00	0.00	0.00	0.00		
25	0.00	95.30	40.50	2.60	51.50	333.45	40.30	4.90	0.00	0.00	0.00	0.00		
26	0.00	107.25	40.00	2.20	48.05	331.60	43.40	4.60	0.00	0.00	0.00	0.00		
27	0.00	116.20	37.90	2.60	44.50	320.50	45.50	4.30	0.00	0.00	0.00	0.00		
28	0.00	122.80	22.50	2.40	40.70	302.00	45.80	4.00	0.00	0.00	0.00	0.00		
29	0.00	124.00	7.00	2.20	36.90	284.55	45.90	3.80	0.00	0.00		0.00		
30	0.00	114.45	4.90	2.00	19.50	267.15	46.10	3.80	0.00	0.00		0.00		
31		103.65		2.00	9.10		46.20		0.00	0.00		0.00		
Total	0.00	996.53	908.95	147.60	804.40	4619.92	4005.65	1275.51	29.00	0.00	0.00	0.00	12787.56	CMSDAY
Mean	0.00	32.15	30.30	4.76	25.95	154.00	129.21	42.52	0.94	0.00	0.00	0.00	35.03	CMS
Max	0.00	124.00	93.30	8.50	57.40	345.15	259.90	76.92	3.60	0.00	0.00	0.00	345.15	CMS
Min	0.00	0.00	4.90	2.00	2.40	7.60	39.60	3.80	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	86.10	78.53	12.75	69.50	399.16	346.09	110.20	2.51	0.00	0.00	0.00	1104.85	MCM

Momentary Peak 345.15 CMS. at 129.03 m. (MSL.) at 06.00 Hours , on Sep 22, 2008

Runoff Yield 12.37 Liters/Second/Square KM. Momentary Peak Yield 121.88 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	153 sq.km.
Type of Gage	Staff gage.
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** +378.670 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1989 to date
Rating Operation	
Period of Rating	1989 to date
Rated by Float	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The weir situated above gage site. Stage-discharge relation defined by 28 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

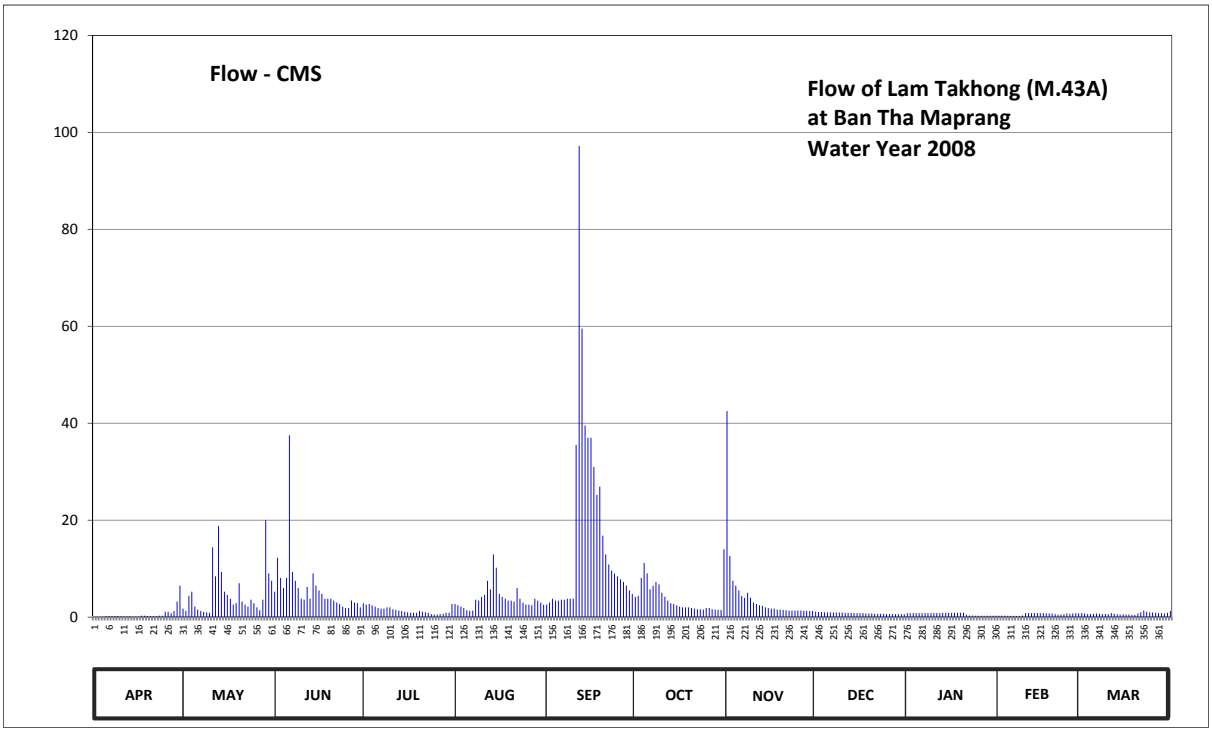
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	372.10	372.51	372.71	372.59	372.58	372.57	372.66	373.65	372.42	372.37	372.24	372.37	
2	372.10	372.45	372.95	372.57	372.56	372.60	372.67	372.96	372.41	372.37	372.24	372.36	
3	372.10	372.67	372.82	372.58	372.54	372.64	372.82	372.80	372.41	372.37	372.24	372.34	
4	372.10	372.71	372.74	372.56	372.52	372.62	372.92	372.76	372.40	372.37	372.24	372.34	
5	372.19	372.54	372.82	372.54	372.47	372.62	372.85	372.72	372.40	372.37	372.23	372.35	
6	372.19	372.49	373.55	372.52	372.45	372.63	372.73	372.67	372.40	372.37	372.23	372.36	
7	372.19	372.44	372.86	372.51	372.46	372.63	372.76	372.65	372.39	372.37	372.22	372.35	
8	372.22	372.41	372.80	372.51	372.63	372.64	372.79	372.70	372.39	372.37	372.22	372.34	
9	372.22	372.40	372.74	372.53	372.62	372.64	372.77	372.65	372.39	372.37	372.26	372.34	
10	372.18	372.38	372.64	372.53	372.66	372.64	372.70	372.60	372.39	372.37	372.37	372.34	
11	372.17	373.01	372.63	372.50	372.68	373.51	372.66	372.58	372.38	372.37	372.37	372.37	
12	372.16	372.83	372.75	372.48	372.80	374.62	372.62	372.56	372.38	372.37	372.37	372.35	
13	372.16	373.12	372.64	372.46	372.73	373.99	372.59	372.55	372.38	372.38	372.37	372.33	
14	372.14	372.86	372.85	372.44	372.97	373.59	372.58	372.53	372.37	372.38	372.37	372.32	
15	372.14	372.71	372.76	372.42	372.89	373.54	372.56	372.52	372.37	372.38	372.37	372.33	
16	372.14	372.68	372.72	372.40	372.69	373.54	372.54	372.51	372.37	372.38	372.37	372.32	
17	372.24	372.64	372.69	372.38	372.66	373.41	372.53	372.51	372.37	372.38	372.36	372.32	
18	372.24	372.57	372.64	372.38	372.64	373.28	372.53	372.49	372.36	372.38	372.36	372.31	
19	372.22	372.59	372.64	372.38	372.62	373.32	372.53	372.49	372.36	372.38	372.36	372.31	
20	372.20	372.78	372.64	372.44	372.62	373.07	372.52	372.48	372.36	372.38	372.34	372.36	
21	372.20	372.61	372.62	372.42	372.61	372.97	372.51	372.47	372.35	372.32	372.32	372.40	
22	372.20	372.57	372.60	372.40	372.74	372.91	372.50	372.46	372.35	372.26	372.32	372.46	
23	372.24	372.54	372.58	372.38	372.64	372.87	372.50	372.46	372.35	372.26	372.33	372.42	
24	372.24	372.63	372.54	372.34	372.60	372.85	372.49	372.46	372.35	372.25	372.36	372.40	
25	372.42	372.59	372.52	372.32	372.57	372.83	372.52	372.46	372.34	372.25	372.35	372.39	
26	372.42	372.53	372.52	372.32	372.57	372.81	372.52	372.46	372.34	372.25	372.36	372.38	
27	372.37	372.47	372.62	372.34	372.56	372.79	372.50	372.45	372.34	372.25	372.37	372.37	
28	372.44	372.63	372.60	372.35	372.64	372.76	372.49	372.45	372.34	372.25	372.36	372.37	
29	372.61	373.15	372.59	372.38	372.62	372.72	372.48	372.45	372.34	372.24		372.36	
30	372.76	372.85	372.53	372.38	372.60	372.69	372.48	372.45	372.33	372.24		372.38	
31		372.80		372.58	372.57		373.00		372.33	372.24		372.44	
Mean	372.24	372.65	372.71	372.45	372.63	373.01	372.62	372.60	372.37	372.33	372.32	372.36	
Max	372.76	373.15	373.55	372.59	372.97	374.62	373.00	373.65	372.42	372.38	372.37	372.46	374.62
Min	372.10	372.38	372.52	372.32	372.45	372.57	372.48	372.45	372.33	372.24	372.22	372.31	372.10

Annual Max Momentary Gage Height 374.75 m. (MSL.) , at 12.00 Hours , on Nov 1, 2008

Zero Gage at Bottom Elevation 372.54 m. (MSL.) , River Bed 371.75 m. (MSL.) ,

Left Bank Elevation 375.41 m. (MSL.) ,

Right Bank Elevation 375.99 m. (MSL.) , Drainage Are 153 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	1.74	5.25	2.86	2.72	2.58	4.20	42.50	1.12	0.82	0.28	0.82		
2	0.00	1.30	12.25	2.58	2.44	3.00	4.40	12.60	1.06	0.82	0.28	0.76		
3	0.00	4.40	8.10	2.72	2.16	3.80	8.10	7.50	1.06	0.82	0.28	0.64		
4	0.00	5.25	6.00	2.44	1.88	3.40	11.20	6.50	1.00	0.82	0.28	0.64		
5	0.18	2.16	8.10	2.16	1.42	3.40	9.00	5.50	1.00	0.82	0.26	0.70		
6	0.18	1.54	37.50	1.88	1.30	3.60	5.75	4.40	1.00	0.82	0.26	0.76		
7	0.18	1.24	9.30	1.74	1.36	3.60	6.50	4.00	0.94	0.82	0.24	0.70		
8	0.24	1.06	7.50	1.74	3.60	3.80	7.25	5.00	0.94	0.82	0.24	0.64		
9	0.24	1.00	6.00	2.02	3.40	3.80	6.75	4.00	0.94	0.82	0.32	0.64		
10	0.16	0.88	3.80	2.02	4.20	3.80	5.00	3.00	0.94	0.82	0.82	0.64		
11	0.14	14.40	3.60	1.60	4.60	35.50	4.20	2.72	0.88	0.82	0.82	0.82		
12	0.12	8.40	6.25	1.48	7.50	97.20	3.40	2.44	0.88	0.82	0.82	0.70		
13	0.12	18.80	3.80	1.36	5.75	59.50	2.86	2.30	0.88	0.88	0.82	0.58		
14	0.08	9.30	9.00	1.24	12.95	39.50	2.72	2.02	0.82	0.88	0.82	0.52		
15	0.08	5.25	6.50	1.12	10.20	37.00	2.44	1.88	0.82	0.88	0.82	0.58		
16	0.08	4.60	5.50	1.00	4.80	37.00	2.16	1.74	0.82	0.88	0.82	0.52		
17	0.28	3.80	4.80	0.88	4.20	30.95	2.02	1.74	0.82	0.88	0.76	0.52		
18	0.28	2.58	3.80	0.88	3.80	25.20	2.02	1.54	0.76	0.88	0.76	0.46		
19	0.24	2.86	3.80	0.88	3.40	26.90	2.02	1.54	0.76	0.88	0.76	0.46		
20	0.20	7.00	3.80	1.24	3.40	16.80	1.88	1.48	0.76	0.88	0.64	0.76		
21	0.20	3.20	3.40	1.12	3.20	12.95	1.74	1.42	0.70	0.52	0.52	1.00		
22	0.20	2.58	3.00	1.00	6.00	10.85	1.60	1.36	0.70	0.32	0.52	1.36		
23	0.28	2.16	2.72	0.88	3.80	9.60	1.60	1.36	0.70	0.32	0.58	1.12		
24	0.28	3.60	2.16	0.64	3.00	9.00	1.54	1.36	0.70	0.30	0.76	1.00		
25	1.12	2.86	1.88	0.52	2.58	8.40	1.88	1.36	0.64	0.30	0.70	0.94		
26	1.12	2.02	1.88	0.52	2.58	7.80	1.88	1.36	0.64	0.30	0.76	0.88		
27	0.82	1.42	3.40	0.64	2.44	7.25	1.60	1.30	0.64	0.30	0.82	0.82		
28	1.24	3.60	3.00	0.70	3.80	6.50	1.54	1.30	0.64	0.30	0.76	0.82		
29	3.20	20.00	2.86	0.88	3.40	5.50	1.48	1.30	0.64	0.28		0.76		
30	6.50	9.00	2.02	0.88	3.00	4.80	1.48	1.30	0.58	0.28		0.88		
31		7.50		2.72	2.58		14.00		0.58	0.28		1.24		
Total	17.76	155.50	180.97	44.34	121.46	522.98	124.21	127.82	25.36	20.38	16.52	23.68	1380.98	CMSDAY
Mean	0.59	5.02	6.03	1.43	3.92	17.43	4.01	4.26	0.82	0.66	0.59	0.76	3.78	CMS
Max	6.50	20.00	37.50	2.86	12.95	97.20	14.00	42.50	1.12	0.88	0.82	1.36	97.20	CMS
Min	0.00	0.88	1.88	0.52	1.30	2.58	1.48	1.30	0.58	0.28	0.24	0.46	0.00	CMS
Runoff	1.53	13.44	15.64	3.83	10.49	45.19	10.73	11.04	2.19	1.76	1.43	2.05	119.32	MCM

Momentary Peak 105.00 CMS. at 374.75 m. (MSL.) at 12.00 Hours , on Nov 1, 2008

Runoff Yield 24.73 Liters/Second/Square KM. Momentary Peak Yield 686.27 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Lam Sae at Ban Khon Buri, Nakhon Ratchasima (M.50)

Lat 14 - 31 - 05 N Long 102 - 14 - 46 E

Location : on right bank infront of Amphoe Khon Buri Office.

Ban Khon Buri **Amphoe** Khon Buri **Changwat** Nakhon Ratchasima

Drainge Area	864 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+198.700 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the automatic gage building. **Elevation** +203.760 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1965 to date.
Rating Operation	
Period of Rating	1965 - 1967, 1999 to date.
Rated by Float	-
Rated by Current Meter	1965 - 1982, 1999 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The weir situated about 2 kilometers downstream from the gage site. Stage-discharge relation defined by 7 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

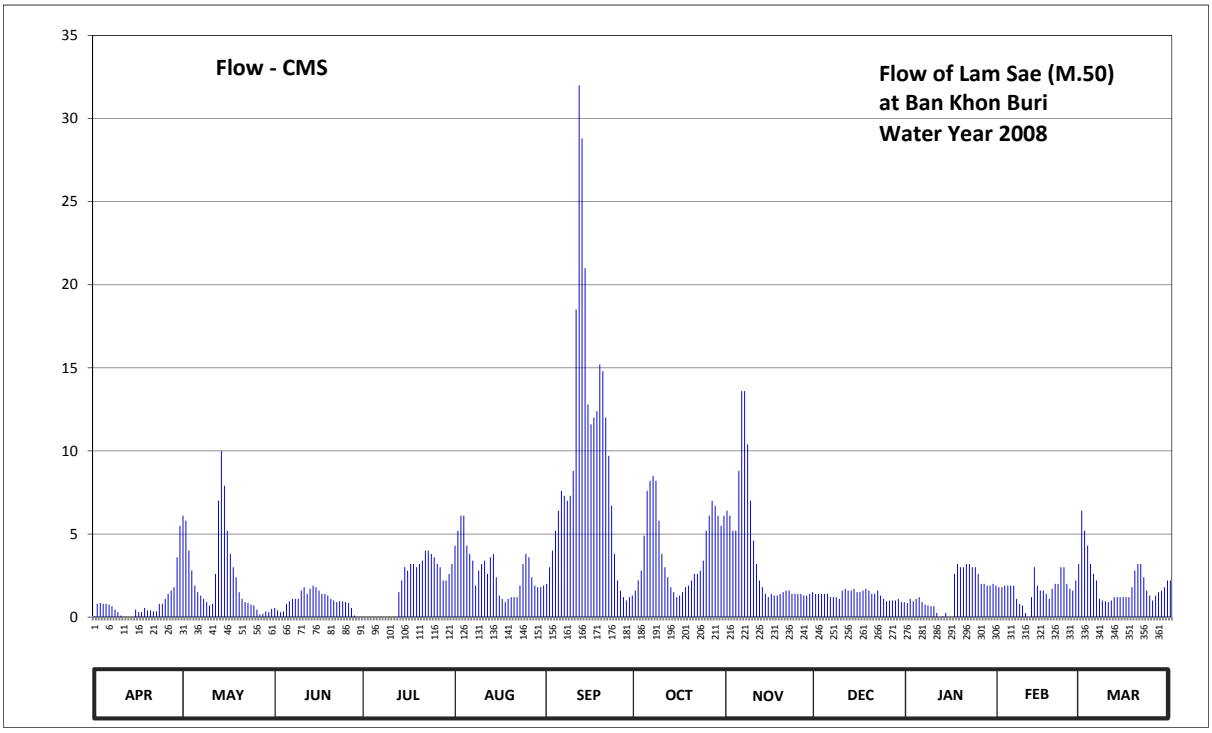
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	200.51	200.97	200.61	200.28	200.91	200.80	200.76	200.98	200.74	200.67	200.78	200.98	
2	200.66	200.96	200.58	200.27	200.94	200.85	200.81	200.97	200.74	200.71	200.78	200.94	
3	200.67	200.90	200.56	200.41	200.97	200.90	200.84	200.94	200.74	200.69	200.79	200.91	
4	200.66	200.84	200.57	200.45	200.97	200.94	200.93	200.94	200.74	200.71	200.79	200.86	
5	200.66	200.79	200.66	200.46	200.91	200.98	201.02	201.06	200.74	200.72	200.79	200.83	
6	200.65	200.75	200.69	200.43	200.89	201.02	201.04	201.19	200.72	200.68	200.79	200.81	
7	200.63	200.73	200.71	200.44	200.87	201.01	201.05	201.19	200.72	200.65	200.71	200.71	
8	200.59	200.71	200.71	200.42	200.79	201.00	201.04	201.11	200.72	200.64	200.66	200.70	
9	200.56	200.68	200.71	200.40	200.84	201.01	200.96	201.00	200.71	200.63	200.64	200.69	
10	200.52	200.64	200.76	200.38	200.86	201.06	200.89	200.92	200.76	200.63	200.55	200.68	
11	200.49	200.66	200.78	200.38	200.87	201.31	200.85	200.86	200.77	200.55	200.48	200.70	
12	200.44	200.83	200.74	200.41	200.83	201.55	200.82	200.81	200.76	200.50	200.72	200.72	
13	200.40	201.00	200.77	200.75	200.88	201.51	200.78	200.78	200.76	200.51	200.85	200.72	
14	200.49	201.10	200.79	200.81	200.89	201.36	200.75	200.74	200.77	200.55	200.79	200.72	
15	200.59	201.03	200.78	200.85	200.82	201.17	200.72	200.72	200.75	200.49	200.76	200.72	
16	200.56	200.94	200.76	200.84	200.73	201.14	200.73	200.74	200.75	200.50	200.76	200.72	
17	200.56	200.89	200.74	200.86	200.71	201.15	200.75	200.73	200.76	200.83	200.74	200.72	
18	200.61	200.85	200.74	200.86	200.68	201.16	200.78	200.73	200.77	200.86	200.71	200.78	
19	200.58	200.82	200.73	200.85	200.71	201.23	200.79	200.74	200.76	200.85	200.77	200.84	
20	200.58	200.75	200.71	200.86	200.72	201.22	200.81	200.75	200.74	200.85	200.80	200.86	
21	200.57	200.71	200.70	200.87	200.72	201.15	200.83	200.76	200.74	200.86	200.80	200.86	
22	200.57	200.68	200.68	200.90	200.72	201.09	200.83	200.76	200.76	200.86	200.85	200.82	
23	200.66	200.67	200.69	200.90	200.79	200.99	200.84	200.74	200.73	200.85	200.85	200.76	
24	200.66	200.65	200.69	200.89	200.86	200.89	200.87	200.74	200.71	200.85	200.80	200.73	
25	200.71	200.64	200.68	200.88	200.89	200.81	200.94	200.74	200.69	200.83	200.77	200.70	
26	200.74	200.59	200.67	200.86	200.88	200.76	200.97	200.74	200.70	200.80	200.76	200.73	
27	200.76	200.53	200.61	200.85	200.82	200.72	201.00	200.73	200.70	200.80	200.81	200.75	
28	200.78	200.54	200.52	200.81	200.79	200.70	200.99	200.73	200.70	200.79	200.86	200.76	
29	200.88	200.57	200.42	200.81	200.78	200.72	200.97	200.74	200.71	200.79		200.78	
30	200.95	200.56	200.34	200.83	200.78	200.73	200.95	200.75	200.68	200.80		200.81	
31		200.60		200.86	200.79		200.97		200.68	200.79		200.81	
Mean	200.62	200.76	200.67	200.67	200.83	201.03	200.88	200.84	200.73	200.72	200.76	200.78	
Max	200.95	201.10	200.79	200.90	200.97	201.55	201.05	201.19	200.77	200.86	200.86	200.98	201.55
Min	200.40	200.53	200.34	200.27	200.68	200.70	200.72	200.72	200.68	200.49	200.48	200.68	200.27

Annual Max Momentary Gage Height 201.57 m. (MSL.) , at 08.00 Hours , on Sep 12, 2008

Zero Gage at Bottom Elevation 198.70 m. (MSL.) , River Bed 198.15 m. (MSL.) ,

Left Bank Elevation 201.75 m. (MSL.) ,

Right Bank Elevation 201.81 m. (MSL.) , Drainage Are 864 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.05	6.10	0.55	0.00	4.30	2.00	1.60	6.40	1.40	0.85	1.80	6.40		
2	0.80	5.80	0.40	0.00	5.20	3.00	2.20	6.10	1.40	1.10	1.80	5.20		
3	0.85	4.00	0.30	0.00	6.10	4.00	2.80	5.20	1.40	0.95	1.90	4.30		
4	0.80	2.80	0.35	0.00	6.10	5.20	4.90	5.20	1.40	1.10	1.90	3.20		
5	0.80	1.90	0.80	0.00	4.30	6.40	7.60	8.80	1.40	1.20	1.90	2.60		
6	0.75	1.50	0.95	0.00	3.80	7.60	8.20	13.60	1.20	0.90	1.90	2.20		
7	0.65	1.30	1.10	0.00	3.40	7.30	8.50	13.60	1.20	0.75	1.10	1.10		
8	0.45	1.10	1.10	0.00	1.90	7.00	8.20	10.40	1.20	0.70	0.80	1.00		
9	0.30	0.90	1.10	0.00	2.80	7.30	5.80	7.00	1.10	0.65	0.70	0.95		
10	0.10	0.70	1.60	0.00	3.20	8.80	3.80	4.60	1.60	0.65	0.25	0.90		
11	0.00	0.80	1.80	0.00	3.40	18.50	3.00	3.20	1.70	0.25	0.00	1.00		
12	0.00	2.60	1.40	0.00	2.60	32.00	2.40	2.20	1.60	0.00	1.20	1.20		
13	0.00	7.00	1.70	1.50	3.60	28.80	1.80	1.80	1.60	0.05	3.00	1.20		
14	0.00	10.00	1.90	2.20	3.80	21.00	1.50	1.40	1.70	0.25	1.90	1.20		
15	0.45	7.90	1.80	3.00	2.40	12.80	1.20	1.20	1.50	0.00	1.60	1.20		
16	0.30	5.20	1.60	2.80	1.30	11.60	1.30	1.40	1.50	0.00	1.60	1.20		
17	0.30	3.80	1.40	3.20	1.10	12.00	1.50	1.30	1.60	2.60	1.40	1.20		
18	0.55	3.00	1.40	3.20	0.90	12.40	1.80	1.30	1.70	3.20	1.10	1.80		
19	0.40	2.40	1.30	3.00	1.10	15.20	1.90	1.40	1.60	3.00	1.70	2.80		
20	0.40	1.50	1.10	3.20	1.20	14.80	2.20	1.50	1.40	3.00	2.00	3.20		
21	0.35	1.10	1.00	3.40	1.20	12.00	2.60	1.60	1.40	3.20	2.00	3.20		
22	0.35	0.90	0.90	4.00	1.20	9.70	2.60	1.60	1.60	3.20	3.00	2.40		
23	0.80	0.85	0.95	4.00	1.90	6.70	2.80	1.40	1.30	3.00	3.00	1.60		
24	0.80	0.75	0.95	3.80	3.20	3.80	3.40	1.40	1.10	3.00	2.00	1.30		
25	1.10	0.70	0.90	3.60	3.80	2.20	5.20	1.40	0.95	2.60	1.70	1.00		
26	1.40	0.45	0.85	3.20	3.60	1.60	6.10	1.40	1.00	2.00	1.60	1.30		
27	1.60	0.15	0.55	3.00	2.40	1.20	7.00	1.30	1.00	2.00	2.20	1.50		
28	1.80	0.20	0.10	2.20	1.90	1.00	6.70	1.30	1.00	1.90	3.20	1.60		
29	3.60	0.35	0.00	2.20	1.80	1.20	6.10	1.40	1.10	1.90		1.80		
30	5.50	0.30	0.00	2.60	1.80	1.30	5.50	1.50	0.90	2.00		2.20		
31		0.50		3.20	1.90		6.10		0.90	1.90		2.20		
Total	25.25	76.55	29.85	57.30	87.20	278.40	126.30	111.90	41.45	47.90	48.25	63.95	994.30	CMSDAY
Mean	0.84	2.47	0.99	1.85	2.81	9.28	4.07	3.73	1.34	1.55	1.72	2.06	2.72	CMS
Max	5.50	10.00	1.90	4.00	6.10	32.00	8.50	13.60	1.70	3.20	3.20	6.40	32.00	CMS
Min	0.00	0.15	0.00	0.00	0.90	1.00	1.20	1.20	0.90	0.00	0.00	0.90	0.00	CMS
Runoff	2.18	6.61	2.58	4.95	7.53	24.05	10.91	9.67	3.58	4.14	4.17	5.53	85.91	MCM

Momentary Peak 33.60 CMS. at 201.57 m. (MSL.) at 08.00 Hours , on Sep 12, 2008

Runoff Yield 3.15 Liters/Second/Square KM. Momentary Peak Yield 38.89 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Huai Khayung at Ban Wang Chom Pu, Si Sa Ket (M.66)

Lat 14 - 38 - 27 N Long 104 - 39 - 50 E

Location : on right bank about 50 meters upstream from the bridge of Kantharalak - Det Udom Road.

Ban Wang Chom Pu **Amphoe** Kantharalak **Changwat** Si Sa Ket

Drainge Area	562 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+143.880 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	At the automatic gage building. **Elevation** +150.430 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, 1972 - 1981, 1987 to date.
Rated by Float	-
Rated by Current Meter	1965 - 1968, 1972 - 1981, 1987 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

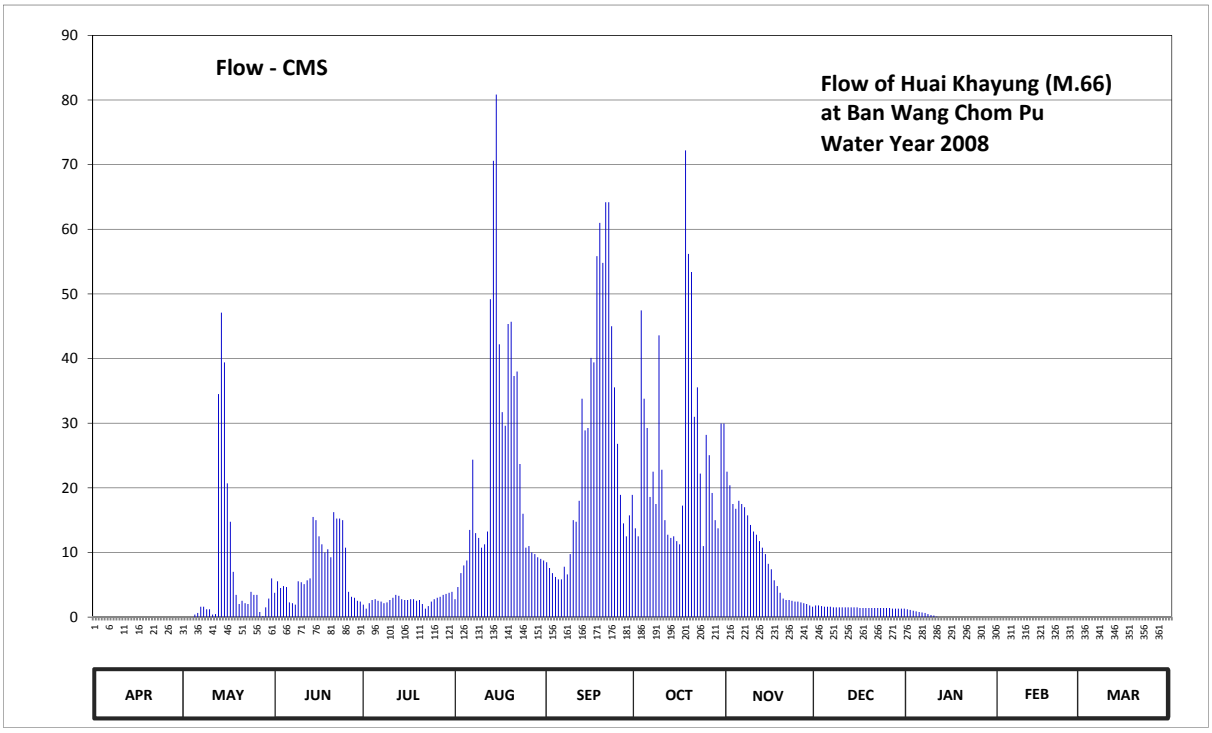
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	143.51	143.45	143.75	143.61	143.68	144.02	144.23	144.55	143.60	143.54	143.00	142.63	
2	143.53	143.45	143.87	143.55	143.81	143.98	144.18	144.48	143.60	143.53	142.99	142.63	
3	143.55	143.45	143.80	143.63	143.94	143.94	145.27	144.38	143.59	143.52	142.98	142.62	
4	143.57	143.45	143.82	143.67	144.00	143.91	144.88	144.35	143.58	143.51	142.97	142.65	
5	143.58	143.45	143.81	143.68	144.03	143.89	144.75	144.40	143.58	143.50	142.96	142.72	
6	143.58	143.48	143.64	143.66	144.22	143.89	144.42	144.38	143.58	143.49	142.95	142.90	
7	143.57	143.58	143.63	143.65	144.61	143.99	144.55	144.36	143.57	143.48	142.94	143.03	
8	143.57	143.58	143.61	143.63	144.20	143.93	144.38	144.31	143.57	143.46	142.93	143.16	
9	143.57	143.54	143.87	143.64	144.17	144.07	145.16	144.25	143.57	143.44	142.91	143.42	
10	143.57	143.54	143.86	143.67	144.11	144.28	144.56	144.21	143.57	143.43	142.86	143.50	
11	143.57	143.45	143.84	143.70	144.13	144.27	144.28	144.19	143.57	143.41	142.82	143.58	
12	143.56	143.46	143.88	143.73	144.21	144.40	144.19	144.15	143.57	143.39	142.78	143.56	
13	143.56	144.90	143.90	143.72	145.32	144.88	144.17	144.11	143.57	143.38	142.76	143.56	
14	143.56	145.26	144.30	143.68	145.89	144.74	144.18	144.07	143.57	143.35	142.73	143.55	
15	143.56	145.04	144.28	143.67	146.13	144.75	144.15	144.01	143.57	143.33	142.71	143.55	
16	143.56	144.49	144.18	143.67	145.12	145.06	144.13	143.97	143.56	143.30	142.69	143.55	
17	143.56	144.27	144.13	143.68	144.82	145.04	144.37	143.88	143.56	143.28	142.68	143.54	
18	143.56	143.95	144.08	143.68	144.76	145.51	145.93	143.82	143.56	143.25	142.66	143.54	
19	143.56	143.73	144.10	143.66	145.21	145.65	145.52	143.75	143.56	143.23	142.65	143.54	
20	143.57	143.62	144.05	143.67	145.22	145.48	145.44	143.69	143.56	143.21	142.64	143.53	
21	143.57	143.66	144.33	143.62	144.98	145.73	144.80	143.67	143.56	143.20	142.63	143.56	
22	143.57	143.63	144.29	143.55	145.00	145.73	144.93	143.67	143.56	143.18	142.63	143.55	
23	143.56	143.62	144.29	143.59	144.59	145.20	144.54	143.66	143.56	143.16	142.63	143.55	
24	143.55	143.76	144.28	143.65	144.32	144.93	144.12	143.65	143.56	143.13	142.63	143.55	
25	143.53	143.73	144.11	143.68	144.11	144.68	144.72	143.65	143.56	143.10	142.63	143.55	
26	143.48	143.73	143.76	143.70	144.12	144.43	144.63	143.64	143.56	143.08	142.63	143.55	
27	143.47	143.50	143.71	143.71	144.08	144.26	144.44	143.63	143.55	143.06	142.63	143.56	
28	143.47	143.42	143.70	143.73	144.07	144.18	144.28	143.62	143.55	143.04	142.63	143.57	
29	143.46	143.57	143.66	143.74	144.05	144.31	144.23	143.60	143.55	143.02		143.56	
30	143.46	143.69	143.65	143.75	144.04	144.43	144.77	143.58	143.55	143.01		143.57	
31		143.90		143.76	144.03		144.77		143.55	143.00		143.58	
Mean	143.54	143.79	143.94	143.67	144.48	144.59	144.61	143.99	143.57	143.29	142.77	143.35	
Max	143.58	145.26	144.33	143.76	146.13	145.73	145.93	144.55	143.60	143.54	143.00	143.58	146.13
Min	143.46	143.42	143.61	143.55	143.68	143.89	144.12	143.58	143.55	143.00	142.63	142.62	142.62

Annual Max Momentary Gage Height 146.38 m. (MSL.) , at 06.00 Hours , on Aug 15, 2008

Zero Gage at Bottom Elevation 143.88 m. (MSL.) , River Bed 141.85 m. (MSL.) ,

Left Bank Elevation 149.96 m. (MSL.) ,

Right Bank Elevation 150.36 m. (MSL.) , Drainage Are 562 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	3.75	1.92	2.76	8.50	13.75	22.50	1.80	1.20	0.00	0.00		
2	0.00	0.00	5.55	1.30	4.65	7.60	12.50	20.40	1.80	1.10	0.00	0.00		
3	0.00	0.00	4.50	2.16	6.80	6.80	47.45	17.50	1.70	1.00	0.00	0.00		
4	0.00	0.00	4.80	2.64	8.00	6.20	33.80	16.75	1.60	0.90	0.00	0.00		
5	0.00	0.40	4.65	2.76	8.75	5.85	29.25	18.00	1.60	0.80	0.00	0.00		
6	0.00	0.64	2.28	2.52	13.50	5.85	18.60	17.50	1.60	0.72	0.00	0.00		
7	0.00	1.60	2.16	2.40	24.35	7.80	22.50	17.00	1.50	0.64	0.00	0.00		
8	0.00	1.60	1.92	2.16	13.00	6.60	17.50	15.75	1.50	0.48	0.00	0.00		
9	0.00	1.20	5.55	2.28	12.25	9.75	43.60	14.25	1.50	0.32	0.00	0.00		
10	0.00	1.20	5.40	2.64	10.75	15.00	22.80	13.25	1.50	0.24	0.00	0.00		
11	0.00	0.40	5.10	3.00	11.25	14.75	15.00	12.75	1.50	0.08	0.00	0.00		
12	0.00	0.48	5.70	3.45	13.25	18.00	12.75	11.75	1.50	0.00	0.00	0.00		
13	0.00	34.50	6.00	3.30	49.20	33.80	12.25	10.75	1.50	0.00	0.00	0.00		
14	0.00	47.10	15.50	2.76	70.60	28.90	12.50	9.75	1.50	0.00	0.00	0.00		
15	0.00	39.40	15.00	2.64	80.85	29.25	11.75	8.25	1.50	0.00	0.00	0.00		
16	0.00	20.70	12.50	2.64	42.20	40.10	11.25	7.40	1.40	0.00	0.00	0.00		
17	0.00	14.75	11.25	2.76	31.70	39.40	17.25	5.70	1.40	0.00	0.00	0.00		
18	0.00	7.00	10.00	2.76	29.60	55.85	72.20	4.80	1.40	0.00	0.00	0.00		
19	0.00	3.45	10.50	2.52	45.35	61.00	56.20	3.75	1.40	0.00	0.00	0.00		
20	0.00	2.04	9.25	2.64	45.70	54.80	53.40	2.88	1.40	0.00	0.00	0.00		
21	0.00	2.52	16.25	2.04	37.30	64.20	31.00	2.64	1.40	0.00	0.00	0.00		
22	0.00	2.16	15.25	1.30	38.00	64.20	35.55	2.64	1.40	0.00	0.00	0.00		
23	0.00	2.04	15.25	1.70	23.70	45.00	22.20	2.52	1.40	0.00	0.00	0.00		
24	0.00	3.90	15.00	2.40	16.00	35.55	11.00	2.40	1.40	0.00	0.00	0.00		
25	0.00	3.45	10.75	2.76	10.75	26.80	28.20	2.40	1.40	0.00	0.00	0.00		
26	0.00	3.45	3.90	3.00	11.00	18.90	25.05	2.28	1.40	0.00	0.00	0.00		
27	0.00	0.80	3.15	3.15	10.00	14.50	19.20	2.16	1.30	0.00	0.00	0.00		
28	0.00	0.16	3.00	3.45	9.75	12.50	15.00	2.04	1.30	0.00	0.00	0.00		
29	0.00	1.50	2.52	3.60	9.25	15.75	13.75	1.80	1.30	0.00		0.00		
30	0.00	2.88	2.40	3.75	9.00	18.90	29.95	1.60	1.30	0.00		0.00		
31		6.00		3.90	8.75		29.95		1.30	0.00		0.00		
Total	0.00	205.32	228.83	82.30	708.01	772.10	797.15	273.16	45.50	7.48	0.00	0.00	3119.85	CMSDAY
Mean	0.00	6.62	7.63	2.65	22.84	25.74	25.71	9.11	1.47	0.24	0.00	0.00	8.55	CMSDAY
Max	0.00	47.10	16.25	3.90	80.85	64.20	72.20	22.50	1.80	1.20	0.00	0.00	80.85	CMSDAY
Min	0.00	0.00	1.92	1.30	2.76	5.85	11.00	1.60	1.30	0.00	0.00	0.00	0.00	CMSDAY
Runoff	0.00	17.74	19.77	7.11	61.17	66.71	68.87	23.60	3.93	0.65	0.00	0.00	269.56	MCM

Momentary Peak 92.10 CMS. at 146.38 m. (MSL.) at 06.00 Hours , on Aug 15, 2008

Runoff Yield 15.21 Liters/Second/Square KM. Momentary Peak Yield 163.88 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Lam Se Bok at Ban Tha Bo Baeng, Ubon Ratchathani (M.69)

Lat 15 - 30 - 11 N Long 104 - 58 - 01 E

Location : on left bank about 100 meters upstream from the bridge of Ubon - Trakan Phutphon Highway.

Ban Tha Bo Bang **Amphoe** Trakan Phutphon **Changwat** Ubon Ratchathani

Drainge Area	2,129 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+106.040 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +116.030 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	1971 to date.
Rated by Float	-
Rated by Current Meter	1971 to date.
Stability of Channel Regimes	Stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevetion +113.730 m.(MSL.) and is including overbank flow.
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

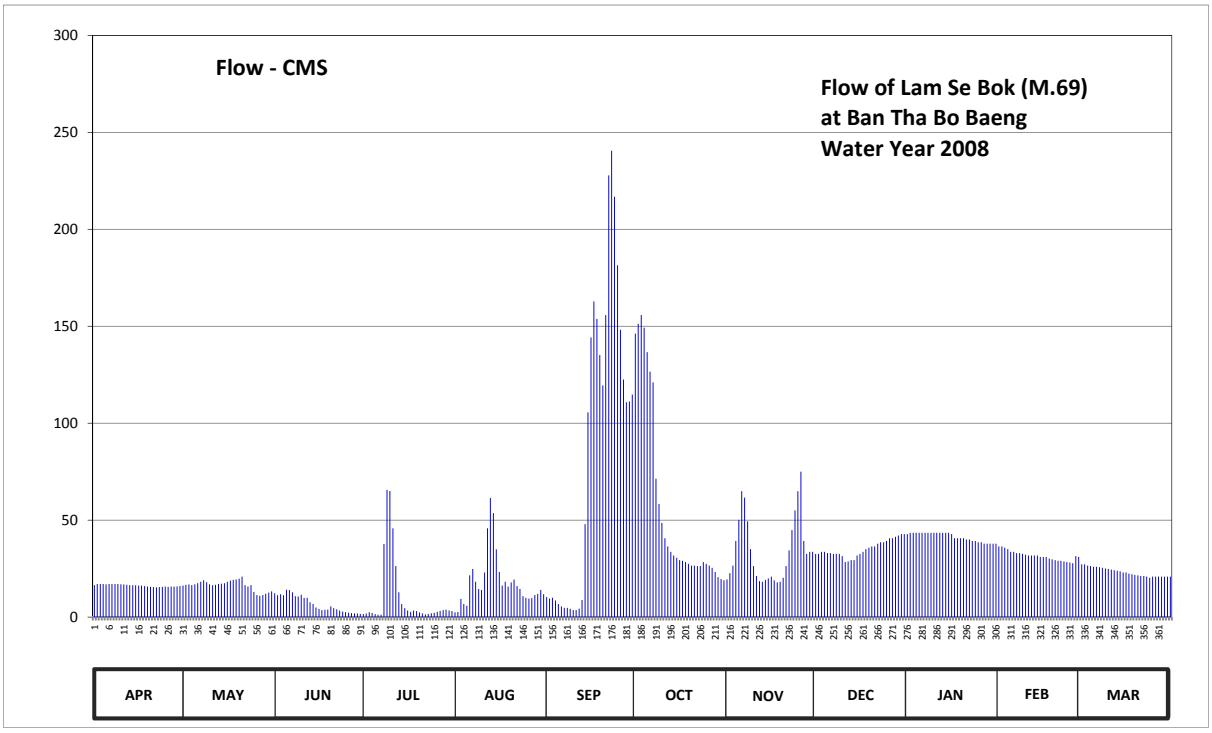
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.39	110.37	110.01	107.83	107.72	108.22	112.06	110.57	110.99	111.14	111.05	110.84	
2	110.43	110.40	109.90	107.96	107.73	108.18	112.16	110.69	110.99	111.15	111.05	110.84	
3	110.43	110.41	109.95	108.23	108.17	108.20	112.25	110.82	111.01	111.15	111.04	110.82	
4	110.43	110.39	109.90	108.06	108.04	108.13	112.12	111.09	111.01	111.15	111.03	110.81	
5	110.42	110.42	110.21	107.83	107.99	108.04	111.87	111.24	111.00	111.15	111.01	110.80	
6	110.43	110.46	110.19	107.69	108.65	107.96	111.67	111.39	111.00	111.15	111.01	110.80	
7	110.43	110.51	110.06	107.68	108.76	107.90	111.56	111.36	110.99	111.15	111.00	110.79	
8	110.43	110.55	109.84	109.19	108.54	107.90	111.43	111.23	110.99	111.15	111.00	110.78	
9	110.43	110.50	109.82	110.12	108.40	107.86	111.33	111.03	110.99	111.15	110.99	110.77	
10	110.42	110.42	109.92	110.10	108.38	107.81	111.22	110.81	110.96	111.15	110.98	110.76	
11	110.41	110.38	109.74	109.46	108.70	107.81	111.11	110.64	110.88	111.15	110.97	110.75	
12	110.40	110.40	109.75	108.81	109.46	107.87	111.05	110.53	110.89	111.15	110.97	110.74	
13	110.39	110.43	109.49	108.33	109.98	108.14	111.01	110.51	110.91	111.15	110.97	110.73	
14	110.38	110.44	109.39	108.04	109.72	109.53	110.97	110.56	110.91	111.15	110.97	110.72	
15	110.38	110.46	109.09	107.89	109.10	111.19	110.94	110.60	110.97	111.15	110.95	110.70	
16	110.37	110.51	108.87	107.79	108.71	112.02	110.91	110.63	110.99	111.14	110.95	110.70	
17	110.37	110.54	108.64	107.74	108.47	112.39	110.90	110.55	111.01	111.11	110.95	110.68	
18	110.35	110.56	108.72	107.79	108.54	112.21	110.88	110.49	111.03	111.11	110.93	110.67	
19	110.33	110.57	108.75	107.77	108.45	111.84	110.85	110.51	111.04	111.11	110.92	110.66	
20	110.32	110.59	109.21	107.71	108.53	111.53	110.82	110.61	111.05	111.11	110.91	110.65	
21	110.31	110.63	109.02	107.67	108.58	112.25	110.82	110.81	111.05	111.10	110.90	110.64	
22	110.30	110.39	108.82	107.63	108.46	113.59	110.81	111.02	111.07	111.10	110.90	110.64	
23	110.31	110.33	108.56	107.65	108.40	113.81	110.81	111.17	111.08	111.09	110.89	110.63	
24	110.32	110.39	108.36	107.68	108.24	113.40	110.88	111.30	111.08	111.09	110.88	110.61	
25	110.33	110.08	108.23	107.70	108.20	112.76	110.85	111.39	111.09	111.08	110.87	110.63	
26	110.32	109.91	108.12	107.74	108.18	112.10	110.82	111.45	111.11	111.08	110.86	110.63	
27	110.33	109.86	108.02	107.78	108.19	111.59	110.78	111.09	111.11	111.07	110.96	110.63	
28	110.33	109.91	107.97	107.81	108.27	111.32	110.71	110.99	111.12	111.07	110.95	110.63	
29	110.34	109.98	107.94	107.82	108.30	111.33	110.62	111.01	111.13	111.07		110.63	
30	110.35	110.04	107.85	107.79	108.38	111.42	110.58	111.01	111.14	111.07		110.63	
31		110.12		107.77	108.29		110.55		111.14	111.07		110.63	
Mean	110.37	110.35	109.14	108.10	108.50	110.28	111.14	110.90	111.02	111.12	110.96	110.71	
Max	110.43	110.63	110.21	110.12	109.98	113.81	112.25	111.45	111.14	111.15	111.05	110.84	113.81
Min	110.30	109.86	107.85	107.63	107.72	107.81	110.55	110.49	110.88	111.07	110.86	110.61	107.63

Annual Max Momentary Gage Height 113.88 m. (MSL.) , at 03.00 Hours , on Sep 23, 2008

Zero Gage at Bottom Elevation 106.04 m. (MSL.) , River Bed 106.38 m. (MSL.) ,

Left Bank Elevation 113.72 m. (MSL.) ,

Right Bank Elevation 114.24 m. (MSL.) , Drainage Are 2,129 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.53	16.27	12.31	1.58	2.50	10.40	146.22	19.40	32.60	42.80	36.50	27.20		
2	17.07	16.67	11.33	1.90	2.63	9.60	151.25	22.70	32.60	43.50	36.50	27.20		
3	17.07	16.80	11.78	2.58	9.40	10.00	155.79	26.60	33.70	43.50	35.80	26.60		
4	17.07	16.53	11.33	2.15	6.80	8.60	149.24	39.30	33.70	43.50	35.10	26.30		
5	16.93	16.93	14.13	1.58	5.88	6.80	136.64	50.20	33.00	43.50	33.70	26.00		
6	17.07	17.47	13.91	1.23	21.50	5.50	126.57	64.90	33.00	43.50	33.70	26.00		
7	17.07	18.20	12.76	1.20	24.80	4.75	121.02	61.60	32.60	43.50	33.00	25.70		
8	17.07	19.00	10.80	37.70	18.20	4.75	71.40	49.40	32.60	43.50	33.00	25.40		
9	17.07	18.00	10.62	65.60	14.50	4.25	58.30	35.10	32.60	43.50	32.60	25.10		
10	16.93	16.93	11.51	65.00	14.00	3.63	48.60	26.30	31.40	43.50	32.20	24.80		
11	16.80	16.40	9.91	45.80	23.00	3.63	40.70	21.20	28.40	43.50	31.80	24.50		
12	16.67	16.67	10.00	26.30	45.80	4.38	36.50	18.60	28.70	43.50	31.80	24.20		
13	16.53	17.07	7.69	12.75	61.40	8.80	33.70	18.20	29.40	43.50	31.80	23.90		
14	16.40	17.20	6.80	6.80	53.60	47.90	31.80	19.20	29.40	43.50	31.80	23.60		
15	16.40	17.47	4.95	4.63	35.00	105.60	30.60	20.00	31.80	43.50	31.00	23.00		
16	16.27	18.20	4.18	3.38	23.30	144.20	29.40	20.90	32.60	42.80	31.00	23.00		
17	16.27	18.80	3.60	2.75	16.25	162.84	29.00	19.00	33.70	40.70	31.00	22.40		
18	16.00	19.20	3.80	3.38	18.20	153.77	28.40	17.87	35.10	40.70	30.20	22.10		
19	15.73	19.40	3.88	3.13	15.75	135.13	27.50	18.20	35.80	40.70	29.80	21.80		
20	15.60	19.80	5.55	2.38	17.90	119.51	26.60	20.30	36.50	40.70	29.40	21.50		
21	15.47	20.90	4.60	1.88	19.40	155.79	26.60	26.30	36.50	40.00	29.00	21.20		
22	15.33	16.53	4.05	1.38	16.00	227.82	26.30	34.40	37.90	40.00	29.00	21.20		
23	15.47	15.73	3.40	1.63	14.50	240.58	26.30	44.90	38.60	39.30	28.70	20.90		
24	15.60	16.53	2.90	2.00	10.80	216.80	28.40	55.00	38.60	39.30	28.40	20.30		
25	15.73	12.93	2.58	2.25	10.00	181.49	27.50	64.90	39.30	38.60	28.10	20.90		
26	15.60	11.42	2.30	2.75	9.60	148.23	26.60	75.00	40.70	38.60	27.80	20.90		
27	15.73	10.98	2.05	3.25	9.80	122.54	25.40	39.30	40.70	37.90	31.40	20.90		
28	15.73	11.42	1.93	3.63	11.40	110.80	23.30	32.60	41.40	37.90	31.00	20.90		
29	15.87	12.05	1.85	3.75	12.00	111.20	20.60	33.70	42.10	37.90		20.90		
30	16.00	12.58	1.63	3.38	14.00	114.80	19.60	33.70	42.80	37.90		20.90		
31		13.29		3.13	11.80		19.00		42.80	37.90		20.90		
Total	489.08	507.37	208.13	320.85	569.71	2584.09	1748.83	1028.77	1090.60	1282.70	885.10	720.20	11435.43	CMSDAY
Mean	16.30	16.37	6.94	10.35	18.38	86.14	56.41	34.29	35.18	41.38	31.61	23.23	31.33	CMSDAY
Max	17.07	20.90	14.13	65.60	61.40	240.58	155.79	75.00	42.80	43.50	36.50	27.20	240.58	CMSDAY
Min	15.33	10.98	1.63	1.20	2.50	3.63	19.00	17.87	28.40	37.90	27.80	20.30	1.20	CMSDAY
Runoff	42.26	43.84	17.98	27.72	49.22	223.27	151.10	88.89	94.23	110.83	76.47	62.23	988.02	MCM

Momentary Peak 244.64 CMS. at 113.88 m. (MSL.) at 03.00 Hours , on Sep 23, 2008

Runoff Yield 14.72 Liters/Second/Square KM. Momentary Peak Yield 114.91 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Lam Takhong at Vaccine Serum Office, Nakhon Ratchasima (M.89)

Lat 14 - 41 - 39 N Long 101 - 25 - 00 E

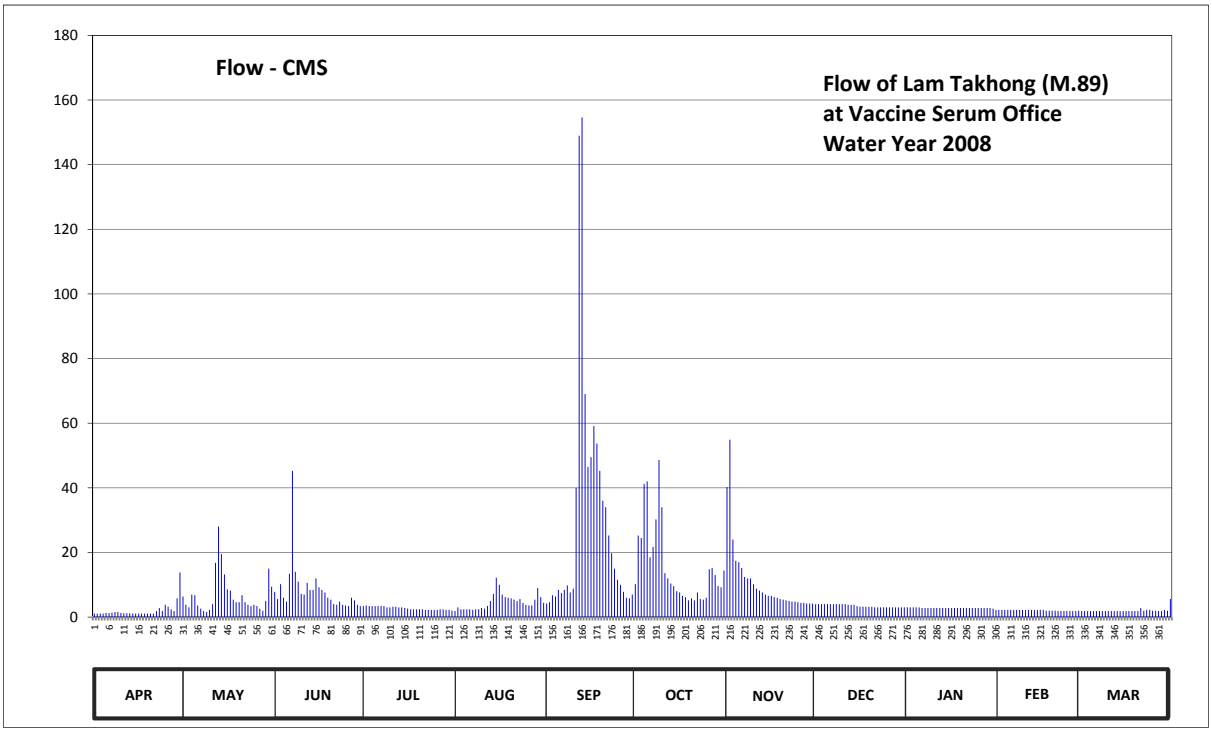
Location : on left bank at the bridge infront of Vaccine Serum Office.

	Ban -	**Amphoe**	Pak Chong	**Changwat** Nakhon Ratchasima
Drainge Area	713 sq.km.			
Type of Gage	Water - stage recorder.			
Zero Gage at Bottom	+290.920 m. (MSL.)			
Bench Mark	B.M.-H.D.			
Location BM	On left bank at the abutment of the bridge.			**Elevation** +299.980 m. (MSL.)
Gage Reading Frequency	Recording.			
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings			
Period of Available Gage Records	1970 to date			
Rating Operation				
Period of Rating	1971 to date			
Rated by Float	-			
Rated by Current Meter	1971 to date			
Stability of Channel Regimes	Stable.			
Overbank Flow Conditions	Overbank flow starts at elevation +298.090 m.(MSL), records are channel flow only.			
General Description	Records good. Stage-discharge relation defined by 36 discharge measurements made in 2008.			

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	292.11	292.42	292.49	292.27	292.19	292.31	292.61	293.89	292.30	292.25	292.21	292.19	
2	292.11	292.29	292.38	292.28	292.25	292.33	293.29	294.43	292.30	292.25	292.21	292.19	
3	292.11	292.25	292.61	292.27	292.22	292.44	293.26	293.24	292.30	292.25	292.21	292.19	
4	292.11	292.45	292.40	292.27	292.22	292.42	293.93	292.97	292.30	292.25	292.21	292.19	
5	292.13	292.44	292.34	292.27	292.22	292.52	293.96	292.95	292.30	292.25	292.21	292.19	
6	292.13	292.28	292.77	292.27	292.22	292.47	293.02	292.86	292.30	292.24	292.21	292.19	
7	292.14	292.23	294.09	292.27	292.21	292.52	293.15	292.72	292.30	292.24	292.21	292.19	
8	292.16	292.19	292.80	292.27	292.22	292.59	293.49	292.70	292.30	292.24	292.21	292.19	
9	292.16	292.16	292.65	292.25	292.22	292.48	294.22	292.70	292.30	292.24	292.21	292.19	
10	292.13	292.21	292.46	292.25	292.24	292.54	293.64	292.61	292.30	292.24	292.21	292.19	
11	292.12	292.30	292.45	292.26	292.23	293.88	292.78	292.54	292.30	292.24	292.21	292.19	
12	292.12	292.94	292.63	292.26	292.27	297.05	292.70	292.51	292.29	292.24	292.21	292.19	
13	292.12	293.40	292.52	292.25	292.35	297.19	292.62	292.48	292.29	292.24	292.21	292.19	
14	292.11	293.06	292.52	292.25	292.46	294.90	292.58	292.45	292.29	292.24	292.21	292.19	
15	292.11	292.76	292.70	292.24	292.71	294.14	292.50	292.43	292.27	292.24	292.21	292.19	
16	292.11	292.53	292.56	292.23	292.60	294.25	292.48	292.43	292.26	292.24	292.21	292.19	
17	292.11	292.51	292.52	292.22	292.45	294.57	292.43	292.41	292.26	292.24	292.20	292.19	
18	292.11	292.37	292.48	292.22	292.41	294.39	292.41	292.40	292.26	292.24	292.20	292.19	
19	292.11	292.33	292.40	292.22	292.40	294.09	292.36	292.38	292.26	292.24	292.20	292.19	
20	292.11	292.33	292.37	292.22	292.39	293.72	292.39	292.37	292.26	292.24	292.20	292.19	
21	292.11	292.44	292.30	292.22	292.37	293.64	292.36	292.36	292.25	292.24	292.19	292.24	
22	292.19	292.33	292.29	292.21	292.35	293.29	292.48	292.35	292.25	292.24	292.19	292.20	
23	292.24	292.29	292.34	292.21	292.38	293.07	292.38	292.34	292.25	292.24	292.19	292.21	
24	292.19	292.27	292.29	292.21	292.32	292.85	292.37	292.34	292.25	292.24	292.19	292.21	
25	292.29	292.29	292.28	292.21	292.29	292.68	292.40	292.33	292.25	292.24	292.19	292.20	
26	292.26	292.27	292.27	292.21	292.28	292.60	292.84	292.32	292.25	292.24	292.19	292.20	
27	292.22	292.23	292.40	292.22	292.28	292.49	292.86	292.32	292.25	292.24	292.19	292.19	
28	292.19	292.20	292.36	292.22	292.37	292.40	292.75	292.31	292.25	292.24	292.20	292.19	
29	292.39	292.35	292.29	292.21	292.55	292.39	292.58	292.31	292.25	292.24		292.21	
30	292.79	292.85	292.27	292.21	292.41	292.45	292.56	292.31	292.25	292.23		292.20	
31		292.57		292.20	292.32		292.82		292.25	292.21		292.38	
Mean	292.18	292.44	292.51	292.24	292.34	293.36	292.85	292.63	292.27	292.24	292.20	292.20	
Max	292.79	293.40	294.09	292.28	292.71	297.19	294.22	294.43	292.30	292.25	292.21	292.38	297.19
Min	292.11	292.16	292.27	292.20	292.19	292.31	292.36	292.31	292.25	292.21	292.19	292.19	292.11

Annual Max Momentary Gage Height	298.12	m. (MSL.) ,	at 02.00 Hours , on Sep 13, 2008		
Zero Gage at Bottom Elevation	290.92	m. (MSL.) ,	River Bed	291.31	m. (MSL.)
Left Bank Elevation	298.08	m. (MSL.) ,			
Right Bank Elevation	298.22	m. (MSL.) ,	Drainage Are	713	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	6.40	7.80	3.40	1.90	4.20	10.20	40.25	4.00	3.00	2.20	1.90		
2	1.10	3.80	5.60	3.60	3.00	4.60	25.25	54.90	4.00	3.00	2.20	1.90		
3	1.10	3.00	10.20	3.40	2.40	6.80	24.50	24.00	4.00	3.00	2.20	1.90		
4	1.10	7.00	6.00	3.40	2.40	6.40	41.25	17.40	4.00	3.00	2.20	1.90		
5	1.30	6.80	4.80	3.40	2.40	8.40	42.00	17.00	4.00	3.00	2.20	1.90		
6	1.30	3.60	13.40	3.40	2.40	7.40	18.50	15.20	4.00	2.80	2.20	1.90		
7	1.40	2.60	45.25	3.40	2.20	8.40	21.75	12.40	4.00	2.80	2.20	1.90		
8	1.60	1.90	14.00	3.40	2.40	9.80	30.25	12.00	4.00	2.80	2.20	1.90		
9	1.60	1.60	11.00	3.00	2.40	7.60	48.60	12.00	4.00	2.80	2.20	1.90		
10	1.30	2.20	7.20	3.00	2.80	8.80	34.00	10.20	4.00	2.80	2.20	1.90		
11	1.20	4.00	7.00	3.20	2.60	40.00	13.60	8.80	4.00	2.80	2.20	1.90		
12	1.20	16.80	10.60	3.20	3.40	149.00	12.00	8.20	3.80	2.80	2.20	1.90		
13	1.20	28.00	8.40	3.00	5.00	154.60	10.40	7.60	3.80	2.80	2.20	1.90		
14	1.10	19.50	8.40	3.00	7.20	69.00	9.60	7.00	3.80	2.80	2.20	1.90		
15	1.10	13.20	12.00	2.80	12.20	46.50	8.00	6.60	3.40	2.80	2.20	1.90		
16	1.10	8.60	9.20	2.60	10.00	49.50	7.60	6.60	3.20	2.80	2.20	1.90		
17	1.10	8.20	8.40	2.40	7.00	59.10	6.60	6.20	3.20	2.80	2.00	1.90		
18	1.10	5.40	7.60	2.40	6.20	53.70	6.20	6.00	3.20	2.80	2.00	1.90		
19	1.10	4.60	6.00	2.40	6.00	45.25	5.20	5.60	3.20	2.80	2.00	1.90		
20	1.10	4.60	5.40	2.40	5.80	36.00	5.80	5.40	3.20	2.80	2.00	1.90		
21	1.10	6.80	4.00	2.40	5.40	34.00	5.20	5.20	3.00	2.80	1.90	2.80		
22	1.90	4.60	3.80	2.20	5.00	25.25	7.60	5.00	3.00	2.80	1.90	2.00		
23	2.80	3.80	4.80	2.20	5.60	19.75	5.60	4.80	3.00	2.80	1.90	2.20		
24	1.90	3.40	3.80	2.20	4.40	15.00	5.40	4.80	3.00	2.80	1.90	2.20		
25	3.80	3.80	3.60	2.20	3.80	11.60	6.00	4.60	3.00	2.80	1.90	2.00		
26	3.20	3.40	3.40	2.20	3.60	10.00	14.80	4.40	3.00	2.80	1.90	2.00		
27	2.40	2.60	6.00	2.40	3.60	7.80	15.20	4.40	3.00	2.80	1.90	1.90		
28	1.90	2.00	5.20	2.40	5.40	6.00	13.00	4.20	3.00	2.80	2.00	1.90		
29	5.80	5.00	3.80	2.20	9.00	5.80	9.60	4.20	3.00	2.80		2.20		
30	13.80	15.00	3.40	2.20	6.20	7.00	9.20	4.20	3.00	2.60		2.00		
31		9.40		2.00	4.40		14.40		3.00	2.20		5.60		
Total	62.80	211.60	250.05	85.40	146.10	917.25	487.30	329.15	107.80	87.00	58.50	64.80	2807.75	CMSDAY
Mean	2.09	6.83	8.34	2.75	4.71	30.57	15.72	10.97	3.48	2.81	2.09	2.09	7.69	CMS
Max	13.80	28.00	45.25	3.60	12.20	154.60	48.60	54.90	4.00	3.00	2.20	5.60	154.60	CMS
Min	1.10	1.60	3.40	2.00	1.90	4.20	5.20	4.20	3.00	2.20	1.90	1.90	1.10	CMS
Runoff	5.43	18.28	21.60	7.38	12.62	79.25	42.10	28.44	9.31	7.52	5.05	5.60	242.59	MCM

Momentary Peak 216.20 CMS. at 298.12 m. (MSL.) at 02.00 Hours , on Sep 13, 2008

Runoff Yield 10.79 Liters/Second/Square KM. Momentary Peak Yield 303.23 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Huai Samran at Ban Thai Thaworn, Si Sa Ket (M.91)

Lat 14 - 29 - 40 N Long 104 - 03 - 34 E

Location : on right bank about 15 kilometers, the highway at Ban Thai Thaworn.

Ban Thai Thaworn **Amphoe** Phu Sing **Changwat** Si Sa Ket

Drainge Area	141 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+175.259 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank downstream at the abutment of the bridge. **Elevation** +184.120 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 mean of 5 readings
Period of Available Gage Records	1977 to date.
Rating Operation	
Period of Rating	1977 - 1978, 1983 to date.
Rated by Float	-
Rated by Current Meter	1977 - 1978, 1983 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Huai Samran reservoir situated about 5 kilometers upstream and the local weir situated about 800 maters downstream from the gage site. Stage-discharge relation defined by 48 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

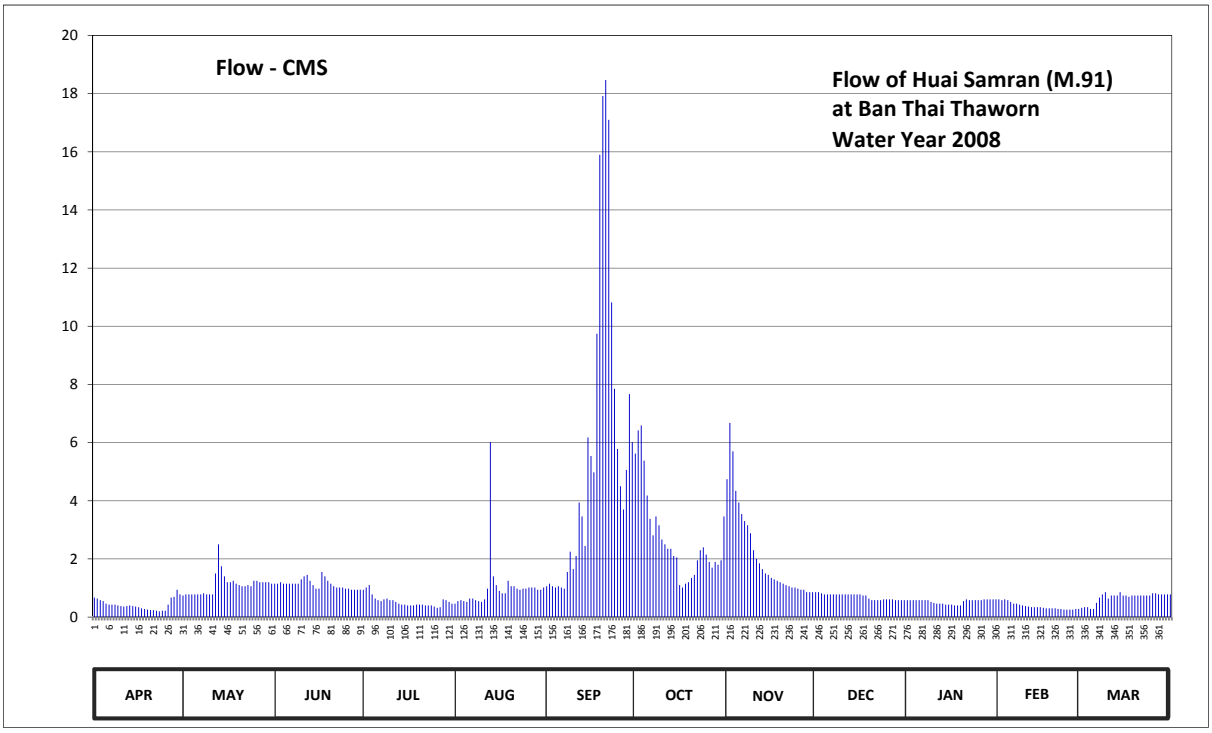
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.49	176.51	176.61	176.56	176.42	176.59	177.29	177.18	176.54	176.46	176.47	176.36	
2	176.48	176.52	176.61	176.58	176.45	176.61	177.39	177.42	176.54	176.46	176.46	176.37	
3	176.46	176.52	176.62	176.60	176.46	176.59	177.41	177.30	176.53	176.46	176.47	176.37	
4	176.45	176.52	176.61	176.52	176.45	176.58	177.26	177.13	176.52	176.46	176.46	176.34	
5	176.42	176.52	176.61	176.48	176.44	176.59	177.11	177.08	176.52	176.46	176.44	176.34	
6	176.41	176.52	176.61	176.46	176.48	176.58	177.01	177.03	176.52	176.46	176.42	176.43	
7	176.41	176.52	176.61	176.45	176.48	176.57	176.93	177.00	176.52	176.46	176.42	176.49	
8	176.41	176.53	176.61	176.47	176.46	176.69	177.02	176.98	176.52	176.46	176.41	176.52	
9	176.40	176.52	176.61	176.48	176.45	176.83	176.98	176.94	176.52	176.44	176.40	176.54	
10	176.39	176.52	176.64	176.46	176.44	176.71	176.91	176.84	176.52	176.43	176.39	176.48	
11	176.38	176.52	176.66	176.46	176.47	176.80	176.88	176.78	176.52	176.42	176.38	176.51	
12	176.39	176.68	176.67	176.44	176.57	177.08	176.85	176.75	176.52	176.42	176.37	176.51	
13	176.40	176.88	176.63	176.42	177.34	177.02	176.85	176.71	176.52	176.42	176.37	176.51	
14	176.39	176.73	176.60	176.41	176.66	176.87	176.80	176.68	176.52	176.41	176.37	176.54	
15	176.38	176.66	176.57	176.41	176.60	177.36	176.79	176.67	176.52	176.41	176.37	176.51	
16	176.37	176.62	176.57	176.40	176.55	177.28	176.60	176.65	176.52	176.41	176.36	176.51	
17	176.35	176.62	176.69	176.40	176.53	177.21	176.58	176.64	176.51	176.40	176.35	176.50	
18	176.34	176.63	176.66	176.40	176.53	177.76	176.61	176.63	176.51	176.40	176.35	176.51	
19	176.33	176.61	176.63	176.41	176.63	178.42	176.62	176.62	176.48	176.40	176.35	176.51	
20	176.32	176.60	176.61	176.41	176.59	178.62	176.65	176.61	176.46	176.45	176.35	176.51	
21	176.32	176.59	176.59	176.41	176.59	178.67	176.67	176.60	176.46	176.47	176.34	176.51	
22	176.31	176.59	176.58	176.40	176.57	178.54	176.77	176.59	176.46	176.46	176.34	176.51	
23	176.30	176.60	176.58	176.40	176.56	177.88	176.84	176.58	176.46	176.46	176.33	176.51	
24	176.31	176.59	176.58	176.40	176.57	177.55	176.86	176.58	176.47	176.46	176.33	176.51	
25	176.31	176.63	176.57	176.38	176.57	177.31	176.81	176.57	176.47	176.46	176.33	176.53	
26	176.41	176.63	176.57	176.36	176.58	177.15	176.76	176.56	176.47	176.46	176.33	176.53	
27	176.49	176.62	176.56	176.37	176.58	177.05	176.72	176.56	176.47	176.47	176.34	176.52	
28	176.50	176.62	176.56	176.47	176.58	177.22	176.76	176.54	176.46	176.47	176.34	176.52	
29	176.56	176.62	176.56	176.46	176.56	177.53	176.74	176.54	176.46	176.47		176.52	
30	176.52	176.62	176.56	176.44	176.56	177.34	176.77	176.54	176.46	176.47		176.52	
31		176.61		176.42	176.58		177.02		176.46	176.47		176.52	
Mean	176.40	176.60	176.60	176.44	176.56	177.23	176.88	176.78	176.50	176.45	176.38	176.49	
Max	176.56	176.88	176.69	176.60	177.34	178.67	177.41	177.42	176.54	176.47	176.47	176.54	178.67
Min	176.30	176.51	176.56	176.36	176.42	176.57	176.58	176.54	176.46	176.40	176.33	176.34	176.30

Annual Max Momentary Gage Height 178.77 m. (MSL.) , at 19.00 Hours , on Sep 21 , 2008

Zero Gage at Bottom Elevation 175.26 m. (MSL.) , River Bed 175.65 m. (MSL.)

Left Bank Elevation 180.13 m. (MSL.) ,

Right Bank Elevation 183.11 m. (MSL.) , Drainage Are 141 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.67	0.74	1.15	0.94	0.46	1.06	5.62	4.74	0.86	0.58	0.61	0.32		
2	0.64	0.78	1.15	1.02	0.55	1.15	6.42	6.68	0.86	0.58	0.58	0.34		
3	0.58	0.78	1.20	1.10	0.58	1.06	6.59	5.70	0.82	0.58	0.61	0.34		
4	0.55	0.78	1.15	0.78	0.55	1.02	5.38	4.34	0.78	0.58	0.58	0.28		
5	0.46	0.78	1.15	0.64	0.52	1.06	4.18	3.94	0.78	0.58	0.52	0.28		
6	0.43	0.78	1.15	0.58	0.64	1.02	3.38	3.54	0.78	0.58	0.46	0.49		
7	0.43	0.78	1.15	0.55	0.64	0.98	2.81	3.30	0.78	0.58	0.46	0.67		
8	0.43	0.82	1.15	0.61	0.58	1.55	3.46	3.16	0.78	0.58	0.43	0.78		
9	0.40	0.78	1.15	0.64	0.55	2.25	3.16	2.88	0.78	0.52	0.40	0.86		
10	0.38	0.78	1.30	0.58	0.52	1.65	2.67	2.30	0.78	0.49	0.38	0.64		
11	0.36	0.78	1.40	0.58	0.61	2.10	2.50	2.00	0.78	0.46	0.36	0.74		
12	0.38	1.50	1.45	0.52	0.98	3.94	2.35	1.85	0.78	0.46	0.34	0.74		
13	0.40	2.50	1.25	0.46	6.02	3.46	2.35	1.65	0.78	0.46	0.34	0.74		
14	0.38	1.75	1.10	0.43	1.40	2.45	2.10	1.50	0.78	0.43	0.34	0.86		
15	0.36	1.40	0.98	0.43	1.10	6.18	2.05	1.45	0.78	0.43	0.34	0.74		
16	0.34	1.20	0.98	0.40	0.90	5.54	1.10	1.35	0.78	0.43	0.32	0.74		
17	0.30	1.20	1.55	0.40	0.82	4.98	1.02	1.30	0.74	0.40	0.30	0.70		
18	0.28	1.25	1.40	0.40	0.82	9.74	1.15	1.25	0.74	0.40	0.30	0.74		
19	0.26	1.15	1.25	0.43	1.25	15.90	1.20	1.20	0.64	0.40	0.30	0.74		
20	0.24	1.10	1.15	0.43	1.06	17.92	1.35	1.15	0.58	0.55	0.30	0.74		
21	0.24	1.06	1.06	0.43	1.06	18.47	1.45	1.10	0.58	0.61	0.28	0.74		
22	0.22	1.06	1.02	0.40	0.98	17.10	1.95	1.06	0.58	0.58	0.28	0.74		
23	0.20	1.10	1.02	0.40	0.94	10.82	2.30	1.02	0.58	0.58	0.26	0.74		
24	0.22	1.06	1.02	0.40	0.98	7.85	2.40	1.02	0.61	0.58	0.26	0.74		
25	0.22	1.25	0.98	0.36	0.98	5.78	2.15	0.98	0.61	0.58	0.26	0.82		
26	0.43	1.25	0.98	0.32	1.02	4.50	1.90	0.94	0.61	0.58	0.26	0.82		
27	0.67	1.20	0.94	0.34	1.02	3.70	1.70	0.94	0.61	0.61	0.28	0.78		
28	0.70	1.20	0.94	0.61	1.02	5.06	1.90	0.86	0.58	0.61	0.28	0.78		
29	0.94	1.20	0.94	0.58	0.94	7.67	1.80	0.86	0.58	0.61		0.78		
30	0.78	1.20	0.94	0.52	0.94	6.02	1.95	0.86	0.58	0.61		0.78		
31		1.15		0.46	1.02		3.46		0.58	0.61		0.78		
Total	12.89	34.36	34.05	16.74	31.45	171.98	83.80	64.92	21.88	16.63	10.43	20.98	520.11	CMSDAY
Mean	0.43	1.11	1.14	0.54	1.01	5.73	2.70	2.16	0.71	0.54	0.37	0.68	1.42	CMS
Max	0.94	2.50	1.55	1.10	6.02	18.47	6.59	6.68	0.86	0.61	0.61	0.86	18.47	CMS
Min	0.20	0.74	0.94	0.32	0.46	0.98	1.02	0.86	0.58	0.40	0.26	0.28	0.20	CMS
Runoff	1.11	2.97	2.94	1.45	2.72	14.86	7.24	5.61	1.89	1.44	0.90	1.81	44.94	MCM

Momentary Peak 19.57 CMS. at 178.77 m. (MSL.) at 19.00 Hours , on Sep 21, 2008

Runoff Yield 10.11 Liters/Second/Square KM. Momentary Peak Yield 138.79 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	- sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+118.103 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +124.209 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	1978 - 1989, 2005 to date		
Rating Operation			
Period of Rating	1978 - 1989, 2005 to date		
Rated by Float	-		
Rated by Current Meter	1978 - 1989, 2005 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +121.300 m.(MSL.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 6 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

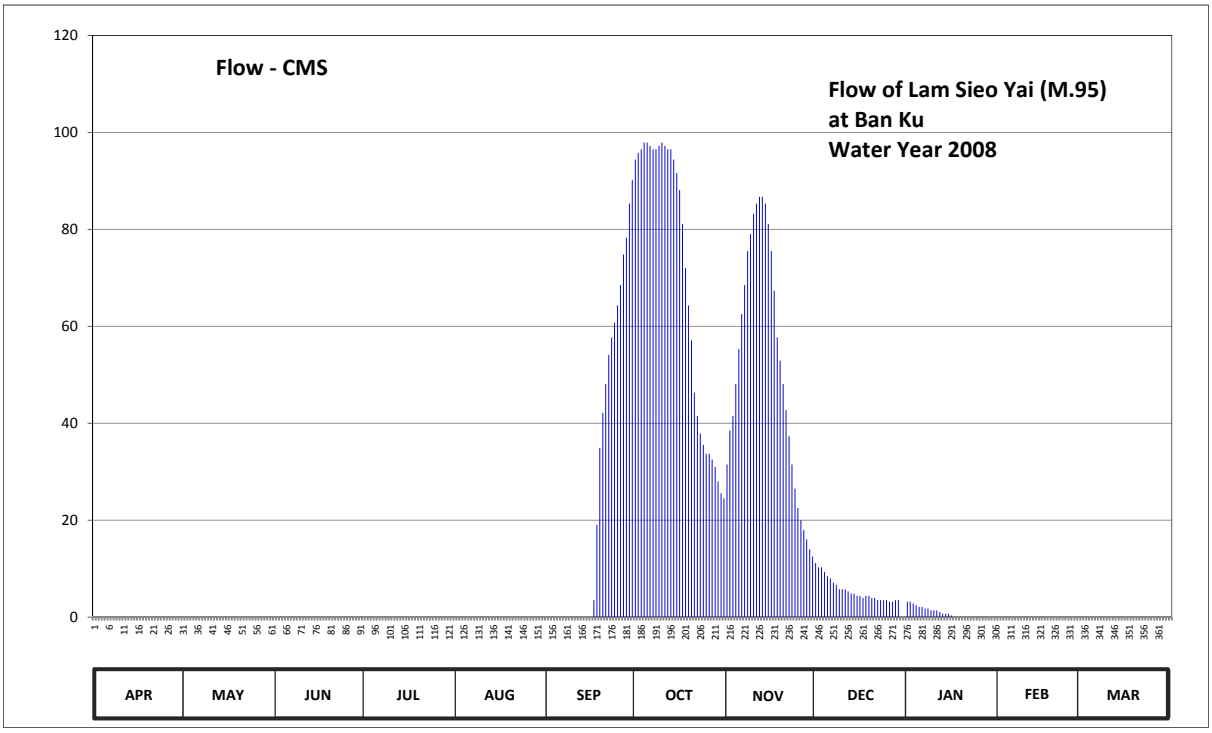
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	119.39	119.25	119.48	120.05	119.93	119.92	121.67	120.68	120.27	120.09	119.92	119.87	
2	119.38	119.25	119.47	120.04	119.95	119.91	121.69	120.80	120.25	120.09	119.91	119.86	
3	119.38	119.24	119.47	120.04	119.95	119.90	121.70	120.85	120.25	120.08	119.91	119.85	
4	119.37	119.24	119.48	120.03	119.96	119.89	121.72	120.96	120.23	120.07	119.90	119.84	
5	119.37	119.23	119.48	120.02	119.96	119.88	121.72	121.08	120.21	120.06	119.89	119.83	
6	119.36	119.22	119.48	120.01	119.99	119.87	121.71	121.20	120.20	120.06	119.88	119.82	
7	119.36	119.24	119.57	120.00	119.98	119.86	121.70	121.30	120.18	120.05	119.87	119.81	
8	119.38	119.25	119.57	120.00	119.97	119.85	121.70	121.40	120.17	120.05	119.86	119.80	
9	119.38	119.24	119.61	120.01	119.97	119.84	121.71	121.45	120.15	120.04	119.86	119.79	
10	119.38	119.23	119.63	120.02	119.97	119.84	121.72	121.51	120.15	120.04	119.85	119.77	
11	119.38	119.22	119.65	120.00	119.98	119.83	121.71	121.54	120.15	120.04	119.84	119.76	
12	119.37	119.22	119.65	120.00	120.00	119.84	121.70	121.56	120.14	120.03	119.83	119.76	
13	119.35	119.21	119.65	119.99	120.00	119.84	121.70	121.56	120.13	120.02	119.83	119.75	
14	119.34	119.20	119.76	119.99	120.00	119.84	121.67	121.54	120.13	120.02	119.82	119.74	
15	119.32	119.20	119.77	119.98	119.99	119.90	121.63	121.48	120.12	120.02	119.81	119.72	
16	119.31	119.19	119.79	119.97	119.99	119.96	121.58	121.40	120.12	120.01	119.80	119.71	
17	119.30	119.19	119.90	119.96	119.98	120.10	121.48	121.28	120.11	120.00	119.80	119.69	
18	119.29	119.18	119.97	119.96	119.98	120.43	121.35	121.12	120.12	120.00	119.82	119.68	
19	119.28	119.20	120.03	119.97	119.99	120.74	121.23	121.04	120.12	120.00	119.91	119.67	
20	119.27	119.31	120.09	119.96	119.99	120.86	121.11	120.96	120.11	119.99	119.94	119.66	
21	119.26	119.39	120.11	120.00	119.98	120.96	120.93	120.87	120.11	119.99	119.94	119.65	
22	119.26	119.39	120.11	120.00	119.98	121.06	120.85	120.78	120.10	119.98	119.93	119.65	
23	119.25	119.44	120.11	120.00	119.97	121.12	120.79	120.68	120.10	119.98	119.92	119.64	
24	119.23	119.45	120.10	119.99	119.97	121.17	120.75	120.58	120.10	119.97	119.91	119.63	
25	119.22	119.45	120.09	119.98	119.96	121.23	120.72	120.50	120.10	119.97	119.90	119.75	
26	119.21	119.45	120.08	119.98	119.96	121.30	120.72	120.45	120.09	119.96	119.89	119.75	
27	119.20	119.46	120.07	119.97	119.95	121.39	120.70	120.41	120.09	119.96	119.88	119.78	
28	119.19	119.46	120.06	119.96	119.95	121.44	120.67	120.37	120.10	119.95	119.87	119.77	
29	119.25	119.45	120.05	119.95	119.94	121.54	120.61	120.33	120.10	119.94		119.77	
30	119.25	119.45	120.05	119.94	119.94	121.61	120.56	120.30	119.09	119.93		119.76	
31		119.48		119.93	119.93		120.54		119.09	119.92		119.77	
Mean	119.31	119.30	119.81	119.99	119.97	120.43	121.29	121.00	120.08	120.01	119.87	119.75	
Max	119.39	119.48	120.11	120.05	120.00	121.61	121.72	121.56	120.27	120.09	119.94	119.87	121.72
Min	119.19	119.18	119.47	119.93	119.93	119.83	120.54	120.30	119.09	119.92	119.80	119.63	119.09

Annual Max Momentary Gage Height 121.72 m. (MSL.) , at 06.00 Hours , on Oct 4 , 2008

Zero Gage at Bottom Elevation 118.10 m. (MSL.) , River Bed 116.92 m. (MSL.)

Left Bank Elevation 121.29 m. (MSL.) ,

Right Bank Elevation 121.95 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

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	94.40	31.50	11.15	3.15	0.00	0.00		
2	0.00	0.00	0.00	0.00	0.00	0.00	95.80	38.50	10.25	3.15	0.00	0.00		
3	0.00	0.00	0.00	0.00	0.00	0.00	96.50	41.50	10.25	2.80	0.00	0.00		
4	0.00	0.00	0.00	0.00	0.00	0.00	97.90	48.10	9.35	2.45	0.00	0.00		
5	0.00	0.00	0.00	0.00	0.00	0.00	97.90	55.30	8.45	2.10	0.00	0.00		
6	0.00	0.00	0.00	0.00	0.00	0.00	97.20	62.50	8.00	2.10	0.00	0.00		
7	0.00	0.00	0.00	0.00	0.00	0.00	96.50	68.50	7.10	1.75	0.00	0.00		
8	0.00	0.00	0.00	0.00	0.00	0.00	96.50	75.50	6.65	1.75	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	0.00	97.20	79.00	5.75	1.40	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	0.00	97.90	83.20	5.75	1.40	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	0.00	97.20	85.30	5.75	1.40	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	0.00	96.50	86.70	5.30	1.05	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	0.00	96.50	86.70	4.85	0.70	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	0.00	94.40	85.30	4.85	0.70	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	0.00	91.60	81.10	4.40	0.70	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	0.00	88.10	75.50	4.40	0.35	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	3.50	81.10	67.30	3.95	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	19.00	72.00	57.70	4.40	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	34.90	64.30	52.90	4.40	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	42.10	57.10	48.10	3.95	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	48.10	46.30	42.70	3.95	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.00	54.10	41.50	37.30	3.50	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	57.70	37.90	31.50	3.50	0.00	0.00	0.00		
24	0.00	0.00	0.00	0.00	0.00	60.70	35.50	26.50	3.50	0.00	0.00	0.00		
25	0.00	0.00	0.00	0.00	0.00	64.30	33.70	22.50	3.50	0.00	0.00	0.00		
26	0.00	0.00	0.00	0.00	0.00	68.50	33.70	20.00	3.15	0.00	0.00	0.00		
27	0.00	0.00	0.00	0.00	0.00	74.80	32.50	18.00	3.15	0.00	0.00	0.00		
28	0.00	0.00	0.00	0.00	0.00	78.30	31.00	16.00	3.50	0.00	0.00	0.00		
29	0.00	0.00	0.00	0.00	0.00	85.30	28.00	14.00	3.50	0.00		0.00		
30	0.00	0.00	0.00	0.00	0.00	90.20	25.50	12.50	0.00	0.00		0.00		
31		0.00		0.00	0.00		24.50		0.00	0.00		0.00		
Total	0.00	0.00	0.00	0.00	0.00	781.50	2176.70	1551.20	160.20	26.95	0.00	0.00	4696.55	CMSDAY
Mean	0.00	0.00	0.00	0.00	0.00	26.05	70.22	51.71	5.17	0.87	0.00	0.00	12.87	CMS
Max	0.00	0.00	0.00	0.00	0.00	90.20	97.90	86.70	11.15	3.15	0.00	0.00	97.90	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	24.50	12.50	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	0.00	0.00	0.00	67.52	188.07	134.02	13.84	2.33	0.00	0.00	405.78	MCM

Momentary Peak 97.90 CMS. at 121.72 m. (MSL.) at 06.00 Hours , on Oct 4, 2008

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

WATER YEAR : 2008

MUN RIVER BASIN

Huai Tha at Ban Phayu, Si Sa Ket (M.98)

Lat 14 - 52 - 41 N Long 104 - 26 - 17 E

Location : on right bank at the bridge of Si Sa Ket - Kantharalak Highway near guidepost 27+734.

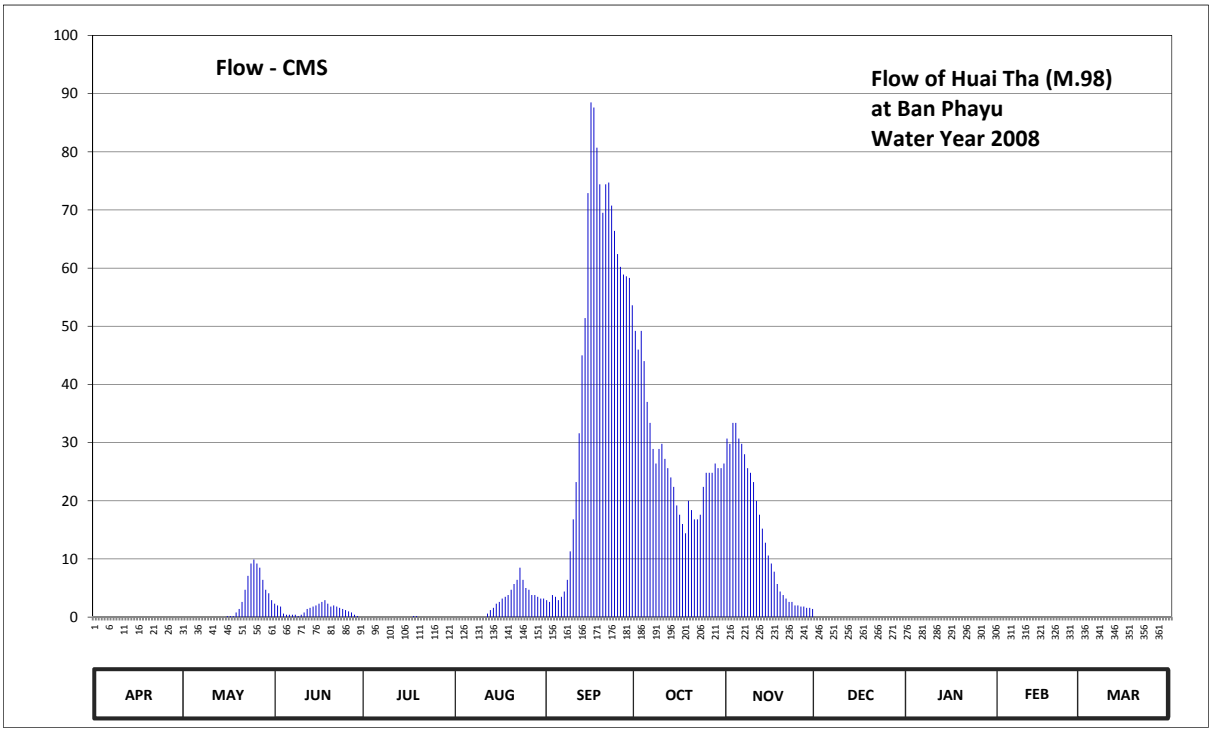
Ban Phayu **Amphoe** Phayu **Changwat** Si Sa Ket

Drainge Area	1,150 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+125.120 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank in front of automatic gage building. **Elevation** +133.700 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	1979 - 1981, 1987 to date.
Rated by Float	-
Rated by Current Meter	1979 - 1981, 1987 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow
General Description	Records fair. The concrete weir situated downstream from the gage site. Stage-discharge relation defined by 14 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	128.08	128.07	128.21	128.09	128.08	128.23	128.82	128.63	128.10	128.10	128.09	128.09	
2	128.07	128.07	128.20	128.09	128.08	128.22	128.79	128.62	128.10	128.10	128.09	128.09	
3	128.07	128.07	128.19	128.09	128.09	128.26	128.82	128.66	128.10	128.10	128.09	128.09	
4	128.07	128.07	128.13	128.09	128.09	128.25	128.77	128.66	128.10	128.10	128.09	128.09	
5	128.07	128.07	128.12	128.08	128.09	128.23	128.70	128.63	128.10	128.10	128.09	128.09	
6	128.07	128.07	128.12	128.08	128.10	128.25	128.66	128.62	128.10	128.10	128.09	128.09	
7	128.07	128.07	128.12	128.08	128.10	128.28	128.61	128.60	128.10	128.09	128.09	128.09	
8	128.07	128.07	128.12	128.07	128.10	128.32	128.58	128.57	128.10	128.09	128.09	128.09	
9	128.07	128.07	128.11	128.09	128.10	128.39	128.61	128.56	128.10	128.09	128.09	128.09	
10	128.06	128.07	128.12	128.10	128.10	128.46	128.62	128.54	128.10	128.09	128.09	128.09	
11	128.06	128.07	128.14	128.10	128.10	128.54	128.59	128.50	128.10	128.09	128.09	128.09	
12	128.06	128.08	128.17	128.10	128.13	128.64	128.57	128.47	128.10	128.09	128.09	128.09	
13	128.06	128.08	128.18	128.10	128.16	128.78	128.55	128.44	128.10	128.09	128.09	128.09	
14	128.06	128.09	128.19	128.10	128.18	128.84	128.53	128.41	128.09	128.09	128.09	128.10	
15	128.06	128.10	128.20	128.10	128.21	129.63	128.49	128.38	128.09	128.09	128.09	128.10	
16	128.06	128.11	128.21	128.10	128.22	130.15	128.47	128.36	128.09	128.09	128.09	128.10	
17	128.06	128.11	128.22	128.10	128.24	130.12	128.45	128.34	128.09	128.09	128.09	128.10	
18	128.06	128.11	128.23	128.11	128.25	129.89	128.43	128.31	128.09	128.09	128.09	128.10	
19	128.06	128.14	128.21	128.11	128.26	129.68	128.50	128.28	128.09	128.09	128.09	128.10	
20	128.06	128.17	128.19	128.10	128.29	129.50	128.48	128.26	128.09	128.09	128.09	128.10	
21	128.07	128.22	128.20	128.10	128.31	129.68	128.46	128.24	128.09	128.09	128.09	128.09	
22	128.07	128.29	128.19	128.09	128.32	129.69	128.46	128.22	128.09	128.08	128.09	128.09	
23	128.07	128.33	128.18	128.09	128.35	129.55	128.47	128.22	128.09	128.08	128.09	128.09	
24	128.07	128.36	128.17	128.09	128.32	129.37	128.53	128.20	128.09	128.08	128.09	128.09	
25	128.07	128.37	128.16	128.08	128.30	129.17	128.56	128.20	128.09	128.08	128.09	128.09	
26	128.07	128.36	128.15	128.08	128.29	129.06	128.56	128.19	128.09	128.08	128.09	128.08	
27	128.07	128.35	128.14	128.08	128.26	128.99	128.56	128.19	128.09	128.08	128.09	128.08	
28	128.07	128.32	128.12	128.07	128.26	128.96	128.58	128.18	128.09	128.08	128.09	128.08	
29	128.07	128.29	128.11	128.07	128.25	128.93	128.57	128.18	128.09	128.08		128.08	
30	128.07	128.27	128.10	128.07	128.24	128.86	128.57	128.17	128.09	128.08		128.08	
31		128.23		128.08	128.24		128.58		128.09	128.08		128.08	
Mean	128.07	128.17	128.16	128.09	128.20	128.96	128.58	128.39	128.09	128.09	128.09	128.09	
Max	128.08	128.37	128.23	128.11	128.35	130.15	128.82	128.66	128.10	128.10	128.09	128.10	130.15
Min	128.06	128.07	128.10	128.07	128.08	128.22	128.43	128.17	128.09	128.08	128.09	128.08	128.06

Annual Max Momentary Gage Height	130.17	m. (MSL.) ,	at 15.00 Hours , on Sep 16, 2008		
Zero Gage at Bottom Elevation	125.12	m. (MSL.) ,	River Bed	123.36	m. (MSL.) ,
Left Bank Elevation	130.95	m. (MSL.) ,			
Right Bank Elevation	131.15	m. (MSL.) ,	Drainage Are	1,150	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.30	0.00	0.00	2.90	49.20	30.70	0.00	0.00	0.00	0.00		
2	0.00	0.00	2.00	0.00	0.00	2.60	46.00	29.80	0.00	0.00	0.00	0.00		
3	0.00	0.00	1.80	0.00	0.00	3.80	49.20	33.40	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.60	0.00	0.00	3.50	44.00	33.40	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.40	0.00	0.00	2.90	37.00	30.70	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.40	0.00	0.00	3.50	33.40	29.80	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.40	0.00	0.00	4.40	28.90	28.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.40	0.00	0.00	6.40	26.40	25.60	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.20	0.00	0.00	11.30	28.90	24.80	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.40	0.00	0.00	16.80	29.80	23.20	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.80	0.00	0.00	23.20	27.20	20.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	1.40	0.00	0.60	31.60	25.60	17.60	0.00	0.00	0.00	0.00		
13	0.00	0.00	1.60	0.00	1.20	45.00	24.00	15.20	0.00	0.00	0.00	0.00		
14	0.00	0.00	1.80	0.00	1.60	51.40	22.40	12.80	0.00	0.00	0.00	0.00		
15	0.00	0.00	2.00	0.00	2.30	72.90	19.20	10.60	0.00	0.00	0.00	0.00		
16	0.00	0.20	2.30	0.00	2.60	88.50	17.60	9.20	0.00	0.00	0.00	0.00		
17	0.00	0.20	2.60	0.00	3.20	87.60	16.00	7.80	0.00	0.00	0.00	0.00		
18	0.00	0.20	2.90	0.20	3.50	80.70	14.40	5.70	0.00	0.00	0.00	0.00		
19	0.00	0.80	2.30	0.20	3.80	74.40	20.00	4.40	0.00	0.00	0.00	0.00		
20	0.00	1.40	1.80	0.00	4.70	69.50	18.40	3.80	0.00	0.00	0.00	0.00		
21	0.00	2.60	2.00	0.00	5.70	74.40	16.80	3.20	0.00	0.00	0.00	0.00		
22	0.00	4.70	1.80	0.00	6.40	74.70	16.80	2.60	0.00	0.00	0.00	0.00		
23	0.00	7.10	1.60	0.00	8.50	70.75	17.60	2.60	0.00	0.00	0.00	0.00		
24	0.00	9.20	1.40	0.00	6.40	66.40	22.40	2.00	0.00	0.00	0.00	0.00		
25	0.00	9.90	1.20	0.00	5.00	62.40	24.80	2.00	0.00	0.00	0.00	0.00		
26	0.00	9.20	1.00	0.00	4.70	60.20	24.80	1.80	0.00	0.00	0.00	0.00		
27	0.00	8.50	0.80	0.00	3.80	58.90	24.80	1.80	0.00	0.00	0.00	0.00		
28	0.00	6.40	0.40	0.00	3.80	58.60	26.40	1.60	0.00	0.00	0.00	0.00		
29	0.00	4.70	0.20	0.00	3.50	58.30	25.60	1.60	0.00	0.00		0.00		
30	0.00	4.10	0.00	0.00	3.20	53.60	25.60	1.40	0.00	0.00		0.00		
31		2.90		0.00	3.20		26.40		0.00	0.00		0.00		
Total	0.00	72.10	38.80	0.40	77.70	1321.15	829.60	417.10	0.00	0.00	0.00	0.00	2756.85	CMSDAY
Mean	0.00	2.33	1.29	0.01	2.51	44.04	26.76	13.90	0.00	0.00	0.00	0.00	7.55	CMS
Max	0.00	9.90	2.90	0.20	8.50	88.50	49.20	33.40	0.00	0.00	0.00	0.00	88.50	CMS
Min	0.00	0.00	0.00	0.00	0.00	2.60	14.40	1.40	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	6.23	3.35	0.03	6.71	114.15	71.68	36.04	0.00	0.00	0.00	0.00	238.19	MCM

Momentary Peak 89.10 CMS. at 130.17 m. (MSL.) at 15.00 Hours , on Sep 16, 2008

Runoff Yield 6.57 Liters/Second/Square KM. Momentary Peak Yield 77.48 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +140.340 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	2005 to date
Rating Operation	
Period of Rating	2005 to date
Rated by Float	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +135.020 m.(MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 23 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

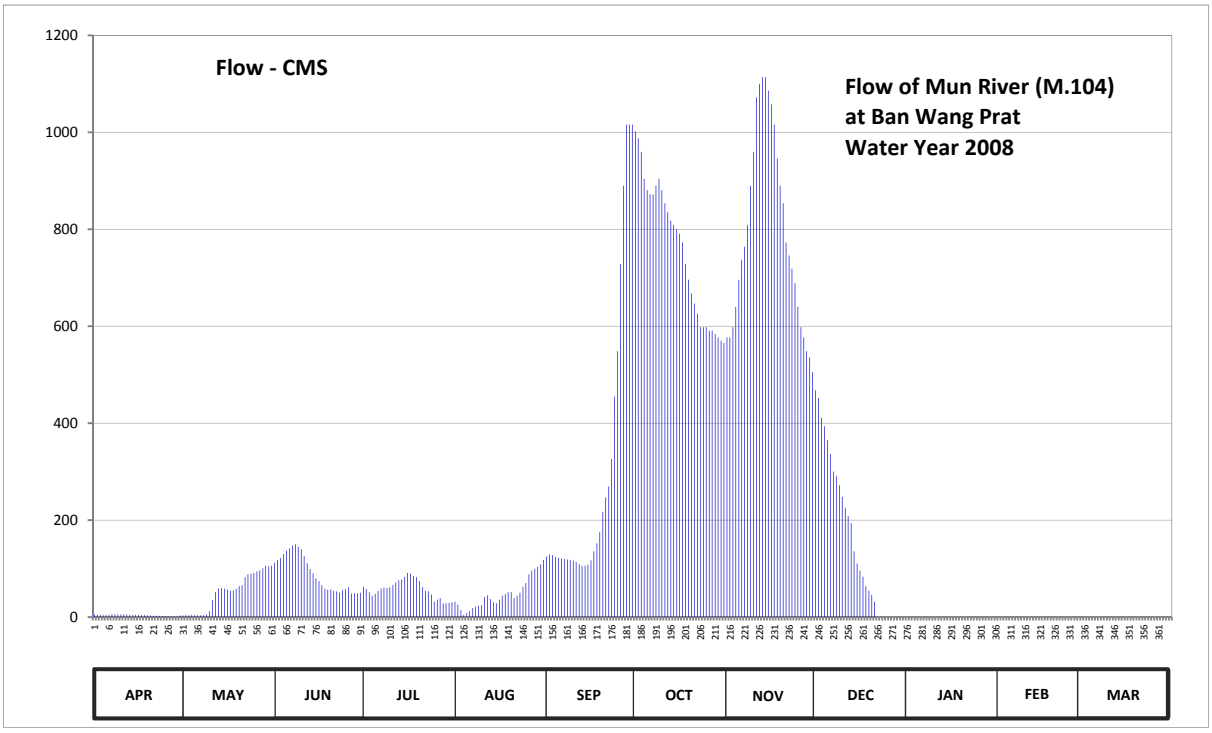
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.80	131.77	133.30	132.68	132.26	133.43	136.18	135.71	135.45	132.35	132.16	131.98	
2	131.80	131.78	133.36	132.62	132.16	133.47	136.17	135.71	135.40	132.35	132.15	131.97	
3	131.79	131.78	133.40	132.54	131.98	133.46	136.15	135.74	135.27	132.34	132.14	131.96	
4	131.79	131.79	133.48	132.44	131.79	133.42	136.11	135.80	135.21	132.33	132.13	131.95	
5	131.79	131.78	133.55	132.49	131.88	133.40	136.09	135.88	135.11	132.14	132.12	131.94	
6	131.79	131.78	133.60	132.57	131.94	133.39	136.08	135.93	134.97	131.98	132.11	131.93	
7	131.82	131.78	133.66	132.64	132.05	133.38	136.08	135.96	134.78	131.99	132.10	131.91	
8	131.82	131.78	133.68	132.66	132.10	133.37	136.10	136.01	134.73	132.00	132.08	131.90	
9	131.81	131.81	133.63	132.65	132.13	133.36	136.11	136.10	134.60	132.03	132.07	131.89	
10	131.81	131.94	133.58	132.67	132.15	133.34	136.09	136.15	134.43	132.11	132.07	131.88	
11	131.81	132.31	133.44	132.73	132.40	133.32	136.06	136.23	134.27	132.12	132.06	131.87	
12	131.80	132.54	133.29	132.79	132.45	133.27	136.04	136.25	134.15	132.13	132.06	131.86	
13	131.80	132.63	133.14	132.85	132.34	133.22	136.02	136.26	134.04	132.15	132.05	131.85	
14	131.79	132.65	133.03	132.87	132.24	133.23	136.01	136.26	133.54	132.16	132.05	131.84	
15	131.79	132.63	132.90	132.94	132.21	133.25	136.00	136.24	133.28	132.17	132.05	131.84	
16	131.79	132.61	132.83	133.04	132.32	133.35	135.99	136.22	133.10	132.18	132.04	131.83	
17	131.78	132.58	132.72	133.02	132.44	133.54	135.97	136.19	132.94	132.21	132.04	131.82	
18	131.78	132.59	132.63	132.96	132.49	133.70	135.92	136.14	132.70	132.23	132.04	131.81	
19	131.77	132.63	132.60	132.93	132.54	133.91	135.88	136.10	132.58	132.22	132.04	131.81	
20	131.77	132.70	132.61	132.83	132.54	134.21	135.84	136.06	132.46	132.21	132.03	131.80	
21	131.76	132.72	132.58	132.67	132.37	134.42	135.81	135.97	132.26	132.20	132.03	131.80	
22	131.76	132.93	132.56	132.57	132.44	134.58	135.78	135.94	132.24	132.19	132.02	131.80	
23	131.75	133.01	132.52	132.56	132.52	134.92	135.74	135.91	132.25	132.17	132.02	131.79	
24	131.74	133.02	132.59	132.47	132.68	135.41	135.74	135.87	132.26	132.17	132.01	131.78	
25	131.74	133.04	132.62	132.26	132.78	135.65	135.74	135.80	132.28	132.16	132.01	131.78	
26	131.73	133.08	132.67	132.32	133.00	135.92	135.73	135.74	132.29	132.16	132.01	131.77	
27	131.72	133.11	132.50	132.37	133.10	136.10	135.73	135.71	132.39	132.16	132.00	131.77	
28	131.72	133.16	132.51	132.20	133.15	136.19	135.72	135.65	132.35	132.16	132.00	131.76	
29	131.72	133.22	132.51	132.21	133.20	136.19	135.71	135.62	132.35	132.15		131.76	
30	131.77	133.21	132.52	132.22	133.26	136.19	135.70	135.55	132.35	132.15		131.84	
31		133.23		132.24	133.36		135.69		132.35	132.15		131.86	
Mean	131.78	132.50	133.00	132.61	132.46	134.15	135.93	135.96	133.50	132.17	132.06	131.85	
Max	131.82	133.23	133.68	133.04	133.36	136.19	136.18	136.26	135.45	132.35	132.16	131.98	136.26
Min	131.72	131.77	132.50	132.20	131.79	133.22	135.69	135.55	132.24	131.98	132.00	131.76	131.72

Annual Max Momentary Gage Height 136.26 m. (MSL.) , at 06.00 Hours , on Nov 13 , 2008

Zero Gage at Bottom Elevation 129.76 m. (MSL.) , River Bed 127.05 m. (MSL.) ,

Left Bank Elevation 135.02 m. (MSL.) ,

Right Bank Elevation 136.80 m. (MSL.) , Drainage Are 24,841 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.00	3.50	112.00	62.40	31.90	125.00	1002.00	577.00	468.00	0.00	0.00	0.00		
2	5.00	4.00	118.00	57.60	25.40	129.00	988.00	577.00	452.00	0.00	0.00	0.00		
3	4.50	4.00	122.00	51.50	14.40	128.00	959.99	598.00	411.30	0.00	0.00	0.00		
4	4.50	4.50	130.00	44.30	4.50	124.00	903.99	640.00	393.90	0.00	0.00	0.00		
5	4.50	4.00	137.00	47.80	9.00	122.00	881.00	696.00	364.90	0.00	0.00	0.00		
6	4.50	4.00	142.00	53.75	12.20	121.00	872.00	737.00	336.00	0.00	0.00	0.00		
7	6.00	4.00	148.00	59.20	18.50	120.00	872.00	764.00	300.40	0.00	0.00	0.00		
8	6.00	4.00	150.00	60.80	21.50	119.00	890.00	809.00	291.40	0.00	0.00	0.00		
9	5.50	5.50	145.00	60.00	23.45	118.00	903.99	890.00	272.00	0.00	0.00	0.00		
10	5.50	12.20	140.00	61.60	24.75	116.00	881.00	959.99	248.20	0.00	0.00	0.00		
11	5.50	35.20	126.00	66.40	41.50	114.00	854.00	1072.00	225.80	0.00	0.00	0.00		
12	5.00	51.50	111.20	71.20	45.00	109.60	836.00	1100.00	209.00	0.00	0.00	0.00		
13	5.00	58.40	99.20	76.00	37.30	105.60	818.00	1114.00	193.60	0.00	0.00	0.00		
14	4.50	60.00	90.40	77.60	30.60	106.40	809.00	1114.00	136.00	0.00	0.00	0.00		
15	4.50	58.40	80.00	83.20	28.65	108.00	800.00	1086.00	110.40	0.00	0.00	0.00		
16	4.50	56.80	74.40	91.20	35.90	117.00	791.00	1058.00	96.00	0.00	0.00	0.00		
17	4.00	54.50	65.60	89.60	44.30	136.00	773.00	1016.00	83.20	0.00	0.00	0.00		
18	4.00	55.25	58.40	84.80	47.80	152.00	728.00	945.99	64.00	0.00	0.00	0.00		
19	3.50	58.40	56.00	82.40	51.50	175.40	696.00	890.00	54.50	0.00	0.00	0.00		
20	3.50	64.00	56.80	74.40	51.50	217.40	668.00	854.00	45.70	0.00	0.00	0.00		
21	3.00	65.60	54.50	61.60	39.40	246.80	647.00	773.00	31.90	0.00	0.00	0.00		
22	3.00	82.40	53.00	53.75	44.30	269.20	626.00	746.00	0.00	0.00	0.00	0.00		
23	2.50	88.80	50.00	53.00	50.00	326.00	598.00	719.01	0.00	0.00	0.00	0.00		
24	2.00	89.60	55.25	46.40	62.40	455.20	598.00	689.00	0.00	0.00	0.00	0.00		
25	2.00	91.20	57.60	31.90	70.40	548.50	598.00	640.00	0.00	0.00	0.00	0.00		
26	1.50	94.40	61.60	35.90	88.00	728.00	591.00	598.00	0.00	0.00	0.00	0.00		
27	1.00	96.80	48.50	39.40	96.00	890.00	591.00	577.00	0.00	0.00	0.00	0.00		
28	1.00	100.80	49.25	28.00	100.00	1016.00	584.00	548.50	0.00	0.00	0.00	0.00		
29	1.00	105.60	49.25	28.65	104.00	1016.00	577.00	535.60	0.00	0.00		0.00		
30	3.50	104.80	50.00	29.30	108.80	1016.00	570.00	505.50	0.00	0.00		0.00		
31		106.40		30.60	118.00		565.70		0.00	0.00		0.00		
Total	115.50	1628.55	2690.95	1794.25	1480.95	9075.10	23472.67	23829.59	4788.20	0.00	0.00	0.00	68875.76	CMSDAY
Mean	3.85	52.53	89.70	57.88	47.77	302.50	757.18	794.32	154.46	0.00	0.00	0.00	188.70	CMS
Max	6.00	106.40	150.00	91.20	118.00	1016.00	1002.00	1114.00	468.00	0.00	0.00	0.00	1114.00	CMS
Min	1.00	3.50	48.50	28.00	4.50	105.60	565.70	505.50	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	9.98	140.71	232.50	155.02	127.95	784.09	2028.04	2058.88	413.70	0.00	0.00	0.00	5950.87	MCM

Momentary Peak 1113.99 CMS. at 136.26 m. (MSL.) at 06.00 Hours , on Nov 13, 2008

Runoff Yield 7.60 Liters/Second/Square KM. Momentary Peak Yield 44.84 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Huai Tunglung at Ban Don Yai, 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 Don Yai **Amphoe** Si Mueang Mai **Changwat** Ubon Ratchathani

Drainge 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** +130.460 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 mean of 5 readings
Period of Available Gage Records	1982 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +123.300 m.(MSL.), records are channel flow only.
General Description	Records very good. The weirs situated about 10 kilometers upstream and downstream from the gage site Stage-discharge relation defined by 22 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

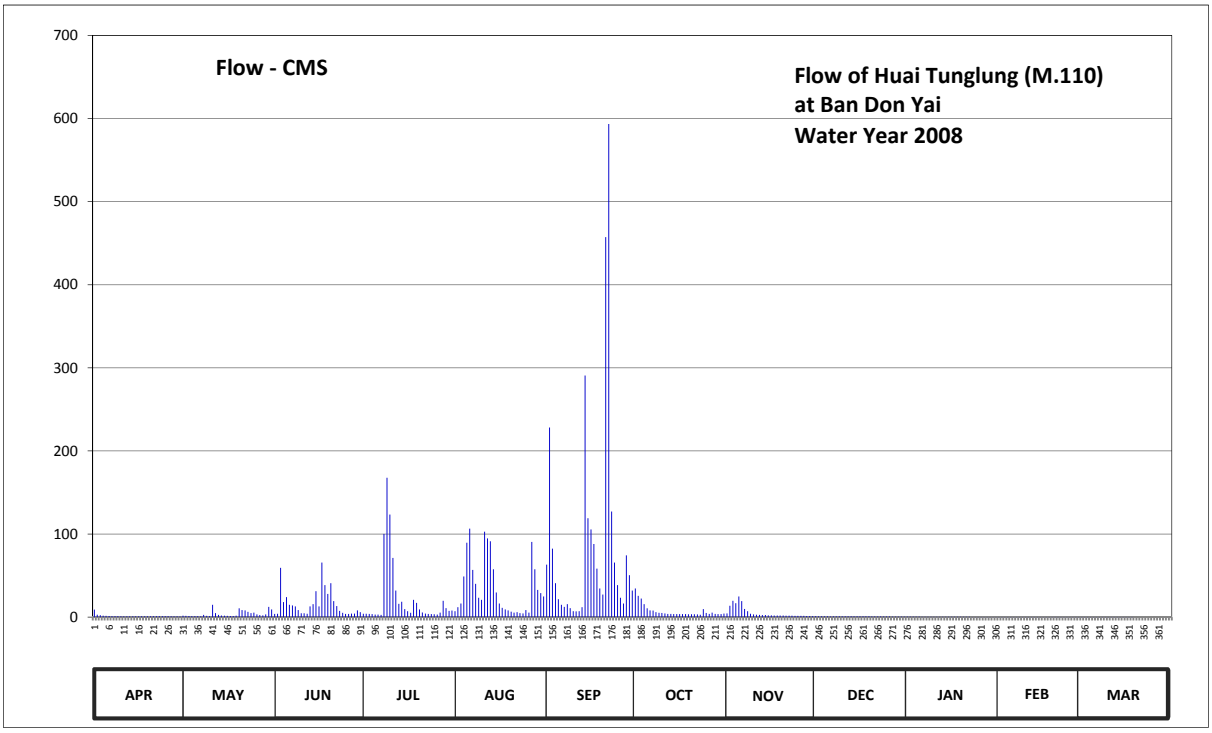
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	120.30	119.79	120.09	120.10	120.24	121.14	120.78	120.12	119.69	119.56	119.45	119.43	
2	119.99	119.76	120.10	120.10	120.40	123.01	120.67	120.44	119.65	119.56	119.45	119.43	
3	119.89	119.71	121.09	120.08	120.51	121.38	120.63	120.59	119.62	119.55	119.45	119.43	
4	119.80	119.70	120.55	120.06	120.96	120.86	120.49	120.52	119.63	119.54	119.45	119.43	
5	119.75	119.68	120.65	120.00	121.47	120.62	120.35	120.66	119.62	119.53	119.45	119.43	
6	119.71	119.67	120.47	120.00	121.66	120.47	120.27	120.58	119.61	119.52	119.45	119.43	
7	119.70	119.66	120.45	119.95	121.06	120.41	120.26	120.33	119.62	119.52	119.45	119.43	
8	119.70	119.95	120.42	121.59	120.85	120.49	120.20	120.24	119.63	119.51	119.45	119.43	
9	119.69	119.75	120.28	122.34	120.64	120.36	120.16	120.10	119.64	119.51	119.45	119.43	
10	119.66	119.70	120.13	121.85	120.61	120.24	120.15	120.02	119.64	119.51	119.45	119.43	
11	119.65	120.47	120.13	121.24	121.62	120.23	120.12	119.97	119.64	119.50	119.45	119.43	
12	119.65	120.14	120.10	120.75	121.53	120.24	120.09	119.95	119.63	119.50	119.45	119.43	
13	119.64	119.96	120.42	120.50	121.49	120.40	120.08	119.92	119.63	119.50	119.45	119.43	
14	119.64	119.85	120.49	120.56	121.07	123.58	120.07	119.92	119.62	119.50	119.45	119.47	
15	119.63	119.81	120.74	120.32	120.72	121.80	120.07	119.88	119.62	119.50	119.45	119.46	
16	119.63	119.78	120.42	120.24	120.51	121.65	120.07	119.86	119.62	119.50	119.45	119.45	
17	119.63	119.74	121.17	120.16	120.37	121.45	120.06	119.85	119.62	119.50	119.45	119.44	
18	119.63	119.74	120.83	120.61	120.31	121.08	120.06	119.85	119.62	119.50	119.45	119.43	
19	119.63	119.80	120.70	120.53	120.27	120.78	120.05	119.84	119.62	119.50	119.45	119.42	
20	119.63	120.35	120.86	120.31	120.22	120.69	120.05	119.82	119.61	119.50	119.45	119.42	
21	119.70	120.28	120.58	120.18	120.17	124.79	120.04	119.81	119.59	119.51	119.45	119.42	
22	119.70	120.27	120.43	120.11	120.20	125.45	120.03	119.81	119.59	119.50	119.45	119.42	
23	119.70	120.21	120.25	120.08	120.14	121.89	119.98	119.80	119.59	119.48	119.45	119.42	
24	119.70	120.14	120.16	120.07	120.12	121.17	120.32	119.78	119.58	119.48	119.45	119.41	
25	119.70	120.17	120.09	120.05	120.28	120.83	120.15	119.77	119.58	119.48	119.44	119.41	
26	119.67	120.03	120.09	120.01	120.17	120.64	120.09	119.76	119.58	119.47	119.44	119.41	
27	119.64	119.93	120.11	120.17	121.48	120.51	120.17	119.75	119.57	119.47	119.43	119.41	
28	119.63	119.88	120.11	120.59	121.07	121.28	120.08	119.74	119.57	119.46	119.43	119.41	
29	119.62	120.03	120.27	120.36	120.76	120.98	120.07	119.73	119.57	119.46		119.41	
30	119.60	120.41	120.20	120.25	120.71	120.75	120.07	119.69	119.57	119.45		119.41	
31		120.31		120.26	120.66		120.11		119.57	119.45		119.41	
Mean	119.71	119.96	120.41	120.43	120.72	121.31	120.19	120.00	119.61	119.50	119.45	119.43	
Max	120.30	120.47	121.17	122.34	121.66	125.45	120.78	120.66	119.69	119.56	119.45	119.47	125.45
Min	119.60	119.66	120.09	119.95	120.12	120.23	119.98	119.69	119.57	119.45	119.43	119.41	119.41

Annual Max Momentary Gage Height 126.17 m. (MSL.) , at 06.00 Hours , on Sep 22, 2008

Zero Gage at Bottom Elevation 120.07 m. (MSL.) , River Bed 119.39 m. (MSL.) ,

Left Bank Elevation 123.29 m. (MSL.) ,

Right Bank Elevation 124.67 m. (MSL.) , Drainage Are 570 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.00	1.67	3.90	4.00	7.20	63.20	34.40	4.40	1.16	0.60	0.17	0.10		
2	2.93	1.51	4.00	4.00	12.00	228.10	25.60	13.60	0.99	0.60	0.17	0.10		
3	2.22	1.25	59.20	3.80	16.40	82.40	22.40	19.60	0.86	0.56	0.17	0.10		
4	1.72	1.20	18.00	3.60	48.80	40.80	15.60	16.80	0.90	0.51	0.17	0.10		
5	1.46	1.11	24.00	3.00	89.60	21.60	10.50	24.80	0.86	0.47	0.17	0.10		
6	1.25	1.07	14.80	3.00	106.40	14.80	8.10	19.20	0.81	0.43	0.17	0.10		
7	1.20	1.03	14.00	2.64	56.80	12.40	7.80	9.90	0.86	0.43	0.17	0.10		
8	1.20	2.64	12.80	100.10	40.00	15.60	6.00	7.20	0.90	0.38	0.17	0.10		
9	1.16	1.46	8.40	167.60	23.20	10.80	5.20	4.00	0.94	0.38	0.17	0.10		
10	1.03	1.20	4.60	123.50	20.80	7.20	5.00	3.20	0.94	0.38	0.17	0.10		
11	0.99	14.80	4.60	71.20	102.80	6.90	4.40	2.78	0.94	0.34	0.17	0.10		
12	0.99	4.80	4.00	32.00	94.70	7.20	3.90	2.64	0.90	0.34	0.17	0.10		
13	0.94	2.71	12.80	16.00	91.20	12.00	3.80	2.42	0.90	0.34	0.17	0.10		
14	0.94	2.00	15.60	18.40	57.60	290.80	3.70	2.42	0.86	0.34	0.17	0.24		
15	0.90	1.78	31.20	9.60	29.60	119.00	3.70	2.16	0.86	0.34	0.17	0.20		
16	0.90	1.62	12.80	7.20	16.40	105.50	3.70	2.05	0.86	0.34	0.17	0.17		
17	0.90	1.41	65.60	5.20	11.10	88.00	3.60	2.00	0.86	0.34	0.17	0.14		
18	0.90	1.41	38.40	20.80	9.30	58.40	3.60	2.00	0.86	0.34	0.17	0.10		
19	0.90	1.72	28.00	17.20	8.10	34.40	3.50	1.94	0.86	0.34	0.17	0.07		
20	0.90	10.50	40.80	9.30	6.60	27.20	3.50	1.83	0.81	0.34	0.17	0.07		
21	1.20	8.40	19.20	5.60	5.40	457.20	3.40	1.78	0.73	0.38	0.17	0.07		
22	1.20	8.10	13.20	4.20	6.00	593.50	3.30	1.78	0.73	0.34	0.17	0.07		
23	1.20	6.30	7.50	3.80	4.80	127.10	2.85	1.72	0.73	0.27	0.17	0.07		
24	1.20	4.80	5.20	3.70	4.40	65.60	9.60	1.62	0.68	0.27	0.17	0.03		
25	1.20	5.40	3.90	3.50	8.40	38.40	5.00	1.56	0.68	0.27	0.14	0.03		
26	1.07	3.30	3.90	3.10	5.40	23.20	3.90	1.51	0.68	0.24	0.14	0.03		
27	0.94	2.49	4.20	5.40	90.40	16.40	5.40	1.46	0.64	0.24	0.10	0.03		
28	0.90	2.16	4.20	19.60	57.60	74.40	3.80	1.41	0.64	0.20	0.10	0.03		
29	0.86	3.30	8.10	10.80	32.80	50.40	3.70	1.36	0.64	0.20		0.03		
30	0.77	12.40	6.00	7.50	28.80	32.00	3.70	1.16	0.64	0.17		0.03		
31		9.30		7.80	24.80		4.20		0.64	0.17		0.03		
Total	42.97	122.84	492.90	697.14	1117.40	2724.50	226.85	160.30	25.36	10.89	4.56	2.74	5628.45	CMSDAY
Mean	1.43	3.96	16.43	22.49	36.05	90.82	7.32	5.34	0.82	0.35	0.16	0.09	15.42	CMS
Max	9.00	14.80	65.60	167.60	106.40	593.50	34.40	24.80	1.16	0.60	0.17	0.24	593.50	CMS
Min	0.77	1.03	3.90	2.64	4.40	6.90	2.85	1.16	0.64	0.17	0.10	0.03	0.03	CMS
Runoff	3.71	10.61	42.59	60.23	96.54	235.40	19.60	13.85	2.19	0.94	0.39	0.24	486.30	MCM

Momentary Peak 797.10 CMS, at 126.17 m. (MSL.) , at 06.00 Hours , on Sep 22, 2008

Runoff Yield 27.05 Liters/Second/Square KM. Momentary Peak Yield 1398.42 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +140.310 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 mean of 5 readings
Period of Available Gage Records	1982 to date
Rating Operation	
Period of Rating	1983 - 1987, 1998 to date.
Rated by Float	-
Rated by Current Meter	1983 - 1987, 1998 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +136.450 m.(MSL.), records are channel flow only.
General Description	Records fair. Ban Don Mon weir situated downstream from the gage site. Stage-discharge relation defined by 15 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

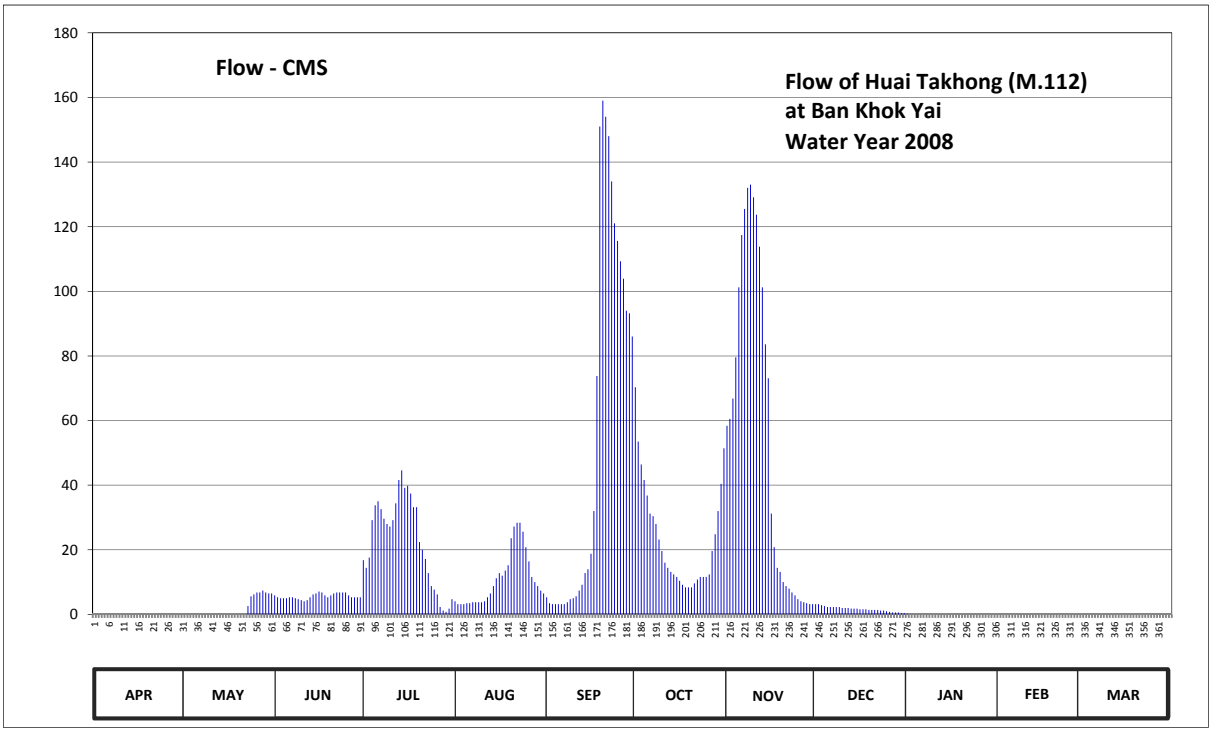
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	134.21	134.01	135.93	136.22	135.87	135.91	137.19	137.02	135.84	135.71	135.40	135.07	
2	134.21	134.00	135.91	136.16	135.84	135.85	136.95	137.05	135.84	135.70	135.39	135.06	
3	134.22	134.00	135.90	136.24	135.84	135.84	136.84	137.14	135.83	135.69	135.38	135.06	
4	134.21	133.99	135.90	136.53	135.84	135.84	136.76	137.32	135.82	135.68	135.37	135.05	
5	134.21	133.99	135.90	136.63	135.85	135.84	136.68	137.58	135.81	135.67	135.36	135.04	
6	134.19	133.98	135.91	136.65	135.85	135.84	136.58	137.76	135.81	135.66	135.35	135.03	
7	134.30	133.97	135.91	136.61	135.86	135.84	136.56	137.85	135.81	135.65	135.34	135.02	
8	134.29	133.96	135.90	136.54	135.86	135.86	136.50	137.92	135.81	135.64	135.33	135.02	
9	134.28	133.95	135.89	136.50	135.86	135.89	136.38	137.93	135.81	135.63	135.33	135.00	
10	134.25	133.94	135.88	136.48	135.86	135.90	136.29	137.89	135.80	135.61	135.32	134.99	
11	134.23	133.93	135.87	136.53	135.87	135.92	136.20	137.83	135.80	135.60	135.29	134.98	
12	134.21	133.92	135.88	136.64	135.91	135.98	136.16	137.72	135.80	135.59	135.27	134.98	
13	134.19	133.95	135.91	136.76	135.95	136.03	136.13	137.58	135.79	135.59	135.24	134.97	
14	134.18	133.98	135.94	136.81	136.02	136.12	136.11	137.37	135.79	135.58	135.23	134.96	
15	134.17	134.02	135.95	136.72	136.08	136.15	136.09	137.23	135.79	135.57	135.23	134.95	
16	134.16	134.04	135.97	136.73	136.12	136.27	136.06	136.58	135.78	135.56	135.22	134.94	
17	134.14	134.04	135.96	136.69	136.10	136.60	136.03	136.32	135.78	135.55	135.21	134.93	
18	134.14	134.04	135.93	136.62	136.14	137.24	136.01	136.16	135.78	135.54	135.19	134.93	
19	134.12	134.03	135.91	136.62	136.18	138.11	136.01	136.13	135.77	135.53	135.18	134.92	
20	134.11	134.05	135.93	136.36	136.39	138.19	136.01	136.05	135.77	135.53	135.17	134.91	
21	134.08	134.47	135.95	136.30	136.48	138.14	136.04	136.02	135.77	135.52	135.16	134.86	
22	134.07	135.30	135.96	136.23	136.51	138.08	136.07	136.00	135.77	135.51	135.15	134.83	
23	134.06	135.82	135.96	136.12	136.51	137.94	136.09	135.96	135.76	135.50	135.14	134.80	
24	134.03	135.92	135.96	136.02	136.44	137.80	136.09	135.93	135.76	135.49	135.13	134.75	
25	134.02	135.94	135.96	135.99	136.32	137.74	136.09	135.89	135.75	135.48	135.11	134.86	
26	134.00	135.96	135.93	135.94	136.21	137.67	136.11	135.87	135.74	135.46	135.09	134.89	
27	133.99	135.96	135.91	135.81	136.09	137.61	136.29	135.86	135.73	135.46	135.08	134.96	
28	133.98	135.98	135.91	135.76	136.05	137.50	136.42	135.85	135.73	135.45	135.07	135.12	
29	133.97	135.96	135.91	135.74	136.02	137.49	136.60	135.84	135.73	135.43		135.41	
30	134.01	135.95	135.91	135.79	135.98	137.40	136.74	135.84	135.72	135.42		135.57	
31		135.95		135.89	135.95		136.92		135.72	135.41		135.66	
Mean	134.14	134.61	135.92	136.34	136.06	136.75	136.35	136.78	135.78	135.56	135.24	135.02	
Max	134.30	135.98	135.97	136.81	136.51	138.19	137.19	137.93	135.84	135.71	135.40	135.66	138.19
Min	133.97	133.92	135.87	135.74	135.84	135.84	136.01	135.84	135.72	135.41	135.07	134.75	133.92

Annual Max Momentary Gage Height 138.21 m. (MSL.) , at 06.00 Hours , on Sep 20, 2008

Zero Gage at Bottom Elevation 131.18 m. (MSL.) , River Bed 130.84 m. (MSL.) ,

Left Bank Elevation 136.98 m. (MSL.) ,

Right Bank Elevation 136.44 m. (MSL.) , Drainage Are 1,232 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	5.90	16.80	4.10	5.30	70.30	58.40	3.20	0.20	0.00	0.00		
2	0.00	0.00	5.30	14.40	3.20	3.50	53.50	60.50	3.20	0.00	0.00	0.00		
3	0.00	0.00	5.00	17.60	3.20	3.20	46.40	66.80	2.90	0.00	0.00	0.00		
4	0.00	0.00	5.00	29.20	3.20	3.20	41.60	79.60	2.60	0.00	0.00	0.00		
5	0.00	0.00	5.00	33.80	3.50	3.20	36.80	101.20	2.30	0.00	0.00	0.00		
6	0.00	0.00	5.30	35.00	3.50	3.20	31.20	117.40	2.30	0.00	0.00	0.00		
7	0.00	0.00	5.30	32.60	3.80	3.20	30.40	125.50	2.30	0.00	0.00	0.00		
8	0.00	0.00	5.00	29.60	3.80	3.80	28.00	132.00	2.30	0.00	0.00	0.00		
9	0.00	0.00	4.70	28.00	3.80	4.70	23.20	133.00	2.30	0.00	0.00	0.00		
10	0.00	0.00	4.40	27.20	3.80	5.00	19.60	129.10	2.00	0.00	0.00	0.00		
11	0.00	0.00	4.10	29.20	4.10	5.60	16.00	123.70	2.00	0.00	0.00	0.00		
12	0.00	0.00	4.40	34.40	5.30	7.40	14.40	113.80	2.00	0.00	0.00	0.00		
13	0.00	0.00	5.30	41.60	6.50	9.20	13.20	101.20	1.80	0.00	0.00	0.00		
14	0.00	0.00	6.20	44.60	8.80	12.80	12.40	83.60	1.80	0.00	0.00	0.00		
15	0.00	0.00	6.50	39.20	11.20	14.00	11.60	73.10	1.80	0.00	0.00	0.00		
16	0.00	0.00	7.10	39.80	12.80	18.80	10.40	31.20	1.60	0.00	0.00	0.00		
17	0.00	0.00	6.80	37.40	12.00	32.00	9.20	20.80	1.60	0.00	0.00	0.00		
18	0.00	0.00	5.90	33.20	13.60	73.80	8.40	14.40	1.60	0.00	0.00	0.00		
19	0.00	0.00	5.30	33.20	15.20	151.00	8.40	13.20	1.40	0.00	0.00	0.00		
20	0.00	0.00	5.90	22.40	23.60	159.00	8.40	10.00	1.40	0.00	0.00	0.00		
21	0.00	0.00	6.50	20.00	27.20	154.00	9.60	8.80	1.40	0.00	0.00	0.00		
22	0.00	0.00	6.80	17.20	28.40	148.00	10.80	8.00	1.40	0.00	0.00	0.00		
23	0.00	2.60	6.80	12.80	28.40	134.00	11.60	6.80	1.20	0.00	0.00	0.00		
24	0.00	5.60	6.80	8.80	25.60	121.00	11.60	5.90	1.20	0.00	0.00	0.00		
25	0.00	6.20	6.80	7.70	20.80	115.60	11.60	4.70	1.00	0.00	0.00	0.00		
26	0.00	6.80	5.90	6.20	16.40	109.30	12.40	4.10	0.80	0.00	0.00	0.00		
27	0.00	6.80	5.30	2.30	11.60	103.90	19.60	3.80	0.60	0.00	0.00	0.00		
28	0.00	7.40	5.30	1.20	10.00	94.00	24.80	3.50	0.60	0.00	0.00	0.00		
29	0.00	6.80	5.30	0.80	8.80	93.20	32.00	3.20	0.60	0.00		0.00		
30	0.00	6.50	5.30	1.80	7.40	86.00	40.40	3.20	0.40	0.00		0.00		
31		6.50		4.70	6.50		51.40		0.40	0.00		0.00		
Total	0.00	55.20	169.20	702.70	340.10	1680.90	729.20	1640.50	52.00	0.20	0.00	0.00	5370.00	CMSDAY
Mean	0.00	1.78	5.64	22.67	10.97	56.03	23.52	54.68	1.68	0.01	0.00	0.00	14.71	CMS
Max	0.00	7.40	7.10	44.60	28.40	159.00	70.30	133.00	3.20	0.20	0.00	0.00	159.00	CMS
Min	0.00	0.00	4.10	0.80	3.20	3.20	8.40	3.20	0.40	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	4.77	14.62	60.71	29.38	145.23	63.00	141.74	4.49	0.02	0.00	0.00	463.97	MCM

Momentary Peak 161.00 CMS, at 138.21 m. (MSL.) , at 06.00 Hours , on Sep 20, 2008

Runoff Yield 11.94 Liters/Second/Square KM. Momentary Peak Yield 130.68 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Lam Chiang Sa at Ban Khok Sakae Rat , Nakhon Ratchasima (M.119)

Lat 14 - 36 - 17 N Long 102 - 01 - 58 E

Location : on left bank at the bridge on Highway.

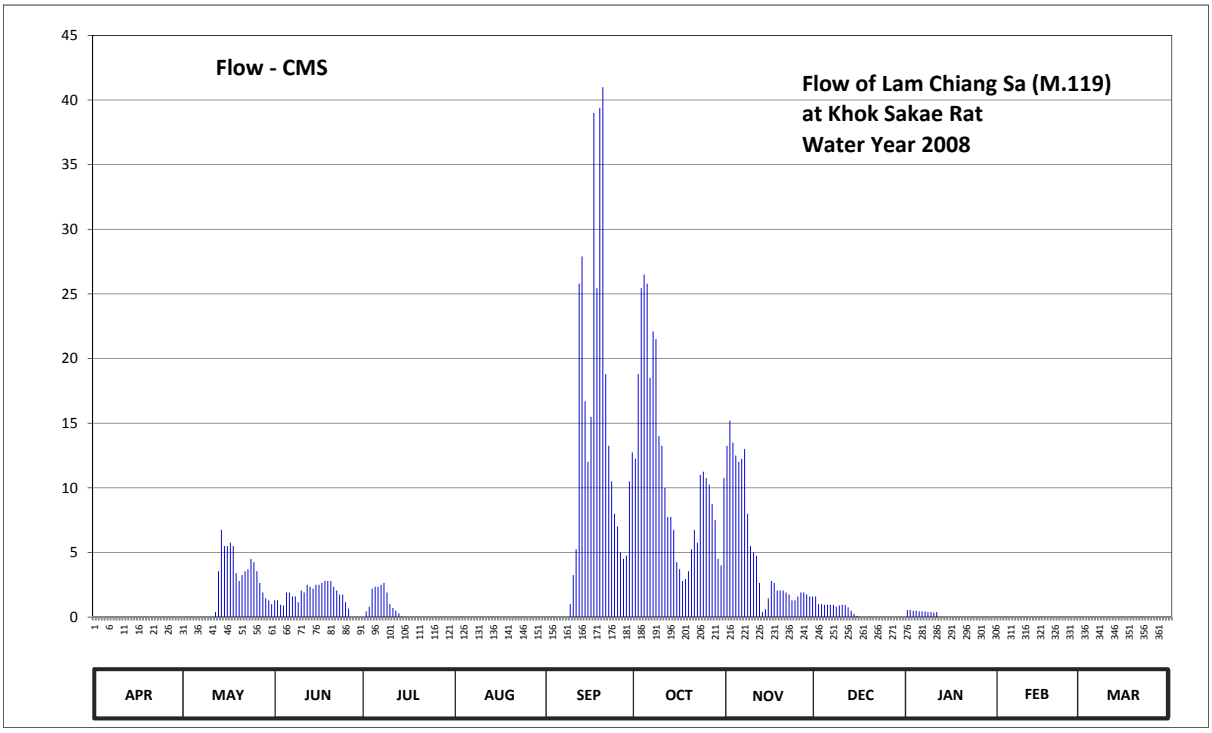
Ban Khok Sakae Rat **Amphoe** Pak Thong Chai **Changwat** Nakhon Ratchasima

Drainge Area	327 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+206.070 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 4 meters from the top staff gage. **Elevation** +211.290 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 mean of 5 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1983 to date.
Rated by Float	-
Rated by Current Meter	1983 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +210.310 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage discharge relation defined by 4 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	206.89	206.71	208.72	208.31	207.61	208.26	209.23	209.27	208.74	208.61	207.39	206.31	
2	206.90	206.71	208.72	208.59	207.61	208.21	209.46	209.34	208.70	208.61	207.37	206.30	
3	206.90	206.72	208.69	208.66	207.61	208.13	209.67	209.28	208.70	208.60	207.30	206.30	
4	206.90	206.72	208.68	208.78	207.63	208.07	209.70	209.24	208.69	208.60	207.21	206.28	
5	206.91	206.72	208.76	208.79	207.65	208.03	209.68	209.22	208.69	208.59	207.15	206.20	
6	206.91	206.80	208.76	208.79	207.63	208.11	209.45	209.23	208.69	208.59	207.09	206.14	
7	206.92	207.16	208.74	208.80	207.61	208.31	209.57	209.26	208.69	208.59	207.06	206.07	
8	206.91	207.28	208.74	208.81	207.61	208.48	209.55	209.06	208.66	208.58	207.04	206.07	
9	206.88	207.29	208.71	208.76	207.60	208.70	209.30	208.96	208.68	208.58	207.03	206.07	
10	206.85	207.30	208.77	208.70	207.59	208.85	209.27	208.94	208.69	208.57	207.02	206.07	
11	206.81	207.45	208.76	208.64	207.60	208.95	209.14	208.93	208.69	208.58	206.86	206.07	
12	206.80	208.58	208.80	208.60	207.69	209.68	209.05	208.81	208.65	208.50	206.84	206.07	
13	206.77	208.87	208.79	208.56	207.68	209.74	209.05	208.58	208.60	208.41	206.80	206.07	
14	206.76	209.01	208.78	208.51	207.67	209.39	209.01	208.62	208.55	208.19	206.75	206.07	
15	206.75	208.96	208.80	208.45	207.68	209.22	208.91	208.73	208.52	208.06	206.75	206.07	
16	206.75	208.96	208.80	208.40	207.69	209.35	208.88	208.82	208.49	208.01	206.73	206.07	
17	206.74	208.97	208.81	208.31	207.72	210.05	208.82	208.81	208.46	207.97	206.72	206.07	
18	206.73	208.96	208.82	208.24	207.73	209.67	208.83	208.77	208.36	207.93	206.72	206.07	
19	206.72	208.86	208.82	208.16	207.74	210.06	208.87	208.77	208.25	207.86	206.72	206.07	
20	206.72	208.82	208.82	208.11	207.76	210.10	208.95	208.77	207.97	207.82	206.64	206.07	
21	206.72	208.85	208.79	208.00	207.86	209.46	209.01	208.76	207.86	207.77	206.59	206.07	
22	206.71	208.87	208.77	207.97	207.93	209.27	208.97	208.75	207.78	207.74	206.52	206.07	
23	206.71	208.88	208.75	207.94	207.93	209.16	209.18	208.72	207.72	207.68	206.45	206.07	
24	206.71	208.92	208.75	207.90	207.94	209.06	209.19	208.72	207.70	207.63	206.40	206.07	
25	206.70	208.91	208.71	207.86	207.94	209.02	209.17	208.74	207.69	207.59	206.26	206.07	
26	206.70	208.87	208.63	207.83	207.95	208.94	209.15	208.76	207.68	207.56	206.25	206.07	
27	206.71	208.81	208.43	207.81	207.93	208.92	209.09	208.76	207.64	207.53	206.25	206.07	
28	206.71	208.76	208.29	207.77	207.91	208.93	209.04	208.75	207.63	207.48	206.24	206.07	
29	206.72	208.73	208.21	207.74	207.86	209.16	208.92	208.74	207.62	207.45		206.07	
30	206.72	208.72	208.16	207.66	207.83	209.25	208.90	208.74	207.61	207.43		206.07	
31		208.70		207.63	208.07		209.17		207.61	207.43		206.07	
Mean	206.79	208.19	208.69	208.29	207.75	209.02	209.17	208.90	208.26	208.08	206.79	206.11	
Max	206.92	209.01	208.82	208.81	208.07	210.10	209.70	209.34	208.74	208.61	207.39	206.31	210.10
Min	206.70	206.71	208.16	207.63	207.59	208.03	208.82	208.58	207.61	207.43	206.24	206.07	206.07

Annual Max Momentary Gage Height	210.57	m. (MSL.) ,	at 18.00 Hours , on Sep 19, 2008		
Zero Gage at Bottom Elevation	206.07	m. (MSL.) ,	River Bed	205.92	m. (MSL.) ,
Left Bank Elevation	211.20	m. (MSL.) ,			
Right Bank Elevation	210.30	m. (MSL.) ,	Drainage Are	327	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	1.30	0.00	0.00	0.00	12.25	13.25	1.60	0.55	0.00	0.00		
2	0.00	0.00	1.30	0.45	0.00	0.00	18.80	15.20	1.00	0.55	0.00	0.00		
3	0.00	0.00	0.95	0.80	0.00	0.00	25.45	13.50	1.00	0.50	0.00	0.00		
4	0.00	0.00	0.90	2.20	0.00	0.00	26.50	12.50	0.95	0.50	0.00	0.00		
5	0.00	0.00	1.90	2.35	0.00	0.00	25.80	12.00	0.95	0.45	0.00	0.00		
6	0.00	0.00	1.90	2.35	0.00	0.00	18.50	12.25	0.95	0.45	0.00	0.00		
7	0.00	0.00	1.60	2.50	0.00	0.00	22.10	13.00	0.95	0.45	0.00	0.00		
8	0.00	0.00	1.60	2.65	0.00	0.00	21.50	8.00	0.80	0.40	0.00	0.00		
9	0.00	0.00	1.15	1.90	0.00	1.00	14.00	5.50	0.90	0.40	0.00	0.00		
10	0.00	0.00	2.05	1.00	0.00	3.25	13.25	5.00	0.95	0.35	0.00	0.00		
11	0.00	0.00	1.90	0.70	0.00	5.25	10.00	4.75	0.95	0.40	0.00	0.00		
12	0.00	0.40	2.50	0.50	0.00	25.80	7.75	2.65	0.75	0.00	0.00	0.00		
13	0.00	3.55	2.35	0.30	0.00	27.90	7.75	0.40	0.50	0.00	0.00	0.00		
14	0.00	6.75	2.20	0.05	0.00	16.70	6.75	0.60	0.25	0.00	0.00	0.00		
15	0.00	5.50	2.50	0.00	0.00	12.00	4.25	1.45	0.10	0.00	0.00	0.00		
16	0.00	5.50	2.50	0.00	0.00	15.50	3.70	2.80	0.00	0.00	0.00	0.00		
17	0.00	5.75	2.65	0.00	0.00	39.00	2.80	2.65	0.00	0.00	0.00	0.00		
18	0.00	5.50	2.80	0.00	0.00	25.45	2.95	2.05	0.00	0.00	0.00	0.00		
19	0.00	3.40	2.80	0.00	0.00	39.40	3.55	2.05	0.00	0.00	0.00	0.00		
20	0.00	2.80	2.80	0.00	0.00	41.00	5.25	2.05	0.00	0.00	0.00	0.00		
21	0.00	3.25	2.35	0.00	0.00	18.80	6.75	1.90	0.00	0.00	0.00	0.00		
22	0.00	3.55	2.05	0.00	0.00	13.25	5.75	1.75	0.00	0.00	0.00	0.00		
23	0.00	3.70	1.75	0.00	0.00	10.50	11.00	1.30	0.00	0.00	0.00	0.00		
24	0.00	4.50	1.75	0.00	0.00	8.00	11.25	1.30	0.00	0.00	0.00	0.00		
25	0.00	4.25	1.15	0.00	0.00	7.00	10.75	1.60	0.00	0.00	0.00	0.00		
26	0.00	3.55	0.65	0.00	0.00	5.00	10.25	1.90	0.00	0.00	0.00	0.00		
27	0.00	2.65	0.00	0.00	0.00	4.50	8.75	1.90	0.00	0.00	0.00	0.00		
28	0.00	1.90	0.00	0.00	0.00	4.75	7.50	1.75	0.00	0.00	0.00	0.00		
29	0.00	1.45	0.00	0.00	0.00	10.50	4.50	1.60	0.00	0.00		0.00		
30	0.00	1.30	0.00	0.00	0.00	12.75	4.00	1.60	0.00	0.00		0.00		
31		1.00		0.00	0.00		10.75		0.00	0.00		0.00		
Total	0.00	70.25	49.35	17.75	0.00	347.30	344.15	148.25	12.60	5.00	0.00	0.00	994.65	CMSDAY
Mean	0.00	2.27	1.64	0.57	0.00	11.58	11.10	4.94	0.41	0.16	0.00	0.00	2.73	CMS
Max	0.00	6.75	2.80	2.65	0.00	41.00	26.50	15.20	1.60	0.55	0.00	0.00	41.00	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	2.80	0.40	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	6.07	4.26	1.53	0.00	30.01	29.73	12.81	1.09	0.43	0.00	0.00	85.94	MCM

Momentary Peak 61.65 CMS, at 210.57 m. (MSL.) , at 18.00 Hours , on Sep 19, 2008

Runoff Yield 8.33 Liters/Second/Square KM. Momentary Peak Yield 188.53 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +126.870 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Float	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The weir situsted about 300 meters downstream from the gage site. Stage-discharge relation defined by 21 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

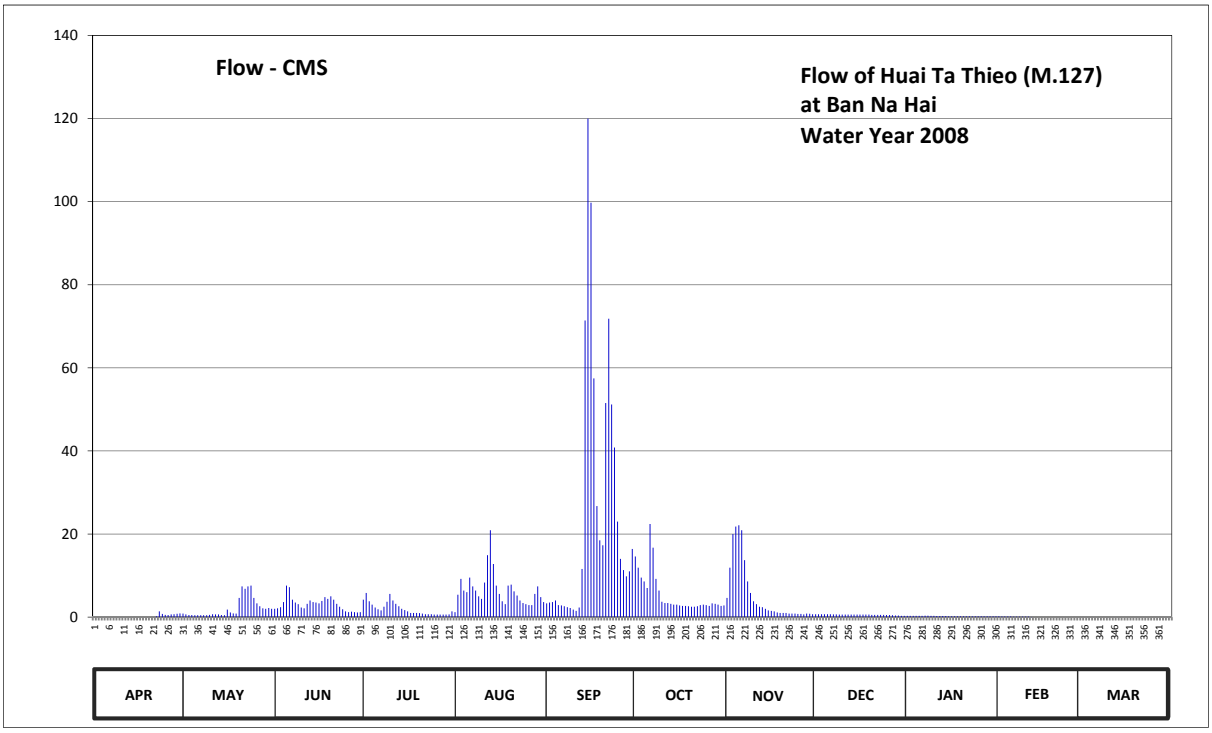
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	116.29	116.67	116.80	117.01	116.72	116.93	117.42	117.03	116.64	116.56	116.54	116.42	
2	116.35	116.63	116.81	117.09	117.07	116.95	117.33	117.33	116.64	116.56	116.53	116.42	
3	116.34	116.60	116.84	116.98	117.24	116.96	117.25	117.60	116.64	116.56	116.53	116.41	
4	116.34	116.60	116.96	116.90	117.12	117.00	117.22	117.66	116.64	116.56	116.53	116.41	
5	116.34	116.59	117.18	116.83	117.10	116.89	117.15	117.67	116.64	116.56	116.53	116.41	
6	116.35	116.59	117.16	116.79	117.25	116.88	117.68	117.63	116.64	116.56	116.52	116.40	
7	116.36	116.59	117.01	116.76	117.17	116.86	117.49	117.39	116.63	116.57	116.52	116.40	
8	116.36	116.59	116.95	116.85	117.12	116.84	117.24	117.22	116.63	116.57	116.52	116.40	
9	116.36	116.59	116.91	116.97	117.05	116.82	117.12	117.09	116.62	116.56	116.52	116.39	
10	116.36	116.61	116.83	117.08	117.02	116.78	116.97	116.98	116.62	116.56	116.52	116.38	
11	116.36	116.64	116.81	117.00	117.21	116.75	116.94	116.91	116.62	116.55	116.52	116.37	
12	116.35	116.63	116.92	116.92	117.43	116.83	116.94	116.85	116.62	116.55	116.51	116.37	
13	116.34	116.63	117.00	116.86	117.63	117.32	116.92	116.84	116.62	116.55	116.49	116.36	
14	116.34	116.60	116.96	116.80	117.36	119.01	116.90	116.80	116.62	116.55	116.49	116.36	
15	116.34	116.59	116.95	116.77	117.18	120.08	116.90	116.76	116.62	116.54	116.48	116.35	
16	116.34	116.78	116.93	116.74	117.08	119.65	116.88	116.75	116.62	116.54	116.48	116.35	
17	116.33	116.71	116.99	116.70	116.98	118.65	116.87	116.74	116.62	116.54	116.48	116.35	
18	116.33	116.68	117.04	116.70	116.91	117.82	116.87	116.71	116.62	116.54	116.48	116.35	
19	116.32	116.67	117.02	116.70	117.18	117.55	116.86	116.70	116.62	116.54	116.48	116.35	
20	116.32	117.03	117.05	116.69	117.19	117.51	116.85	116.70	116.61	116.54	116.46	116.35	
21	116.32	117.17	117.01	116.67	117.11	118.49	116.85	116.70	116.61	116.54	116.46	116.34	
22	116.54	117.14	116.92	116.64	117.06	119.02	116.86	116.67	116.61	116.54	116.46	116.34	
23	116.74	117.17	116.85	116.64	117.00	118.48	116.89	116.67	116.61	116.54	116.46	116.34	
24	116.65	117.18	116.79	116.64	116.94	118.20	116.90	116.67	116.61	116.54	116.45	116.34	
25	116.61	117.03	116.74	116.62	116.91	117.70	116.89	116.65	116.60	116.54	116.44	116.36	
26	116.60	116.93	116.72	116.62	116.89	117.40	116.87	116.65	116.60	116.54	116.44	116.34	
27	116.63	116.86	116.73	116.62	116.89	117.31	116.93	116.63	116.59	116.54	116.43	116.34	
28	116.64	116.81	116.72	116.62	117.08	117.26	116.92	116.67	116.58	116.54	116.42	116.33	
29	116.66	116.80	116.71	116.62	117.17	117.30	116.90	116.66	116.58	116.54		116.33	
30	116.68	116.82	116.72	116.63	117.04	117.48	116.87	116.64	116.56	116.54		116.33	
31		116.80		116.74	116.96		116.88		116.56	116.54		116.33	
Mean	116.43	116.77	116.90	116.78	117.10	117.62	117.02	116.93	116.61	116.55	116.49	116.37	
Max	116.74	117.18	117.18	117.09	117.63	120.08	117.68	117.67	116.64	116.57	116.54	116.42	120.08
Min	116.29	116.59	116.71	116.62	116.72	116.75	116.85	116.63	116.56	116.54	116.42	116.33	116.29

Annual Max Momentary Gage Height 120.34 m. (MSL.) , at 08.00 Hours , on Sep 15, 2008

Zero Gage at Bottom Elevation 115.34 m. (MSL.) , River Bed 116.04 m. (MSL.) ,

Left Bank Elevation 121.81 m. (MSL.) ,

Right Bank Elevation 123.17 m. (MSL.) , Drainage Are 424 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.85	2.00	4.20	1.20	3.30	14.60	4.60	0.70	0.30	0.20	0.00		
2	0.00	0.65	2.10	5.80	5.40	3.50	11.90	11.90	0.70	0.30	0.15	0.00		
3	0.00	0.50	2.40	3.80	9.20	3.60	9.50	20.00	0.70	0.30	0.15	0.00		
4	0.00	0.50	3.60	3.00	6.40	4.00	8.60	21.80	0.70	0.30	0.15	0.00		
5	0.00	0.45	7.60	2.30	6.00	2.90	7.00	22.10	0.70	0.30	0.15	0.00		
6	0.00	0.45	7.20	1.90	9.50	2.80	22.40	20.90	0.70	0.30	0.10	0.00		
7	0.00	0.45	4.20	1.60	7.40	2.60	16.70	13.70	0.65	0.35	0.10	0.00		
8	0.00	0.45	3.50	2.50	6.40	2.40	9.20	8.60	0.65	0.35	0.10	0.00		
9	0.00	0.45	3.10	3.70	5.00	2.20	6.40	5.80	0.60	0.30	0.10	0.00		
10	0.00	0.55	2.30	5.60	4.40	1.80	3.70	3.80	0.60	0.30	0.10	0.00		
11	0.00	0.70	2.10	4.00	8.30	1.50	3.40	3.10	0.60	0.25	0.10	0.00		
12	0.00	0.65	3.20	3.20	14.90	2.30	3.40	2.50	0.60	0.25	0.05	0.00		
13	0.00	0.65	4.00	2.60	20.90	11.60	3.20	2.40	0.60	0.25	0.00	0.00		
14	0.00	0.50	3.60	2.00	12.80	71.40	3.00	2.00	0.60	0.25	0.00	0.00		
15	0.00	0.45	3.50	1.70	7.60	120.00	3.00	1.60	0.60	0.20	0.00	0.00		
16	0.00	1.80	3.30	1.40	5.60	99.75	2.80	1.50	0.60	0.20	0.00	0.00		
17	0.00	1.10	3.90	1.00	3.80	57.45	2.70	1.40	0.60	0.20	0.00	0.00		
18	0.00	0.90	4.80	1.00	3.10	26.74	2.70	1.10	0.60	0.20	0.00	0.00		
19	0.00	0.85	4.40	1.00	7.60	18.50	2.60	1.00	0.60	0.20	0.00	0.00		
20	0.00	4.60	5.00	0.95	7.80	17.30	2.50	1.00	0.55	0.20	0.00	0.00		
21	0.00	7.40	4.20	0.85	6.20	51.53	2.50	1.00	0.55	0.20	0.00	0.00		
22	0.20	6.80	3.20	0.70	5.20	71.80	2.60	0.85	0.55	0.20	0.00	0.00		
23	1.40	7.40	2.50	0.70	4.00	51.16	2.90	0.85	0.55	0.20	0.00	0.00		
24	0.75	7.60	1.90	0.70	3.40	40.80	3.00	0.85	0.55	0.20	0.00	0.00		
25	0.55	4.60	1.40	0.60	3.10	23.00	2.90	0.75	0.50	0.20	0.00	0.00		
26	0.50	3.30	1.20	0.60	2.90	14.00	2.70	0.75	0.50	0.20	0.00	0.00		
27	0.65	2.60	1.30	0.60	2.90	11.30	3.30	0.65	0.45	0.20	0.00	0.00		
28	0.70	2.10	1.20	0.60	5.60	9.80	3.20	0.85	0.40	0.20	0.00	0.00		
29	0.80	2.00	1.10	0.60	7.40	11.00	3.00	0.80	0.40	0.20		0.00		
30	0.90	2.20	1.20	0.65	4.80	16.40	2.70	0.70	0.30	0.20		0.00		
31		2.00		1.40	3.60		2.80		0.30	0.20		0.00		
Total	6.45	65.50	95.00	61.25	202.40	756.43	170.90	158.85	17.70	7.50	1.45	0.00	1543.43	CMSDAY
Mean	0.21	2.11	3.17	1.98	6.53	25.21	5.51	5.29	0.57	0.24	0.05	0.00	4.23	CMS
Max	1.40	7.60	7.60	5.80	20.90	120.00	22.40	22.10	0.70	0.35	0.20	0.00	120.00	CMS
Min	0.00	0.45	1.10	0.60	1.20	1.50	2.50	0.65	0.30	0.20	0.00	0.00	0.00	CMS
Runoff	0.56	5.66	8.21	5.29	17.49	65.36	14.77	13.72	1.53	0.65	0.13	0.00	133.35	MCM

Momentary Peak 133.00 CMS, at 120.34 m. (MSL.) , at 08.00 Hours , on Sep 15, 2008

Runoff Yield 9.97 Liters/Second/Square KM. Momentary Peak Yield 313.68 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Huai Saphu at Ban Mon, Ubon Ratchathani (M.132)

Lat 15 - 34 - 46 N Long 105 - 04 - 00 E

Location : on left bank at the bridge on highway at Ban Mon.

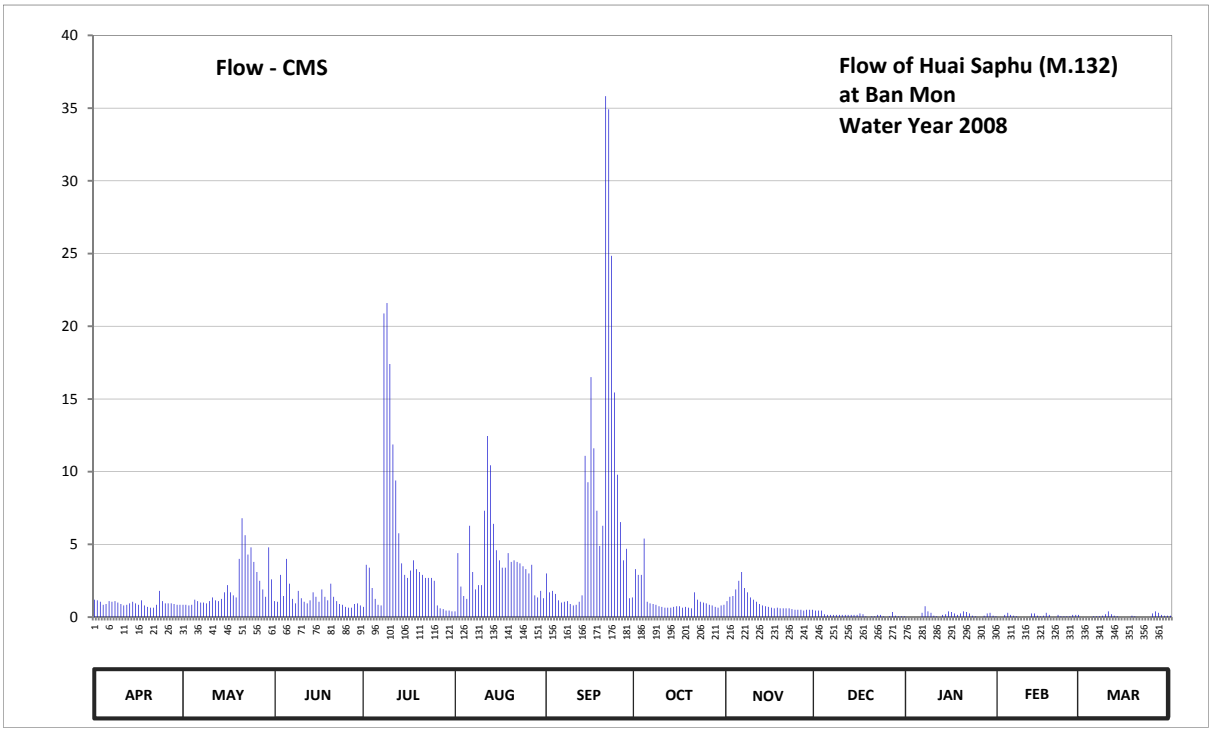
Ban Mon **Amphoe** Trakan Phutphon **Changwat** Ubon Ratchathani

Drainge Area	101 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+116.890 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the footpath of the bridge. **Elevation** +125.200 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 Float	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +119.370 m.(MSL.), records are channel flow only.
General Description	Records fair. Flow effected by Lam Phra Phloeng Dam about 5 kilometers upstream from the gage site. Stage-discharge relation defined by 13 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	117.64	117.57	117.62	117.54	117.48	117.85	117.88	117.62	117.49	117.39	117.40	117.40	
2	117.63	117.57	117.61	117.91	117.99	117.72	117.84	117.68	117.49	117.38	117.39	117.40	
3	117.61	117.56	117.84	117.89	117.76	117.73	117.84	117.69	117.49	117.38	117.43	117.40	
4	117.57	117.57	117.69	117.75	117.69	117.71	118.09	117.74	117.44	117.38	117.46	117.40	
5	117.58	117.64	117.95	117.65	117.65	117.63	117.61	117.80	117.43	117.39	117.43	117.41	
6	117.62	117.62	117.78	117.57	118.16	117.60	117.59	117.86	117.43	117.46	117.42	117.41	
7	117.61	117.60	117.65	117.56	117.86	117.61	117.58	117.75	117.43	117.55	117.41	117.41	
8	117.62	117.60	117.59	119.16	117.74	117.62	117.57	117.72	117.43	117.48	117.40	117.42	
9	117.60	117.59	117.73	119.20	117.77	117.58	117.55	117.67	117.43	117.46	117.39	117.44	
10	117.58	117.62	117.66	118.96	117.77	117.56	117.54	117.64	117.43	117.42	117.39	117.48	
11	117.56	117.67	117.61	118.59	118.24	117.57	117.53	117.61	117.43	117.41	117.40	117.44	
12	117.57	117.63	117.59	118.40	118.63	117.61	117.53	117.58	117.43	117.40	117.45	117.42	
13	117.59	117.62	117.63	118.12	118.48	117.70	117.53	117.56	117.43	117.43	117.45	117.41	
14	117.61	117.65	117.72	117.92	118.17	118.53	117.54	117.55	117.43	117.44	117.42	117.40	
15	117.59	117.72	117.68	117.84	118.01	118.39	117.55	117.54	117.43	117.48	117.41	117.40	
16	117.57	117.77	117.61	117.82	117.94	118.90	117.55	117.53	117.45	117.47	117.42	117.39	
17	117.63	117.72	117.74	117.87	117.89	118.57	117.53	117.52	117.44	117.45	117.46	117.39	
18	117.56	117.70	117.68	117.94	117.89	118.24	117.54	117.53	117.41	117.43	117.43	117.42	
19	117.54	117.67	117.63	117.88	117.99	118.04	117.53	117.52	117.40	117.45	117.40	117.41	
20	117.53	117.95	117.78	117.86	117.93	118.16	117.52	117.52	117.41	117.48	117.40	117.40	
21	117.53	118.20	117.68	117.84	117.94	119.99	117.72	117.52	117.41	117.47	117.43	117.40	
22	117.57	118.11	117.62	117.82	117.93	119.94	117.64	117.52	117.43	117.45	117.41	117.40	
23	117.73	117.98	117.58	117.82	117.92	119.38	117.61	117.51	117.43	117.42	117.41	117.39	
24	117.62	118.03	117.57	117.82	117.90	118.83	117.60	117.50	117.41	117.41	117.41	117.39	
25	117.59	117.93	117.54	117.80	117.88	118.43	117.59	117.50	117.40	117.40	117.41	117.45	
26	117.59	117.86	117.53	117.56	117.85	118.18	117.57	117.50	117.41	117.40	117.43	117.48	
27	117.59	117.80	117.53	117.52	117.91	117.94	117.56	117.49	117.47	117.42	117.43	117.46	
28	117.58	117.74	117.58	117.51	117.70	118.02	117.54	117.50	117.42	117.45	117.43	117.43	
29	117.57	117.68	117.59	117.49	117.67	117.66	117.53	117.50	117.41	117.46		117.42	
30	117.57	118.03	117.56	117.49	117.73	117.67	117.56	117.50	117.41	117.42		117.42	
31		117.81		117.48	117.66		117.57		117.41	117.41		117.42	
Mean	117.59	117.75	117.65	117.92	117.91	118.15	117.61	117.59	117.43	117.43	117.42	117.42	
Max	117.73	118.20	117.95	119.20	118.63	119.99	118.09	117.86	117.49	117.55	117.46	117.48	119.99
Min	117.53	117.56	117.53	117.48	117.48	117.56	117.52	117.49	117.40	117.38	117.39	117.39	117.38

Annual Max Momentary Gage Height	120.47	m. (MSL.) ,	at 17.00 Hours, on Sep 21, 2008		
Zero Gage at Bottom Elevation	116.89	m. (MSL.) ,	River Bed	117.11	m. (MSL.)
Left Bank Elevation	119.36	m. (MSL.) ,			
Right Bank Elevation	121.47	m. (MSL.) ,	Drainage Are	101	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.20	0.85	1.10	0.70	0.40	3.00	3.30	1.10	0.45	0.00	0.00	0.00		
2	1.15	0.85	1.05	3.60	4.40	1.70	2.90	1.40	0.45	0.00	0.00	0.00		
3	1.05	0.80	2.90	3.40	2.10	1.80	2.90	1.45	0.45	0.00	0.15	0.00		
4	0.85	0.85	1.45	2.00	1.45	1.60	5.40	1.90	0.20	0.00	0.30	0.00		
5	0.90	1.20	4.00	1.25	1.25	1.15	1.05	2.50	0.15	0.00	0.15	0.05		
6	1.10	1.10	2.30	0.85	6.28	1.00	0.95	3.10	0.15	0.30	0.10	0.05		
7	1.05	1.00	1.25	0.80	3.10	1.05	0.90	2.00	0.15	0.75	0.05	0.05		
8	1.10	1.00	0.95	20.88	1.90	1.10	0.85	1.70	0.15	0.40	0.00	0.10		
9	1.00	0.95	1.80	21.60	2.20	0.90	0.75	1.35	0.15	0.30	0.00	0.20		
10	0.90	1.10	1.30	17.40	2.20	0.80	0.70	1.20	0.15	0.10	0.00	0.40		
11	0.80	1.35	1.05	11.87	7.32	0.85	0.65	1.05	0.15	0.05	0.00	0.20		
12	0.85	1.15	0.95	9.40	12.45	1.05	0.65	0.90	0.15	0.00	0.25	0.10		
13	0.95	1.10	1.15	5.76	10.44	1.50	0.65	0.80	0.15	0.15	0.25	0.05		
14	1.05	1.25	1.70	3.70	6.41	11.09	0.70	0.75	0.15	0.20	0.10	0.00		
15	0.95	1.70	1.40	2.90	4.60	9.27	0.75	0.70	0.15	0.40	0.05	0.00		
16	0.85	2.20	1.05	2.70	3.90	16.50	0.75	0.65	0.25	0.35	0.10	0.00		
17	1.15	1.70	1.90	3.20	3.40	11.61	0.65	0.60	0.20	0.25	0.30	0.00		
18	0.80	1.50	1.40	3.90	3.40	7.32	0.70	0.65	0.05	0.15	0.15	0.10		
19	0.70	1.35	1.15	3.30	4.40	4.90	0.65	0.60	0.00	0.25	0.00	0.05		
20	0.65	4.00	2.30	3.10	3.80	6.28	0.60	0.60	0.05	0.40	0.00	0.00		
21	0.65	6.80	1.40	2.90	3.90	35.82	1.70	0.60	0.05	0.35	0.15	0.00		
22	0.85	5.63	1.10	2.70	3.80	34.92	1.20	0.60	0.15	0.25	0.05	0.00		
23	1.80	4.30	0.90	2.70	3.70	24.84	1.05	0.55	0.15	0.10	0.05	0.00		
24	1.10	4.80	0.85	2.70	3.50	15.45	1.00	0.50	0.05	0.05	0.05	0.00		
25	0.95	3.80	0.70	2.50	3.30	9.79	0.95	0.50	0.00	0.00	0.05	0.25		
26	0.95	3.10	0.65	0.80	3.00	6.54	0.85	0.50	0.05	0.00	0.15	0.40		
27	0.95	2.50	0.65	0.60	3.60	3.90	0.80	0.45	0.35	0.10	0.15	0.30		
28	0.90	1.90	0.90	0.55	1.50	4.70	0.70	0.50	0.10	0.25	0.15	0.15		
29	0.85	1.40	0.95	0.45	1.35	1.30	0.65	0.50	0.05	0.30		0.10		
30	0.85	4.80	0.80	0.45	1.80	1.35	0.80	0.50	0.05	0.10		0.10		
31		2.60		0.40	1.30		0.85		0.05	0.05		0.10		
Total	28.90	68.63	41.05	139.06	116.15	223.08	37.00	30.20	4.80	5.60	2.75	2.75	699.97	CMSDAY
Mean	0.96	2.21	1.37	4.49	3.75	7.44	1.19	1.01	0.15	0.18	0.10	0.09	1.92	CMS
Max	1.80	6.80	4.00	21.60	12.45	35.82	5.40	3.10	0.45	0.75	0.30	0.40	35.82	CMS
Min	0.65	0.80	0.65	0.40	0.40	0.80	0.60	0.45	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	2.5	5.93	3.55	12.01	10.04	19.27	3.2	2.61	0.41	0.48	0.24	0.24	60.48	MCM

Momentary Peak 45.20 CMS, at 120.47 m. (MSL.) , at 17.00 Hours, on Sep 21, 2008

Runoff Yield 18.99 Liters/Second/Square KM. Momentary Peak Yield 447.52 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Huai Nua at Ban Raka, Si Sa Ket (M.137)

Lat 14 - 47 - 28 N Long 104 - 10 - 35 E

Location : on right bank at the bridge on road.

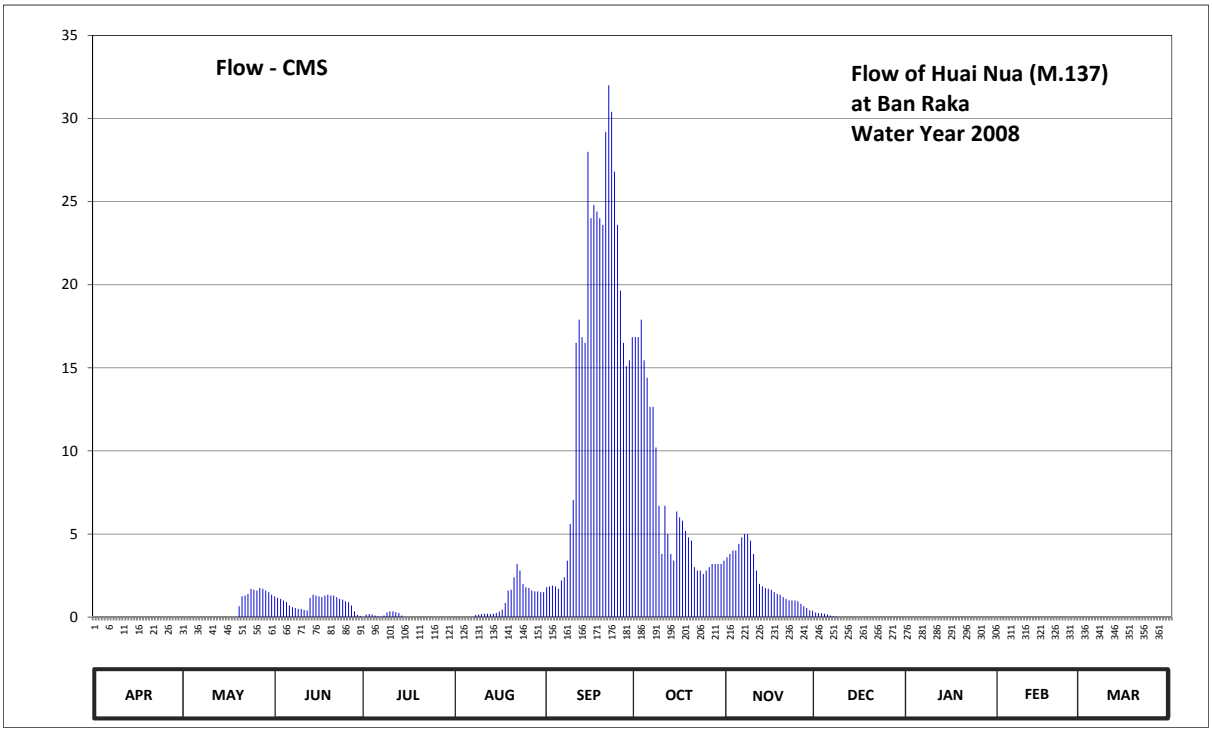
Ban Raka **Amphoe** Khu Khan **Changwat** Si Sa Ket

Drainge Area	478 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+139.160 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank upstream side at the abutment of the bridge. **Elevation** +143.750 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 mean of 5 readings
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Float	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	Overbank flow starts at elevation +141.120 m.(MSL.) and is including overbank flow.
General Description	Records fair. Stage-discharge relation defined by 6 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.16	139.23	140.35	140.00	139.56	140.46	141.01	140.58	140.11	139.73	139.56	139.39	
2	139.17	139.20	140.33	140.06	139.81	140.47	141.01	140.59	140.10	139.73	139.55	139.36	
3	139.17	139.15	140.32	140.07	139.91	140.48	141.04	140.60	140.09	139.72	139.55	139.34	
4	139.16	139.10	140.30	140.06	139.89	140.47	140.97	140.60	140.08	139.71	139.54	139.32	
5	139.16	139.07	140.28	140.04	139.86	140.44	140.94	140.62	140.06	139.70	139.53	139.30	
6	139.17	139.08	140.24	140.02	139.92	140.51	140.89	140.64	140.04	139.70	139.53	139.28	
7	139.17	139.08	140.22	140.01	139.97	140.52	140.89	140.65	140.02	139.69	139.52	139.26	
8	139.18	139.08	140.21	140.04	140.05	140.57	140.82	140.65	140.01	139.68	139.52	139.24	
9	139.18	139.08	140.20	140.11	140.06	140.68	140.72	140.63	140.00	139.67	139.51	139.22	
10	139.19	139.08	140.20	140.14	140.07	140.73	140.59	140.59	139.99	139.66	139.51	139.20	
11	139.19	139.08	140.17	140.14	140.08	141.00	140.72	140.54	139.98	139.65	139.50	139.18	
12	139.19	139.08	140.16	140.12	140.08	141.04	140.65	140.50	139.97	139.64	139.50	139.17	
13	139.20	139.23	140.33	140.10	140.07	141.01	140.59	140.47	139.95	139.63	139.49	139.16	
14	139.20	139.31	140.37	140.04	140.08	141.00	140.57	140.45	139.93	139.62	139.49	139.16	
15	139.21	139.44	140.36	139.94	140.10	141.30	140.71	140.44	139.92	139.62	139.49	139.15	
16	139.22	139.63	140.35	139.87	140.13	141.20	140.70	140.43	139.92	139.62	139.48	139.14	
17	139.22	139.67	140.34	139.84	140.18	141.22	140.69	140.40	139.90	139.61	139.47	139.13	
18	139.22	139.72	140.36	139.79	140.27	141.21	140.66	140.38	139.89	139.61	139.47	139.12	
19	139.21	139.98	140.37	139.80	140.42	141.20	140.64	140.37	139.87	139.61	139.46	139.11	
20	139.21	140.23	140.36	139.80	140.43	141.19	140.63	140.34	139.86	139.61	139.46	139.11	
21	139.24	140.35	140.36	139.80	140.52	141.33	140.55	140.32	139.85	139.60	139.46	139.09	
22	139.24	140.36	140.34	139.79	140.56	141.40	140.54	140.30	139.84	139.60	139.46	139.08	
23	139.25	140.38	140.32	139.79	140.54	141.36	140.54	140.30	139.83	139.60	139.46	139.09	
24	139.25	140.44	140.31	139.78	140.50	141.27	140.53	140.30	139.81	139.60	139.45	139.09	
25	139.26	140.43	140.29	139.78	140.46	141.19	140.54	140.29	139.79	139.59	139.45	139.08	
26	139.27	140.42	140.28	139.77	140.45	141.09	140.55	140.26	139.78	139.59	139.45	139.07	
27	139.28	140.45	140.24	139.74	140.42	141.00	140.56	140.23	139.77	139.59	139.45	139.06	
28	139.29	140.44	140.14	139.71	140.41	140.96	140.56	140.21	139.76	139.58	139.45	139.05	
29	139.26	140.42	140.05	139.68	140.41	140.97	140.56	140.16	139.75	139.58		139.04	
30	139.26	140.40	140.03	139.64	140.40	141.01	140.56	140.15	139.74	139.57		139.03	
31		140.37		139.60	140.40		140.57		139.73	139.57		139.03	
Mean	139.21	139.71	140.27	139.91	140.19	140.94	140.69	140.43	139.91	139.63	139.49	139.16	
Max	139.29	140.45	140.37	140.14	140.56	141.40	141.04	140.65	140.11	139.73	139.56	139.39	141.40
Min	139.16	139.07	140.03	139.60	139.56	140.44	140.53	140.15	139.73	139.57	139.45	139.03	139.03

Annual Max Momentary Gage Height	141.40	m. (MSL.) ,	at 06.00 Hours , on Sep 22, 2008		
Zero Gage at Bottom Elevation	139.16	m. (MSL.) ,	River Bed	136.54	m. (MSL.) ,
Left Bank Elevation	141.11	m. (MSL.) ,			
Right Bank Elevation	141.54	m. (MSL.) ,	Drainage Are	478	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	1.25	0.00	0.00	1.80	16.85	3.60	0.28	0.00	0.00	0.00		
2	0.00	0.00	1.15	0.15	0.00	1.85	16.85	3.80	0.25	0.00	0.00	0.00		
3	0.00	0.00	1.10	0.18	0.00	1.90	17.90	4.00	0.23	0.00	0.00	0.00		
4	0.00	0.00	1.00	0.15	0.00	1.85	15.45	4.00	0.20	0.00	0.00	0.00		
5	0.00	0.00	0.90	0.10	0.00	1.70	14.40	4.40	0.15	0.00	0.00	0.00		
6	0.00	0.00	0.70	0.05	0.00	2.20	12.65	4.80	0.10	0.00	0.00	0.00		
7	0.00	0.00	0.60	0.03	0.00	2.40	12.65	5.00	0.05	0.00	0.00	0.00		
8	0.00	0.00	0.55	0.10	0.13	3.40	10.20	5.00	0.03	0.00	0.00	0.00		
9	0.00	0.00	0.50	0.28	0.15	5.60	6.70	4.60	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.50	0.35	0.18	7.05	3.80	3.80	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.43	0.35	0.20	16.50	6.70	2.80	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.40	0.30	0.20	17.90	5.00	2.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	1.15	0.25	0.18	16.85	3.80	1.85	0.00	0.00	0.00	0.00		
14	0.00	0.00	1.35	0.10	0.20	16.50	3.40	1.75	0.00	0.00	0.00	0.00		
15	0.00	0.00	1.30	0.00	0.25	28.00	6.35	1.70	0.00	0.00	0.00	0.00		
16	0.00	0.00	1.25	0.00	0.33	24.00	6.00	1.65	0.00	0.00	0.00	0.00		
17	0.00	0.00	1.20	0.00	0.45	24.80	5.80	1.50	0.00	0.00	0.00	0.00		
18	0.00	0.00	1.30	0.00	0.85	24.40	5.20	1.40	0.00	0.00	0.00	0.00		
19	0.00	0.00	1.35	0.00	1.60	24.00	4.80	1.35	0.00	0.00	0.00	0.00		
20	0.00	0.65	1.30	0.00	1.65	23.60	4.60	1.20	0.00	0.00	0.00	0.00		
21	0.00	1.25	1.30	0.00	2.40	29.20	3.00	1.10	0.00	0.00	0.00	0.00		
22	0.00	1.30	1.20	0.00	3.20	32.00	2.80	1.00	0.00	0.00	0.00	0.00		
23	0.00	1.40	1.10	0.00	2.80	30.40	2.80	1.00	0.00	0.00	0.00	0.00		
24	0.00	1.70	1.05	0.00	2.00	26.80	2.60	1.00	0.00	0.00	0.00	0.00		
25	0.00	1.65	0.95	0.00	1.80	23.60	2.80	0.95	0.00	0.00	0.00	0.00		
26	0.00	1.60	0.90	0.00	1.75	19.65	3.00	0.80	0.00	0.00	0.00	0.00		
27	0.00	1.75	0.70	0.00	1.60	16.50	3.20	0.65	0.00	0.00	0.00	0.00		
28	0.00	1.70	0.35	0.00	1.55	15.10	3.20	0.55	0.00	0.00	0.00	0.00		
29	0.00	1.60	0.13	0.00	1.55	15.45	3.20	0.40	0.00	0.00		0.00		
30	0.00	1.50	0.08	0.00	1.50	16.85	3.20	0.38	0.00	0.00		0.00		
31		1.35		0.00	1.50		3.40		0.00	0.00		0.00		
Total	0.00	17.45	27.04	2.39	28.02	471.85	212.30	68.03	1.29	0.00	0.00	0.00	828.37	CMSDAY
Mean	0.00	0.56	0.90	0.08	0.90	15.73	6.85	2.27	0.04	0.00	0.00	0.00	2.27	CMS
Max	0.00	1.75	1.35	0.35	3.20	32.00	17.90	5.00	0.28	0.00	0.00	0.00	32.00	CMS
Min	0.00	0.00	0.08	0.00	0.00	1.70	2.60	0.38	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	1.51	2.34	0.21	2.42	40.77	18.34	5.88	0.11	0.00	0.00	0.00	71.57	MCM

Momentary Peak 32.00 CMS, at 141.40 m. (MSL.) , at 06.00 Hours , on Sep 22, 2008

Runoff Yield 4.75 Liters/Second/Square KM. Momentary Peak Yield 66.95 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Huai Sang Kot at Ban Nong Yai, Si Sa Ket (M.143)

Lat 14 - 29 - 01 N Long 104 - 39 - 52 E

Location : on left bank at the bridge on road.

Ban Nong Yai **Amphoe** Kantharalak **Changwat** Si Sa Ket

Drainge Area	47 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+164.600 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	on left bank upstream at the abutments of the bridge. **Elevation** +171.124 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 mean of 5 readings
Period of Available Gage Records	1990 to date
Rating Operation	
Period of Rating	1990 to date
Rated by Float	-
Rated by Current Meter	1990 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 30 discharge measurrments made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

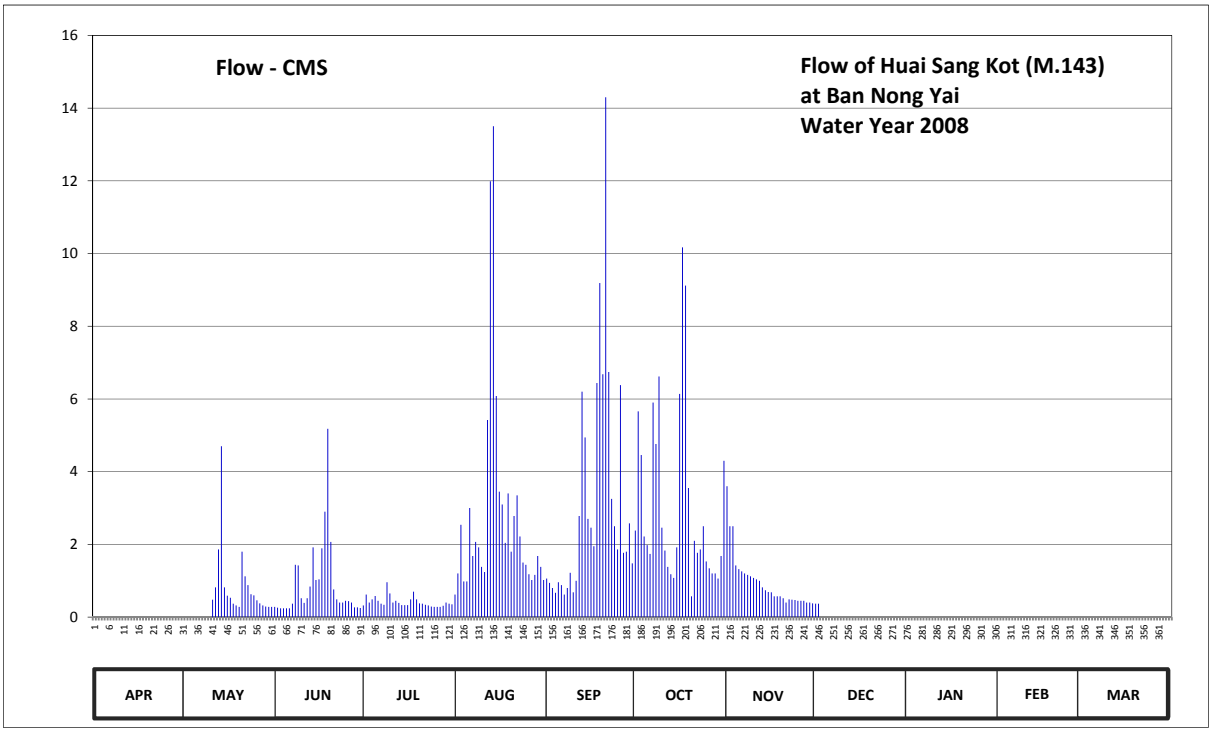
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	165.33	165.32	165.48	165.52	165.82	166.08	166.57	166.84	165.57	165.42	165.32	165.32	
2	165.33	165.32	165.46	165.82	166.15	166.02	167.21	166.60	165.57	165.40	165.32	165.32	
3	165.33	165.33	165.44	165.60	166.61	165.95	167.01	166.60	165.48	165.39	165.32	165.32	
4	165.33	165.33	165.44	165.69	166.04	165.87	166.53	166.26	165.48	165.39	165.32	165.32	
5	165.33	165.33	165.44	165.78	166.04	166.03	166.46	166.21	165.47	165.38	165.32	165.32	
6	165.33	165.34	165.44	165.65	166.72	165.99	166.38	166.18	165.47	165.38	165.32	165.32	
7	165.33	165.33	165.57	165.57	166.36	165.82	167.25	166.15	165.47	165.38	165.32	165.32	
8	165.33	165.33	166.27	165.54	166.49	165.95	167.06	166.13	165.47	165.38	165.32	165.32	
9	165.33	165.33	166.26	166.03	166.44	166.16	167.37	166.11	165.47	165.36	165.32	165.32	
10	165.33	165.33	165.72	165.85	166.24	165.88	166.59	166.09	165.47	165.36	165.32	165.32	
11	165.33	165.68	165.59	165.60	166.17	166.05	166.41	166.07	165.46	165.36	165.31	165.32	
12	165.33	165.96	165.72	165.65	167.17	166.67	166.24	166.05	165.46	165.36	165.31	165.32	
13	165.33	166.42	165.97	165.59	168.11	167.30	166.14	165.96	165.46	165.36	165.31	165.32	
14	165.33	167.05	166.44	165.53	168.30	167.09	166.09	165.92	165.46	165.36	165.31	165.32	
15	165.33	165.96	166.06	165.53	167.28	166.65	166.44	165.89	165.46	165.36	165.31	165.32	
16	165.33	165.79	166.07	165.53	166.81	166.59	167.29	165.88	165.46	165.36	165.31	165.32	
17	165.33	165.73	166.43	165.69	166.74	166.45	167.88	165.77	165.46	165.36	165.45	165.32	
18	165.32	165.57	166.70	165.90	166.48	167.34	167.73	165.77	165.46	165.36	165.42	165.32	
19	165.32	165.52	167.13	165.69	166.80	167.74	166.83	165.77	165.46	165.36	165.33	165.33	
20	165.32	165.48	166.49	165.58	166.40	167.38	165.77	165.72	165.45	165.36	165.32	165.32	
21	165.33	166.40	165.93	165.57	166.67	168.40	166.50	165.60	165.45	165.36	165.32	165.33	
22	165.32	166.11	165.69	165.54	166.79	167.39	166.39	165.69	165.45	165.36	165.32	165.33	
23	165.32	165.99	165.60	165.52	166.53	166.77	166.42	165.68	165.45	165.36	165.32	165.33	
24	165.32	165.83	165.60	165.49	166.30	166.60	166.60	165.67	165.44	165.35	165.32	165.33	
25	165.32	165.80	165.65	165.48	166.27	166.42	166.31	165.65	165.44	165.34	165.32	165.33	
26	165.32	165.66	165.64	165.48	166.14	167.33	166.22	165.65	165.44	165.34	165.32	165.33	
27	165.32	165.58	165.60	165.48	166.06	166.39	166.15	165.65	165.43	165.34	165.32	165.32	
28	165.32	165.52	165.47	165.51	166.13	166.40	166.15	165.60	165.43	165.34	165.32	165.32	
29	165.32	165.49	165.47	165.60	166.36	166.62	166.08	165.60	165.43	165.34		165.32	
30	165.32	165.48	165.45	165.57	166.24	166.29	166.36	165.58	165.42	165.32		165.32	
31		165.48		165.55	166.06		166.98		165.42	165.32		165.32	
Mean	165.33	165.67	165.84	165.62	166.54	166.59	166.63	165.94	165.46	165.36	165.33	165.32	
Max	165.33	167.05	167.13	166.03	168.30	168.40	167.88	166.84	165.57	165.42	165.45	165.33	168.40
Min	165.32	165.32	165.44	165.48	165.82	165.82	165.77	165.58	165.42	165.32	165.31	165.32	165.31

Annual Max Momentary Gage Height 168.50 m. (MSL.) , at 12.00 Hours , on Sep 21, 2008

Zero Gage at Bottom Elevation 164.60 m. (MSL.) , River Bed 165.18 m. (MSL.) ,

Left Bank Elevation 169.55 m. (MSL.) ,

Right Bank Elevation 169.49 m. (MSL.) , Drainage Are 47 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.28	0.32	0.62	1.06	2.38	3.60	0.37	0.00	0.00	0.00		
2	0.00	0.00	0.26	0.62	1.20	0.94	5.66	2.50	0.37	0.00	0.00	0.00		
3	0.00	0.00	0.24	0.40	2.54	0.80	4.46	2.50	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.24	0.49	0.98	0.67	2.22	1.42	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.24	0.58	0.98	0.96	1.98	1.32	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.24	0.45	3.00	0.88	1.74	1.26	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.37	0.37	1.68	0.62	5.90	1.20	0.00	0.00	0.00	0.00		
8	0.00	0.00	1.44	0.34	2.07	0.80	4.76	1.16	0.00	0.00	0.00	0.00		
9	0.00	0.00	1.42	0.96	1.92	1.22	6.62	1.12	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.52	0.65	1.38	0.68	2.46	1.08	0.00	0.00	0.00	0.00		
11	0.00	0.48	0.39	0.40	1.24	1.00	1.83	1.04	0.00	0.00	0.00	0.00		
12	0.00	0.82	0.52	0.45	5.42	2.78	1.38	1.00	0.00	0.00	0.00	0.00		
13	0.00	1.86	0.84	0.39	11.99	6.20	1.18	0.82	0.00	0.00	0.00	0.00		
14	0.00	4.70	1.92	0.33	13.50	4.94	1.08	0.74	0.00	0.00	0.00	0.00		
15	0.00	0.82	1.02	0.33	6.08	2.70	1.92	0.69	0.00	0.00	0.00	0.00		
16	0.00	0.59	1.04	0.33	3.45	2.46	6.14	0.68	0.00	0.00	0.00	0.00		
17	0.00	0.53	1.89	0.49	3.10	1.95	10.17	0.57	0.00	0.00	0.00	0.00		
18	0.00	0.37	2.90	0.70	2.04	6.44	9.12	0.57	0.00	0.00	0.00	0.00		
19	0.00	0.32	5.18	0.49	3.40	9.19	3.55	0.57	0.00	0.00	0.00	0.00		
20	0.00	0.28	2.07	0.38	1.80	6.68	0.57	0.52	0.00	0.00	0.00	0.00		
21	0.00	1.80	0.76	0.37	2.78	14.30	2.10	0.40	0.00	0.00	0.00	0.00		
22	0.00	1.12	0.49	0.34	3.35	6.74	1.77	0.49	0.00	0.00	0.00	0.00		
23	0.00	0.88	0.40	0.32	2.22	3.25	1.86	0.48	0.00	0.00	0.00	0.00		
24	0.00	0.63	0.40	0.29	1.50	2.50	2.50	0.47	0.00	0.00	0.00	0.00		
25	0.00	0.60	0.45	0.28	1.44	1.86	1.53	0.45	0.00	0.00	0.00	0.00		
26	0.00	0.46	0.44	0.28	1.18	6.38	1.34	0.45	0.00	0.00	0.00	0.00		
27	0.00	0.38	0.40	0.28	1.02	1.77	1.20	0.45	0.00	0.00	0.00	0.00		
28	0.00	0.32	0.27	0.31	1.16	1.80	1.20	0.40	0.00	0.00	0.00	0.00		
29	0.00	0.29	0.27	0.40	1.68	2.58	1.06	0.40	0.00	0.00		0.00		
30	0.00	0.28	0.25	0.37	1.38	1.48	1.68	0.38	0.00	0.00		0.00		
31		0.28		0.35	1.02		4.30		0.00	0.00		0.00		
Total	0.00	17.81	27.15	13.06	87.12	95.63	95.66	28.73	0.74	0.00	0.00	0.00	365.90	CMSDAY
Mean	0.00	0.57	0.90	0.42	2.81	3.19	3.09	0.96	0.02	0.00	0.00	0.00	1.00	CMS
Max	0.00	4.70	5.18	0.96	13.50	14.30	10.17	3.60	0.37	0.00	0.00	0.00	14.30	CMS
Min	0.00	0.00	0.24	0.28	0.62	0.62	0.57	0.38	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	1.54	2.35	1.13	7.53	8.26	8.27	2.48	0.06	0.00	0.00	0.00	31.61	MCM

Momentary Peak 15.10 CMS, at 168.50 m. (MSL.) , at 12.00 Hours , on Sep 21, 2008

Runoff Yield 21.33 Liters/Second/Square KM. Momentary Peak Yield 321.28 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Lam Phra Phloeng at Ban Wang Takian Thong, Nakhon Ratchasima (M.145)

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

Location : on right bank at Ban Wang Takian Thong.

	Ban Wang Takian Thong **Amphoe** Pak Chong **Changwat** Nakhon Ratchasima
Drainge 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 mean of 5 readings
Period of Available Gage Records	1990 to date
Rating Operation	
Period of Rating	1990 to date
Rated by Float	-
Rated by Current Meter	1990 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +390.400 m.(MSL.), records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 64 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

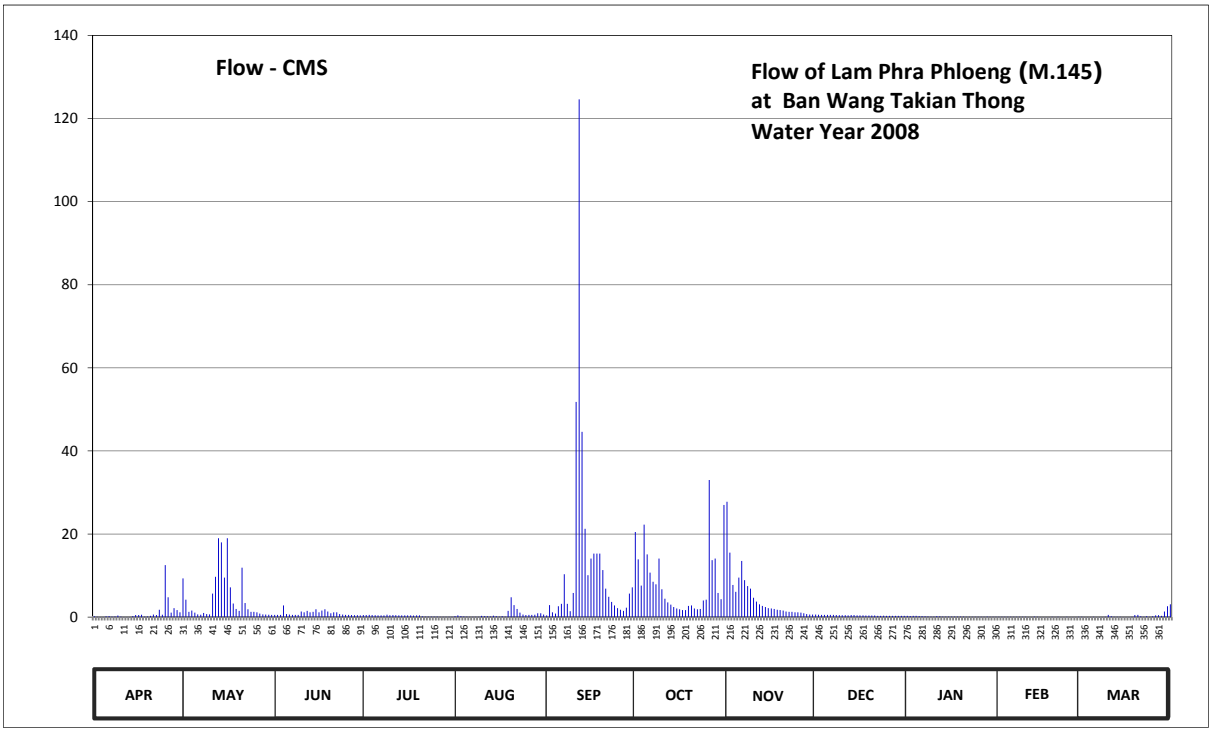
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	386.33	387.24	386.46	386.44	386.35	386.42	387.76	388.05	386.48	386.37	386.25	386.23	
2	386.28	386.89	386.46	386.44	386.41	386.75	387.47	387.55	386.47	386.36	386.24	386.21	
3	386.21	386.57	386.45	386.45	386.34	386.56	387.14	387.15	386.46	386.37	386.24	386.20	
4	386.21	386.61	386.74	386.44	386.32	386.52	387.83	387.04	386.46	386.37	386.24	386.19	
5	386.33	386.55	386.51	386.43	386.30	386.72	387.53	387.25	386.46	386.35	386.24	386.24	
6	386.34	386.50	386.49	386.42	386.28	386.78	387.31	387.45	386.46	386.34	386.23	386.20	
7	386.31	386.47	386.46	386.41	386.27	387.29	387.20	387.22	386.45	386.33	386.23	386.18	
8	386.32	386.54	386.46	386.42	386.27	386.78	387.16	387.13	386.44	386.32	386.23	386.19	
9	386.40	386.51	386.46	386.47	386.29	386.59	387.48	387.09	386.43	386.31	386.27	386.25	
10	386.30	386.50	386.58	386.43	386.37	387.02	387.08	386.93	386.43	386.31	386.23	386.45	
11	386.22	387.01	386.56	386.44	386.34	388.67	386.91	386.84	386.43	386.34	386.22	386.33	
12	386.21	387.26	386.60	386.43	386.33	390.02	386.82	386.77	386.42	386.33	386.22	386.28	
13	386.21	387.70	386.56	386.42	386.32	388.49	386.76	386.73	386.44	386.31	386.30	386.24	
14	386.34	387.66	386.57	386.42	386.39	387.79	386.70	386.70	386.44	386.31	386.25	386.23	
15	386.44	387.25	386.64	386.41	386.34	387.28	386.66	386.67	386.42	386.31	386.22	386.22	
16	386.44	387.70	386.56	386.41	386.31	387.48	386.64	386.66	386.41	386.31	386.21	386.20	
17	386.47	387.11	386.61	386.41	386.34	387.54	386.62	386.65	386.41	386.30	386.18	386.20	
18	386.30	386.79	386.64	386.40	386.30	387.54	386.62	386.63	386.40	386.30	386.18	386.24	
19	386.32	386.65	386.58	386.41	386.60	387.54	386.73	386.62	386.40	386.30	386.23	386.44	
20	386.37	386.60	386.53	386.41	386.94	387.34	386.74	386.61	386.40	386.30	386.19	386.45	
21	386.48	387.37	386.56	386.33	386.75	387.09	386.66	386.58	386.40	386.28	386.23	386.33	
22	386.44	386.80	386.56	386.30	386.65	386.95	386.64	386.57	386.38	386.27	386.22	386.26	
23	386.63	386.64	386.51	386.31	386.55	386.83	386.65	386.57	386.38	386.27	386.20	386.35	
24	386.47	386.57	386.48	386.30	386.49	386.74	386.87	386.56	386.39	386.27	386.24	386.27	
25	387.40	386.57	386.46	386.30	386.44	386.67	386.89	386.56	386.38	386.27	386.19	386.33	
26	386.94	386.56	386.45	386.30	386.45	386.63	388.20	386.55	386.37	386.26	386.19	386.41	
27	386.55	386.52	386.44	386.28	386.45	386.60	387.46	386.53	386.37	386.29	386.21	386.43	
28	386.67	386.50	386.43	386.27	386.47	386.68	387.48	386.51	386.38	386.30	386.29	386.37	
29	386.62	386.48	386.43	386.27	386.53	387.01	387.02	386.49	386.38	386.27		386.58	
30	386.56	386.47	386.42	386.26	386.53	387.11	386.90	386.49	386.38	386.26		386.72	
31		386.46		386.27	386.48		388.02		386.37	386.25		386.77	
Mean	386.44	386.81	386.52	386.38	386.43	387.18	387.10	386.84	386.42	386.31	386.23	386.32	
Max	387.40	387.70	386.74	386.47	386.94	390.02	388.20	388.05	386.48	386.37	386.30	386.77	390.02
Min	386.21	386.46	386.42	386.26	386.27	386.42	386.62	386.49	386.37	386.25	386.18	386.18	386.18

Annual Max Momentary Gage Height 390.82 m. (MSL.) , at 09.00 Hours , on Sep 12, 2008

Zero Gage at Bottom Elevation 382.99 m. (MSL.) , River Bed 385.30 m. (MSL.) ,

Left Bank Elevation 391.01 m. (MSL.) ,

Right Bank Elevation 390.39 m. (MSL.) , Drainage Are 335 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.18	9.30	0.55	0.49	0.24	0.44	20.50	27.75	0.60	0.30	0.07	0.06		
2	0.09	4.21	0.55	0.49	0.41	2.90	13.90	15.50	0.58	0.27	0.06	0.05		
3	0.05	1.25	0.52	0.52	0.21	1.16	7.60	7.75	0.55	0.30	0.06	0.04		
4	0.05	1.59	2.81	0.49	0.16	0.83	22.25	6.10	0.55	0.30	0.06	0.04		
5	0.18	1.08	0.74	0.46	0.10	2.62	15.10	9.50	0.55	0.24	0.06	0.06		
6	0.21	0.66	0.63	0.44	0.09	3.18	10.70	13.50	0.55	0.21	0.06	0.04		
7	0.13	0.58	0.55	0.41	0.08	10.30	8.50	8.90	0.52	0.18	0.06	0.03		
8	0.16	1.00	0.55	0.44	0.08	3.18	7.90	7.45	0.49	0.16	0.06	0.04		
9	0.38	0.74	0.55	0.58	0.09	1.42	14.10	6.85	0.46	0.13	0.08	0.07		
10	0.10	0.66	1.33	0.46	0.30	5.80	6.70	4.66	0.46	0.13	0.06	0.52		
11	0.05	5.65	1.16	0.49	0.21	51.80	4.42	3.74	0.46	0.21	0.05	0.18		
12	0.05	9.70	1.50	0.46	0.18	124.60	3.55	3.09	0.44	0.18	0.05	0.09		
13	0.05	19.00	1.16	0.44	0.16	44.60	2.99	2.71	0.49	0.13	0.10	0.06		
14	0.21	18.00	1.25	0.44	0.35	21.25	2.43	2.43	0.49	0.13	0.07	0.06		
15	0.49	9.50	1.87	0.41	0.21	10.10	2.06	2.15	0.44	0.13	0.05	0.05		
16	0.49	19.00	1.16	0.41	0.13	14.10	1.87	2.06	0.41	0.13	0.05	0.04		
17	0.58	7.15	1.59	0.41	0.21	15.30	1.69	1.97	0.41	0.10	0.03	0.04		
18	0.10	3.27	1.87	0.38	0.10	15.30	1.69	1.78	0.38	0.10	0.03	0.06		
19	0.16	1.97	1.33	0.41	1.50	15.30	2.71	1.69	0.38	0.10	0.06	0.49		
20	0.30	1.50	0.91	0.41	4.78	11.30	2.81	1.59	0.38	0.10	0.04	0.52		
21	0.60	11.90	1.16	0.18	2.90	6.85	2.06	1.33	0.38	0.09	0.06	0.18		
22	0.49	3.37	1.16	0.10	1.97	4.90	1.87	1.25	0.32	0.08	0.05	0.08		
23	1.78	1.87	0.74	0.13	1.08	3.65	1.97	1.25	0.32	0.08	0.04	0.24		
24	0.58	1.25	0.60	0.10	0.63	2.81	4.02	1.16	0.35	0.08	0.06	0.08		
25	12.50	1.25	0.55	0.10	0.49	2.15	4.21	1.16	0.32	0.08	0.04	0.18		
26	4.78	1.16	0.52	0.10	0.52	1.78	33.00	1.08	0.30	0.08	0.04	0.41		
27	1.08	0.83	0.49	0.09	0.52	1.50	13.70	0.91	0.30	0.09	0.05	0.46		
28	2.15	0.66	0.46	0.08	0.58	2.25	14.10	0.74	0.32	0.10	0.09	0.30		
29	1.69	0.60	0.46	0.08	0.91	5.65	5.80	0.63	0.32	0.08		1.33		
30	1.16	0.58	0.44	0.08	0.91	7.15	4.30	0.63	0.32	0.08		2.62		
31		0.55		0.08	0.60		27.00		0.30	0.07		3.09		
Total	30.82	139.83	29.16	10.16	20.70	394.17	265.50	141.31	13.14	4.44	1.59	11.51	1062.33	CMSDAY
Mean	1.03	4.51	0.97	0.33	0.67	13.14	8.56	4.71	0.42	0.14	0.06	0.37	2.91	CMS
Max	12.50	19.00	2.81	0.58	4.78	124.60	33.00	27.75	0.60	0.30	0.10	3.09	124.60	CMS
Min	0.05	0.55	0.44	0.08	0.08	0.44	1.69	0.63	0.30	0.07	0.03	0.03	0.03	CMS
Runoff	2.66	12.08	2.52	0.88	1.79	34.06	22.94	12.21	1.14	0.38	0.14	0.99	91.79	MCM

Momentary Peak 203.60 CMS, at 390.82 m. (MSL.) , at 09.00 Hours , on Sep 12, 2008

Runoff Yield 8.69 Liters/Second/Square KM. Momentary Peak Yield 607.76 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Huai Bon at Ban Phon Thong, Ubon Ratchathani (M.152)

Lat 14 - 27 - 47 N Long 105 - 06 - 19 E

Location : on left bank at the bridge on road.

Ban Phon Thong **Amphoe** Nam Yuen **Changwat** Ubon Ratchathani

Drainge Area	214 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+147.530 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank downstream at the footpath of the bridge. **Elevation** +157.250 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 mean of 5 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Stage-discharge relation defined by 55 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

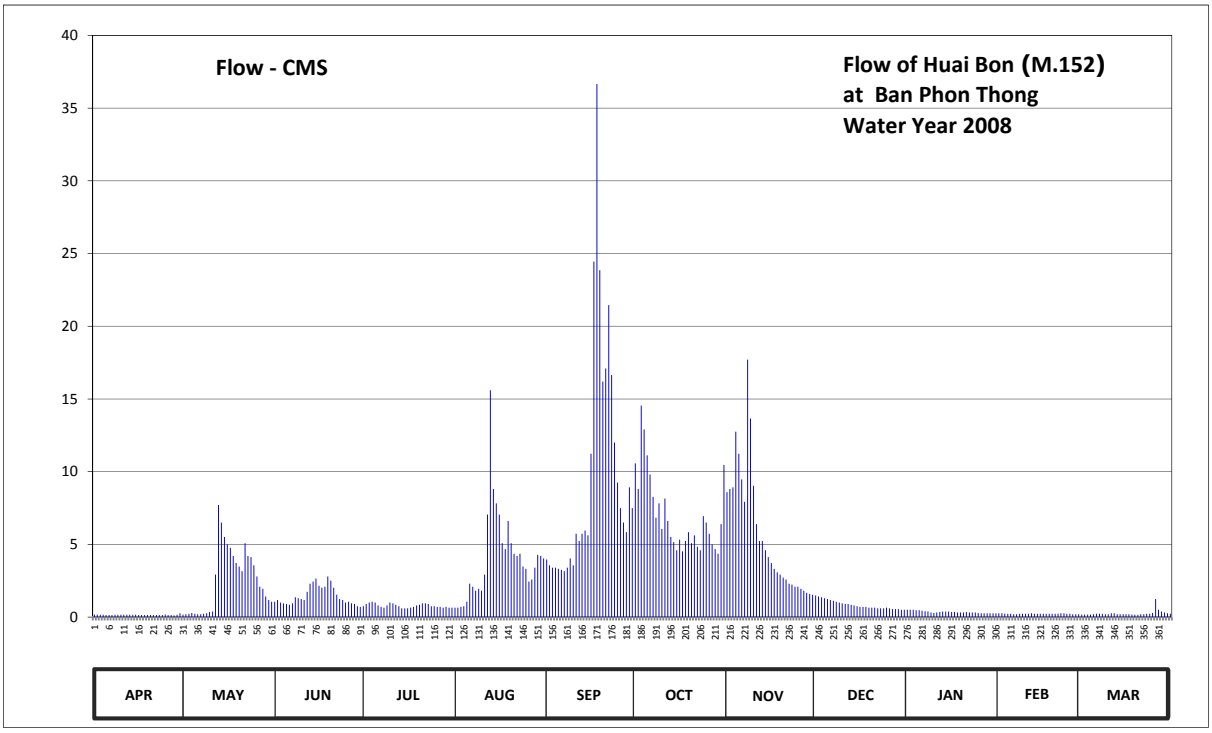
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	148.59	148.59	148.81	148.75	148.73	149.22	149.87	149.69	148.88	148.70	148.62	148.59	
2	148.59	148.60	148.83	148.78	148.73	149.17	149.71	149.71	148.87	148.70	148.62	148.59	
3	148.58	148.61	148.80	148.80	148.74	149.15	150.17	149.72	148.86	148.70	148.61	148.59	
4	148.58	148.63	148.79	148.81	148.75	149.15	150.06	150.05	148.85	148.69	148.61	148.59	
5	148.57	148.61	148.78	148.80	148.81	149.14	149.92	149.93	148.84	148.69	148.61	148.60	
6	148.57	148.60	148.77	148.76	149.00	149.13	149.80	149.77	148.83	148.68	148.60	148.61	
7	148.57	148.60	148.79	148.74	148.97	149.12	149.66	149.63	148.82	148.67	148.60	148.61	
8	148.58	148.61	148.86	148.73	148.93	149.15	149.53	150.38	148.81	148.66	148.61	148.61	
9	148.58	148.62	148.85	148.76	148.95	149.23	149.62	150.11	148.80	148.64	148.61	148.60	
10	148.58	148.65	148.84	148.80	148.93	149.17	149.46	149.73	148.79	148.63	148.61	148.60	
11	148.58	148.66	148.83	148.79	149.09	149.43	149.65	149.49	148.78	148.64	148.61	148.62	
12	148.58	149.09	148.92	148.77	149.55	149.38	149.51	149.38	148.78	148.65	148.62	148.62	
13	148.58	149.61	149.00	148.75	150.24	149.43	149.41	149.38	148.77	148.66	148.61	148.60	
14	148.58	149.50	149.02	148.72	149.71	149.45	149.37	149.30	148.76	148.66	148.61	148.60	
15	148.58	149.41	149.05	148.72	149.62	149.42	149.30	149.24	148.75	148.66	148.61	148.60	
16	148.57	149.35	148.98	148.72	149.55	149.93	149.39	149.19	148.74	148.65	148.61	148.60	
17	148.57	149.32	148.96	148.73	149.36	150.83	149.29	149.14	148.74	148.65	148.61	148.60	
18	148.57	149.25	148.97	148.74	149.31	151.57	149.38	149.11	148.74	148.64	148.61	148.59	
19	148.57	149.19	149.07	148.76	149.51	150.79	149.44	149.09	148.73	148.64	148.61	148.58	
20	148.57	149.16	149.03	148.77	149.36	150.28	149.36	149.06	148.73	148.64	148.61	148.58	
21	148.57	149.12	148.96	148.79	149.27	150.34	149.42	149.04	148.73	148.65	148.61	148.60	
22	148.57	149.36	148.89	148.79	149.25	150.63	149.33	149.00	148.72	148.64	148.62	148.60	
23	148.57	149.25	148.84	148.78	149.27	150.31	149.30	148.99	148.72	148.64	148.62	148.61	
24	148.57	149.24	148.83	148.75	149.16	150.00	149.54	148.97	148.72	148.64	148.61	148.61	
25	148.59	149.17	148.80	148.75	149.14	149.75	149.50	148.97	148.73	148.63	148.61	148.63	
26	148.57	149.07	148.81	148.74	149.02	149.59	149.43	148.95	148.72	148.62	148.60	148.84	
27	148.57	148.97	148.79	148.74	149.04	149.50	149.35	148.93	148.71	148.62	148.60	148.70	
28	148.56	148.95	148.78	148.73	149.15	149.44	149.31	148.91	148.71	148.62	148.60	148.66	
29	148.58	148.87	148.75	148.74	149.26	149.72	149.27	148.90	148.71	148.62		148.64	
30	148.62	148.83	148.74	148.73	149.25	149.59	149.49	148.89	148.70	148.62		148.62	
31		148.81		148.73	149.23		149.86		148.70	148.62		148.61	
Mean	148.58	148.98	148.87	148.76	149.19	149.70	149.54	149.35	148.77	148.65	148.61	148.62	
Max	148.62	149.61	149.07	148.81	150.24	151.57	150.17	150.38	148.88	148.70	148.62	148.84	151.57
Min	148.56	148.59	148.74	148.72	148.73	149.12	149.27	148.89	148.70	148.62	148.60	148.58	148.56

Annual Max Momentary Gage Height 151.67 m. (MSL.) , at 15.00 Hours , on Sep 18, 2008

Zero Gage at Bottom Elevation 147.53 m. (MSL.) , River Bed 141.85 m. (MSL.) ,

Left Bank Elevation 154.01 m. (MSL.) ,

Right Bank Elevation 153.21 m. (MSL.) , Drainage Are 214 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.18	0.18	1.06	0.75	0.65	3.96	10.57	8.59	1.48	0.50	0.26	0.18		
2	0.18	0.20	1.18	0.90	0.65	3.56	8.81	8.81	1.42	0.50	0.26	0.18		
3	0.16	0.23	1.00	1.00	0.70	3.40	14.55	8.92	1.36	0.50	0.23	0.18		
4	0.16	0.29	0.95	1.06	0.75	3.40	12.90	12.75	1.30	0.47	0.23	0.18		
5	0.14	0.23	0.90	1.00	1.06	3.32	11.12	11.23	1.24	0.47	0.23	0.20		
6	0.14	0.20	0.85	0.80	2.30	3.24	9.80	9.47	1.18	0.44	0.20	0.23		
7	0.14	0.20	0.95	0.70	2.09	3.16	8.26	7.93	1.12	0.41	0.20	0.23		
8	0.16	0.23	1.36	0.65	1.81	3.40	6.83	17.70	1.06	0.38	0.23	0.23		
9	0.16	0.26	1.30	0.80	1.95	4.04	7.82	13.65	1.00	0.32	0.23	0.20		
10	0.16	0.35	1.24	1.00	1.81	3.56	6.06	9.03	0.95	0.29	0.23	0.20		
11	0.16	0.38	1.18	0.95	2.93	5.73	8.15	6.39	0.90	0.32	0.23	0.26		
12	0.16	2.93	1.74	0.85	7.05	5.24	6.61	5.24	0.90	0.35	0.26	0.26		
13	0.16	7.71	2.30	0.75	15.60	5.73	5.51	5.24	0.85	0.38	0.23	0.20		
14	0.16	6.50	2.44	0.60	8.81	5.95	5.16	4.60	0.80	0.38	0.23	0.20		
15	0.16	5.51	2.65	0.60	7.82	5.62	4.60	4.12	0.75	0.38	0.23	0.20		
16	0.14	5.00	2.16	0.60	7.05	11.23	5.32	3.72	0.70	0.35	0.23	0.20		
17	0.14	4.76	2.02	0.65	5.08	24.45	4.52	3.32	0.70	0.35	0.23	0.20		
18	0.14	4.20	2.09	0.70	4.68	36.66	5.24	3.08	0.70	0.32	0.23	0.18		
19	0.14	3.72	2.79	0.80	6.61	23.85	5.84	2.93	0.65	0.32	0.23	0.16		
20	0.14	3.48	2.51	0.85	5.08	16.20	5.08	2.72	0.65	0.32	0.23	0.16		
21	0.14	3.16	2.02	0.95	4.36	17.10	5.62	2.58	0.65	0.35	0.23	0.20		
22	0.14	5.08	1.54	0.95	4.20	21.45	4.84	2.30	0.60	0.32	0.26	0.20		
23	0.14	4.20	1.24	0.90	4.36	16.65	4.60	2.23	0.60	0.32	0.26	0.23		
24	0.14	4.12	1.18	0.75	3.48	12.00	6.94	2.09	0.60	0.32	0.23	0.23		
25	0.18	3.56	1.00	0.75	3.32	9.25	6.50	2.09	0.65	0.29	0.23	0.29		
26	0.14	2.79	1.06	0.70	2.44	7.49	5.73	1.95	0.60	0.26	0.20	1.24		
27	0.14	2.09	0.95	0.70	2.58	6.50	5.00	1.81	0.55	0.26	0.20	0.50		
28	0.12	1.95	0.90	0.65	3.40	5.84	4.68	1.67	0.55	0.26	0.20	0.38		
29	0.16	1.42	0.75	0.70	4.28	8.92	4.36	1.60	0.55	0.26		0.32		
30	0.26	1.18	0.70	0.65	4.20	7.49	6.39	1.54	0.50	0.26		0.26		
31		1.06		0.65	4.04		10.46		0.50	0.26		0.23		
Total	4.64	77.17	44.01	24.36	125.14	288.39	217.87	169.30	26.06	10.91	6.44	8.11	1002.40	CMSDAY
Mean	0.15	2.49	1.47	0.79	4.04	9.61	7.03	5.64	0.84	0.35	0.23	0.26	2.75	CMS
Max	0.26	7.71	2.79	1.06	15.60	36.66	14.55	17.70	1.48	0.50	0.26	1.24	36.66	CMS
Min	0.12	0.18	0.70	0.60	0.65	3.16	4.36	1.54	0.50	0.26	0.20	0.16	0.12	CMS
Runoff	0.40	6.67	3.80	2.10	10.81	24.92	18.82	14.63	2.25	0.94	0.56	0.70	86.61	MCM

Momentary Peak 38.46 CMS, at 151.67 m. (MSL.) , at 15.00 Hours , on Sep 18, 2008

Runoff Yield 12.83 Liters/Second/Square KM. Momentary Peak Yield 179.72 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Lam Dom Yai at Ban Kut Chiang Mun, Ubon Ratchathani (M.153)

Lat 14 - 26 - 41 N Long 105 - 07 - 30 E

Location : on right bank at the bridge on road.

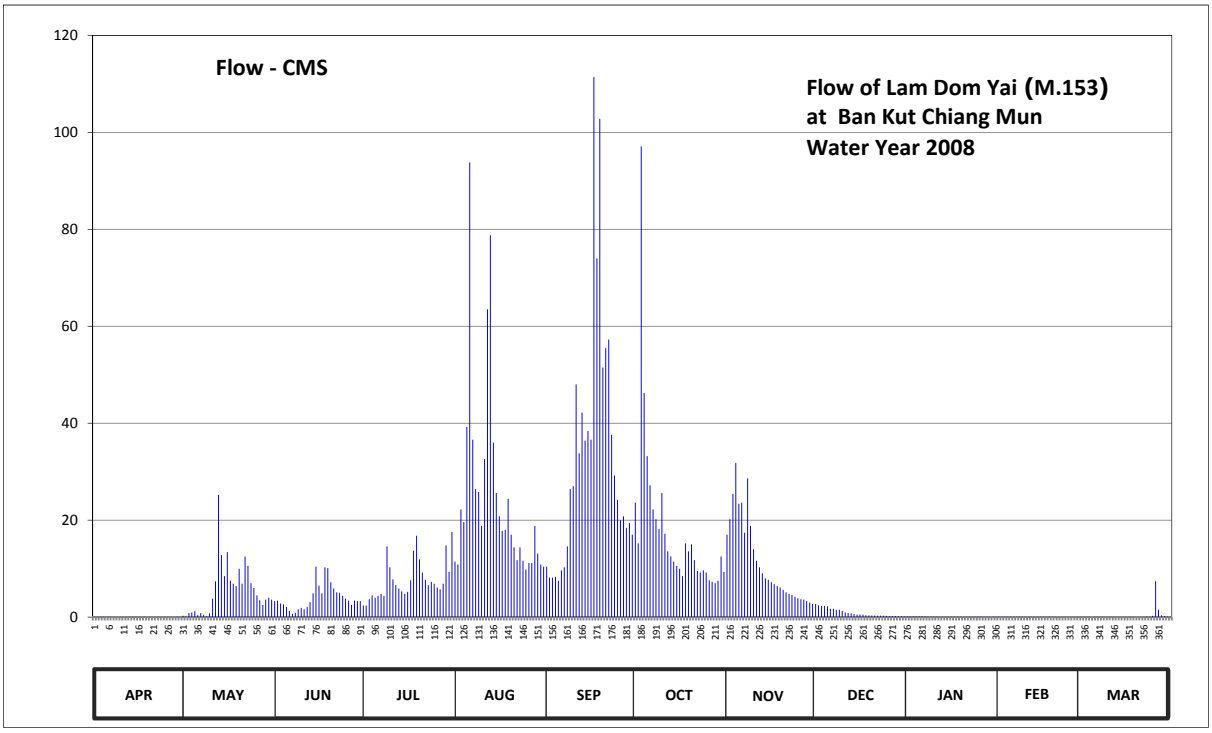
Ban Kut Chiang Mun **Amphoe** Nam Yuen **Changwat** Ubon Ratchathani

Drainge Area	373 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+144.270 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank downstream at the footpath of the bridge. **Elevation** +155.420 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 mean of 5 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records very good. Stage-discharge relation defined by 57 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.90	145.07	145.43	145.34	146.13	146.06	146.78	146.45	145.37	145.02	144.90	144.84	
2	144.89	145.02	145.44	145.34	146.09	145.91	146.36	146.61	145.34	145.02	144.90	144.84	
3	144.88	145.17	145.38	145.47	146.71	145.91	149.67	146.87	145.33	145.02	144.90	144.84	
4	144.87	145.19	145.36	145.55	146.58	145.92	147.89	147.19	145.33	145.02	144.90	144.84	
5	144.86	145.23	145.31	145.50	147.56	145.85	147.26	146.77	145.32	145.02	144.90	144.84	
6	144.87	145.10	145.23	145.54	149.56	146.01	146.96	146.78	145.27	145.02	144.90	144.84	
7	144.86	145.17	145.15	145.58	147.43	146.05	146.71	146.47	145.27	145.01	144.90	144.84	
8	144.86	145.11	145.18	145.54	146.92	146.33	146.61	147.03	145.25	145.00	144.89	144.84	
9	144.86	145.03	145.26	146.33	146.89	146.92	146.51	146.54	145.25	144.99	144.89	144.84	
10	144.86	145.16	145.29	146.05	146.54	146.95	146.88	146.30	145.23	144.97	144.88	144.83	
11	144.86	145.48	145.26	145.88	147.23	147.96	146.46	146.14	145.19	144.97	144.88	144.83	
12	144.86	145.84	145.31	145.76	148.55	147.29	146.27	146.05	145.17	144.96	144.88	144.83	
13	144.87	146.86	145.41	145.69	149.06	147.71	146.20	145.97	145.16	144.96	144.88	144.83	
14	144.87	146.22	145.59	145.63	147.40	147.42	146.13	145.90	145.14	144.96	144.88	144.83	
15	144.86	145.93	146.06	145.58	146.88	147.52	146.07	145.87	145.12	144.95	144.87	144.83	
16	144.86	146.26	145.75	145.62	146.64	147.43	146.03	145.82	145.12	144.95	144.87	144.83	
17	144.86	145.85	145.59	145.86	146.49	149.99	145.93	145.78	145.12	144.94	144.87	144.83	
18	144.86	145.79	146.05	146.28	146.50	148.90	146.36	145.74	145.10	144.93	144.87	144.83	
19	144.86	145.74	146.04	146.44	146.82	149.82	146.27	145.71	145.09	144.93	144.87	144.64	
20	144.85	146.03	145.82	146.16	146.45	148.10	146.35	145.66	145.08	144.93	144.86	144.83	
21	144.84	145.79	145.69	145.98	146.32	148.26	146.15	145.61	145.08	144.93	144.86	144.83	
22	144.84	146.20	145.61	145.87	146.15	148.33	146.00	145.58	145.07	144.92	144.86	144.84	
23	144.84	146.07	145.60	145.76	146.32	147.48	145.98	145.56	145.07	144.92	144.86	144.98	
24	144.84	145.80	145.54	145.83	146.14	147.06	146.01	145.52	145.06	144.92	144.86	144.93	
25	144.84	145.70	145.48	145.79	146.02	146.81	145.98	145.49	145.05	144.92	144.86	145.05	
26	144.84	145.55	145.44	145.71	146.11	146.60	145.86	145.47	145.04	144.92	144.86	145.84	
27	144.84	145.45	145.35	145.67	146.11	146.64	145.83	145.46	145.04	144.91	144.85	145.25	
28	144.85	145.35	145.44	145.79	146.54	146.52	145.80	145.43	145.04	144.91	144.85	145.09	
29	144.88	145.46	145.43	146.34	146.24	146.57	145.85	145.40	145.03	144.91		145.03	
30	144.93	145.50	145.43	145.99	146.09	146.45	146.20	145.37	145.03	144.91		144.98	
31		145.46		146.48	146.06		145.99		145.02	144.90		144.94	
Mean	144.86	145.60	145.50	145.82	146.79	147.16	146.43	146.02	145.15	144.96	144.88	144.91	
Max	144.93	146.86	146.06	146.48	149.56	149.99	149.67	147.19	145.37	145.02	144.90	145.84	149.99
Min	144.84	145.02	145.15	145.34	146.02	145.85	145.80	145.37	145.02	144.90	144.85	144.64	144.64

Annual Max Momentary Gage Height	150.37	m. (MSL.) ,	at 09.00 Hours , on Sep 17, 2008		
Zero Gage at Bottom Elevation	144.27	m. (MSL.) ,	River Bed	144.73	m. (MSL.)
Left Bank Elevation	150.83	m. (MSL.) ,			
Right Bank Elevation	150.43	m. (MSL.) ,	Drainage Are	373	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.06	0.31	3.30	2.40	11.45	10.40	23.60	17.00	2.70	0.16	0.06	0.04		
2	0.06	0.16	3.40	2.40	10.85	8.15	15.20	20.20	2.40	0.16	0.06	0.04		
3	0.05	0.82	2.80	3.70	22.20	8.15	97.10	25.40	2.30	0.16	0.06	0.04		
4	0.05	0.94	2.60	4.50	19.60	8.30	46.25	31.80	2.30	0.16	0.06	0.04		
5	0.04	1.30	2.10	4.00	39.20	7.50	33.20	23.40	2.20	0.16	0.06	0.04		
6	0.05	0.40	1.30	4.40	93.80	9.65	27.20	23.60	1.70	0.16	0.06	0.04		
7	0.04	0.82	0.70	4.80	36.60	10.25	22.20	17.40	1.70	0.13	0.06	0.04		
8	0.04	0.46	0.88	4.40	26.40	14.60	20.20	28.60	1.50	0.10	0.06	0.04		
9	0.04	0.19	1.60	14.60	25.80	26.40	18.20	18.80	1.50	0.10	0.06	0.04		
10	0.04	0.76	1.90	10.25	18.80	27.00	25.60	14.00	1.30	0.09	0.05	0.03		
11	0.04	3.80	1.60	7.80	32.60	48.00	17.20	11.60	0.94	0.09	0.05	0.03		
12	0.04	7.40	2.10	6.60	63.50	33.80	13.55	10.25	0.82	0.08	0.05	0.03		
13	0.05	25.20	3.10	5.90	78.80	42.20	12.50	9.05	0.76	0.08	0.05	0.03		
14	0.05	12.80	4.90	5.30	36.00	36.40	11.45	8.00	0.64	0.08	0.05	0.03		
15	0.04	8.45	10.40	4.80	25.60	38.40	10.55	7.70	0.52	0.08	0.05	0.03		
16	0.04	13.40	6.50	5.20	20.80	36.60	9.95	7.20	0.52	0.08	0.05	0.03		
17	0.04	7.50	4.90	7.60	17.80	111.40	8.45	6.80	0.52	0.08	0.05	0.03		
18	0.04	6.90	10.25	13.70	18.00	74.00	15.20	6.40	0.40	0.07	0.05	0.03		
19	0.04	6.40	10.10	16.80	24.40	102.80	13.55	6.10	0.37	0.07	0.05	0.00		
20	0.04	9.95	7.20	11.90	17.00	51.50	15.00	5.60	0.34	0.07	0.04	0.03		
21	0.04	6.90	5.90	9.20	14.40	55.50	11.75	5.10	0.34	0.07	0.04	0.03		
22	0.04	12.50	5.10	7.70	11.75	57.25	9.50	4.80	0.31	0.07	0.04	0.04		
23	0.04	10.55	5.00	6.60	14.40	37.60	9.20	4.60	0.31	0.07	0.04	0.09		
24	0.04	7.00	4.40	7.30	11.60	29.20	9.65	4.20	0.28	0.07	0.04	0.07		
25	0.04	6.00	3.80	6.90	9.80	24.20	9.20	3.90	0.25	0.07	0.04	0.25		
26	0.04	4.50	3.40	6.10	11.15	20.00	7.60	3.70	0.22	0.07	0.04	7.40		
27	0.04	3.50	2.50	5.70	11.15	20.80	7.30	3.60	0.22	0.06	0.04	1.50		
28	0.04	2.50	3.40	6.90	18.80	18.40	7.00	3.30	0.22	0.06	0.04	0.37		
29	0.05	3.60	3.30	14.80	13.10	19.40	7.50	3.00	0.19	0.06		0.19		
30	0.07	4.00	3.30	9.35	10.85	17.00	12.50	2.70	0.19	0.06		0.09		
31		3.60		17.60	10.40		9.35		0.16	0.06		0.08		
Total	1.33	172.61	121.73	239.20	776.60	1004.85	556.70	337.80	28.12	2.88	1.40	10.77	3253.99	CMSDAY
Mean	0.04	5.57	4.06	7.72	25.05	33.49	17.96	11.26	0.91	0.09	0.05	0.35	8.92	CMS
Max	0.07	25.20	10.40	17.60	93.80	111.40	97.10	31.80	2.70	0.16	0.06	7.40	111.40	CMS
Min	0.04	0.16	0.70	2.40	9.80	7.50	7.00	2.70	0.16	0.06	0.04	0.00	0.00	CMS
Runoff	0.11	14.91	10.52	20.67	67.10	86.82	48.10	29.19	2.43	0.25	0.12	0.93	281.14	MCM

Momentary Peak 150.60 CMS, at 150.37 m. (MSL.) , at 09.00 Hours , on Sep 17, 2008

Runoff Yield 23.90 Liters/Second/Square KM. Momentary Peak Yield 403.75 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Huai Luang at Ban Na Chaluai, Ubon Ratchathani (M.154)

Lat 14 - 27 - 06 N Long 105 - 11 - 34 E

Location : on left bank at the bridge on road.

Ban Na Chaluai **Amphoe** Na Chaluai **Changwat** Ubon Ratchathani

Drainge Area	210 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+151.040 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank downstream at the footpath of the bridge. **Elevation** +162.170 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 mean of 3 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +156.600 m.(MSL.), records are channel flow only.
General Description	Records very good. Stage-discharge relation defined by 51 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

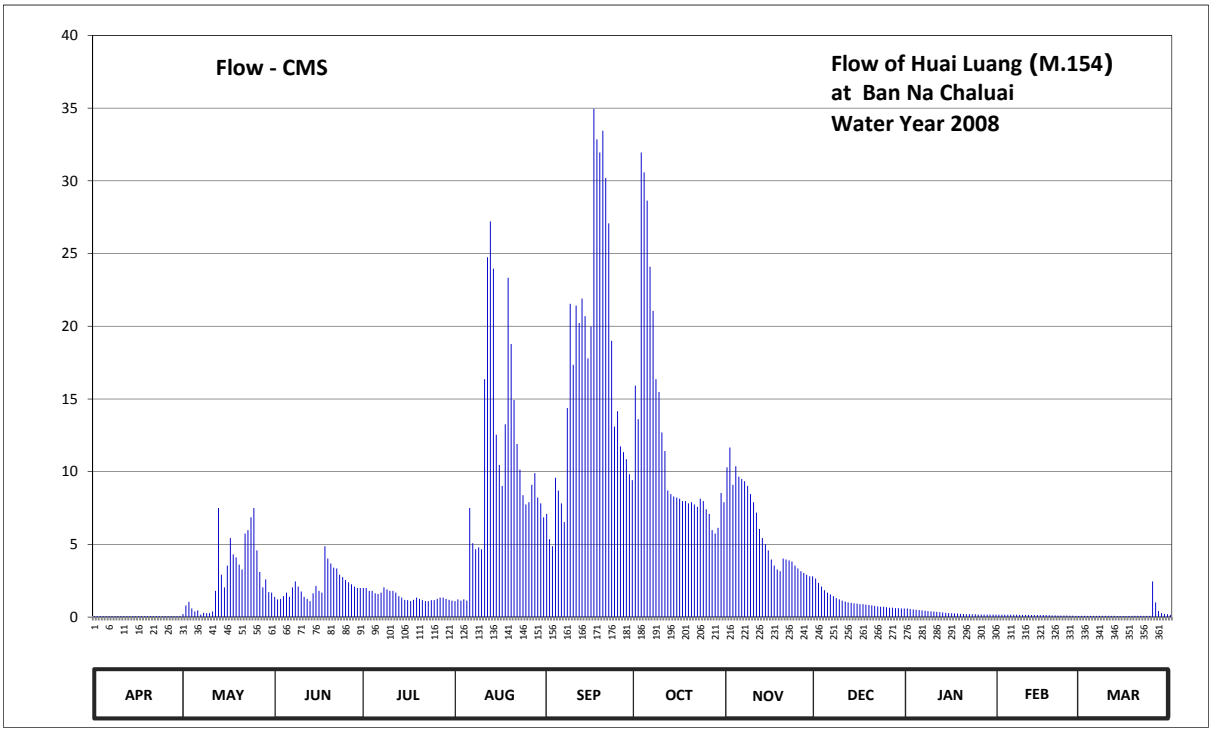
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	152.85	153.03	153.50	153.64	153.40	154.40	155.42	154.80	153.77	153.23	152.99	152.89	
2	152.85	153.30	153.44	153.64	153.44	154.18	155.21	154.97	153.71	153.22	152.99	152.89	
3	152.85	153.38	153.45	153.60	153.41	154.11	156.73	154.65	153.66	153.21	152.99	152.89	
4	152.85	153.23	153.51	153.60	153.44	154.71	156.63	154.81	153.61	153.20	152.98	152.89	
5	152.86	153.15	153.57	153.56	153.41	154.60	156.48	154.72	153.57	153.19	152.98	152.89	
6	152.86	153.18	153.50	153.55	154.45	154.49	156.13	154.70	153.54	153.18	152.98	152.89	
7	152.86	153.00	153.65	153.57	154.14	154.33	155.88	154.68	153.51	153.17	152.98	152.88	
8	152.85	153.10	153.73	153.65	154.08	155.28	155.46	154.64	153.47	153.16	152.97	152.88	
9	152.85	153.08	153.66	153.62	154.10	155.92	155.38	154.57	153.44	153.15	152.97	152.88	
10	152.85	153.08	153.59	153.60	154.08	155.55	155.10	154.50	153.41	153.14	152.97	152.88	
11	152.85	153.14	153.50	153.60	155.46	155.91	154.94	154.41	153.39	153.13	152.97	152.88	
12	152.85	153.60	153.45	153.57	156.18	155.81	154.60	154.27	153.37	153.12	152.96	152.88	
13	152.85	154.45	153.40	153.51	156.37	155.95	154.57	154.19	153.36	153.11	152.96	152.87	
14	152.85	153.82	153.56	153.48	156.12	155.85	154.55	154.13	153.35	153.10	152.96	152.87	
15	152.85	153.65	153.67	153.43	155.08	155.59	154.54	154.07	153.34	153.08	152.95	152.87	
16	152.85	153.92	153.60	153.42	154.82	155.79	154.53	153.98	153.33	153.07	152.95	152.87	
17	152.85	154.19	153.57	153.40	154.64	156.93	154.51	153.92	153.33	153.06	152.95	152.87	
18	152.85	154.03	154.11	153.43	155.17	156.79	154.51	153.88	153.32	153.05	152.94	152.88	
19	152.85	154.00	153.99	153.48	156.07	156.73	154.49	153.86	153.31	153.04	152.93	152.88	
20	152.85	153.93	153.94	153.45	155.68	156.83	154.50	153.99	153.30	153.03	152.93	152.88	
21	152.85	153.88	153.90	153.42	155.33	156.60	154.48	153.98	153.29	153.02	152.92	152.88	
22	152.85	154.23	153.89	153.40	155.00	156.36	154.46	153.97	153.28	153.02	152.92	152.88	
23	152.85	154.26	153.82	153.40	154.78	155.70	154.53	153.96	153.27	153.02	152.91	152.88	
24	152.84	154.37	153.79	153.42	154.56	155.15	154.51	153.92	153.27	153.02	152.91	152.89	
25	152.84	154.45	153.75	153.42	154.48	155.26	154.44	153.89	153.26	153.01	152.90	153.73	
26	152.84	154.07	153.72	153.45	154.50	154.98	154.40	153.86	153.25	153.01	152.90	153.37	
27	152.85	153.85	153.69	153.48	154.65	154.93	154.26	153.84	153.25	153.01	152.89	153.16	
28	152.85	153.65	153.66	153.48	154.75	154.87	154.23	153.82	153.24	153.00	152.89	153.08	
29	152.85	153.76	153.64	153.45	154.54	154.74	154.28	153.80	153.24	153.00		153.04	
30	152.85	153.58	153.64	153.43	154.49	154.69	154.58	153.80	153.23	153.00		153.02	
31		153.57		153.41	154.37		154.50		153.23	153.00		152.97	
Mean	152.85	153.68	153.66	153.50	154.68	155.43	154.93	154.22	153.38	153.09	152.95	152.95	
Max	152.86	154.45	154.11	153.65	156.37	156.93	156.73	154.97	153.77	153.23	152.99	153.73	156.93
Min	152.84	153.00	153.40	153.40	153.40	154.11	154.23	153.80	153.23	153.00	152.89	152.87	152.84

Annual Max Momentary Gage Height 157.06 m. (MSL.) , at 06.00 Hours , on Sep 17, 2008

Zero Gage at Bottom Elevation 151.04 m. (MSL.) , River Bed 151.63 m. (MSL.)

Left Bank Elevation 158.03 m. (MSL.) ,

Right Bank Elevation 156.59 m. (MSL.) , Drainage Are 210 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.07	0.21	1.40	2.00	1.10	7.10	15.92	10.30	2.65	0.59	0.16	0.09		
2	0.07	0.80	1.22	2.00	1.22	5.36	13.61	11.66	2.35	0.56	0.16	0.09		
3	0.07	1.04	1.25	1.80	1.13	4.87	31.95	9.10	2.10	0.53	0.16	0.09		
4	0.07	0.59	1.44	1.80	1.22	9.58	30.59	10.38	1.85	0.50	0.16	0.09		
5	0.07	0.40	1.68	1.64	1.13	8.70	28.64	9.66	1.68	0.48	0.16	0.09		
6	0.07	0.46	1.40	1.60	7.50	7.82	24.09	9.50	1.56	0.46	0.16	0.09		
7	0.07	0.17	2.05	1.68	5.08	6.54	21.06	9.34	1.44	0.44	0.16	0.09		
8	0.07	0.30	2.45	2.05	4.66	14.38	16.36	9.02	1.31	0.42	0.15	0.09		
9	0.07	0.27	2.10	1.90	4.80	21.54	15.48	8.46	1.22	0.40	0.15	0.09		
10	0.07	0.27	1.76	1.80	4.66	17.35	12.70	7.90	1.13	0.38	0.15	0.09		
11	0.07	0.38	1.40	1.80	16.36	21.42	11.42	7.18	1.07	0.36	0.15	0.09		
12	0.07	1.80	1.25	1.68	24.74	20.22	8.70	6.06	1.01	0.34	0.14	0.09		
13	0.07	7.50	1.10	1.44	27.21	21.90	8.46	5.43	0.98	0.32	0.14	0.08		
14	0.07	2.92	1.64	1.34	23.96	20.70	8.30	5.01	0.95	0.30	0.14	0.08		
15	0.07	2.05	2.15	1.19	12.54	17.79	8.22	4.59	0.92	0.27	0.14	0.08		
16	0.07	3.54	1.80	1.16	10.46	19.99	8.14	3.96	0.89	0.26	0.14	0.08		
17	0.07	5.43	1.68	1.10	9.02	34.95	7.98	3.54	0.89	0.25	0.14	0.08		
18	0.07	4.31	4.87	1.19	13.26	32.85	7.98	3.28	0.86	0.24	0.13	0.09		
19	0.07	4.10	4.03	1.34	23.34	31.95	7.82	3.16	0.83	0.22	0.12	0.09		
20	0.07	3.61	3.68	1.25	18.78	33.45	7.90	4.03	0.80	0.21	0.12	0.09		
21	0.07	3.28	3.40	1.16	14.93	30.20	7.74	3.96	0.77	0.20	0.11	0.09		
22	0.07	5.74	3.34	1.10	11.90	27.08	7.58	3.89	0.74	0.20	0.11	0.09		
23	0.07	5.98	2.92	1.10	10.14	19.00	8.14	3.82	0.71	0.20	0.11	0.09		
24	0.06	6.86	2.75	1.16	8.38	13.10	7.98	3.54	0.71	0.20	0.11	0.09		
25	0.06	7.50	2.55	1.16	7.74	14.16	7.42	3.34	0.68	0.18	0.10	2.45		
26	0.06	4.59	2.40	1.25	7.90	11.74	7.10	3.16	0.65	0.18	0.10	1.01		
27	0.07	3.10	2.25	1.34	9.10	11.34	5.98	3.04	0.65	0.18	0.09	0.42		
28	0.07	2.05	2.10	1.34	9.90	10.86	5.74	2.92	0.62	0.17	0.09	0.27		
29	0.07	2.60	2.00	1.25	8.22	9.82	6.14	2.80	0.62	0.17		0.22		
30	0.07	1.72	2.00	1.19	7.82	9.42	8.54	2.80	0.59	0.17		0.20		
31		1.68		1.13	6.86		7.90		0.59	0.17		0.15		
Total	2.07	85.25	66.06	44.94	315.06	515.18	375.58	174.83	33.82	9.55	3.75	6.83	1632.92	CMSDAY
Mean	0.07	2.75	2.20	1.45	10.16	17.17	12.12	5.83	1.09	0.31	0.13	0.22	4.47	CMS
Max	0.07	7.50	4.87	2.05	27.21	34.95	31.95	11.66	2.65	0.59	0.16	2.45	34.95	CMS
Min	0.06	0.17	1.10	1.10	1.10	4.87	5.74	2.80	0.59	0.17	0.09	0.08	0.06	CMS
Runoff	0.18	7.37	5.71	3.88	27.22	44.51	32.45	15.11	2.92	0.83	0.32	0.59	141.08	MCM

Momentary Peak 36.90 CMS, at 157.06 m. (MSL.) , at 06.00 Hours , on Sep 17, 2008

Runoff Yield 21.30 Liters/Second/Square KM. Momentary Peak Yield 175.71 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Huai La - ong at Ban Na Phu, Amnart Charoen (M.155)

Lat 16 - 00 - 15 N Long 104 - 38 - 39 E

Location : on left bank at the bridge on road.

	Ban Na Phu	**Amphoe** Mueang	**Changwat** Amnart Charoen
Drainge Area	219 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+136.185 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank upstream side at the footpath of the bridge.	**Elevation** +145.730 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 mean of 5 readings		
Period of Available Gage Records	1997 to date		
Rating Operation			
Period of Rating	1997 to date		
Rated by Float	-		
Rated by Current Meter	1997 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. The weir situated about 1.5 kilometers downstream from the gage site. Stage-discharge relation defined by 19 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

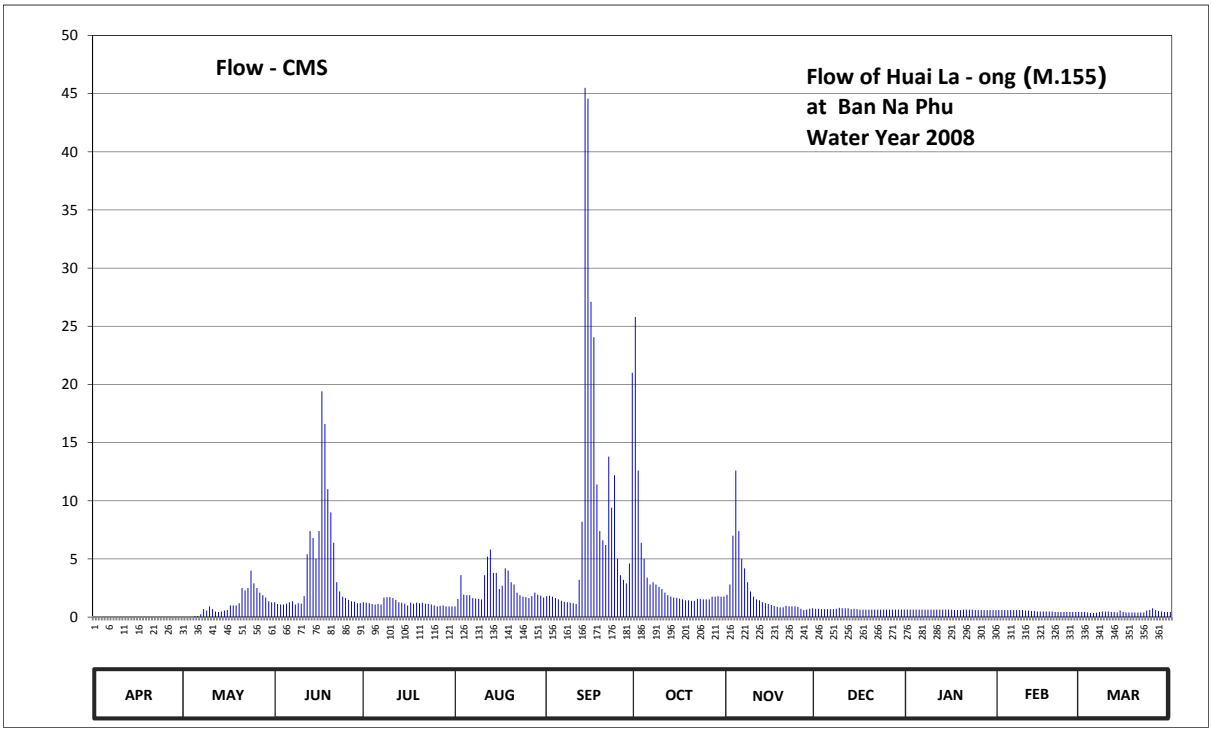
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	136.73	136.64	137.02	137.02	136.93	137.15	137.96	137.18	136.88	136.86	136.85	136.81	
2	136.74	136.62	136.98	137.01	137.09	137.16	137.64	137.28	136.88	136.86	136.85	136.81	
3	136.74	136.60	136.97	137.00	137.33	137.14	137.47	137.50	136.87	136.86	136.85	136.80	
4	136.81	136.59	136.97	136.98	137.18	137.11	137.40	137.64	136.87	136.86	136.85	136.78	
5	136.88	136.64	136.99	136.97	137.17	137.08	137.32	137.51	136.87	136.86	136.85	136.78	
6	136.90	136.65	137.02	136.98	137.17	137.05	137.28	137.40	136.87	136.86	136.85	136.79	
7	136.88	136.72	137.04	136.97	137.11	137.03	137.30	137.36	136.87	136.86	136.85	136.81	
8	136.87	136.87	136.97	137.12	137.10	137.02	137.28	137.30	136.88	136.86	136.85	136.82	
9	136.86	136.84	137.00	137.13	137.09	137.01	137.26	137.22	136.90	136.86	136.85	136.82	
10	136.86	136.93	136.99	137.13	137.08	137.00	137.24	137.14	136.89	136.86	136.84	136.82	
11	136.85	136.87	137.15	137.11	137.33	136.98	137.21	137.08	136.89	136.86	136.84	136.81	
12	136.85	136.82	137.42	137.07	137.41	137.31	137.17	137.06	136.89	136.86	136.83	136.81	
13	136.86	136.81	137.51	137.02	137.44	137.53	137.14	137.02	136.87	136.86	136.83	136.80	
14	136.88	136.82	137.49	137.01	137.34	138.41	137.12	137.00	136.88	136.86	136.82	136.84	
15	136.90	136.84	137.40	136.99	137.34	138.39	137.11	136.98	136.87	136.86	136.82	136.81	
16	136.91	136.85	137.51	136.95	137.24	137.99	137.10	136.96	136.86	136.86	136.82	136.80	
17	136.91	136.95	137.81	137.01	137.27	137.92	137.08	136.94	136.86	136.85	136.82	136.80	
18	136.91	136.95	137.74	136.99	137.36	137.61	137.06	136.92	136.86	136.85	136.82	136.80	
19	136.90	136.95	137.60	137.01	137.35	137.51	137.06	136.91	136.86	136.85	136.82	136.80	
20	136.90	137.00	137.55	137.00	137.30	137.48	137.05	136.91	136.86	136.86	136.81	136.80	
21	136.89	137.25	137.47	137.01	137.28	137.46	137.05	136.94	136.86	136.86	136.81	136.80	
22	136.89	137.23	137.30	136.99	137.21	137.67	137.09	136.93	136.86	136.86	136.81	136.80	
23	136.85	137.25	137.22	136.98	137.17	137.56	137.09	136.93	136.86	136.86	136.81	136.84	
24	136.81	137.35	137.14	136.97	137.14	137.63	137.08	136.93	136.86	136.85	136.81	136.85	
25	136.80	137.29	137.11	136.95	137.13	137.40	137.08	136.92	136.86	136.85	136.81	136.89	
26	136.79	137.25	137.07	136.93	137.11	137.33	137.08	136.88	136.86	136.85	136.81	136.85	
27	136.76	137.21	137.04	136.94	137.15	137.31	137.14	136.85	136.86	136.85	136.81	136.83	
28	136.73	137.17	137.03	136.95	137.21	137.29	137.14	136.86	136.86	136.85	136.81	136.82	
29	136.70	137.12	137.00	136.93	137.18	137.38	137.15	136.88	136.86	136.85		136.81	
30	136.68	137.04	137.00	136.93	137.16	137.85	137.14	136.89	136.86	136.85		136.81	
31		137.02		136.93	137.12		137.14		136.86	136.85		136.81	
Mean	136.83	136.94	137.22	137.00	137.21	137.43	137.21	137.08	136.87	136.86	136.83	136.81	
Max	136.91	137.35	137.81	137.13	137.44	138.41	137.96	137.64	136.90	136.86	136.85	136.89	138.41
Min	136.68	136.59	136.97	136.93	136.93	136.98	137.05	136.85	136.86	136.85	136.81	136.78	136.59

Annual Max Momentary Gage Height 138.61 m. (MSL.) , at 18.00 Hours , on Sep 14, 2008

Zero Gage at Bottom Elevation 136.18 m. (MSL.) , River Bed 135.70 m. (MSL.) ,

Left Bank Elevation 141.65 m. (MSL.) ,

Right Bank Elevation 142.42 m. (MSL.) , Drainage Are 219 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	1.28	1.28	0.92	1.80	25.80	1.92	0.72	0.64	0.60	0.44		
2	0.00	0.00	1.12	1.24	1.56	1.84	12.60	2.80	0.72	0.64	0.60	0.44		
3	0.00	0.00	1.08	1.20	3.60	1.76	6.40	7.00	0.68	0.64	0.60	0.40		
4	0.00	0.00	1.08	1.12	1.92	1.64	5.00	12.60	0.68	0.64	0.60	0.36		
5	0.00	0.08	1.16	1.08	1.88	1.52	3.40	7.40	0.68	0.64	0.60	0.36		
6	0.00	0.10	1.28	1.12	1.88	1.40	2.80	5.00	0.68	0.64	0.60	0.38		
7	0.00	0.24	1.36	1.08	1.64	1.32	3.00	4.20	0.68	0.64	0.60	0.44		
8	0.00	0.68	1.08	1.68	1.60	1.28	2.80	3.00	0.72	0.64	0.60	0.48		
9	0.00	0.56	1.20	1.72	1.56	1.24	2.60	2.20	0.80	0.64	0.60	0.48		
10	0.00	0.92	1.16	1.72	1.52	1.20	2.40	1.76	0.76	0.64	0.56	0.48		
11	0.00	0.68	1.80	1.64	3.60	1.12	2.10	1.52	0.76	0.64	0.56	0.44		
12	0.00	0.48	5.40	1.48	5.20	3.20	1.88	1.44	0.76	0.64	0.52	0.44		
13	0.00	0.44	7.40	1.28	5.80	8.20	1.76	1.28	0.68	0.64	0.52	0.40		
14	0.00	0.48	6.80	1.24	3.80	45.50	1.68	1.20	0.72	0.64	0.48	0.56		
15	0.00	0.56	5.00	1.16	3.80	44.56	1.64	1.12	0.68	0.64	0.48	0.44		
16	0.00	0.60	7.40	1.00	2.40	27.11	1.60	1.04	0.64	0.64	0.48	0.40		
17	0.00	1.00	19.40	1.24	2.70	24.05	1.52	0.96	0.64	0.60	0.48	0.40		
18	0.00	1.00	16.60	1.16	4.20	11.40	1.44	0.88	0.64	0.60	0.48	0.40		
19	0.00	1.00	11.00	1.24	4.00	7.40	1.44	0.84	0.64	0.60	0.48	0.40		
20	0.00	1.20	9.00	1.20	3.00	6.60	1.40	0.84	0.64	0.64	0.44	0.40		
21	0.00	2.50	6.40	1.24	2.80	6.20	1.40	0.96	0.64	0.64	0.44	0.40		
22	0.00	2.30	3.00	1.16	2.10	13.80	1.56	0.92	0.64	0.64	0.44	0.40		
23	0.00	2.50	2.20	1.12	1.88	9.40	1.56	0.92	0.64	0.64	0.44	0.56		
24	0.00	4.00	1.76	1.08	1.76	12.20	1.52	0.92	0.64	0.60	0.44	0.60		
25	0.00	2.90	1.64	1.00	1.72	5.00	1.52	0.88	0.64	0.60	0.44	0.76		
26	0.00	2.50	1.48	0.92	1.64	3.60	1.52	0.72	0.64	0.60	0.44	0.60		
27	0.00	2.10	1.36	0.96	1.80	3.20	1.76	0.60	0.64	0.60	0.44	0.52		
28	0.00	1.88	1.32	1.00	2.10	2.90	1.76	0.64	0.64	0.60	0.44	0.48		
29	0.00	1.68	1.20	0.92	1.92	4.60	1.80	0.72	0.64	0.60		0.44		
30	0.00	1.36	1.20	0.92	1.84	21.00	1.76	0.76	0.64	0.60		0.44		
31		1.28		0.92	1.68		1.76		0.64	0.60		0.44		
Total	0.00	35.02	123.16	37.12	77.82	276.04	101.18	67.04	20.96	19.40	14.40	14.18	786.32	CMSDAY
Mean	0.00	1.13	4.11	1.20	2.51	9.20	3.26	2.23	0.68	0.63	0.51	0.46	2.15	CMS
Max	0.00	4.00	19.40	1.72	5.80	45.50	25.80	12.60	0.80	0.64	0.60	0.76	45.50	CMS
Min	0.00	0.00	1.08	0.92	0.92	1.12	1.40	0.60	0.64	0.60	0.44	0.36	0.00	CMS
Runoff	0.00	3.03	10.64	3.21	6.72	23.85	8.74	5.79	1.81	1.68	1.24	1.23	67.94	MCM

Momentary Peak 55.50 CMS, at 138.61 m. (MSL.) , at 18.00 Hours , on Sep 14, 2008

Runoff Yield 9.84 Liters/Second/Square KM. Momentary Peak Yield 253.42 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Huai Ban at Ban Na Phu, Amnart Charoen (M.156)

Lat 15 - 59 - 14 N Long 104 - 38 - 28 E

Location : on left bank at the bridge on road.

	Ban Na Phu	**Amphoe** Mueang	**Changwat** Amnart Charoen
Drainge Area	40 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+139.070 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the footpath of the bridge.		**Elevation** +145.300 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1997 to date		
Rating Operation			
Period of Rating	1997 to date		
Rated by Float	-		
Rated by Current Meter	1997 to date		
Stability of Channel Regimes	Rather unstable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. The concrete weir situated about 250 meters downstream from the gage site. Stage-discharge relation defined by 10 diacharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

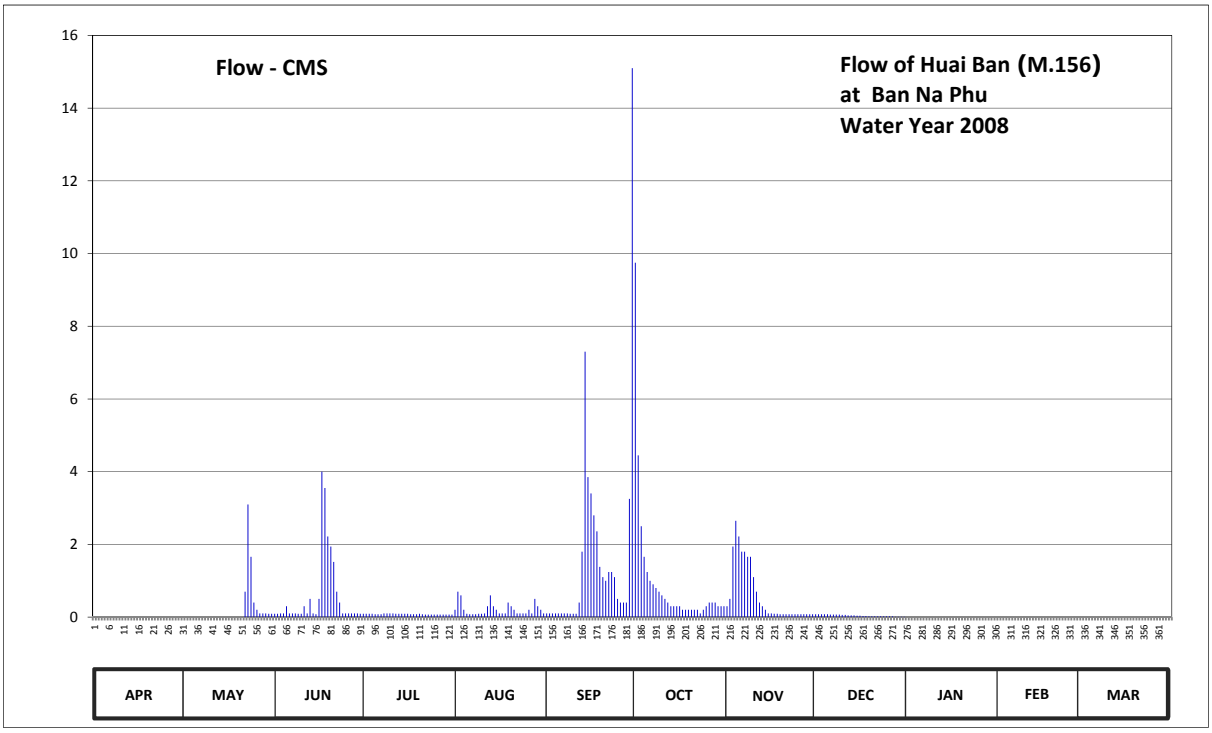
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	139.90	140.73	140.38	140.38	140.41	140.40	141.01	140.42	140.35	140.17	139.84	139.56	
2	139.89	140.72	140.37	140.38	140.46	140.39	140.73	140.44	140.35	140.16	139.83	139.55	
3	140.00	140.71	140.40	140.37	140.45	140.39	140.60	140.56	140.35	140.15	139.82	139.53	
4	140.52	140.69	140.39	140.37	140.41	140.39	140.54	140.61	140.35	140.14	139.81	139.51	
5	140.75	140.67	140.42	140.36	140.37	140.39	140.51	140.58	140.35	140.13	139.80	139.50	
6	140.77	140.64	140.40	140.36	140.36	140.39	140.49	140.55	140.34	140.12	139.79	139.48	
7	140.77	140.61	140.39	140.36	140.36	140.39	140.48	140.55	140.34	140.11	139.78	139.46	
8	140.77	140.58	140.39	140.39	140.36	140.39	140.47	140.54	140.33	140.10	139.77	139.45	
9	140.76	140.54	140.38	140.39	140.37	140.38	140.46	140.54	140.33	140.09	139.76	139.44	
10	140.76	140.49	140.38	140.39	140.37	140.38	140.45	140.50	140.32	140.08	139.75	139.43	
11	140.76	140.44	140.42	140.39	140.39	140.37	140.44	140.46	140.31	140.07	139.74	139.42	
12	140.76	140.39	140.40	140.38	140.42	140.43	140.43	140.43	140.30	140.06	139.73	139.41	
13	140.76	140.38	140.44	140.38	140.45	140.55	140.42	140.42	140.29	140.05	139.72	139.39	
14	140.76	140.36	140.40	140.38	140.42	140.89	140.42	140.41	140.29	140.04	139.71	139.44	
15	140.76	140.35	140.35	140.38	140.41	140.69	140.42	140.40	140.28	140.03	139.70	139.43	
16	140.76	140.34	140.44	140.37	140.40	140.66	140.42	140.39	140.27	140.02	139.69	139.42	
17	140.76	140.33	140.70	140.36	140.40	140.62	140.41	140.38	140.26	140.01	139.68	139.41	
18	140.76	140.32	140.67	140.35	140.39	140.59	140.41	140.37	140.25	140.00	139.67	139.40	
19	140.75	140.31	140.58	140.35	140.43	140.52	140.41	140.36	140.24	139.99	139.66	139.39	
20	140.75	140.31	140.56	140.37	140.42	140.50	140.41	140.35	140.24	139.98	139.65	139.38	
21	140.75	140.53	140.53	140.35	140.41	140.49	140.41	140.36	140.24	139.97	139.64	139.37	
22	140.75	140.46	140.46	140.34	140.40	140.51	140.41	140.36	140.24	139.96	139.63	139.36	
23	140.74	140.64	140.43	140.34	140.40	140.51	140.40	140.36	140.23	139.95	139.62	139.35	
24	140.74	140.54	140.40	140.34	140.39	140.50	140.41	140.36	140.23	139.94	139.61	139.34	
25	140.74	140.43	140.39	140.33	140.40	140.44	140.42	140.35	140.23	139.93	139.60	139.44	
26	140.74	140.41	140.39	140.33	140.41	140.43	140.43	140.35	140.23	139.92	139.59	139.44	
27	140.73	140.40	140.39	140.34	140.40	140.43	140.43	140.35	140.23	139.91	139.58	139.44	
28	140.73	140.39	140.39	140.34	140.44	140.43	140.43	140.35	140.22	139.88	139.57	139.43	
29	140.73	140.39	140.39	140.34	140.42	140.65	140.42	140.35	140.22	139.86		139.43	
30	140.73	140.38	140.38	140.34	140.41	141.22	140.42	140.35	140.22	139.86		139.42	
31		140.37		140.33	140.40		140.42		140.22	139.85		139.41	
Mean	140.66	140.48	140.43	140.36	140.40	140.51	140.47	140.43	140.28	140.02	139.70	139.43	
Max	140.77	140.73	140.70	140.39	140.46	141.22	141.01	140.61	140.35	140.17	139.84	139.56	141.22
Min	139.89	140.31	140.35	140.33	140.36	140.37	140.40	140.35	140.22	139.85	139.57	139.34	139.34

Annual Max Momentary Gage Height 141.46 m. (MSL.) , at 18.00 Hours , on Sep 30, 2008

Zero Gage at Bottom Elevation 139.07 m. (MSL.) , River Bed 139.77 m. (MSL.)

Left Bank Elevation 142.46 m. (MSL.) ,

Right Bank Elevation 142.28 m. (MSL.) , Drainage Are 40 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.09	0.09	0.20	0.10	9.75	0.30	0.08	0.00	0.00	0.00		
2	0.00	0.00	0.09	0.09	0.70	0.10	4.45	0.50	0.08	0.00	0.00	0.00		
3	0.00	0.00	0.10	0.09	0.60	0.10	2.50	1.94	0.08	0.00	0.00	0.00		
4	0.00	0.00	0.10	0.09	0.20	0.10	1.66	2.65	0.08	0.00	0.00	0.00		
5	0.00	0.00	0.30	0.08	0.09	0.10	1.24	2.22	0.08	0.00	0.00	0.00		
6	0.00	0.00	0.10	0.08	0.08	0.10	1.00	1.80	0.07	0.00	0.00	0.00		
7	0.00	0.00	0.10	0.08	0.08	0.10	0.90	1.80	0.07	0.00	0.00	0.00		
8	0.00	0.00	0.10	0.10	0.08	0.10	0.80	1.66	0.07	0.00	0.00	0.00		
9	0.00	0.00	0.09	0.10	0.09	0.09	0.70	1.66	0.07	0.00	0.00	0.00		
10	0.00	0.00	0.09	0.10	0.09	0.09	0.60	1.10	0.06	0.00	0.00	0.00		
11	0.00	0.00	0.30	0.10	0.10	0.09	0.50	0.70	0.06	0.00	0.00	0.00		
12	0.00	0.00	0.10	0.09	0.30	0.40	0.40	0.40	0.05	0.00	0.00	0.00		
13	0.00	0.00	0.50	0.09	0.60	1.80	0.30	0.30	0.05	0.00	0.00	0.00		
14	0.00	0.00	0.10	0.09	0.30	7.30	0.30	0.20	0.05	0.00	0.00	0.00		
15	0.00	0.00	0.08	0.09	0.20	3.85	0.30	0.10	0.04	0.00	0.00	0.00		
16	0.00	0.00	0.50	0.09	0.10	3.40	0.30	0.10	0.04	0.00	0.00	0.00		
17	0.00	0.00	4.00	0.08	0.10	2.80	0.20	0.09	0.03	0.00	0.00	0.00		
18	0.00	0.00	3.55	0.08	0.10	2.36	0.20	0.09	0.03	0.00	0.00	0.00		
19	0.00	0.00	2.22	0.08	0.40	1.38	0.20	0.08	0.02	0.00	0.00	0.00		
20	0.00	0.00	1.94	0.09	0.30	1.10	0.20	0.08	0.02	0.00	0.00	0.00		
21	0.00	0.00	1.52	0.08	0.20	1.00	0.20	0.08	0.02	0.00	0.00	0.00		
22	0.00	0.70	0.70	0.07	0.10	1.24	0.20	0.08	0.02	0.00	0.00	0.00		
23	0.00	3.10	0.40	0.07	0.10	1.24	0.10	0.08	0.02	0.00	0.00	0.00		
24	0.00	1.66	0.10	0.07	0.10	1.10	0.20	0.08	0.02	0.00	0.00	0.00		
25	0.00	0.40	0.10	0.07	0.10	0.50	0.30	0.08	0.02	0.00	0.00	0.00		
26	0.00	0.20	0.10	0.07	0.20	0.40	0.40	0.08	0.02	0.00	0.00	0.00		
27	0.00	0.10	0.10	0.07	0.10	0.40	0.40	0.08	0.02	0.00	0.00	0.00		
28	0.00	0.10	0.10	0.07	0.50	0.40	0.40	0.08	0.01	0.00	0.00	0.00		
29	0.00	0.10	0.10	0.07	0.30	3.25	0.30	0.08	0.01	0.00		0.00		
30	0.00	0.09	0.09	0.07	0.20	15.10	0.30	0.08	0.01	0.00		0.00		
31		0.09		0.07	0.10		0.30		0.01	0.00		0.00		
Total	0.00	6.54	17.76	2.56	6.71	50.09	29.60	18.57	1.31	0.00	0.00	0.00	133.14	CMSDAY
Mean	0.00	0.21	0.59	0.08	0.22	1.67	0.95	0.62	0.04	0.00	0.00	0.00	0.36	CMS
Max	0.00	3.10	4.00	0.10	0.70	15.10	9.75	2.65	0.08	0.00	0.00	0.00	15.10	CMS
Min	0.00	0.00	0.08	0.07	0.08	0.09	0.10	0.08	0.01	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	0.57	1.53	0.22	0.58	4.33	2.56	1.60	0.11	0.00	0.00	0.00	11.50	MCM

Momentary Peak 23.10 CMS, at 141.46 m. (MSL.) , at 18.00 Hours , on Sep 30, 2008

Runoff Yield 9.12 Liters/Second/Square KM. Momentary Peak Yield 577.50 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Huai Lam Phong at Ban Nikhom, Yasothon (M.157)

Lat 15 - 48 - 17 N Long 104 - 19 - 52 E

Location : on right bank at the bridge of Arun Prasoet road.

Ban Nikhom **Amphoe** Pa Tio **Changwat** Yasothon

Drainge Area	729 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+121.510 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank upstream side of the footpath of the bridge. **Elevation** +131.600 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 mean of 5 readings
Period of Available Gage Records	1997 to date
Rating Operation	
Period of Rating	1997 - 1999, 2001 to date.
Rated by Float	-
Rated by Current Meter	1997 - 1999, 2001 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 11 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

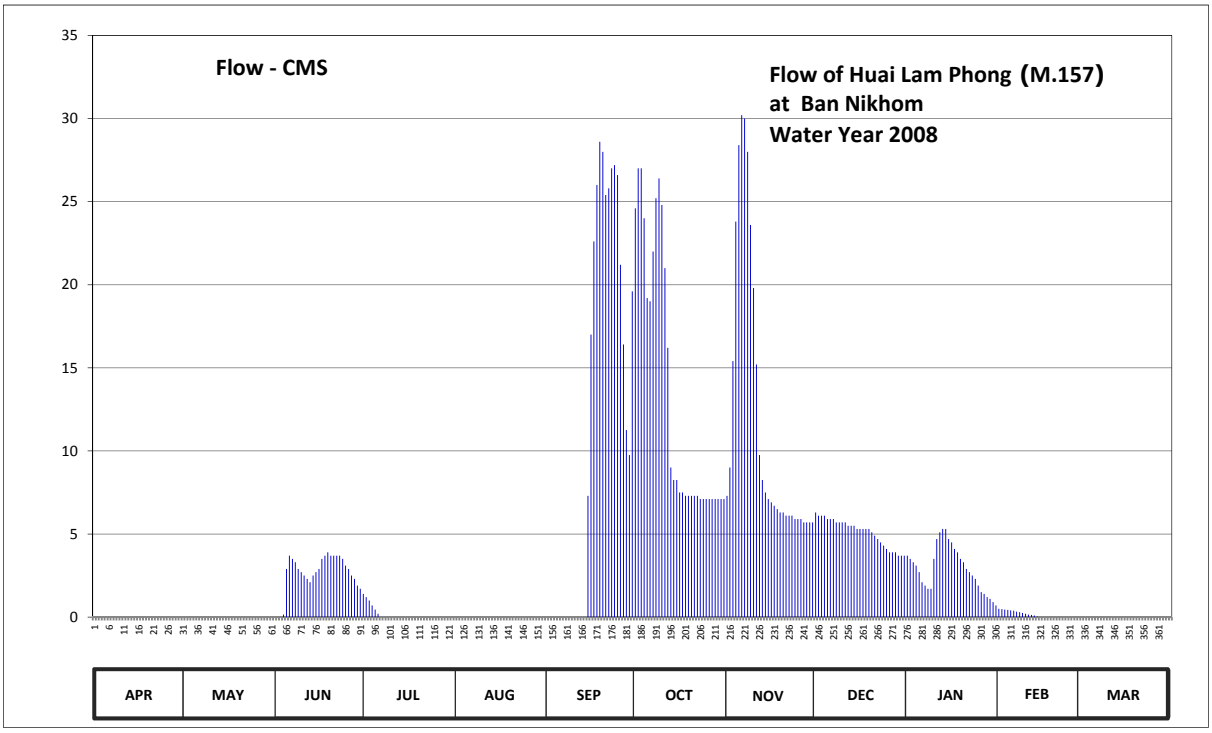
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.63	123.51	124.66	125.19	123.55	122.54	126.08	125.49	125.44	125.31	125.10	124.63	
2	123.64	123.51	124.77	125.17	123.53	122.52	126.20	125.52	125.43	125.30	125.09	124.62	
3	123.65	123.50	124.84	125.15	123.49	122.51	126.20	125.62	125.43	125.29	125.08	124.61	
4	123.66	123.50	124.96	125.12	123.50	122.53	126.05	126.04	125.43	125.28	125.07	124.60	
5	123.67	123.49	125.27	125.08	123.46	122.55	125.81	126.27	125.42	125.26	125.06	124.59	
6	123.68	123.48	125.31	124.98	123.45	122.56	125.80	126.36	125.42	125.23	125.05	124.57	
7	123.69	123.47	125.30	124.86	123.36	122.56	125.95	126.35	125.42	125.22	125.03	124.54	
8	123.70	123.46	125.29	124.75	123.26	122.55	126.11	126.25	125.41	125.21	125.02	124.50	
9	123.71	123.45	125.27	124.69	123.19	122.55	126.17	126.03	125.41	125.21	125.00	124.47	
10	123.72	123.44	125.26	124.65	123.21	122.53	126.09	125.84	125.41	125.30	124.98	124.44	
11	123.71	123.43	125.25	124.62	123.20	122.49	125.90	125.61	125.41	125.36	124.96	124.41	
12	123.70	123.42	125.24	124.55	123.20	122.62	125.66	125.53	125.40	125.38	124.95	124.39	
13	123.69	123.41	125.23	124.51	123.19	122.67	125.52	125.51	125.40	125.39	124.94	124.37	
14	123.68	123.40	125.25	124.41	123.05	124.14	125.51	125.50	125.40	125.39	124.91	124.37	
15	123.68	123.39	125.26	124.27	122.95	125.49	125.51	125.48	125.39	125.36	124.89	124.37	
16	123.67	123.39	125.27	124.18	122.82	125.70	125.50	125.47	125.39	125.35	124.86	124.37	
17	123.66	123.40	125.30	124.15	122.68	125.98	125.50	125.46	125.39	125.33	124.85	124.36	
18	123.65	123.42	125.31	124.09	122.64	126.15	125.49	125.45	125.39	125.32	124.84	124.36	
19	123.64	123.45	125.32	124.01	122.52	126.28	125.49	125.44	125.39	125.30	124.83	124.35	
20	123.63	123.50	125.31	123.92	122.57	126.25	125.49	125.44	125.38	125.29	124.82	124.34	
21	123.62	123.57	125.31	123.89	122.62	126.12	125.49	125.43	125.37	125.27	124.81	124.33	
22	123.61	123.63	125.31	123.81	122.64	126.14	125.49	125.43	125.36	125.26	124.80	124.32	
23	123.60	123.71	125.31	123.78	122.63	126.20	125.48	125.43	125.35	125.25	124.79	124.31	
24	123.59	123.77	125.30	123.73	122.46	126.21	125.48	125.42	125.34	125.24	124.78	124.30	
25	123.58	123.81	125.28	123.68	122.31	126.18	125.48	125.42	125.33	125.22	124.75	124.31	
26	123.57	123.85	125.27	123.67	122.33	125.91	125.48	125.42	125.32	125.20	124.71	124.32	
27	123.56	123.93	125.25	123.64	122.44	125.67	125.48	125.41	125.32	125.19	124.68	124.33	
28	123.55	123.98	125.24	123.62	122.55	125.55	125.48	125.41	125.32	125.17	124.66	124.33	
29	123.54	124.07	125.22	123.60	122.61	125.53	125.48	125.41	125.31	125.16		124.33	
30	123.52	124.36	125.21	123.59	122.65	125.83	125.48	125.41	125.31	125.14		124.33	
31		124.53		123.57	122.61		125.48		125.31	125.12		124.33	
Mean	123.64	123.62	125.21	124.29	122.92	124.42	125.69	125.63	125.38	125.27	124.90	124.41	
Max	123.72	124.53	125.32	125.19	123.55	126.28	126.20	126.36	125.44	125.39	125.10	124.63	126.36
Min	123.52	123.39	124.66	123.57	122.31	122.49	125.48	125.41	125.31	125.12	124.66	124.30	122.31

Annual Max Momentary Gage Height 126.37 m. (MSL.) , at 15.00 Hours , on Nov 6, 2008

Zero Gage at Bottom Elevation 121.51 m. (MSL.) , River Bed 122.17 m. (MSL.)

Left Bank Elevation 127.45 m. (MSL.) ,

Right Bank Elevation 127.17 m. (MSL.) , Drainage Are 729 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	1.40	0.00	0.00	24.60	7.30	6.30	3.70	0.50	0.00		
2	0.00	0.00	0.00	1.20	0.00	0.00	27.00	9.00	6.10	3.50	0.48	0.00		
3	0.00	0.00	0.00	1.00	0.00	0.00	27.00	15.40	6.10	3.30	0.45	0.00		
4	0.00	0.00	0.15	0.70	0.00	0.00	24.00	23.80	6.10	3.10	0.43	0.00		
5	0.00	0.00	2.90	0.45	0.00	0.00	19.20	28.40	5.90	2.70	0.40	0.00		
6	0.00	0.00	3.70	0.20	0.00	0.00	19.00	30.20	5.90	2.10	0.38	0.00		
7	0.00	0.00	3.50	0.00	0.00	0.00	22.00	30.00	5.90	1.90	0.33	0.00		
8	0.00	0.00	3.30	0.00	0.00	0.00	25.20	28.00	5.70	1.70	0.30	0.00		
9	0.00	0.00	2.90	0.00	0.00	0.00	26.40	23.60	5.70	1.70	0.25	0.00		
10	0.00	0.00	2.70	0.00	0.00	0.00	24.80	19.80	5.70	3.50	0.20	0.00		
11	0.00	0.00	2.50	0.00	0.00	0.00	21.00	15.20	5.70	4.70	0.15	0.00		
12	0.00	0.00	2.30	0.00	0.00	0.00	16.20	9.75	5.50	5.10	0.13	0.00		
13	0.00	0.00	2.10	0.00	0.00	0.00	9.00	8.25	5.50	5.30	0.10	0.00		
14	0.00	0.00	2.50	0.00	0.00	0.00	8.25	7.50	5.50	5.30	0.03	0.00		
15	0.00	0.00	2.70	0.00	0.00	7.30	8.25	7.10	5.30	4.70	0.00	0.00		
16	0.00	0.00	2.90	0.00	0.00	17.00	7.50	6.90	5.30	4.50	0.00	0.00		
17	0.00	0.00	3.50	0.00	0.00	22.60	7.50	6.70	5.30	4.10	0.00	0.00		
18	0.00	0.00	3.70	0.00	0.00	26.00	7.30	6.50	5.30	3.90	0.00	0.00		
19	0.00	0.00	3.90	0.00	0.00	28.60	7.30	6.30	5.30	3.50	0.00	0.00		
20	0.00	0.00	3.70	0.00	0.00	28.00	7.30	6.30	5.10	3.30	0.00	0.00		
21	0.00	0.00	3.70	0.00	0.00	25.40	7.30	6.10	4.90	2.90	0.00	0.00		
22	0.00	0.00	3.70	0.00	0.00	25.80	7.30	6.10	4.70	2.70	0.00	0.00		
23	0.00	0.00	3.70	0.00	0.00	27.00	7.10	6.10	4.50	2.50	0.00	0.00		
24	0.00	0.00	3.50	0.00	0.00	27.20	7.10	5.90	4.30	2.30	0.00	0.00		
25	0.00	0.00	3.10	0.00	0.00	26.60	7.10	5.90	4.10	1.90	0.00	0.00		
26	0.00	0.00	2.90	0.00	0.00	21.20	7.10	5.90	3.90	1.50	0.00	0.00		
27	0.00	0.00	2.50	0.00	0.00	16.40	7.10	5.70	3.90	1.40	0.00	0.00		
28	0.00	0.00	2.30	0.00	0.00	11.25	7.10	5.70	3.90	1.20	0.00	0.00		
29	0.00	0.00	1.90	0.00	0.00	9.75	7.10	5.70	3.70	1.10		0.00		
30	0.00	0.00	1.70	0.00	0.00	19.60	7.10	5.70	3.70	0.90		0.00		
31		0.00		0.00	0.00		7.10		3.70	0.70		0.00		
Total	0.00	0.00	77.95	4.95	0.00	339.70	417.30	354.80	158.50	90.70	4.13	0.00	1448.03	CMSDAY
Mean	0.00	0.00	2.60	0.16	0.00	11.32	13.46	11.83	5.11	2.93	0.15	0.00	3.97	CMS
Max	0.00	0.00	3.90	1.40	0.00	28.60	27.00	30.20	6.30	5.30	0.50	0.00	30.20	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	7.10	5.70	3.70	0.70	0.00	0.00	0.00	CMS
Runoff	0.00	0.00	6.73	0.43	0.00	29.35	36.05	30.65	13.69	7.84	0.36	0.00	125.11	MCM

Momentary Peak 30.40 CMS, at 126.37 m. (MSL.) , at 15.00 Hours , on Nov 6, 2008

Runoff Yield 5.44 Liters/Second/Square KM. Momentary Peak Yield 41.70 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	4,806 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+120.850 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at staff gage line.		**Elevation** +131.080 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 mean of 5 readings		
Period of Available Gage Records	1999 to date.		
Rating Operation			
Period of Rating	1999 to date.		
Rated by Float	-		
Rated by Current Meter	1999 to date.		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +128.630 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

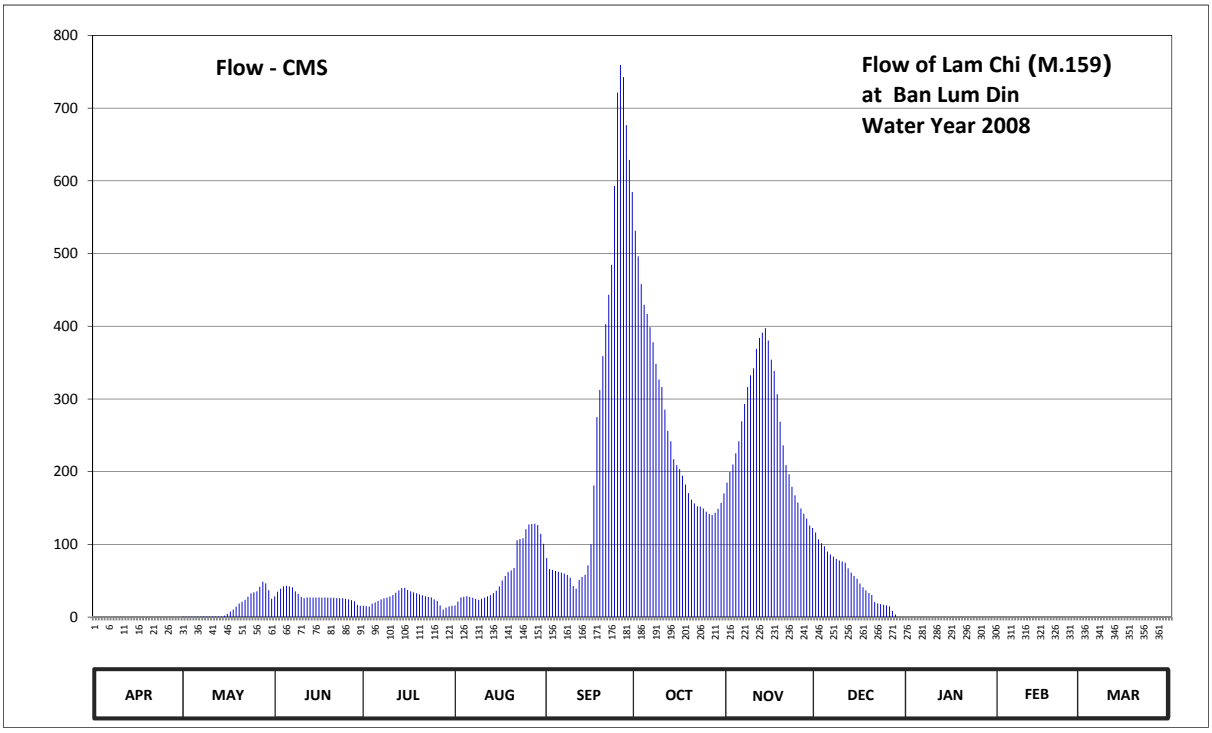
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	122.15	122.13	123.22	122.79	122.80	124.76	130.97	127.22	125.75	122.57	122.37	122.17	
2	122.14	122.13	123.43	122.77	122.98	124.33	130.81	127.51	125.50	122.57	122.35	122.17	
3	122.14	122.14	123.56	122.75	123.17	124.30	130.61	127.72	125.35	122.57	122.32	122.16	
4	122.14	122.15	123.65	122.88	123.20	124.25	130.44	128.09	125.23	122.56	122.28	122.16	
5	122.12	122.16	123.67	122.94	123.23	124.22	130.35	128.33	125.02	122.56	122.25	122.16	
6	122.12	122.17	123.65	123.01	123.19	124.19	130.22	128.72	124.91	122.56	122.24	122.15	
7	122.11	122.17	123.61	123.08	123.15	124.15	130.05	129.06	124.82	122.55	122.22	122.15	
8	122.11	122.18	123.45	123.13	123.10	124.10	129.76	129.38	124.73	122.55	122.20	122.15	
9	122.10	122.19	123.33	123.16	123.06	123.99	129.51	129.58	124.67	122.55	122.20	122.13	
10	122.09	122.19	123.19	123.21	123.11	123.66	129.38	129.69	124.63	122.55	122.19	122.13	
11	122.08	122.19	123.13	123.28	123.16	123.56	128.95	129.97	124.58	122.55	122.19	122.11	
12	122.07	122.19	123.17	123.38	123.22	123.90	128.53	130.10	124.36	122.54	122.19	122.11	
13	122.07	122.23	123.17	123.49	123.27	124.02	128.33	130.16	124.19	122.54	122.17	122.10	
14	122.06	122.28	123.16	123.58	123.37	124.11	127.88	130.21	124.06	122.43	122.17	122.10	
15	122.06	122.33	123.16	123.59	123.48	124.48	127.70	130.07	123.95	122.43	122.16	122.09	
16	122.05	122.41	123.17	123.51	123.65	125.31	127.59	129.82	123.76	122.43	122.16	122.09	
17	122.05	122.52	123.16	123.45	123.88	127.14	127.41	129.65	123.61	122.40	122.16	122.08	
18	122.04	122.61	123.17	123.40	124.06	128.80	127.17	129.25	123.49	122.40	122.15	122.08	
19	122.04	122.74	123.16	123.36	124.21	129.33	126.93	128.71	123.37	122.40	122.15	122.06	
20	122.03	122.89	123.15	123.31	124.28	129.87	126.75	128.25	123.28	122.36	122.15	122.06	
21	122.03	122.97	123.15	123.27	124.37	130.25	126.65	127.70	122.96	122.36	122.16	122.00	
22	122.02	123.06	123.14	123.22	125.46	130.53	126.57	127.45	122.90	122.34	122.16	121.96	
23	122.02	123.20	123.13	123.19	125.51	130.75	126.56	127.10	122.86	122.34	122.17	121.96	
24	122.01	123.35	123.13	123.17	125.54	131.21	126.51	126.87	122.83	122.35	122.17	121.93	
25	122.01	123.40	123.11	123.08	125.86	131.58	126.42	126.67	122.80	122.35	122.18	121.92	
26	122.01	123.45	123.08	123.00	126.02	131.67	126.35	126.51	122.76	122.36	122.18	121.91	
27	122.01	123.64	123.04	122.80	126.04	131.63	126.32	126.36	122.55	122.36	122.18	121.90	
28	122.01	123.83	122.99	122.61	126.05	131.47	126.39	126.21	122.38	122.37	122.18	121.88	
29	122.02	123.77	122.83	122.70	126.00	131.33	126.50	125.99	122.46	122.37		121.88	
30	122.03	123.50	122.79	122.76	125.70	131.18	126.66	125.90	122.52	122.38		121.88	
31		123.11		122.79	125.32		126.92		122.55	122.38		121.90	
Mean	122.06	122.69	123.22	123.12	124.18	127.14	128.10	128.28	123.83	122.45	122.20	122.05	
Max	122.15	123.83	123.67	123.59	126.05	131.67	130.97	130.21	125.75	122.57	122.37	122.17	131.67
Min	122.01	122.13	122.79	122.61	122.80	123.56	126.32	125.90	122.38	122.34	122.15	121.88	121.88

Annual Max Momentary Gage Height 131.70 m. (MSL.) , at 18.00 Hours , on Sep 26, 2008

Zero Gage at Bottom Elevation 120.85 m. (MSL.) , River Bed 120.78 m. (MSL.) ,

Left Bank Elevation 128.62 m. (MSL.) ,

Right Bank Elevation 131.07 m. (MSL.) , Drainage Are 4,806 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.66	28.60	15.70	16.00	81.10	531.40	185.00	116.50	0.00	0.00	0.00		
2	0.00	0.66	34.90	15.10	21.40	66.05	496.20	199.50	107.00	0.00	0.00	0.00		
3	0.00	0.68	39.10	14.50	27.10	65.00	457.90	210.00	101.75	0.00	0.00	0.00		
4	0.00	0.70	42.25	18.40	28.00	63.25	429.60	225.21	97.55	0.00	0.00	0.00		
5	0.00	0.72	42.95	20.20	28.90	62.20	417.00	241.88	90.20	0.00	0.00	0.00		
6	0.00	0.74	42.25	22.30	27.70	61.15	398.80	269.40	86.35	0.00	0.00	0.00		
7	0.00	0.74	40.85	24.40	26.50	59.75	378.00	293.20	83.20	0.00	0.00	0.00		
8	0.00	0.76	35.50	25.90	25.00	58.00	348.40	316.40	80.05	0.00	0.00	0.00		
9	0.00	0.78	31.90	26.80	23.80	54.15	326.80	332.40	77.95	0.00	0.00	0.00		
10	0.00	0.78	27.70	28.30	25.30	42.60	316.40	342.10	76.55	0.00	0.00	0.00		
11	0.00	0.78	25.90	30.40	26.80	39.10	285.50	369.00	74.80	0.00	0.00	0.00		
12	0.00	0.78	27.10	33.40	28.60	51.00	256.04	384.00	67.10	0.00	0.00	0.00		
13	0.00	0.86	27.10	36.70	30.10	55.20	241.88	391.20	61.15	0.00	0.00	0.00		
14	0.00	0.96	26.80	39.80	33.10	58.35	217.09	397.40	56.60	0.00	0.00	0.00		
15	0.00	1.90	26.80	40.15	36.40	71.30	209.00	380.40	52.75	0.00	0.00	0.00		
16	0.00	4.30	27.10	37.35	42.25	100.35	203.50	354.00	46.10	0.00	0.00	0.00		
17	0.00	7.60	26.80	35.50	50.30	181.00	194.50	338.50	40.85	0.00	0.00	0.00		
18	0.00	10.30	27.10	34.00	56.60	275.00	182.50	306.50	36.70	0.00	0.00	0.00		
19	0.00	14.20	26.80	32.80	61.85	312.40	170.50	268.70	33.10	0.00	0.00	0.00		
20	0.00	18.70	26.50	31.30	64.30	359.00	161.50	236.22	30.40	0.00	0.00	0.00		
21	0.00	21.10	26.50	30.10	67.45	403.00	156.50	209.00	20.80	0.00	0.00	0.00		
22	0.00	23.80	26.20	28.60	105.60	443.40	152.50	196.50	19.00	0.00	0.00	0.00		
23	0.00	28.00	25.90	27.70	107.35	484.50	152.00	179.00	17.80	0.00	0.00	0.00		
24	0.00	32.50	25.90	27.10	108.40	593.00	149.50	167.50	16.90	0.00	0.00	0.00		
25	0.00	34.00	25.30	24.40	120.90	721.60	145.00	157.50	16.00	0.00	0.00	0.00		
26	0.00	35.50	24.40	22.00	127.30	759.40	141.75	149.50	14.80	0.00	0.00	0.00		
27	0.00	41.90	23.20	16.00	128.10	742.60	140.40	142.20	8.50	0.00	0.00	0.00		
28	0.00	48.55	21.70	10.30	128.50	676.60	143.55	135.45	3.40	0.00	0.00	0.00		
29	0.00	46.45	16.90	13.00	126.50	629.00	149.00	126.10	0.00	0.00		0.00		
30	0.00	37.00	15.70	14.80	114.50	584.60	157.00	122.50	0.00	0.00		0.00		
31		25.30		15.70	100.70		170.00		0.00	0.00		0.00		
Total	0.00	441.70	865.70	792.70	1915.30	8153.65	7879.71	7626.26	1533.85	0.00	0.00	0.00	29208.87	CMSDAY
Mean	0.00	14.25	28.86	25.57	61.78	271.79	254.18	254.21	49.48	0.00	0.00	0.00	80.02	CMS
Max	0.00	48.55	42.95	40.15	128.50	759.40	531.40	397.40	116.50	0.00	0.00	0.00	759.40	CMS
Min	0.00	0.66	15.70	10.30	16.00	39.10	140.40	122.50	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	38.16	74.80	68.49	165.48	704.48	680.81	658.91	132.52	0.00	0.00	0.00	2523.65	MCM

Momentary Peak 772.00 CMS, at 131.70 m. (MSL.) , at 18.00 Hours , on Sep 26, 2008

Runoff Yield 16.65 Liters/Second/Square KM. Momentary Peak Yield 160.63 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Lam Ta Khong at Ban Send Mari, Nakhon Ratchasima (M.164)

Lat 14 - 58 - 57 N Long 102 - 05 - 52 E

Location : on right bank at the bridge on highway.

Ban Send Mari **Amphoe** Mueang **Changwat** Nakhon Ratchasima

Drainge Area	3,012 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+173.800 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at staff gage line. **Elevation** +179.559 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 Float	-
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 26 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

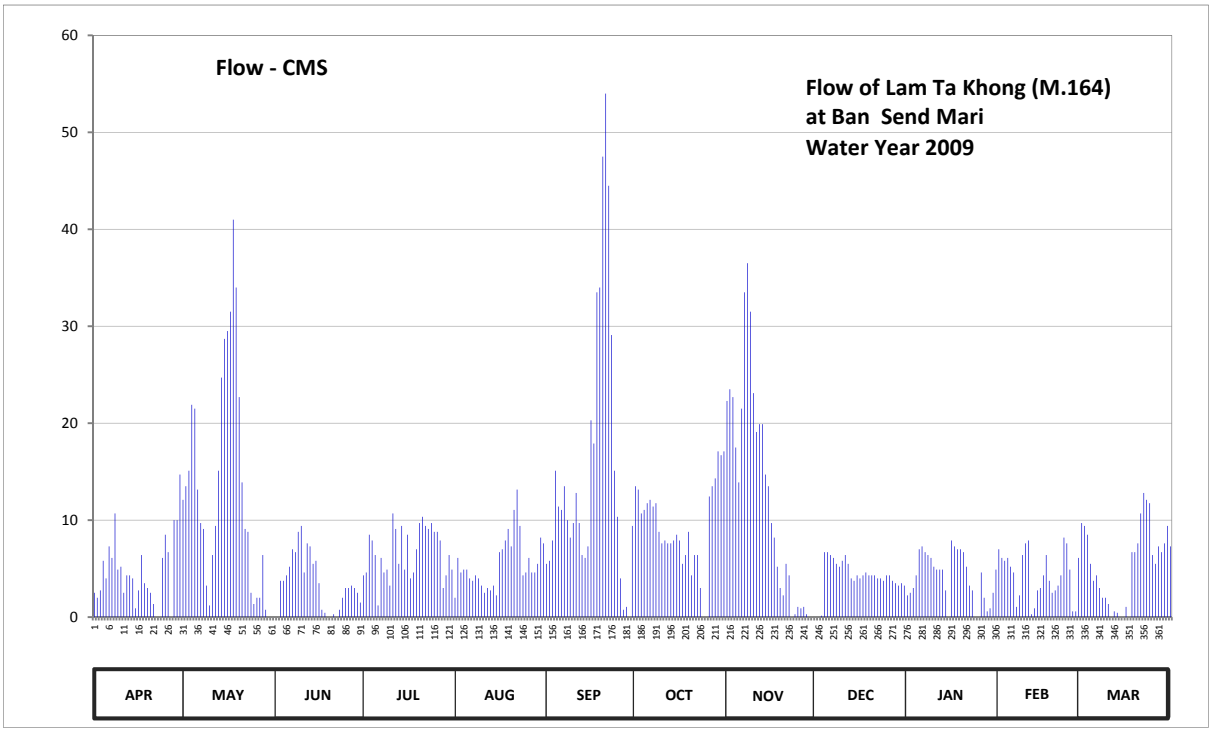
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	176.24	176.56	175.65	176.31	176.22	176.35	176.60	176.82	175.89	176.23	176.40	176.49	
2	176.22	176.60	175.86	176.32	176.37	176.36	176.59	176.85	175.81	176.24	176.37	176.48	
3	176.25	176.64	176.29	176.45	176.32	176.43	176.52	176.83	176.11	176.26	176.36	176.45	
4	176.36	176.81	176.29	176.43	176.33	176.64	176.53	176.70	176.39	176.31	176.37	176.35	
5	176.30	176.80	176.31	176.38	176.33	176.54	176.55	176.61	176.39	176.40	176.34	176.29	
6	176.41	176.59	176.34	176.18	176.30	176.53	176.56	176.80	176.38	176.41	176.32	176.31	
7	176.37	176.49	176.40	176.37	176.29	176.60	176.54	177.08	176.37	176.39	176.17	176.26	
8	176.52	176.47	176.39	176.32	176.31	176.50	176.55	177.14	176.35	176.38	176.23	176.22	
9	176.33	176.27	176.46	176.33	176.30	176.44	176.46	177.04	176.34	176.37	176.38	176.22	
10	176.34	176.18	176.48	176.27	176.27	176.49	176.42	176.84	176.36	176.34	176.42	176.19	
11	176.24	176.38	176.32	176.52	176.24	176.58	176.43	176.74	176.38	176.33	176.43	175.99	
12	176.31	176.48	176.42	176.47	176.26	176.49	176.42	176.76	176.35	176.33	176.12	176.14	
13	176.31	176.64	176.41	176.35	176.25	176.38	176.42	176.76	176.30	176.33	176.16	176.13	
14	176.30	176.88	176.35	176.48	176.27	176.37	176.43	176.63	176.29	176.25	176.25	175.80	
15	176.16	176.98	176.36	176.33	176.23	176.41	176.45	176.60	176.31	176.10	176.26	176.00	
16	176.25	177.00	176.28	176.45	176.39	176.77	176.43	176.49	176.30	176.43	176.31	176.17	
17	176.38	177.04	176.15	176.30	176.40	176.71	176.35	176.44	176.31	176.41	176.38	176.07	
18	176.28	177.23	176.13	176.32	176.43	177.08	176.38	176.34	176.32	176.40	176.29	176.39	
19	176.26	177.09	176.10	176.40	176.47	177.09	176.46	176.26	176.31	176.40	176.24	176.39	
20	176.24	176.83	176.10	176.49	176.41	177.36	176.31	176.23	176.31	176.39	176.25	176.42	
21	176.19	176.61	176.12	176.51	176.53	177.49	176.38	176.35	176.31	176.34	176.27	176.52	
22	176.08	176.47	176.09	176.48	176.59	177.30	176.38	176.31	176.30	176.27	176.31	176.58	
23	176.10	176.46	176.15	176.47	176.48	176.99	176.26	175.99	176.30	176.25	176.44	176.56	
24	176.37	176.24	176.22	176.49	176.31	176.64	175.88	176.12	176.29	175.94	176.42	176.55	
25	176.45	176.19	176.26	176.46	176.32	176.51	176.07	176.17	176.31	175.93	176.33	176.38	
26	176.39	176.22	176.26	176.46	176.37	176.30	176.57	176.16	176.31	176.32	176.14	176.35	
27	175.95	176.22	176.27	176.43	176.32	176.15	176.60	176.17	176.29	176.22	176.14	176.41	
28	176.50	176.38	176.26	176.26	176.32	176.17	176.62	176.12	176.28	176.14	176.37	176.39	
29	176.50	176.15	176.24	176.31	176.35	176.03	176.69	176.10	176.27	176.16		176.42	
30	176.63	175.90	176.20	176.38	176.44	176.48	176.68	175.91	176.28	176.24		176.48	
31		175.95		176.33	176.42		176.69		176.27	176.33		176.41	
Mean	176.31	176.54	176.24	176.39	176.35	176.61	176.46	176.51	176.28	176.29	176.30	176.32	
Max	176.63	177.23	176.48	176.52	176.59	177.49	176.69	177.14	176.39	176.43	176.44	176.58	177.49
Min	175.95	175.90	175.65	176.18	176.22	176.03	175.88	175.91	175.81	175.93	176.12	175.80	175.65

Annual Max Momentary Gage Height 177.50 m. (MSL.) , at 06.00 Hours, on Sep 21, 2008

Zero Gage at Bottom Elevation 173.80 m. (MSL.) , River Bed 174.11 m. (MSL)

Left Bank Elevation 178.03 m. (MSL.) ,

Right Bank Elevation 177.84 m. (MSL.) , Drainage Are 3,012 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.50	12.10	0.00	4.30	2.00	5.50	13.50	22.30	0.00	2.25	7.00	9.70		
2	2.00	13.50	0.00	4.60	6.10	5.80	13.15	23.50	0.00	2.50	6.10	9.40		
3	2.75	15.10	3.75	8.50	4.60	7.90	10.70	22.70	0.15	3.00	5.80	8.50		
4	5.80	21.90	3.75	7.90	4.90	15.10	11.05	17.50	6.70	4.30	6.10	5.50		
5	4.00	21.50	4.30	6.40	4.90	11.40	11.75	13.90	6.70	7.00	5.20	3.75		
6	7.30	13.15	5.20	1.20	4.00	11.05	12.10	21.50	6.40	7.30	4.60	4.30		
7	6.10	9.70	7.00	6.10	3.75	13.50	11.40	33.50	6.10	6.70	1.05	3.00		
8	10.70	9.10	6.70	4.60	4.30	10.00	11.75	36.50	5.50	6.40	2.25	2.00		
9	4.90	3.25	8.80	4.90	4.00	8.20	8.80	31.50	5.20	6.10	6.40	2.00		
10	5.20	1.20	9.40	3.25	3.25	9.70	7.60	23.10	5.80	5.20	7.60	1.35		
11	2.50	6.40	4.60	10.70	2.50	12.80	7.90	19.10	6.40	4.90	7.90	0.00		
12	4.30	9.40	7.60	9.10	3.00	9.70	7.60	19.90	5.50	4.90	0.30	0.60		
13	4.30	15.10	7.30	5.50	2.75	6.40	7.60	19.90	4.00	4.90	0.90	0.45		
14	4.00	24.70	5.50	9.40	3.25	6.10	7.90	14.70	3.75	2.75	2.75	0.00		
15	0.90	28.70	5.80	4.90	2.25	7.30	8.50	13.50	4.30	0.00	3.00	0.00		
16	2.75	29.50	3.50	8.50	6.70	20.30	7.90	9.70	4.00	7.90	4.30	1.05		
17	6.40	31.50	0.75	4.00	7.00	17.90	5.50	8.20	4.30	7.30	6.40	0.00		
18	3.50	41.00	0.45	4.60	7.90	33.50	6.40	5.20	4.60	7.00	3.75	6.70		
19	3.00	34.00	0.00	7.00	9.10	34.00	8.80	3.00	4.30	7.00	2.50	6.70		
20	2.50	22.70	0.00	9.70	7.30	47.50	4.30	2.25	4.30	6.70	2.75	7.60		
21	1.35	13.90	0.30	10.35	11.05	54.00	6.40	5.50	4.30	5.20	3.25	10.70		
22	0.00	9.10	0.00	9.40	13.15	44.50	6.40	4.30	4.00	3.25	4.30	12.80		
23	0.00	8.80	0.75	9.10	9.40	29.10	3.00	0.00	4.00	2.75	8.20	12.10		
24	6.10	2.50	2.00	9.70	4.30	15.10	0.00	0.30	3.75	0.00	7.60	11.75		
25	8.50	1.35	3.00	8.80	4.60	10.35	0.00	1.05	4.30	0.00	4.90	6.40		
26	6.70	2.00	3.00	8.80	6.10	4.00	12.45	0.90	4.30	4.60	0.60	5.50		
27	0.00	2.00	3.25	7.90	4.60	0.75	13.50	1.05	3.75	2.00	0.60	7.30		
28	10.00	6.40	3.00	3.00	4.60	1.05	14.30	0.30	3.50	0.60	6.10	6.70		
29	10.00	0.75	2.50	4.30	5.50	0.00	17.10	0.00	3.25	0.90		7.60		
30	14.70	0.00	1.50	6.40	8.20	9.40	16.70	0.00	3.50	2.50		9.40		
31		0.00		4.90	7.60		17.10		3.25	4.90		7.30		
Total	142.75	410.30	103.70	207.80	172.65	461.90	291.15	374.85	129.90	130.80	122.20	170.15	2718.15	CMSDAY
Mean	4.76	13.24	3.46	6.70	5.57	15.40	9.39	12.49	4.19	4.22	4.36	5.49	7.45	CMS
Max	14.70	41.00	9.40	10.70	13.15	54.00	17.10	36.50	6.70	7.90	8.20	12.80	54.00	CMS
Min	0.00	0.00	0.00	1.20	2.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	CMS
Runoff	12.33	35.45	8.96	17.95	14.92	39.91	25.16	32.39	11.22	11.30	10.56	14.70	234.85	MCM

Momentary Peak 54.50 CMS, at 177.50 m. (MSL), at 06.00 Hours, on Sep 21, 2008

Runoff Yield 2.47 Liters/Second/Square KM. Momentary Peak Yield 18.09 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Khlong Ki at Ban Khlong Din Dam, Nakhon Ratchasima (M.169)

Lat 14 - 31 - 32 N Long 101 - 45 - 22 E

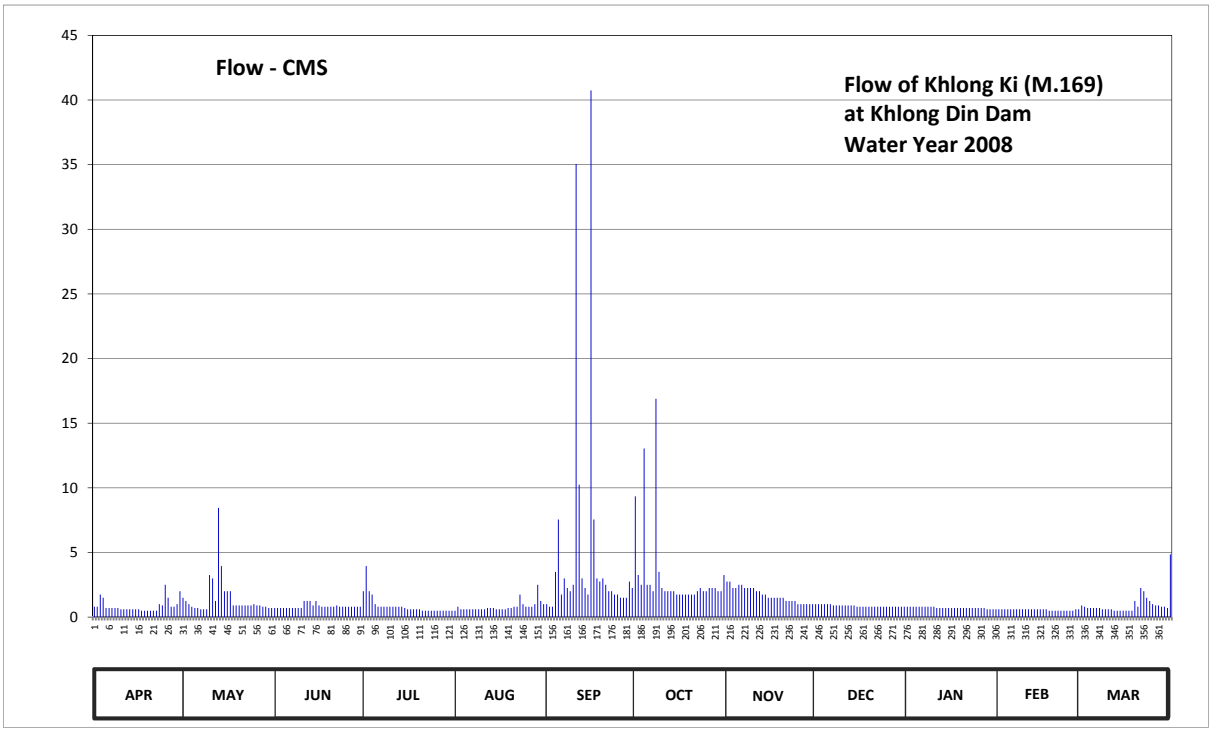
Location : on right bank at Ban Khlong Din Dam.

	Ban	Khlong Din Dam	**Amphoe** Wang Nam Khieo	**Changwat**	Nakhon Ratchasima
Drainge Area	134	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 near the automatic gage building.			**Elevation**	+5.000 m. (A.D.)
Gage Reading Frequency	Recording.				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	2002 to date				
Rating Operation					
Period of Rating	2002 to date				
Rated by Float	-				
Rated by Current Meter	2002 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 2008.				

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.08	0.12	0.07	0.14	0.05	0.10	0.33	0.17	0.10	0.08	0.06	0.09	
2	0.08	0.11	0.07	0.21	0.08	0.08	0.19	0.17	0.10	0.08	0.06	0.08	
3	0.13	0.10	0.07	0.14	0.06	0.08	0.16	0.15	0.10	0.08	0.06	0.07	
4	0.12	0.08	0.07	0.13	0.06	0.20	0.41	0.15	0.10	0.08	0.06	0.07	
5	0.07	0.07	0.07	0.10	0.06	0.29	0.16	0.16	0.10	0.08	0.06	0.07	
6	0.07	0.07	0.07	0.08	0.06	0.13	0.16	0.16	0.10	0.08	0.06	0.07	
7	0.07	0.06	0.07	0.08	0.06	0.18	0.14	0.15	0.09	0.08	0.06	0.07	
8	0.07	0.06	0.07	0.08	0.06	0.15	0.48	0.15	0.09	0.08	0.06	0.06	
9	0.07	0.06	0.07	0.08	0.06	0.14	0.20	0.15	0.09	0.08	0.06	0.06	
10	0.06	0.19	0.07	0.08	0.06	0.16	0.15	0.15	0.09	0.08	0.06	0.06	
11	0.06	0.18	0.11	0.08	0.06	0.77	0.14	0.14	0.09	0.07	0.06	0.06	
12	0.06	0.11	0.11	0.08	0.07	0.35	0.14	0.14	0.09	0.07	0.06	0.05	
13	0.06	0.31	0.11	0.08	0.07	0.18	0.14	0.13	0.09	0.07	0.06	0.05	
14	0.06	0.21	0.09	0.08	0.07	0.15	0.14	0.13	0.09	0.07	0.06	0.05	
15	0.06	0.14	0.11	0.07	0.06	0.13	0.13	0.12	0.08	0.07	0.06	0.05	
16	0.06	0.14	0.09	0.06	0.06	0.85	0.13	0.12	0.08	0.07	0.06	0.05	
17	0.05	0.14	0.08	0.06	0.06	0.29	0.13	0.12	0.08	0.07	0.06	0.05	
18	0.05	0.09	0.08	0.06	0.06	0.18	0.13	0.12	0.08	0.07	0.05	0.05	
19	0.05	0.09	0.08	0.06	0.07	0.17	0.13	0.12	0.08	0.07	0.05	0.11	
20	0.05	0.09	0.08	0.06	0.07	0.18	0.13	0.12	0.08	0.07	0.05	0.08	
21	0.05	0.09	0.08	0.05	0.08	0.16	0.13	0.11	0.08	0.07	0.05	0.15	
22	0.05	0.09	0.09	0.05	0.08	0.14	0.14	0.11	0.08	0.07	0.05	0.14	
23	0.10	0.09	0.08	0.05	0.13	0.14	0.15	0.11	0.08	0.07	0.05	0.12	
24	0.09	0.09	0.08	0.05	0.10	0.13	0.14	0.11	0.08	0.07	0.05	0.11	
25	0.16	0.10	0.08	0.05	0.08	0.13	0.14	0.10	0.08	0.07	0.05	0.10	
26	0.12	0.09	0.08	0.05	0.08	0.12	0.15	0.10	0.08	0.07	0.05	0.09	
27	0.08	0.09	0.08	0.05	0.08	0.12	0.15	0.10	0.08	0.07	0.06	0.09	
28	0.08	0.08	0.08	0.05	0.10	0.12	0.15	0.10	0.08	0.06	0.06	0.08	
29	0.10	0.08	0.08	0.05	0.16	0.17	0.14	0.10	0.08	0.06		0.08	
30	0.14	0.07	0.08	0.05	0.11	0.15	0.14	0.10	0.08	0.06		0.07	
31		0.07		0.05	0.10		0.19		0.08	0.06		0.23	
Mean	0.08	0.11	0.08	0.08	0.08	0.20	0.17	0.13	0.09	0.07	0.06	0.08	
Max	0.16	0.31	0.11	0.21	0.16	0.85	0.48	0.17	0.10	0.08	0.06	0.23	0.85
Min	0.05	0.06	0.07	0.05	0.05	0.08	0.13	0.10	0.08	0.06	0.05	0.05	0.05

Annual Max Momentary Gage Height	1.20	m. (A.D.) ,	at 14.00 Hours, on Sep 16, 2008			
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	-0.25	m. (A.D.)	
Left Bank Elevation	3.55	m. (A.D.) ,				
Right Bank Elevation	5.80	m. (A.D.) ,	Drainage Are	134	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.80	1.50	0.70	2.00	0.50	1.00	9.35	2.75	1.00	0.80	0.60	0.90		
2	0.80	1.25	0.70	3.95	0.80	0.80	3.25	2.75	1.00	0.80	0.60	0.80		
3	1.75	1.00	0.70	2.00	0.60	0.80	2.50	2.25	1.00	0.80	0.60	0.70		
4	1.50	0.80	0.70	1.75	0.60	3.50	13.05	2.25	1.00	0.80	0.60	0.70		
5	0.70	0.70	0.70	1.00	0.60	7.55	2.50	2.50	1.00	0.80	0.60	0.70		
6	0.70	0.70	0.70	0.80	0.60	1.75	2.50	2.50	1.00	0.80	0.60	0.70		
7	0.70	0.60	0.70	0.80	0.60	3.00	2.00	2.25	0.90	0.80	0.60	0.70		
8	0.70	0.60	0.70	0.80	0.60	2.25	16.90	2.25	0.90	0.80	0.60	0.60		
9	0.70	0.60	0.70	0.80	0.60	2.00	3.50	2.25	0.90	0.80	0.60	0.60		
10	0.60	3.25	0.70	0.80	0.60	2.50	2.25	2.25	0.90	0.80	0.60	0.60		
11	0.60	3.00	1.25	0.80	0.60	35.05	2.00	2.00	0.90	0.70	0.60	0.60		
12	0.60	1.25	1.25	0.80	0.70	10.25	2.00	2.00	0.90	0.70	0.60	0.50		
13	0.60	8.45	1.25	0.80	0.70	3.00	2.00	1.75	0.90	0.70	0.60	0.50		
14	0.60	3.95	0.90	0.80	0.70	2.25	2.00	1.75	0.90	0.70	0.60	0.50		
15	0.60	2.00	1.25	0.70	0.60	1.75	1.75	1.50	0.80	0.70	0.60	0.50		
16	0.60	2.00	0.90	0.60	0.60	40.75	1.75	1.50	0.80	0.70	0.60	0.50		
17	0.50	2.00	0.80	0.60	0.60	7.55	1.75	1.50	0.80	0.70	0.60	0.50		
18	0.50	0.90	0.80	0.60	0.60	3.00	1.75	1.50	0.80	0.70	0.50	0.50		
19	0.50	0.90	0.80	0.60	0.70	2.75	1.75	1.50	0.80	0.70	0.50	1.25		
20	0.50	0.90	0.80	0.60	0.70	3.00	1.75	1.50	0.80	0.70	0.50	0.80		
21	0.50	0.90	0.80	0.50	0.80	2.50	1.75	1.25	0.80	0.70	0.50	2.25		
22	0.50	0.90	0.90	0.50	0.80	2.00	2.00	1.25	0.80	0.70	0.50	2.00		
23	1.00	0.90	0.80	0.50	1.75	2.00	2.25	1.25	0.80	0.70	0.50	1.50		
24	0.90	0.90	0.80	0.50	1.00	1.75	2.00	1.25	0.80	0.70	0.50	1.25		
25	2.50	1.00	0.80	0.50	0.80	1.75	2.00	1.00	0.80	0.70	0.50	1.00		
26	1.50	0.90	0.80	0.50	0.80	1.50	2.25	1.00	0.80	0.70	0.50	0.90		
27	0.80	0.90	0.80	0.50	0.80	1.50	2.25	1.00	0.80	0.70	0.60	0.90		
28	0.80	0.80	0.80	0.50	1.00	1.50	2.25	1.00	0.80	0.60	0.60	0.80		
29	1.00	0.80	0.80	0.50	2.50	2.75	2.00	1.00	0.80	0.60		0.80		
30	2.00	0.70	0.80	0.50	1.25	2.25	2.00	1.00	0.80	0.60		0.70		
31		0.70		0.50	1.00		3.25		0.80	0.60		4.85		
Total	26.05	45.75	25.10	27.10	25.10	154.00	100.30	51.50	26.80	22.30	15.90	30.10	550.00	CMSDAY
Mean	0.87	1.48	0.84	0.87	0.81	5.13	3.24	1.72	0.86	0.72	0.57	0.97	1.51	CMS
Max	2.50	8.45	1.25	3.95	2.50	40.75	16.90	2.75	1.00	0.80	0.60	4.85	40.75	CMS
Min	0.50	0.60	0.70	0.50	0.50	0.80	1.75	1.00	0.80	0.60	0.50	0.50	0.50	CMS
Runoff	2.25	3.95	2.17	2.34	2.17	13.31	8.67	4.45	2.32	1.93	1.37	2.60	47.52	MCM

Momentary Peak 69.00 CMS, at 1.20 m. (A.D.), at 14.00 Hours, on Sep 16, 2008

Runoff Yield 11.25 Liters/Second/Square KM. Momentary Peak Yield 514.93 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	1,745 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+123.340 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank upstream at the footpath **Elevation** +133.740 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2001 to date
Rating Operation	
Period of Rating	2001 to date
Rated by Float	-
Rated by Current Meter	2001 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +129.730 m.(MSL.), records are channel flow only.
General Description	Records very good. Stage-discharge relation defined by 46 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

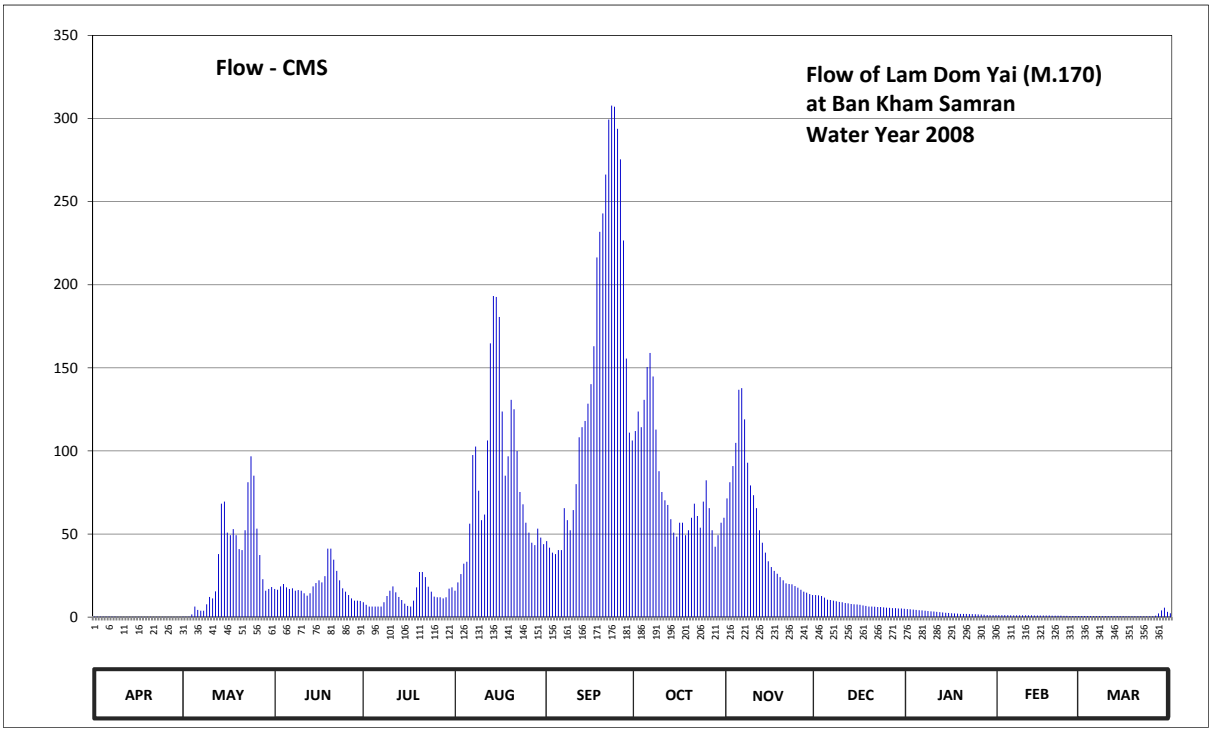
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.79	123.78	124.89	124.49	124.84	126.02	127.79	126.79	124.71	124.25	123.99	123.88	
2	123.79	123.79	124.87	124.40	125.09	125.89	128.04	127.04	124.70	124.24	123.99	123.88	
3	123.79	123.79	124.97	124.34	125.29	125.79	127.84	127.29	124.68	124.23	123.99	123.88	
4	123.78	124.04	125.04	124.34	125.54	125.76	128.19	127.64	124.63	124.22	123.99	123.87	
5	123.78	124.34	124.94	124.34	125.59	125.84	128.59	128.32	124.57	124.21	123.98	123.87	
6	123.78	124.22	124.89	124.34	126.37	125.84	128.74	128.34	124.56	124.20	123.98	123.87	
7	123.78	124.19	124.91	124.34	127.46	126.64	128.49	127.94	124.54	124.19	123.98	123.87	
8	123.78	124.19	124.84	124.49	127.59	126.44	127.81	127.34	124.52	124.18	123.98	123.87	
9	123.77	124.42	124.86	124.68	126.91	126.24	127.21	126.99	124.50	124.17	123.97	123.87	
10	123.77	124.65	124.84	124.84	126.44	126.61	126.89	126.84	124.49	124.16	123.97	123.87	
11	123.77	124.61	124.76	124.97	126.54	127.01	126.76	126.64	124.46	124.15	123.97	123.86	
12	123.77	124.82	124.69	124.79	127.67	127.71	126.69	126.24	124.45	124.14	123.97	123.86	
13	123.77	125.76	124.76	124.65	128.84	127.84	126.46	125.99	124.43	124.13	123.96	123.86	
14	123.77	126.71	124.97	124.56	129.34	127.92	126.19	125.79	124.42	124.12	123.96	123.86	
15	123.77	126.74	125.07	124.44	129.33	128.14	126.11	125.60	124.41	124.11	123.96	123.86	
16	123.77	126.19	125.14	124.36	129.12	128.39	126.39	125.46	124.40	124.10	123.95	123.85	
17	123.76	126.14	125.09	124.34	128.04	128.81	126.39	125.37	124.38	124.09	123.95	123.85	
18	123.76	126.26	125.24	124.54	127.14	129.74	126.14	125.30	124.36	124.08	123.95	123.85	
19	123.76	126.14	125.87	124.94	127.44	129.99	126.24	125.22	124.34	124.07	123.94	123.85	
20	123.76	125.86	125.87	125.34	128.19	130.16	126.49	125.14	124.34	124.07	123.94	123.84	
21	123.76	125.84	125.64	125.34	128.07	130.52	126.71	125.06	124.33	124.07	123.93	123.84	
22	123.76	126.24	125.37	125.22	127.52	131.02	126.52	125.04	124.32	124.06	123.92	123.84	
23	123.76	127.04	125.14	124.96	126.89	131.14	126.29	125.03	124.32	124.06	123.91	123.84	
24	123.76	127.44	124.91	124.81	126.70	131.13	126.74	124.98	124.31	124.05	123.90	123.84	
25	123.76	127.14	124.81	124.66	126.39	130.94	127.07	124.93	124.30	124.04	123.89	123.84	
26	123.76	126.27	124.71	124.64	126.19	130.66	126.64	124.87	124.29	124.03	123.89	123.94	
27	123.76	125.74	124.61	124.64	125.99	129.91	126.24	124.81	124.28	124.02	123.88	124.09	
28	123.76	125.17	124.54	124.61	125.94	128.68	125.91	124.78	124.28	124.01	123.88	124.20	
29	123.77	124.84	124.54	124.64	126.27	127.77	126.14	124.74	124.27	124.00		124.30	
30	123.76	124.89	124.53	124.90	126.09	127.67	126.39	124.71	124.27	124.00		124.15	
31		124.95		124.94	125.96		126.49		124.26	123.99		124.10	
Mean	123.77	125.36	124.98	124.67	126.93	128.21	126.92	126.01	124.42	124.11	123.95	123.91	
Max	123.79	127.44	125.87	125.34	129.34	131.14	128.74	128.34	124.71	124.25	123.99	124.30	131.14
Min	123.76	123.78	124.53	124.34	124.84	125.76	125.91	124.71	124.26	123.99	123.88	123.84	123.76

Annual Max Momentary Gage Height 131.14 m. (MSL.) , at 06.00 Hours, on Sep 23, 2008

Zero Gage at Bottom Elevation 123.34 m. (MSL.) , River Bed 123.00 m. (MSL.) ,

Left Bank Elevation 129.72 m. (MSL.) ,

Right Bank Elevation 130.72 m. (MSL.) , Drainage Are 1,745 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.27	0.24	16.90	8.93	15.90	45.70	111.93	71.41	13.30	4.85	1.12	0.64		
2	0.27	0.27	16.50	7.40	20.90	41.80	123.68	81.16	13.10	4.68	1.12	0.64		
3	0.27	0.27	18.50	6.38	25.85	38.80	114.28	90.91	12.70	4.51	1.12	0.64		
4	0.24	1.62	19.90	6.38	32.10	37.90	130.73	104.88	11.70	4.34	1.12	0.60		
5	0.24	6.38	17.90	6.38	33.35	40.30	150.43	136.84	10.50	4.17	1.07	0.60		
6	0.24	4.34	16.90	6.38	56.20	40.30	158.98	137.78	10.30	4.00	1.07	0.60		
7	0.24	3.83	17.30	6.38	97.54	65.56	144.83	118.98	9.90	3.83	1.07	0.60		
8	0.24	3.83	15.90	8.93	102.61	58.30	112.87	92.86	9.50	3.66	1.07	0.60		
9	0.21	7.74	16.30	12.70	76.09	52.30	87.79	79.21	9.10	3.49	1.03	0.60		
10	0.21	12.10	15.90	15.90	58.30	64.39	75.31	73.36	8.93	3.32	1.03	0.60		
11	0.21	11.30	14.30	18.50	61.66	79.99	70.24	65.56	8.42	3.15	1.03	0.56		
12	0.21	15.50	12.90	14.90	106.29	108.17	67.51	52.30	8.25	2.98	1.03	0.56		
13	0.21	37.90	14.30	12.10	164.68	114.28	58.90	44.80	7.91	2.81	0.99	0.56		
14	0.21	68.29	18.50	10.30	193.18	118.04	50.80	38.80	7.74	2.64	0.99	0.56		
15	0.21	69.46	20.50	8.08	192.61	128.38	48.40	33.60	7.57	2.47	0.99	0.56		
16	0.21	50.80	22.10	6.72	180.64	140.13	56.80	30.10	7.40	2.30	0.95	0.52		
17	0.18	49.30	20.90	6.38	123.68	162.97	56.80	27.85	7.06	2.19	0.95	0.52		
18	0.18	52.90	24.60	9.90	85.06	216.40	49.30	26.10	6.72	2.07	0.95	0.52		
19	0.18	49.30	41.20	17.90	96.76	231.85	52.30	24.10	6.38	1.96	0.90	0.52		
20	0.18	40.90	41.20	27.10	130.73	242.90	59.80	22.10	6.38	1.96	0.90	0.47		
21	0.18	40.30	34.60	27.10	125.09	266.30	68.29	20.30	6.21	1.96	0.86	0.47		
22	0.18	52.30	27.85	24.10	99.88	299.40	60.88	19.90	6.04	1.84	0.82	0.47		
23	0.18	81.16	22.10	18.30	75.31	307.80	53.80	19.70	6.04	1.84	0.77	0.47		
24	0.18	96.76	17.30	15.30	67.90	307.10	69.46	18.70	5.87	1.73	0.73	0.47		
25	0.18	85.06	15.30	12.30	56.80	293.80	82.33	17.70	5.70	1.62	0.69	0.47		
26	0.18	53.20	13.30	11.90	50.80	275.40	65.56	16.50	5.53	1.50	0.69	0.90		
27	0.18	37.30	11.30	11.90	44.80	226.65	52.30	15.30	5.36	1.39	0.64	2.19		
28	0.18	22.85	9.90	11.30	43.30	155.56	42.40	14.70	5.36	1.27	0.64	4.00		
29	0.21	15.90	9.90	11.90	53.20	110.99	49.30	13.90	5.19	1.16		5.70		
30	0.18	16.90	9.70	17.10	47.80	106.29	56.80	13.30	5.19	1.16		3.15		
31		18.10		17.90	43.90		59.80		5.02	1.12		2.30		
Total	6.24	1006.10	573.75	396.74	2562.91	4377.75	2442.60	1522.70	244.37	81.97	26.34	32.06	13273.53	CMSDAY
Mean	0.21	32.45	19.13	12.80	82.67	145.93	78.79	50.76	7.88	2.64	0.94	1.03	36.37	CMS
Max	0.27	96.76	41.20	27.10	193.18	307.80	158.98	137.78	13.30	4.85	1.12	5.70	307.80	CMS
Min	0.18	0.24	9.70	6.38	15.90	37.90	42.40	13.30	5.02	1.12	0.64	0.47	0.18	CMS
Runoff	0.54	86.93	49.57	34.28	221.44	378.24	211.04	131.56	21.11	7.08	2.28	2.77	1146.83	MCM

Momentary Peak 307.80 CMS, at 131.14 m. (MSL.), at 06.00 Hours, on Sep 23, 2008

Runoff Yield 20.84 Liters/Second/Square KM. Momentary Peak Yield 176.39 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	553 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+273.580 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank downstream at the footpath	**Elevation** +281.110 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 mean of 5 readings		
Period of Available Gage Records	2002 to date		
Rating Operation			
Period of Rating	2002 to date		
Rated by Float	-		
Rated by Current Meter	2002 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Stage-discharge relation defined by 34 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

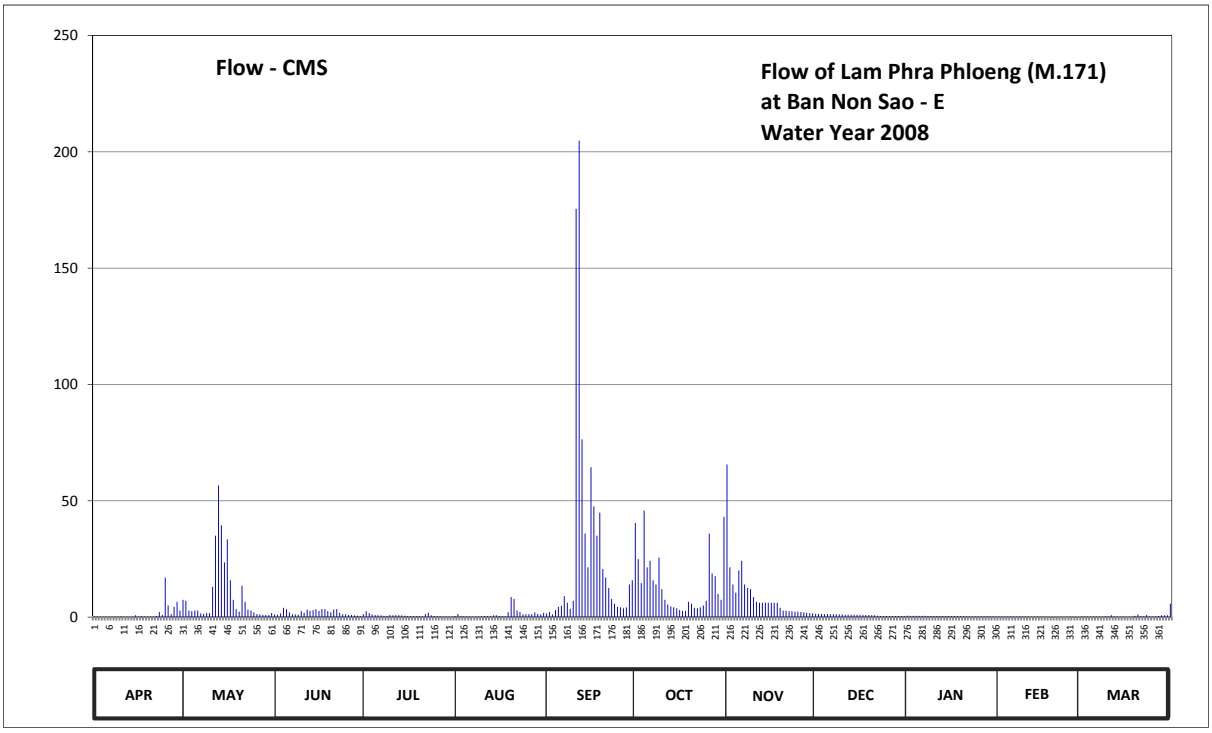
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	273.82	274.26	273.97	273.99	273.88	274.01	274.76	275.03	274.00	273.91	273.79	273.79	
2	273.79	274.25	273.96	274.07	274.00	274.05	274.57	274.52	274.00	273.90	273.78	273.76	
3	273.75	274.09	274.01	274.02	273.86	273.97	274.41	274.40	274.00	273.90	273.78	273.77	
4	273.75	274.07	274.15	273.97	273.83	274.10	274.82	274.33	273.99	273.90	273.78	273.77	
5	273.73	274.09	274.12	273.94	273.81	274.17	274.52	274.50	273.99	273.89	273.78	273.80	
6	273.71	274.09	274.04	273.93	273.78	274.19	274.56	274.56	273.98	273.89	273.78	273.78	
7	273.76	274.01	273.98	273.92	273.76	274.30	274.43	274.40	273.98	273.89	273.77	273.76	
8	273.73	274.00	273.97	273.89	273.77	274.23	274.40	274.37	273.98	273.88	273.77	273.76	
9	273.77	274.02	273.96	273.89	273.78	274.13	274.58	274.36	273.97	273.88	273.77	273.83	
10	273.81	274.02	274.07	273.94	273.83	274.25	274.36	274.29	273.97	273.88	273.77	273.82	
11	273.73	274.38	274.03	273.93	273.87	275.89	274.26	274.24	273.96	273.88	273.77	273.93	
12	273.71	274.70	274.11	273.93	273.86	276.08	274.21	274.23	273.96	273.88	273.76	273.81	
13	273.68	274.94	274.08	273.93	273.84	275.12	274.18	274.23	273.96	273.88	273.76	273.77	
14	273.70	274.75	274.10	273.92	273.92	274.71	274.16	274.23	273.96	273.88	273.77	273.74	
15	273.93	274.55	274.12	273.90	273.93	274.52	274.14	274.23	273.96	273.88	273.76	273.70	
16	273.80	274.68	274.08	273.88	273.88	275.02	274.10	274.23	273.95	273.88	273.73	273.69	
17	273.85	274.43	274.12	273.87	273.85	274.84	274.08	274.23	273.94	273.88	273.69	273.68	
18	273.82	274.26	274.12	273.86	273.83	274.70	274.08	274.23	273.94	273.88	273.69	273.70	
19	273.78	274.12	274.07	273.85	274.04	274.81	274.24	274.15	273.94	273.86	273.68	273.90	
20	273.78	274.06	274.04	273.84	274.29	274.51	274.22	274.09	273.93	273.83	273.68	273.97	
21	273.77	274.39	274.11	273.83	274.27	274.45	274.15	274.08	273.93	273.83	273.68	273.86	
22	273.88	274.24	274.12	273.99	274.09	274.37	274.14	274.07	273.90	273.82	273.68	273.83	
23	274.05	274.11	274.03	274.03	274.05	274.27	274.16	274.07	273.88	273.82	273.68	273.95	
24	273.95	274.09	273.98	273.92	273.98	274.22	274.20	274.06	273.88	273.81	273.67	273.81	
25	274.45	274.04	273.97	273.87	273.98	274.17	274.25	274.06	273.88	273.81	273.74	273.77	
26	274.20	273.99	273.95	273.83	273.98	274.16	274.71	274.05	273.88	273.81	273.76	273.84	
27	273.99	273.97	273.94	273.83	273.98	274.14	274.48	274.04	273.88	273.81	273.68	273.88	
28	274.17	273.95	273.92	273.79	274.04	274.16	274.46	274.03	273.88	273.83	273.68	273.92	
29	274.24	273.94	273.91	273.77	274.00	274.40	274.32	274.02	273.88	273.83		273.92	
30	274.09	273.93	273.90	273.76	273.97	274.43	274.26	274.01	273.88	273.81		273.92	
31		274.02		273.79	274.03		274.79		273.88	273.80		274.22	
Mean	273.87	274.21	274.03	273.90	273.93	274.48	274.35	274.24	273.94	273.86	273.74	273.83	
Max	274.45	274.94	274.15	274.07	274.29	276.08	274.82	275.03	274.00	273.91	273.79	274.22	276.08
Min	273.68	273.93	273.90	273.76	273.76	273.97	274.08	274.01	273.88	273.80	273.67	273.68	273.67

Annual Max Momentary Gage Height 276.88 m. (MSL.) , at 18.00 Hours, on Sep 11, 2008

Zero Gage at Bottom Elevation 273.58 m. (MSL.) , River Bed 273.22 m. (MSL.) ,

Left Bank Elevation 278.37 m. (MSL.) ,

Right Bank Elevation 278.41 m. (MSL.) , Drainage Are 553 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.27	7.40	1.15	1.32	0.48	1.56	40.40	65.60	1.40	0.64	0.19	0.19		
2	0.19	7.00	1.06	2.52	1.40	2.20	24.90	21.40	1.40	0.55	0.18	0.16		
3	0.15	2.84	1.56	1.72	0.41	1.15	14.60	14.00	1.40	0.55	0.18	0.17		
4	0.15	2.52	4.00	1.15	0.31	3.00	45.80	10.50	1.32	0.55	0.18	0.17		
5	0.13	2.84	3.40	0.89	0.24	4.40	21.40	20.00	1.32	0.52	0.18	0.20		
6	0.11	2.84	2.04	0.81	0.18	4.80	24.20	24.20	1.23	0.52	0.18	0.18		
7	0.16	1.56	1.23	0.72	0.16	9.00	15.80	14.00	1.23	0.52	0.17	0.16		
8	0.13	1.40	1.15	0.52	0.17	6.20	14.00	12.50	1.23	0.48	0.17	0.16		
9	0.17	1.72	1.06	0.52	0.18	3.60	25.60	12.00	1.15	0.48	0.17	0.31		
10	0.24	1.72	2.52	0.89	0.31	7.00	12.00	8.60	1.15	0.48	0.17	0.27		
11	0.13	13.00	1.88	0.81	0.45	175.50	7.40	6.60	1.06	0.48	0.17	0.81		
12	0.11	35.00	3.20	0.81	0.41	204.80	5.40	6.20	1.06	0.48	0.16	0.24		
13	0.08	56.60	2.68	0.81	0.34	76.40	4.60	6.20	1.06	0.48	0.16	0.17		
14	0.10	39.50	3.00	0.72	0.72	35.90	4.20	6.20	1.06	0.48	0.17	0.14		
15	0.81	23.50	3.40	0.55	0.81	21.40	3.80	6.20	1.06	0.48	0.16	0.10		
16	0.20	33.40	2.68	0.48	0.48	64.40	3.00	6.20	0.98	0.48	0.13	0.09		
17	0.38	15.80	3.40	0.45	0.38	47.60	2.68	6.20	0.89	0.48	0.09	0.08		
18	0.27	7.40	3.40	0.41	0.31	35.00	2.68	6.20	0.89	0.48	0.09	0.10		
19	0.18	3.40	2.52	0.38	2.04	44.90	6.60	4.00	0.89	0.41	0.08	0.55		
20	0.18	2.36	2.04	0.34	8.60	20.70	5.80	2.84	0.81	0.31	0.08	1.15		
21	0.17	13.50	3.20	0.31	7.80	17.00	4.00	2.68	0.81	0.31	0.08	0.41		
22	0.48	6.60	3.40	1.32	2.84	12.50	3.80	2.52	0.55	0.27	0.08	0.31		
23	2.20	3.20	1.88	1.88	2.20	7.80	4.20	2.52	0.48	0.27	0.08	0.98		
24	0.98	2.84	1.23	0.72	1.23	5.80	5.00	2.36	0.48	0.24	0.07	0.24		
25	17.00	2.04	1.15	0.45	1.23	4.40	7.00	2.36	0.48	0.24	0.14	0.17		
26	5.00	1.32	0.98	0.31	1.23	4.20	35.90	2.20	0.48	0.24	0.16	0.34		
27	1.32	1.15	0.89	0.31	1.23	3.80	18.80	2.04	0.48	0.24	0.08	0.48		
28	4.40	0.98	0.72	0.19	2.04	4.20	17.60	1.88	0.48	0.31	0.08	0.72		
29	6.60	0.89	0.64	0.17	1.40	14.00	10.00	1.72	0.48	0.31		0.72		
30	2.84	0.81	0.55	0.16	1.15	15.80	7.40	1.56	0.48	0.24		0.72		
31		1.72		0.19	1.88		43.10		0.48	0.20		5.80		
Total	45.13	296.85	62.01	22.83	42.61	859.01	441.66	281.48	28.27	12.72	3.83	16.29	2112.69	CMSDAY
Mean	1.50	9.58	2.07	0.74	1.37	28.63	14.25	9.38	0.91	0.41	0.14	0.53	5.79	CMS
Max	17.00	56.60	4.00	2.52	8.60	204.80	45.80	65.60	1.40	0.64	0.19	5.80	204.80	CMS
Min	0.08	0.81	0.55	0.16	0.16	1.15	2.68	1.56	0.48	0.20	0.07	0.08	0.07	CMS
Runoff	3.90	25.65	5.36	1.97	3.68	74.22	38.16	24.32	2.44	1.10	0.33	1.41	182.54	MCM

Momentary Peak 348.40 CMS, at 276.88 m. (MSL.), at 18.00 Hours, on Sep 11, 2008

Runoff Yield 10.47 Liters/Second/Square KM. Momentary Peak Yield 630.02 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Khlong Phai at Ban Non Sao - E, Nakhon Ratchasima (M.172)

Lat 14 - 29 - 14 N Long 101 - 46 - 57 E

Location : on right bank at the bridge.

Ban Non Sao - E **Amphoe** Wang Nam Khieo **Changwat** Nakhon Ratchasima

Drainge Area	143 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+294.170 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank downstream side at the footpath of the bridge. **Elevation** +300.040 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 mean of 5 readings
Period of Available Gage Records	2003 to date
Rating Operation	
Period of Rating	2003 to date
Rated by Float	-
Rated by Current Meter	2003 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +296.210 m.(MSL.), records are channel flow only.
General Description	Records very good. Stage-discharge relation defined by 30 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

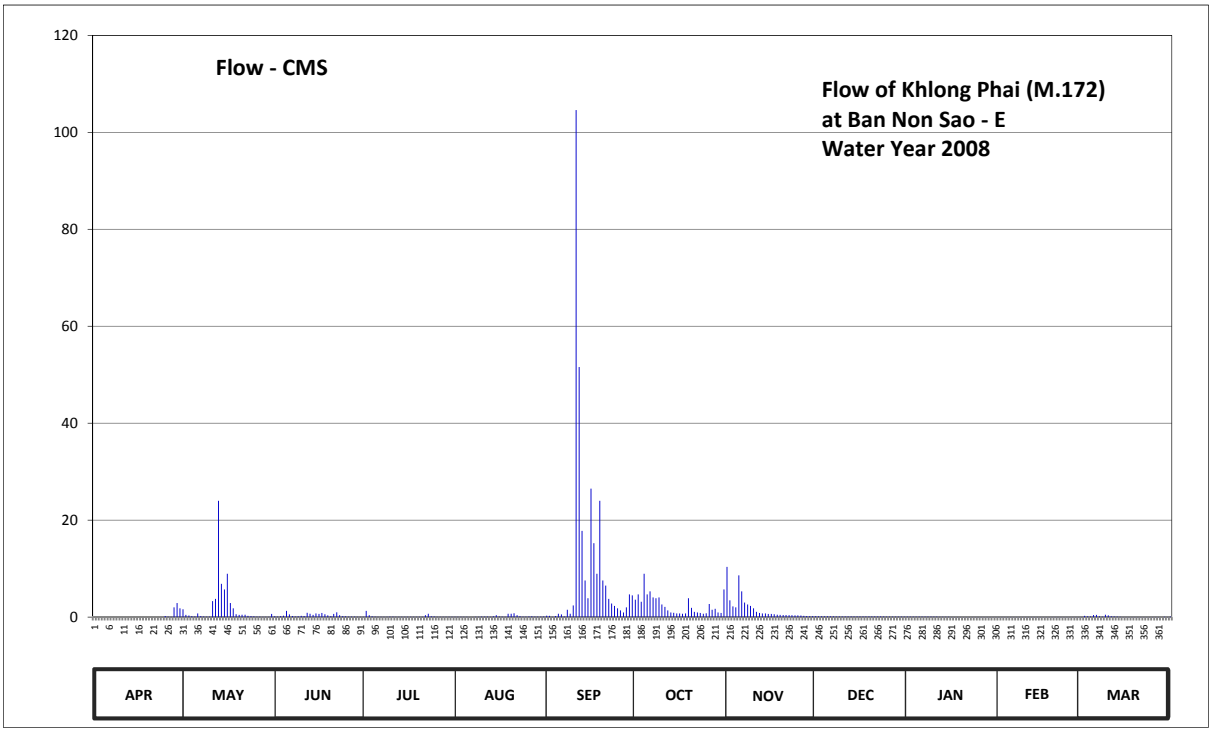
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	293.82	294.56	294.27	294.12	294.15	294.33	294.74	295.01	294.29	294.21	294.00	293.98	
2	293.82	294.39	294.21	294.53	294.14	294.32	294.81	294.73	294.27	294.21	293.99	294.32	
3	293.82	294.34	294.28	294.36	294.12	294.14	294.71	294.62	294.27	294.21	293.99	294.26	
4	293.82	294.28	294.33	294.27	294.11	294.31	294.97	294.60	294.25	294.21	293.99	294.22	
5	293.82	294.23	294.53	294.20	294.09	294.44	294.81	294.96	294.25	294.21	293.99	294.38	
6	293.82	294.45	294.41	294.15	294.07	294.41	294.84	294.84	294.25	294.21	293.99	294.39	
7	293.82	294.28	294.31	294.13	294.04	294.24	294.77	294.70	294.25	294.20	293.98	294.27	
8	293.82	294.24	294.23	294.12	294.08	294.55	294.76	294.66	294.24	294.20	293.98	294.21	
9	293.82	294.20	294.25	294.13	294.16	294.44	294.77	294.63	294.24	294.20	293.98	294.40	
10	293.82	294.18	294.32	294.17	294.18	294.64	294.66	294.58	294.24	294.18	293.98	294.35	
11	293.82	294.72	294.31	294.19	294.18	296.44	294.61	294.51	294.23	294.18	293.98	294.26	
12	293.82	294.75	294.48	294.16	294.19	295.82	294.54	294.47	294.23	294.16	293.98	294.23	
13	293.82	295.36	294.44	294.14	294.15	295.22	294.49	294.45	294.23	294.14	293.98	294.19	
14	293.82	294.91	294.39	294.13	294.26	294.93	294.48	294.45	294.23	294.12	293.98	294.13	
15	293.82	294.86	294.45	294.13	294.37	294.76	294.45	294.43	294.23	294.10	293.98	294.07	
16	293.82	294.97	294.43	294.11	294.24	295.41	294.45	294.43	294.23	294.07	293.98	294.01	
17	293.82	294.69	294.47	294.09	294.19	295.15	294.44	294.42	294.23	294.05	293.98	293.99	
18	293.82	294.58	294.42	294.09	294.14	294.97	294.45	294.40	294.23	294.01	293.98	293.98	
19	293.82	294.42	294.35	294.09	294.44	295.36	294.76	294.39	294.23	294.00	293.98	294.00	
20	293.82	294.39	294.30	294.09	294.44	294.93	294.59	294.38	294.23	294.00	293.98	294.00	
21	293.82	294.40	294.43	294.13	294.46	294.90	294.51	294.38	294.23	294.00	293.98	293.98	
22	293.82	294.40	294.50	294.37	294.36	294.75	294.49	294.37	294.22	294.00	293.98	293.98	
23	293.82	294.32	294.36	294.44	294.30	294.68	294.47	294.36	294.22	294.00	293.98	293.98	
24	293.82	294.30	294.29	294.25	294.19	294.63	294.44	294.35	294.22	294.00	293.98	293.98	
25	294.31	294.26	294.27	294.23	294.19	294.58	294.46	294.35	294.21	294.00	293.98	293.98	
26	294.20	294.20	294.21	294.14	294.22	294.54	294.67	294.34	294.21	294.00	293.99	293.98	
27	294.15	294.18	294.19	294.12	294.26	294.49	294.55	294.32	294.21	294.00	293.98	293.98	
28	294.60	294.16	294.19	294.12	294.19	294.60	294.57	294.31	294.21	294.00	293.98	293.95	
29	294.69	294.14	294.14	294.11	294.19	294.81	294.49	294.29	294.21	294.00		294.09	
30	294.58	294.13	294.12	294.09	294.19	294.80	294.47	294.29	294.21	294.00		294.00	
31		294.43		294.10	294.24		294.86		294.21	294.00		294.17	
Mean	293.94	294.44	294.33	294.18	294.21	294.79	294.62	294.50	294.23	294.09	293.98	294.12	
Max	294.69	295.36	294.53	294.53	294.46	296.44	294.97	295.01	294.29	294.21	294.00	294.40	296.44
Min	293.82	294.13	294.12	294.09	294.04	294.14	294.44	294.29	294.21	294.00	293.98	293.95	293.82

Annual Max Momentary Gage Height 297.47 m. (MSL.) , at 19.00 Hours, on Sep 11, 2008

Zero Gage at Bottom Elevation 294.17 m. (MSL.) , River Bed 293.98 m. (MSL.) ,

Left Bank Elevation 296.44 m. (MSL.) ,

Right Bank Elevation 296.19 m. (MSL.) , Drainage Are 143 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	1.60	0.17	0.06	0.08	0.29	3.60	10.35	0.19	0.11	0.03	0.02		
2	0.00	0.47	0.11	1.30	0.07	0.26	4.70	3.45	0.17	0.11	0.02	0.26		
3	0.00	0.32	0.18	0.38	0.06	0.07	3.15	2.20	0.17	0.11	0.02	0.16		
4	0.00	0.18	0.29	0.17	0.06	0.23	8.95	2.00	0.15	0.11	0.02	0.12		
5	0.00	0.13	1.30	0.10	0.05	0.70	4.70	8.60	0.15	0.11	0.02	0.44		
6	0.00	0.75	0.55	0.08	0.04	0.55	5.30	5.30	0.15	0.11	0.02	0.47		
7	0.00	0.18	0.23	0.07	0.04	0.14	4.05	3.00	0.15	0.10	0.02	0.17		
8	0.00	0.14	0.13	0.06	0.05	1.50	3.90	2.60	0.14	0.10	0.02	0.11		
9	0.00	0.10	0.15	0.07	0.08	0.70	4.05	2.30	0.14	0.10	0.02	0.50		
10	0.00	0.09	0.26	0.09	0.09	2.40	2.60	1.80	0.14	0.09	0.02	0.35		
11	0.00	3.30	0.23	0.10	0.09	104.60	2.10	1.10	0.13	0.09	0.02	0.16		
12	0.00	3.75	0.90	0.08	0.10	51.60	1.40	0.85	0.13	0.08	0.02	0.13		
13	0.00	24.00	0.70	0.07	0.08	17.80	0.95	0.75	0.13	0.07	0.02	0.10		
14	0.00	6.85	0.47	0.07	0.16	7.55	0.90	0.75	0.13	0.06	0.02	0.07		
15	0.00	5.70	0.75	0.07	0.41	3.90	0.75	0.65	0.13	0.05	0.02	0.04		
16	0.00	8.95	0.65	0.06	0.14	26.50	0.75	0.65	0.13	0.04	0.02	0.03		
17	0.00	2.90	0.85	0.05	0.10	15.25	0.70	0.60	0.13	0.04	0.02	0.02		
18	0.00	1.80	0.60	0.05	0.07	8.95	0.75	0.50	0.13	0.03	0.02	0.02		
19	0.00	0.60	0.35	0.05	0.70	24.00	3.90	0.47	0.13	0.03	0.02	0.03		
20	0.00	0.47	0.20	0.05	0.70	7.55	1.90	0.44	0.13	0.03	0.02	0.03		
21	0.00	0.50	0.65	0.07	0.80	6.50	1.10	0.44	0.13	0.03	0.02	0.02		
22	0.00	0.50	1.00	0.41	0.38	3.75	0.95	0.41	0.12	0.03	0.02	0.02		
23	0.00	0.26	0.38	0.70	0.20	2.80	0.85	0.38	0.12	0.03	0.02	0.02		
24	0.00	0.20	0.19	0.15	0.10	2.30	0.70	0.35	0.12	0.03	0.02	0.02		
25	0.23	0.16	0.17	0.13	0.10	1.80	0.80	0.35	0.11	0.03	0.02	0.02		
26	0.10	0.10	0.11	0.07	0.12	1.40	2.70	0.32	0.11	0.03	0.02	0.02		
27	0.08	0.09	0.10	0.06	0.16	0.95	1.50	0.26	0.11	0.03	0.02	0.02		
28	2.00	0.08	0.10	0.06	0.10	2.00	1.70	0.23	0.11	0.03	0.02	0.01		
29	2.90	0.07	0.07	0.06	0.10	4.70	0.95	0.19	0.11	0.03		0.05		
30	1.80	0.07	0.06	0.05	0.10	4.50	0.85	0.19	0.11	0.03		0.03		
31		0.65		0.05	0.14		5.70		0.11	0.03		0.09		
Total	7.11	64.96	11.90	4.84	5.47	305.24	76.90	51.48	4.11	1.90	0.57	3.55	538.03	CMSDAY
Mean	0.24	2.10	0.40	0.16	0.18	10.17	2.48	1.72	0.13	0.06	0.02	0.11	1.47	CMS
Max	2.90	24.00	1.30	1.30	0.80	104.60	8.95	10.35	0.19	0.11	0.03	0.50	104.60	CMS
Min	0.00	0.07	0.06	0.05	0.04	0.07	0.70	0.19	0.11	0.03	0.02	0.01	0.00	CMS
Runoff	0.61	5.61	1.03	0.42	0.47	26.37	6.64	4.45	0.36	0.16	0.05	0.31	46.49	MCM

Momentary Peak 217.40 CMS, at 297.47 m. (MSL.), at 19.00 Hours, on Sep 11, 2008

Runoff Yield 10.31 Liters/Second/Square KM. Momentary Peak Yield 1520.28 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	4,211 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 at the footpath of the bridge.		**Elevation** +9.032 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.0 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Float	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +4.550 m.(A.D.), records are channel flow only.		
General Description	Records very good. Stage-discharge relation defined by 13 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

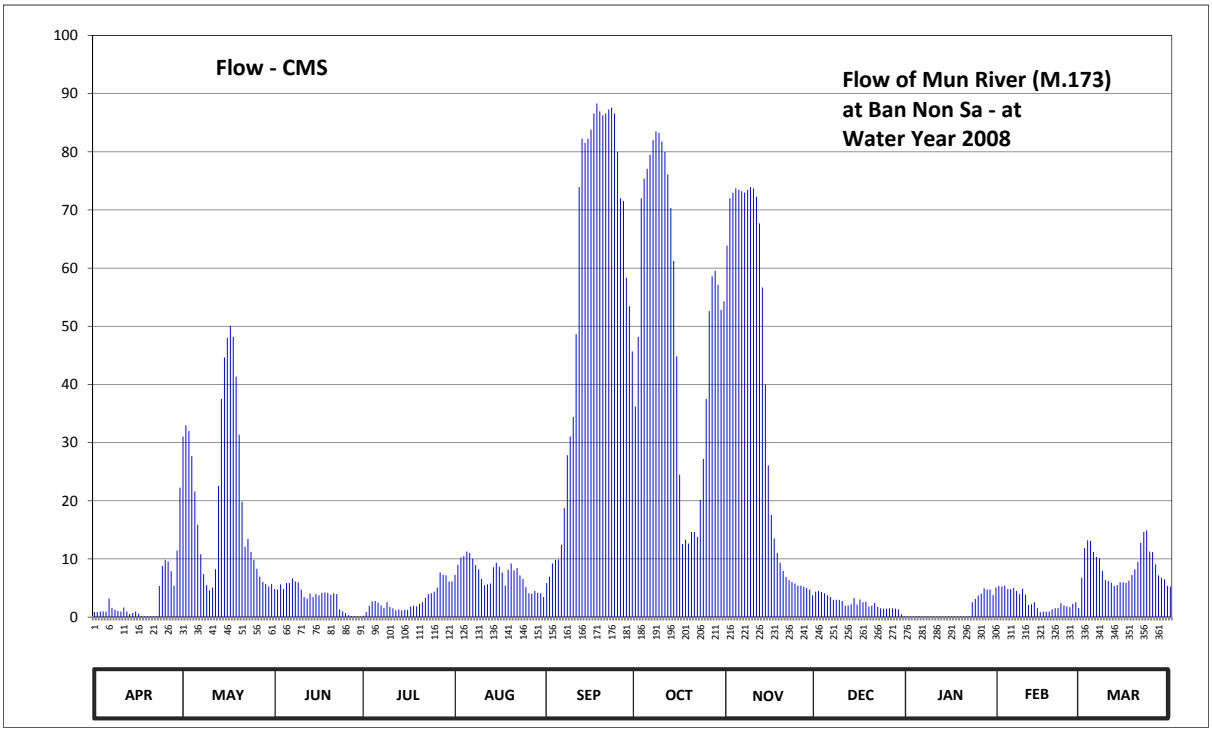
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.47	4.39	2.10	1.31	2.45	2.25	4.70	5.99	2.04	1.20	2.18	2.38	
2	1.47	4.51	2.09	1.47	2.70	2.41	5.30	6.33	2.06	1.20	2.17	3.08	
3	1.49	4.45	2.22	1.69	2.88	2.73	6.33	6.37	2.03	1.20	2.19	3.21	
4	1.50	4.18	2.10	1.80	2.91	2.82	6.47	6.40	2.00	1.22	2.10	3.20	
5	1.49	3.80	2.25	1.81	3.01	2.83	6.54	6.39	1.95	1.21	2.10	3.00	
6	1.87	3.42	2.25	1.77	2.98	3.14	6.64	6.38	1.91	1.19	2.13	2.89	
7	1.62	2.95	2.36	1.70	2.85	3.62	6.74	6.37	1.84	1.19	2.06	2.86	
8	1.55	2.47	2.29	1.62	2.69	4.19	6.80	6.39	1.84	1.19	1.98	2.55	
9	1.51	2.20	2.27	1.78	2.59	4.39	6.79	6.41	1.84	1.18	2.11	2.32	
10	1.49	2.07	2.09	1.65	2.35	4.60	6.73	6.40	1.81	1.19	1.97	2.30	
11	1.63	2.14	1.91	1.60	2.20	5.32	6.66	6.34	1.69	1.18	1.71	2.26	
12	1.49	2.59	1.87	1.53	2.22	6.41	6.50	6.15	1.70	1.17	1.73	2.18	
13	1.39	3.86	1.99	1.56	2.24	6.75	6.26	5.69	1.73	1.17	1.78	2.20	
14	1.43	4.77	1.91	1.53	2.64	6.72	5.88	4.90	1.88	1.19	1.61	2.27	
15	1.49	5.13	1.98	1.55	2.75	6.75	5.14	4.08	1.72	1.19	1.46	2.27	
16	1.40	5.29	1.95	1.55	2.65	6.81	3.98	3.54	1.85	1.20	1.48	2.25	
17	1.30	5.39	2.01	1.66	2.51	6.90	3.15	3.24	1.78	1.20	1.49	2.31	
18	1.21	5.30	2.02	1.69	2.19	6.95	3.22	2.98	1.79	1.20	1.49	2.45	
19	1.17	4.97	2.01	1.67	2.58	6.91	3.16	2.75	1.66	1.20	1.57	2.59	
20	1.17	4.41	1.96	1.74	2.73	6.89	3.33	2.55	1.69	1.19	1.61	2.77	
21	1.17	3.69	2.00	1.78	2.56	6.90	3.33	2.40	1.76	1.20	1.61	3.17	
22	1.21	3.11	1.98	1.89	2.62	6.92	3.26	2.32	1.65	1.20	1.76	3.33	
23	2.18	3.23	1.57	1.98	2.44	6.93	3.71	2.28	1.60	1.78	1.70	3.35	
24	2.67	3.00	1.50	2.00	2.35	6.90	4.15	2.24	1.59	1.86	1.67	3.01	
25	2.82	2.82	1.42	2.04	2.15	6.66	4.77	2.19	1.59	1.94	1.64	3.00	
26	2.78	2.60	1.33	2.14	2.00	6.33	5.51	2.19	1.60	1.99	1.74	2.71	
27	2.54	2.41	1.27	2.51	1.99	6.31	5.77	2.16	1.60	2.12	1.78	2.44	
28	2.19	2.28	1.22	2.45	2.06	5.76	5.81	2.13	1.59	2.09	1.61	2.38	
29	3.03	2.23	1.19	2.44	2.01	5.55	5.71	2.09	1.57	2.09		2.34	
30	3.84	2.17	1.18	2.29	2.00	5.18	5.52	1.95	1.37	1.96		2.18	
31		2.23		2.29	1.91		5.59		1.22	2.14		2.16	
Mean	1.79	3.49	1.88	1.82	2.46	5.43	5.27	4.25	1.74	1.43	1.80	2.63	
Max	3.84	5.39	2.36	2.51	3.01	6.95	6.80	6.41	2.06	2.14	2.19	3.35	6.95
Min	1.17	2.07	1.18	1.31	1.91	2.25	3.15	1.95	1.22	1.17	1.46	2.16	1.17

Annual Max Momentary Gage Height 7.00 m. (A.D.) , at 18.00 Hours, on Sep 18, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 1.14 m. (A.D.)

Left Bank Elevation 4.54 m. (A.D.) ,

Right Bank Elevation 6.11 m. (A.D.) , Drainage Are 4,211 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.88	31.04	4.80	0.24	7.25	5.85	36.20	63.86	4.38	0.12	5.36	6.76		
2	0.88	32.96	4.73	0.88	9.00	6.97	48.20	72.02	4.52	0.12	5.29	11.84		
3	0.96	32.00	5.64	1.95	10.26	9.21	72.02	72.98	4.31	0.12	5.43	13.21		
4	1.00	27.68	4.80	2.70	10.48	9.84	75.38	73.70	4.10	0.14	4.80	13.10		
5	0.96	21.60	5.85	2.77	11.28	9.91	77.06	73.46	3.75	0.13	4.80	11.20		
6	3.19	15.88	5.85	2.49	11.04	12.44	79.50	73.22	3.47	0.12	5.01	10.33		
7	1.60	10.80	6.62	2.00	10.05	18.72	82.00	72.98	2.98	0.12	4.52	10.12		
8	1.25	7.39	6.13	1.60	8.93	27.84	83.50	73.46	2.98	0.12	3.96	7.95		
9	1.05	5.50	5.99	2.56	8.23	31.04	83.25	73.94	2.98	0.11	4.87	6.34		
10	0.96	4.59	4.73	1.75	6.55	34.40	81.75	73.70	2.77	0.12	3.89	6.20		
11	1.65	5.08	3.47	1.50	5.50	48.62	80.00	72.26	1.95	0.11	2.07	5.92		
12	0.96	8.23	3.19	1.15	5.64	73.94	76.10	67.70	2.00	0.11	2.21	5.36		
13	0.56	22.56	4.03	1.30	5.78	82.25	70.34	56.66	2.21	0.11	2.56	5.50		
14	0.72	37.53	3.47	1.15	8.58	81.50	61.22	40.00	3.26	0.12	1.55	5.99		
15	0.96	44.63	3.96	1.25	9.35	82.25	44.84	26.08	2.14	0.12	0.84	5.99		
16	0.60	47.99	3.75	1.25	8.65	83.81	24.48	17.56	3.05	0.12	0.92	5.85		
17	0.20	50.09	4.17	1.80	7.67	86.60	12.55	13.54	2.56	0.12	0.96	6.27		
18	0.13	48.20	4.24	1.95	5.43	88.30	13.32	11.04	2.63	0.12	0.96	7.25		
19	0.11	41.33	4.17	1.85	8.16	86.94	12.66	9.35	1.80	0.12	1.35	8.23		
20	0.11	31.36	3.82	2.28	9.21	86.29	14.62	7.95	1.95	0.12	1.55	9.49		
21	0.11	19.84	4.10	2.56	8.02	86.60	14.62	6.90	2.42	0.12	1.55	12.77		
22	0.13	12.11	3.96	3.33	8.44	87.28	13.76	6.34	1.75	0.12	2.42	14.62		
23	5.36	13.43	1.35	3.96	7.18	87.62	20.16	6.06	1.50	2.56	2.00	14.90		
24	8.79	11.20	1.00	4.10	6.55	86.60	27.20	5.78	1.45	3.12	1.85	11.28		
25	9.84	9.84	0.68	4.38	5.15	80.00	37.53	5.43	1.45	3.68	1.70	11.20		
26	9.56	8.30	0.32	5.08	4.10	72.02	52.61	5.43	1.50	4.03	2.28	9.07		
27	7.88	6.97	0.18	7.67	4.03	71.54	58.58	5.22	1.50	4.94	2.56	7.18		
28	5.43	6.06	0.14	7.25	4.52	58.34	59.54	5.01	1.45	4.73	1.55	6.76		
29	11.44	5.71	0.12	7.18	4.17	53.45	57.14	4.73	1.35	4.73		6.48		
30	22.24	5.29	0.11	6.13	4.10	45.68	52.82	3.75	0.48	3.82		5.36		
31		5.71		6.13	3.47		54.29		0.14	5.08		5.22		
Total	99.51	630.90	105.37	92.19	226.77	1695.85	1577.24	1100.11	74.78	39.32	78.81	267.74	5988.59	CMSDAY
Mean	3.32	20.35	3.51	2.97	7.32	56.53	50.88	36.67	2.41	1.27	2.81	8.64	16.41	CMS
Max	22.24	50.09	6.62	7.67	11.28	88.30	83.50	73.94	4.52	5.08	5.43	14.90	88.30	CMS
Min	0.11	4.59	0.11	0.24	3.47	5.85	12.55	3.75	0.14	0.11	0.84	5.22	0.11	CMS
Runoff	8.60	54.51	9.10	7.97	19.59	146.52	136.27	95.05	6.46	3.40	6.81	23.13	517.41	MCM

Momentary Peak 90.00 CMS, at 7.00 m. (A.D.), at 18.00 Hours, on Sep 18, 2008

Runoff Yield 3.90 Liters/Second/Square KM. Momentary Peak Yield 21.37 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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** +124.130 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 mean of 3 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Float	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +119.490 m.(MSL.), records are channel flow only.		
General Description	Records very good. Stage-discharge relation defined by 35 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

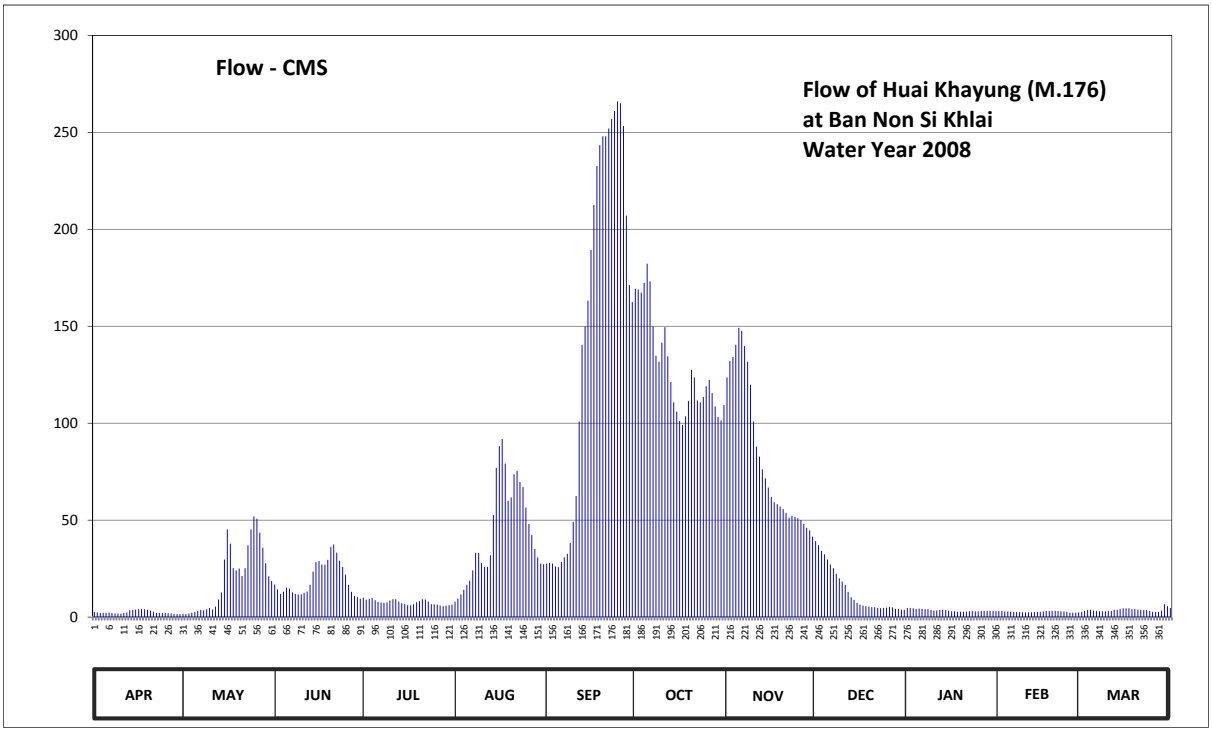
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	110.87	110.77	112.22	111.60	111.40	112.89	117.64	116.39	113.46	111.07	110.91	110.87	
2	110.84	110.76	112.03	111.50	111.55	112.91	117.63	116.63	113.36	111.08	110.91	110.91	
3	110.81	110.78	111.79	111.54	111.76	112.89	117.59	116.69	113.22	111.05	110.89	110.97	
4	110.82	110.83	111.91	111.59	112.01	112.80	117.72	116.87	113.14	111.03	110.89	110.96	
5	110.82	110.86	112.11	111.47	112.21	112.78	117.98	117.11	113.01	111.04	110.88	110.94	
6	110.83	110.91	112.06	111.38	112.35	112.94	117.74	117.07	112.86	111.02	110.86	110.92	
7	110.81	110.97	111.88	111.35	112.68	113.06	117.13	116.85	112.75	111.00	110.86	110.90	
8	110.78	110.95	111.79	111.34	113.17	113.15	116.71	116.62	112.58	111.00	110.86	110.90	
9	110.78	111.00	111.77	111.36	113.17	113.42	116.62	116.28	112.43	110.97	110.85	110.90	
10	110.78	111.07	111.77	111.46	112.91	113.86	116.90	115.73	112.32	110.94	110.85	110.92	
11	110.81	110.99	111.85	111.52	112.79	114.40	117.12	115.33	112.20	110.95	110.85	110.91	
12	110.84	111.14	111.91	111.52	112.79	115.73	116.70	115.16	111.90	110.97	110.85	110.98	
13	110.95	111.51	112.21	111.40	113.11	116.87	116.32	114.93	111.62	110.97	110.86	110.98	
14	110.97	111.87	112.65	111.32	114.01	117.13	116.02	114.75	111.48	110.97	110.87	111.01	
15	110.99	113.01	112.93	111.27	114.96	117.48	115.88	114.57	111.33	110.93	110.87	111.05	
16	111.01	113.71	112.97	111.21	115.34	118.16	115.74	114.38	111.24	110.90	110.89	111.05	
17	111.01	113.40	112.86	111.20	115.46	118.74	115.68	114.27	111.19	110.90	110.91	111.05	
18	111.00	112.75	112.85	111.27	115.04	119.24	115.81	114.23	111.16	110.88	110.91	111.00	
19	110.98	112.68	113.00	111.37	114.30	119.51	116.04	114.18	111.14	110.88	110.92	111.01	
20	110.93	112.74	113.32	111.42	114.37	119.61	116.50	114.13	111.11	110.88	110.92	110.99	
21	110.88	112.51	113.38	111.52	114.83	119.61	116.39	114.05	111.11	110.89	110.91	110.98	
22	110.82	112.75	113.18	111.51	114.90	119.70	116.05	113.95	111.08	110.90	110.90	110.97	
23	110.82	113.36	112.98	111.40	114.68	119.81	116.02	113.99	111.06	110.91	110.89	110.96	
24	110.81	113.71	112.79	111.27	114.58	119.90	116.10	113.97	111.07	110.90	110.87	110.91	
25	110.81	113.98	112.55	111.26	114.16	120.01	116.26	113.94	111.09	110.90	110.83	110.87	
26	110.80	113.93	112.21	111.24	113.82	119.99	116.35	113.90	111.13	110.92	110.83	110.86	
27	110.78	113.64	111.90	111.20	113.59	119.73	116.16	113.82	111.10	110.92	110.83	110.86	
28	110.76	113.30	111.69	111.16	113.27	118.60	115.96	113.74	111.03	110.92	110.85	110.94	
29	110.76	112.90	111.63	111.19	113.06	117.69	115.80	113.69	111.02	110.92		111.27	
30	110.76	112.50	111.55	111.21	112.89	117.46	115.75	113.56	110.99	110.92		111.16	
31		112.34		111.24	112.87		115.98		110.98	110.91		111.07	
Mean	110.85	112.18	112.32	111.36	113.48	116.67	116.53	115.03	111.78	110.95	110.88	110.97	
Max	111.01	113.98	113.38	111.60	115.46	120.01	117.98	117.11	113.46	111.08	110.92	111.27	120.01
Min	110.76	110.76	111.55	111.16	111.40	112.78	115.68	113.56	110.98	110.88	110.83	110.86	110.76

Annual Max Momentary Gage Height 120.02 m. (MSL.) , at 12.00 Hours, on Sep 25, 2008

Zero Gage at Bottom Elevation 110.21 m. (MSL.) , River Bed 109.95 m. (MSL.) ,

Left Bank Elevation 121.22 m. (MSL.) ,

Right Bank Elevation 119.48 m. (MSL.) , Drainage Are 3,131 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.70	1.70	16.80	10.00	8.00	27.63	169.32	123.65	39.16	4.70	3.10	2.70		
2	2.40	1.60	14.30	9.00	9.50	27.97	168.94	132.05	37.06	4.80	3.10	3.10		
3	2.10	1.80	11.90	9.40	11.60	27.63	167.42	134.15	34.12	4.50	2.90	3.70		
4	2.20	2.30	13.10	9.90	14.10	26.10	172.36	140.45	32.44	4.30	2.90	3.60		
5	2.20	2.60	15.15	8.70	16.65	25.76	182.24	149.18	29.71	4.40	2.80	3.40		
6	2.30	3.10	14.60	7.80	18.75	28.48	173.12	147.66	27.12	4.20	2.60	3.20		
7	2.10	3.70	12.80	7.50	24.06	30.76	149.94	139.75	25.25	4.00	2.60	3.00		
8	1.80	3.50	11.90	7.40	33.07	32.65	134.85	131.70	22.36	4.00	2.60	3.00		
9	1.80	4.00	11.70	7.60	33.07	38.32	131.70	119.80	19.95	3.70	2.50	3.00		
10	1.80	4.70	11.70	8.60	27.97	49.00	141.50	100.82	18.30	3.40	2.50	3.20		
11	2.10	3.90	12.50	9.20	25.93	62.50	149.56	87.90	16.50	3.50	2.50	3.10		
12	2.40	5.40	13.10	9.20	25.93	100.82	134.50	82.80	13.00	3.70	2.50	3.80		
13	3.50	9.10	16.65	8.00	31.81	140.45	121.20	76.18	10.20	3.70	2.60	3.80		
14	3.70	12.70	23.55	7.20	52.75	149.94	110.70	71.50	8.80	3.70	2.70	4.10		
15	3.90	29.71	28.31	6.70	76.96	163.24	105.92	66.82	7.30	3.30	2.70	4.50		
16	4.10	45.25	28.99	6.10	88.20	189.40	101.16	62.00	6.40	3.00	2.90	4.50		
17	4.10	37.90	27.12	6.00	91.80	212.60	99.12	59.25	5.90	3.00	3.10	4.50		
18	4.00	25.25	26.95	6.70	79.20	232.60	103.54	58.25	5.60	2.80	3.10	4.00		
19	3.80	24.06	29.50	7.70	60.00	243.45	111.40	57.00	5.40	2.80	3.20	4.10		
20	3.30	25.08	36.22	8.20	61.75	247.95	127.50	55.75	5.10	2.80	3.20	3.90		
21	2.80	21.17	37.48	9.20	73.58	247.95	123.65	53.75	5.10	2.90	3.10	3.80		
22	2.20	25.25	33.28	9.10	75.40	252.00	111.75	51.25	4.80	3.00	3.00	3.70		
23	2.20	37.06	29.16	8.00	69.68	256.95	110.70	52.25	4.60	3.10	2.90	3.60		
24	2.10	45.25	25.93	6.70	67.08	261.00	113.50	51.75	4.70	3.00	2.70	3.10		
25	2.10	52.00	21.85	6.60	56.50	265.95	119.10	51.00	4.90	3.00	2.30	2.70		
26	2.00	50.75	16.65	6.40	48.00	265.05	122.25	50.00	5.30	3.20	2.30	2.60		
27	1.80	43.50	13.00	6.00	42.25	253.35	115.60	48.00	5.00	3.20	2.30	2.60		
28	1.60	35.80	10.90	5.60	35.17	207.00	108.64	46.00	4.30	3.20	2.50	3.40		
29	1.60	27.80	10.30	5.90	30.76	171.22	103.20	44.75	4.20	3.20		6.70		
30	1.60	21.00	9.50	6.10	27.63	162.48	101.50	41.50	3.90	3.20		5.60		
31		18.60		6.40	27.29		109.32		3.80	3.10		4.70		
Total	76.30	625.53	584.89	236.90	1344.44	4400.20	3995.20	2486.91	420.27	108.40	77.20	114.70	14470.94	CMSDAY
Mean	2.54	20.18	19.50	7.64	43.37	146.67	128.88	82.90	13.56	3.50	2.76	3.70	39.65	CMS
Max	4.10	52.00	37.48	10.00	91.80	265.95	182.24	149.18	39.16	4.80	3.20	6.70	265.95	CMS
Min	1.60	1.60	9.50	5.60	8.00	25.76	99.12	41.50	3.80	2.80	2.30	2.60	1.60	CMS
Runoff	6.59	54.05	50.53	20.47	116.16	380.18	345.19	214.87	36.31	9.37	6.67	9.91	1250.29	MCM

Momentary Peak 266.40 CMS, at 120.02 m. (MSL.), at 12.00 Hours, on Sep 25, 2008

Runoff Yield 12.66 Liters/Second/Square KM. Momentary Peak Yield 85.08 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Lam Ta Khong at Ban Lat Bua Khaow, Nakhon Ratchasima (M.177)

Lat 14 - 50 - 57 N Long 101 - 37 - 12 E

Location : on right bank at the bridge.

Ban Lat Bua Khaow **Amphoe** Si Khiu **Changwat** Nakhon Ratchasima

Drainge Area	1,519 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+236.700 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank at the footpath of the bridge. **Elevation** +243.940 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.0 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2002 to date
Rating Operation	
Period of Rating	2002 to date
Rated by Float	-
Rated by Current Meter	2002 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 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

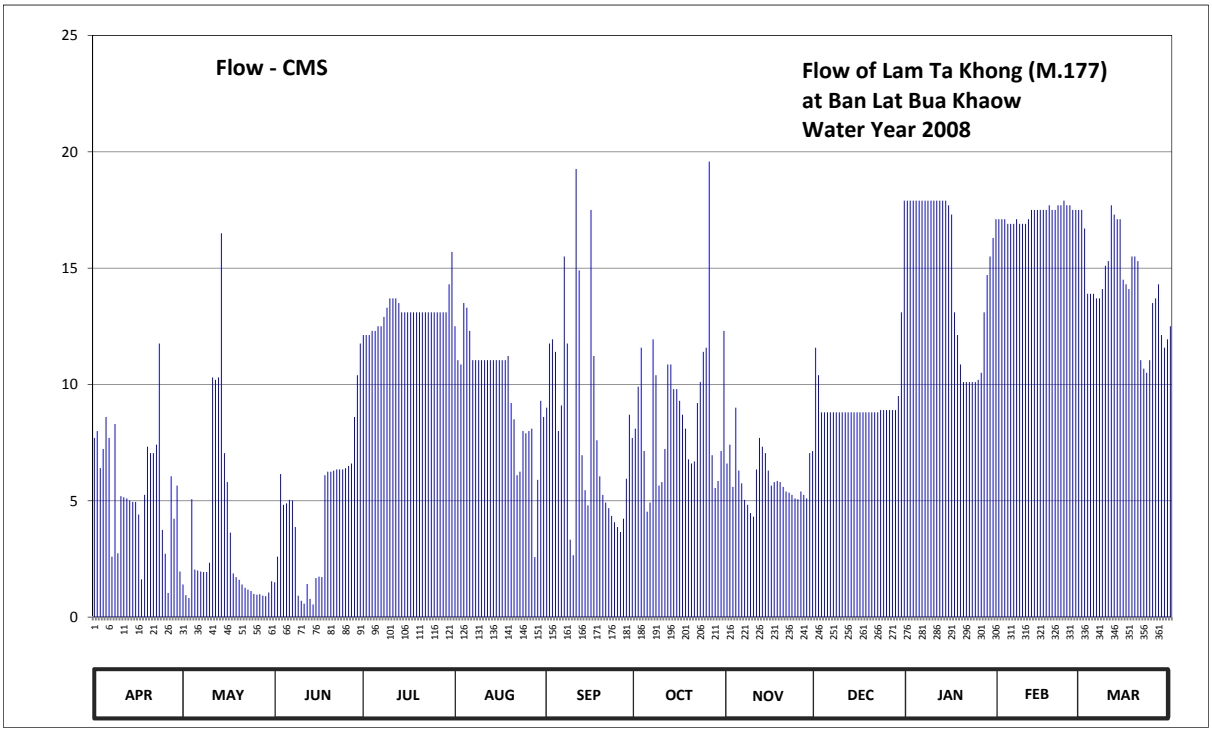
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	239.22	237.30	237.35	239.59	239.61	239.35	239.26	239.10	239.56	239.88	239.84	239.86	
2	239.25	237.07	237.90	239.59	239.53	239.57	239.44	239.19	239.49	239.88	239.84	239.82	
3	239.06	237.01	239.01	239.59	239.52	239.58	239.56	238.90	239.33	239.88	239.84	239.68	
4	239.17	238.79	238.71	239.60	239.66	239.55	239.16	239.35	239.33	239.88	239.83	239.68	
5	239.31	237.62	238.73	239.60	239.65	239.25	238.61	239.04	239.33	239.88	239.83	239.68	
6	239.22	237.60	238.78	239.61	239.60	239.36	238.74	238.93	239.33	239.88	239.83	239.67	
7	237.90	237.58	238.77	239.61	239.53	239.76	239.58	238.78	239.33	239.88	239.84	239.67	
8	239.28	237.57	238.39	239.63	239.53	239.57	239.49	238.71	239.33	239.88	239.83	239.69	
9	237.97	237.57	237.06	239.65	239.53	238.21	238.91	238.59	239.33	239.88	239.83	239.74	
10	238.82	237.77	236.95	239.67	239.53	237.93	238.94	238.54	239.33	239.88	239.83	239.75	
11	238.81	239.48	236.89	239.67	239.53	239.93	239.17	239.05	239.33	239.88	239.84	239.87	
12	238.80	239.47	237.31	239.67	239.53	239.73	239.52	239.22	239.33	239.88	239.86	239.85	
13	238.77	239.48	236.99	239.66	239.53	239.14	239.52	239.18	239.33	239.88	239.86	239.84	
14	238.75	239.81	236.87	239.64	239.53	238.87	239.43	239.15	239.33	239.88	239.86	239.84	
15	238.75	239.15	237.44	239.64	239.53	238.70	239.43	239.04	239.33	239.87	239.86	239.71	
16	238.57	238.94	237.47	239.64	239.53	239.86	239.38	238.91	239.33	239.85	239.86	239.70	
17	237.41	238.31	237.46	239.64	239.53	239.54	239.32	238.94	239.33	239.64	239.86	239.69	
18	238.83	237.54	239.00	239.64	239.53	239.21	239.26	238.95	239.33	239.59	239.87	239.76	
19	239.18	237.46	239.03	239.64	239.54	238.99	239.12	238.94	239.33	239.52	239.86	239.76	
20	239.15	237.40	239.03	239.64	239.37	238.83	239.10	238.90	239.33	239.46	239.86	239.75	
21	239.15	237.30	239.04	239.64	239.30	238.74	239.11	238.86	239.33	239.46	239.87	239.53	
22	239.19	237.23	239.05	239.64	239.00	238.66	239.37	238.85	239.33	239.46	239.87	239.51	
23	239.57	237.19	239.05	239.64	239.03	238.55	239.46	238.83	239.34	239.46	239.88	239.50	
24	238.35	237.16	239.05	239.64	239.25	238.46	239.55	238.80	239.34	239.46	239.87	239.53	
25	237.96	237.10	239.06	239.64	239.24	238.39	239.56	238.79	239.34	239.47	239.87	239.66	
26	237.12	237.08	239.08	239.64	239.25	238.32	239.94	238.86	239.34	239.50	239.86	239.67	
27	238.99	237.09	239.10	239.64	239.26	238.51	239.14	238.83	239.34	239.64	239.86	239.70	
28	238.51	237.06	239.31	239.64	237.89	238.97	238.89	238.80	239.34	239.72	239.86	239.59	
29	238.91	237.05	239.49	239.64	238.96	239.32	238.95	239.15	239.40	239.76		239.56	
30	237.58	237.13	239.57	239.70	239.38	239.22	239.16	239.16	239.64	239.80		239.58	
31		237.37		239.77	239.31		239.60		239.88	239.84		239.61	
Mean	238.72	237.80	238.36	239.64	239.38	239.07	239.28	238.94	239.37	239.74	239.85	239.69	
Max	239.57	239.81	239.57	239.77	239.66	239.93	239.94	239.35	239.88	239.88	239.88	239.87	239.94
Min	237.12	237.01	236.87	239.59	237.89	237.93	238.61	238.54	239.33	239.46	239.83	239.50	236.87

Annual Max Momentary Gage Height 240.35 m. (MSL.) , at 18.00 Hours, on Sep 16, 2008

Zero Gage at Bottom Elevation 236.70 m. (MSL.) , River Bed 237.45 m. (MSL.) ,

Left Bank Elevation 243.80 m. (MSL.) ,

Right Bank Elevation 243.33 m. (MSL.) , Drainage Are 1,519 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.70	1.40	1.50	12.12	12.50	9.00	8.10	6.60	11.58	17.90	17.10	17.50		
2	8.00	0.94	2.60	12.12	11.04	11.76	9.90	7.41	10.40	17.90	17.10	16.70		
3	6.40	0.82	6.15	12.12	10.86	11.94	11.58	5.60	8.80	17.90	17.10	13.90		
4	7.23	5.07	4.83	12.30	13.50	11.40	7.14	9.00	8.80	17.90	16.90	13.90		
5	8.60	2.04	4.89	12.30	13.30	8.00	4.53	6.30	8.80	17.90	16.90	13.90		
6	7.70	2.00	5.04	12.50	12.30	9.10	4.92	5.75	8.80	17.90	16.90	13.70		
7	2.60	1.96	5.01	12.50	11.04	15.50	11.94	5.04	8.80	17.90	17.10	13.70		
8	8.30	1.94	3.87	12.90	11.04	11.76	10.40	4.83	8.80	17.90	16.90	14.10		
9	2.74	1.94	0.92	13.30	11.04	3.33	5.65	4.47	8.80	17.90	16.90	15.10		
10	5.20	2.34	0.70	13.70	11.04	2.66	5.80	4.32	8.80	17.90	16.90	15.30		
11	5.15	10.30	0.58	13.70	11.04	19.26	7.23	6.35	8.80	17.90	17.10	17.70		
12	5.10	10.20	1.42	13.70	11.04	14.90	10.86	7.70	8.80	17.90	17.50	17.30		
13	5.01	10.30	0.78	13.50	11.04	6.96	10.86	7.32	8.80	17.90	17.50	17.10		
14	4.95	16.50	0.54	13.10	11.04	5.45	9.80	7.05	8.80	17.90	17.50	17.10		
15	4.95	7.05	1.68	13.10	11.04	4.80	9.80	6.30	8.80	17.70	17.50	14.50		
16	4.41	5.80	1.74	13.10	11.04	17.50	9.30	5.65	8.80	17.30	17.50	14.30		
17	1.62	3.63	1.72	13.10	11.04	11.22	8.70	5.80	8.80	13.10	17.50	14.10		
18	5.25	1.88	6.10	13.10	11.04	7.60	8.10	5.85	8.80	12.12	17.70	15.50		
19	7.32	1.72	6.25	13.10	11.22	6.05	6.78	5.80	8.80	10.86	17.50	15.50		
20	7.05	1.60	6.25	13.10	9.20	5.25	6.60	5.60	8.80	10.10	17.50	15.30		
21	7.05	1.40	6.30	13.10	8.50	4.92	6.69	5.40	8.80	10.10	17.70	11.04		
22	7.41	1.26	6.35	13.10	6.10	4.68	9.20	5.35	8.80	10.10	17.70	10.68		
23	11.76	1.18	6.35	13.10	6.25	4.35	10.10	5.25	8.90	10.10	17.90	10.50		
24	3.75	1.12	6.35	13.10	8.00	4.08	11.40	5.10	8.90	10.10	17.70	11.04		
25	2.72	1.00	6.40	13.10	7.90	3.87	11.58	5.07	8.90	10.20	17.70	13.50		
26	1.04	0.96	6.50	13.10	8.00	3.66	19.58	5.40	8.90	10.50	17.50	13.70		
27	6.05	0.98	6.60	13.10	8.10	4.23	6.96	5.25	8.90	13.10	17.50	14.30		
28	4.23	0.92	8.60	13.10	2.58	5.95	5.55	5.10	8.90	14.70	17.50	12.12		
29	5.65	0.90	10.40	13.10	5.90	8.70	5.85	7.05	9.50	15.50		11.58		
30	1.96	1.06	11.76	14.30	9.30	7.70	7.14	7.14	13.10	16.30		11.94		
31		1.54		15.70	8.60		12.30		17.90	17.10		12.50		
Total	166.90	101.75	138.18	406.36	305.63	245.58	274.34	178.85	291.88	469.58	485.80	439.10	3503.95	CMSDAY
Mean	5.56	3.28	4.61	13.11	9.86	8.19	8.85	5.96	9.42	15.15	17.35	14.16	9.60	CMS
Max	11.76	16.50	11.76	15.70	13.50	19.26	19.58	9.00	17.90	17.90	17.90	17.70	19.58	CMS
Min	1.04	0.82	0.54	12.12	2.58	2.66	4.53	4.32	8.80	10.10	16.90	10.50	0.54	CMS
Runoff	14.42	8.79	11.94	35.11	26.41	21.22	23.70	15.45	25.22	40.57	41.97	37.94	302.74	MCM

Momentary Peak 36.75 CMS, at 240.35 m. (MSL.), at 18.00 Hours, on Sep 16, 2008

Runoff Yield 6.32 Liters/Second/Square KM. Momentary Peak Yield 24.19 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +120.090 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 mean of 5 readings
Period of Available Gage Records	2003 to date
Rating Operation	
Period of Rating	2003 to date
Rated by Float	-
Rated by Current Meter	2003 to date
Stability of Channel Regimes	Stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

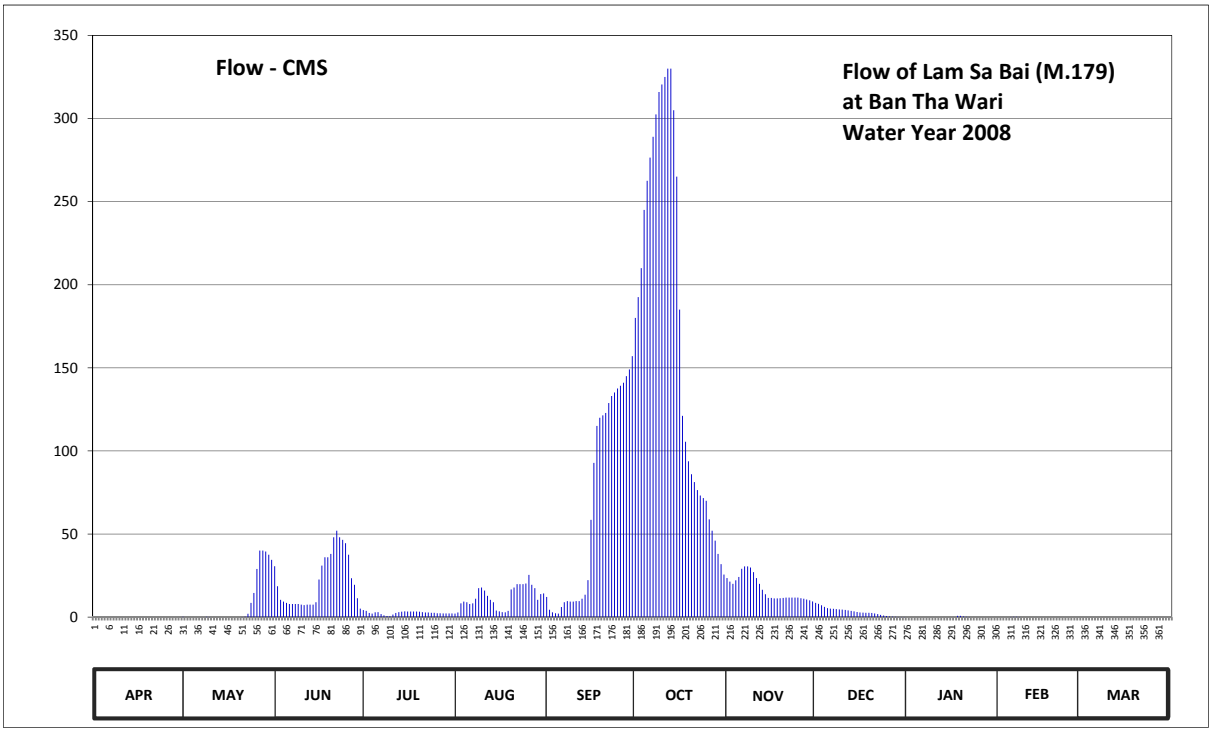
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	108.23	108.34	109.54	108.80	108.62	109.06	113.08	112.75	112.16	108.31	108.19	108.16	
2	108.24	108.30	109.24	108.76	108.68	108.81	113.13	112.72	112.10	108.31	108.19	108.16	
3	108.24	108.28	109.01	108.65	108.95	108.69	113.20	112.70	112.01	108.30	108.18	108.15	
4	108.23	108.25	108.98	108.62	108.98	108.64	113.30	112.73	111.92	108.30	108.24	108.14	
5	108.23	108.22	108.96	108.69	108.97	108.62	113.35	112.76	111.81	108.30	108.34	108.13	
6	108.23	108.21	108.94	108.70	108.94	108.88	113.39	112.83	111.71	108.30	108.41	108.13	
7	108.23	108.22	108.94	108.59	108.95	108.97	113.42	112.85	111.62	108.29	108.45	108.11	
8	108.24	108.25	108.94	108.51	109.03	108.99	113.45	112.85	111.50	108.25	108.38	108.14	
9	108.23	108.34	108.94	108.44	109.21	108.98	113.48	112.84	111.37	108.24	108.31	108.24	
10	108.23	108.32	108.93	108.43	109.22	108.98	113.49	112.80	111.29	108.24	108.29	108.24	
11	108.23	108.29	108.92	108.56	109.17	108.99	113.50	112.75	111.17	108.24	108.28	108.22	
12	108.22	108.27	108.93	108.65	109.08	108.99	113.51	112.70	111.00	108.24	108.28	108.20	
13	108.21	108.24	108.93	108.70	109.01	109.03	113.51	112.63	110.81	108.23	108.28	108.22	
14	108.21	108.24	108.93	108.72	108.97	109.10	113.49	112.56	110.58	108.23	108.28	108.24	
15	108.20	108.24	108.97	108.74	108.78	109.33	113.47	112.45	110.37	108.22	108.24	108.24	
16	108.20	108.24	109.34	108.73	108.74	110.11	113.43	112.45	110.18	108.20	108.23	108.21	
17	108.19	108.24	109.55	108.73	108.70	110.78	113.39	112.43	110.11	108.29	108.23	108.13	
18	108.19	108.24	109.66	108.73	108.69	111.15	113.35	112.43	110.03	108.83	108.22	108.14	
19	108.19	108.27	109.66	108.73	108.76	111.59	113.32	112.44	110.03	108.82	108.21	108.16	
20	108.17	108.29	109.70	108.72	109.19	111.88	113.30	112.45	109.96	108.58	108.19	108.14	
21	108.17	108.32	109.90	108.70	109.22	112.04	113.27	112.47	109.79	108.45	108.21	108.13	
22	108.17	108.38	109.98	108.68	109.27	112.34	113.24	112.47	109.49	108.36	108.19	108.12	
23	108.17	108.61	109.90	108.68	109.27	112.55	113.22	112.47	109.18	108.32	108.12	108.12	
24	108.17	108.96	109.87	108.66	109.27	112.66	113.21	112.47	108.91	108.29	108.12	108.29	
25	108.17	109.13	109.83	108.66	109.28	112.74	113.20	112.47	108.71	108.29	108.12	108.21	
26	108.17	109.50	109.69	108.64	109.41	112.78	113.13	112.44	108.57	108.29	108.12	108.19	
27	108.17	109.74	109.36	108.64	109.26	112.81	113.08	112.41	108.48	108.28	108.16	108.16	
28	108.17	109.74	109.26	108.63	109.21	112.85	113.02	112.36	108.43	108.24	108.16	108.13	
29	108.17	109.73	109.04	108.63	109.01	112.89	112.94	112.31	108.38	108.23		108.12	
30	108.17	109.69	108.84	108.63	109.11	112.97	112.87	112.24	108.34	108.22		108.12	
31		109.63		108.63	109.12		112.78		108.34	108.22		108.12	
Mean	108.20	108.60	109.29	108.66	109.03	110.54	113.27	112.57	110.27	108.32	108.24	108.17	
Max	108.24	109.74	109.98	108.80	109.41	112.97	113.51	112.85	112.16	108.83	108.45	108.29	113.51
Min	108.17	108.21	108.84	108.43	108.62	108.62	112.78	112.24	108.34	108.20	108.12	108.11	108.11

Annual Max Momentary Gage Height 113.51 m. (MSL.) , at 06.00 Hours, on Oct 12, 2008

Zero Gage at Bottom Elevation 106.34 m. (MSL.) , River Bed 106.73 m. (MSL.) ,

Left Bank Elevation 116.03 m. (MSL.) ,

Right Bank Elevation 114.22 m. (MSL.) , Drainage Are 3,881 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.16	30.60	4.20	2.12	12.10	180.00	23.50	8.60	0.02	0.00	0.00		
2	0.00	0.00	18.60	3.72	2.78	4.43	192.50	21.40	8.00	0.02	0.00	0.00		
3	0.00	0.00	10.35	2.45	8.25	2.89	210.00	20.00	7.10	0.00	0.00	0.00		
4	0.00	0.00	9.30	2.12	9.30	2.34	245.00	22.10	6.20	0.00	0.00	0.00		
5	0.00	0.00	8.60	2.89	8.95	2.12	262.50	24.20	5.37	0.00	0.06	0.00		
6	0.00	0.00	7.90	3.00	7.90	6.04	276.50	29.10	5.12	0.00	0.17	0.00		
7	0.00	0.00	7.90	1.81	8.25	8.95	289.00	30.50	4.98	0.00	0.23	0.00		
8	0.00	0.00	7.90	1.09	11.05	9.65	302.50	30.50	4.80	0.00	0.12	0.00		
9	0.00	0.16	7.90	0.64	17.40	9.30	316.00	29.80	4.61	0.00	0.02	0.00		
10	0.00	0.08	7.55	0.58	17.80	9.30	320.50	27.00	4.49	0.00	0.00	0.00		
11	0.00	0.00	7.20	1.54	15.95	9.65	325.00	23.50	4.31	0.00	0.00	0.00		
12	0.00	0.00	7.55	2.45	12.80	9.65	330.00	20.00	4.05	0.00	0.00	0.00		
13	0.00	0.00	7.55	3.00	10.35	11.05	330.00	16.50	3.77	0.00	0.00	0.00		
14	0.00	0.00	7.55	3.24	8.95	13.50	305.00	13.80	3.42	0.00	0.00	0.00		
15	0.00	0.00	8.95	3.48	3.96	22.20	265.00	11.50	3.11	0.00	0.00	0.00		
16	0.00	0.00	22.60	3.36	3.48	58.50	185.00	11.50	2.82	0.00	0.00	0.00		
17	0.00	0.00	31.00	3.36	3.00	92.80	121.10	11.30	2.72	0.00	0.00	0.00		
18	0.00	0.00	36.00	3.36	2.89	115.00	105.50	11.30	2.60	0.80	0.00	0.00		
19	0.00	0.00	36.00	3.36	3.72	119.95	93.80	11.40	2.60	0.78	0.00	0.00		
20	0.00	0.00	38.00	3.24	16.65	121.40	86.00	11.50	2.49	0.42	0.00	0.00		
21	0.00	0.08	48.00	3.00	17.80	122.80	81.20	11.70	2.24	0.23	0.00	0.00		
22	0.00	0.32	52.00	2.78	19.80	128.80	76.40	11.70	1.79	0.09	0.00	0.00		
23	0.00	2.01	48.00	2.78	19.80	133.00	73.20	11.70	1.32	0.03	0.00	0.00		
24	0.00	8.60	46.50	2.56	19.80	135.20	71.60	11.70	0.92	0.00	0.00	0.00		
25	0.00	14.55	44.50	2.56	20.20	137.60	70.00	11.70	0.62	0.00	0.00	0.00		
26	0.00	29.00	37.50	2.34	25.40	139.20	58.80	11.40	0.41	0.00	0.00	0.00		
27	0.00	40.00	23.40	2.34	19.40	141.00	52.00	11.10	0.27	0.00	0.00	0.00		
28	0.00	40.00	19.40	2.23	17.40	145.00	46.00	10.60	0.20	0.00	0.00	0.00		
29	0.00	39.50	11.40	2.23	10.35	149.00	38.00	10.10	0.12	0.00		0.00		
30	0.00	37.50	5.12	2.23	13.85	157.00	31.90	9.40	0.06	0.00		0.00		
31		34.50		2.23	14.20		25.60		0.06	0.00		0.00		
Total	0.00	246.46	654.82	80.17	373.55	2029.42	5365.60	511.50	99.17	2.39	0.60	0.00	9363.68	CMSDAY
Mean	0.00	7.95	21.83	2.59	12.05	67.65	173.08	17.05	3.20	0.08	0.02	0.00	25.65	CMS
Max	0.00	40.00	52.00	4.20	25.40	157.00	330.00	30.50	8.60	0.80	0.23	0.00	330.00	CMS
Min	0.00	0.00	5.12	0.58	2.12	2.12	25.60	9.40	0.06	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	21.29	56.58	6.93	32.27	175.34	463.59	44.19	8.57	0.21	0.05	0.00	809.02	MCM

Momentary Peak 330.00 CMS, at 113.51 m. (MSL.), at 06.00 Hours, on Oct 12, 2008

Runoff Yield 6.61 Liters/Second/Square KM. Momentary Peak Yield 85.03 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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** +227.890 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 mean of 5 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Float	-		
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 13 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

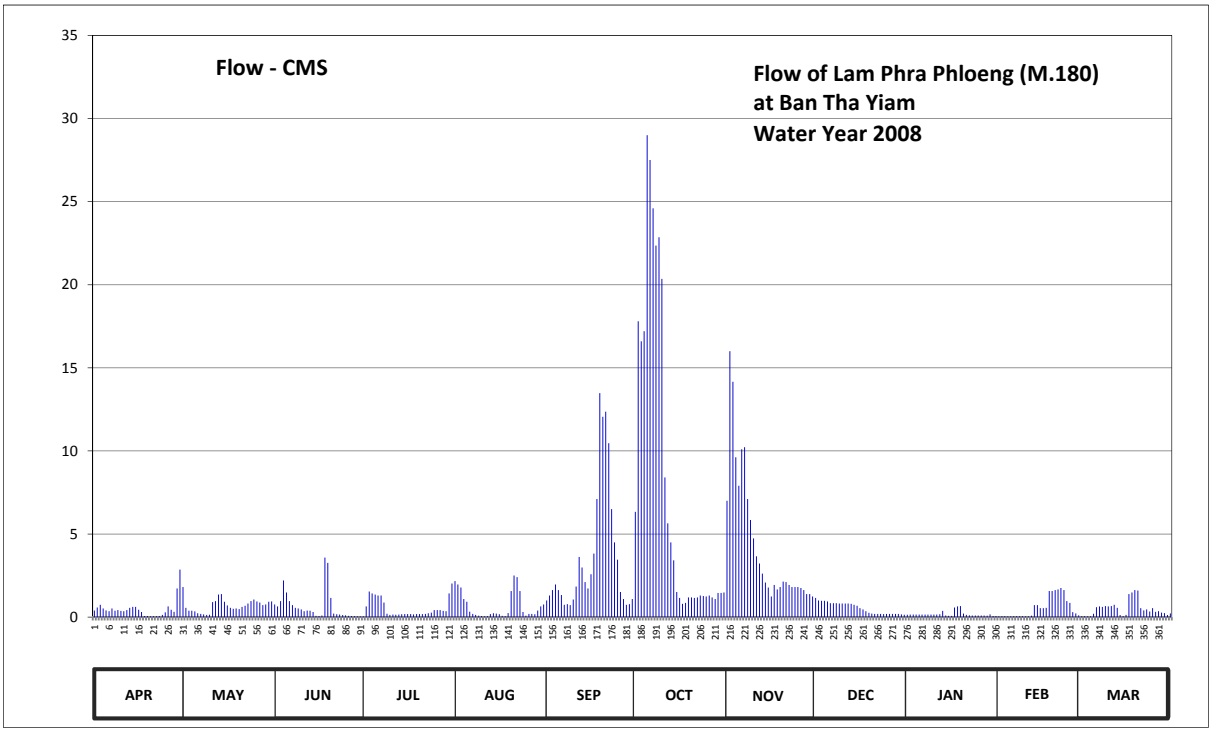
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	219.79	220.37	219.98	219.39	220.49	220.10	221.39	221.46	220.15	219.54	219.40	219.41	
2	219.89	219.88	219.92	219.92	220.42	220.20	222.21	222.12	220.10	219.55	219.41	219.41	
3	219.97	219.78	220.08	220.28	220.36	220.31	222.15	222.02	220.09	219.55	219.41	219.40	
4	219.86	219.78	220.50	220.24	220.13	220.42	222.18	221.71	220.09	219.55	219.40	219.39	
5	219.80	219.75	220.26	220.22	220.06	220.31	222.66	221.55	220.07	219.55	219.39	219.60	
6	219.76	219.63	220.08	220.20	219.73	220.21	222.61	221.75	220.02	219.55	219.41	219.90	
7	219.86	219.59	219.96	220.20	219.59	219.97	222.50	221.76	220.02	219.55	219.41	219.92	
8	219.78	219.56	219.88	220.04	219.53	219.99	222.41	221.47	220.02	219.55	219.41	219.91	
9	219.81	219.53	219.86	219.60	219.47	219.96	222.43	221.32	220.01	219.55	219.41	219.93	
10	219.77	219.54	219.83	219.53	219.44	220.12	222.33	221.14	220.01	219.55	219.40	219.92	
11	219.76	220.05	219.76	219.55	219.40	220.38	221.60	220.89	220.01	219.55	219.40	219.93	
12	219.81	220.08	219.79	219.54	219.42	220.88	221.29	220.78	220.01	219.57	219.47	219.97	
13	219.88	220.22	219.78	219.55	219.58	220.72	221.10	220.63	220.00	219.77	219.96	219.88	
14	219.91	220.23	219.71	219.57	219.63	220.47	220.83	220.46	219.97	219.50	219.96	219.52	
15	219.91	220.06	219.46	219.58	219.61	220.34	220.27	220.36	219.94	219.46	219.87	219.41	
16	219.82	219.95	219.43	219.58	219.57	220.62	220.15	220.18	219.87	219.45	219.87	219.53	
17	219.71	219.88	219.49	219.58	219.45	220.93	220.00	220.41	219.83	219.89	219.88	220.23	
18	219.43	219.85	220.87	219.56	219.41	221.47	220.03	220.32	219.76	219.92	220.29	220.26	
19	219.43	219.86	220.79	219.58	219.64	221.98	220.16	220.37	219.66	219.93	220.29	220.31	
20	219.39	219.84	220.15	219.58	220.29	221.89	220.16	220.48	219.61	219.61	220.31	220.30	
21	219.41	219.91	219.61	219.58	220.60	221.91	220.15	220.47	219.59	219.53	220.32	219.87	
22	219.41	219.94	219.57	219.59	220.57	221.78	220.16	220.41	219.59	219.51	220.35	219.80	
23	219.44	220.01	219.55	219.63	220.29	221.41	220.20	220.37	219.59	219.50	220.31	219.83	
24	219.53	220.08	219.52	219.67	219.71	221.10	220.19	220.37	219.58	219.50	220.08	219.74	
25	219.69	220.12	219.51	219.81	219.48	220.84	220.18	220.37	219.59	219.50	220.03	219.87	
26	219.92	220.07	219.46	219.81	219.59	220.27	220.20	220.35	219.59	219.50	219.70	219.72	
27	219.82	220.04	219.43	219.81	219.59	220.13	220.16	220.31	219.59	219.50	219.62	219.76	
28	219.72	219.96	219.42	219.77	219.57	219.97	220.13	220.23	219.59	219.47	219.51	219.67	
29	220.34	219.98	219.39	219.76	219.79	219.99	220.25	220.23	219.59	219.56		219.64	
30	220.69	220.06	219.39	220.24	219.92	220.13	220.25	220.18	219.56	219.44		219.52	
31		220.07		220.44	219.98		220.26		219.54	219.44		219.62	
Mean	219.78	219.92	219.81	219.79	219.82	220.63	220.99	220.82	219.83	219.57	219.76	219.78	
Max	220.69	220.37	220.87	220.44	220.60	221.98	222.66	222.12	220.15	219.93	220.35	220.31	222.66
Min	219.39	219.53	219.39	219.39	219.40	219.96	220.00	220.18	219.54	219.44	219.39	219.39	219.39

Annual Max Momentary Gage Height 222.71 m. (MSL.) , at 18.00 Hours, on Oct 5, 2008

Zero Gage at Bottom Elevation 219.21 m. (MSL.) , River Bed 219.21 m. (MSL.) ,

Left Bank Elevation 224.22 m. (MSL.) ,

Right Bank Elevation 223.26 m. (MSL.) , Drainage Are 864 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.39	1.81	0.76	0.05	2.17	1.00	6.33	7.00	1.15	0.14	0.05	0.06		
2	0.58	0.56	0.64	0.64	1.96	1.30	17.80	16.00	1.00	0.15	0.06	0.06		
3	0.74	0.38	0.96	1.54	1.78	1.63	16.60	14.16	0.98	0.15	0.06	0.05		
4	0.52	0.38	2.20	1.42	1.09	1.96	17.20	9.62	0.98	0.15	0.05	0.05		
5	0.40	0.35	1.48	1.36	0.92	1.63	29.00	7.90	0.94	0.15	0.05	0.20		
6	0.36	0.23	0.96	1.30	0.33	1.33	27.50	10.10	0.84	0.15	0.06	0.60		
7	0.52	0.19	0.72	1.30	0.19	0.74	24.60	10.22	0.84	0.15	0.06	0.64		
8	0.38	0.16	0.56	0.88	0.13	0.78	22.35	7.10	0.84	0.15	0.06	0.62		
9	0.42	0.13	0.52	0.20	0.09	0.72	22.85	5.84	0.82	0.15	0.06	0.66		
10	0.37	0.14	0.46	0.13	0.07	1.06	20.35	4.74	0.82	0.15	0.05	0.64		
11	0.36	0.90	0.36	0.15	0.05	1.84	8.40	3.66	0.82	0.15	0.05	0.66		
12	0.42	0.96	0.39	0.14	0.06	3.62	5.64	3.22	0.82	0.17	0.09	0.74		
13	0.56	1.36	0.38	0.15	0.18	2.98	4.50	2.62	0.80	0.37	0.72	0.56		
14	0.62	1.39	0.31	0.17	0.23	2.11	3.42	2.08	0.74	0.10	0.72	0.12		
15	0.62	0.92	0.08	0.18	0.21	1.72	1.51	1.78	0.68	0.08	0.54	0.06		
16	0.44	0.70	0.07	0.18	0.17	2.58	1.15	1.24	0.54	0.08	0.54	0.13		
17	0.31	0.56	0.10	0.18	0.08	3.82	0.80	1.93	0.46	0.58	0.56	1.39		
18	0.07	0.50	3.58	0.16	0.06	7.10	0.86	1.66	0.36	0.64	1.57	1.48		
19	0.07	0.52	3.26	0.18	0.24	13.48	1.18	1.81	0.26	0.66	1.57	1.63		
20	0.05	0.48	1.15	0.18	1.57	12.05	1.18	2.14	0.21	0.21	1.63	1.60		
21	0.06	0.62	0.21	0.18	2.50	12.36	1.15	2.11	0.19	0.13	1.66	0.54		
22	0.06	0.68	0.17	0.19	2.41	10.46	1.18	1.93	0.19	0.11	1.75	0.40		
23	0.07	0.82	0.15	0.23	1.57	6.50	1.30	1.81	0.19	0.10	1.63	0.46		
24	0.13	0.96	0.12	0.27	0.31	4.50	1.27	1.81	0.18	0.10	0.96	0.34		
25	0.29	1.06	0.11	0.42	0.09	3.46	1.24	1.81	0.19	0.10	0.86	0.54		
26	0.64	0.94	0.08	0.42	0.19	1.51	1.30	1.75	0.19	0.10	0.30	0.32		
27	0.44	0.88	0.07	0.42	0.19	1.09	1.18	1.63	0.19	0.10	0.22	0.36		
28	0.32	0.72	0.06	0.37	0.17	0.74	1.09	1.39	0.19	0.09	0.11	0.27		
29	1.72	0.76	0.05	0.36	0.39	0.78	1.45	1.39	0.19	0.16		0.24		
30	2.86	0.92	0.05	1.42	0.64	1.09	1.45	1.24	0.16	0.07		0.12		
31		0.94		2.02	0.76		1.48		0.14	0.07		0.22		
Total	14.79	21.92	20.01	16.79	20.80	105.94	247.31	131.69	16.90	5.66	16.04	15.76	633.61	CMSDAY
Mean	0.49	0.71	0.67	0.54	0.67	3.53	7.98	4.39	0.55	0.18	0.57	0.51	1.74	CMS
Max	2.86	1.81	3.58	2.02	2.50	13.48	29.00	16.00	1.15	0.66	1.75	1.63	29.00	CMS
Min	0.05	0.13	0.05	0.05	0.05	0.72	0.80	1.24	0.14	0.07	0.05	0.05	0.05	CMS
Runoff	1.28	1.89	1.73	1.45	1.80	9.15	21.37	11.38	1.46	0.49	1.39	1.36	54.74	MCM

Momentary Peak 30.50 CMS, at 222.71 m. (MSL.), at 18.00 Hours, on Oct 5, 2008

Runoff Yield 2.01 Liters/Second/Square KM. Momentary Peak Yield 35.30 Liters/Second/Square KM.

WATER YEAR : 2008

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.

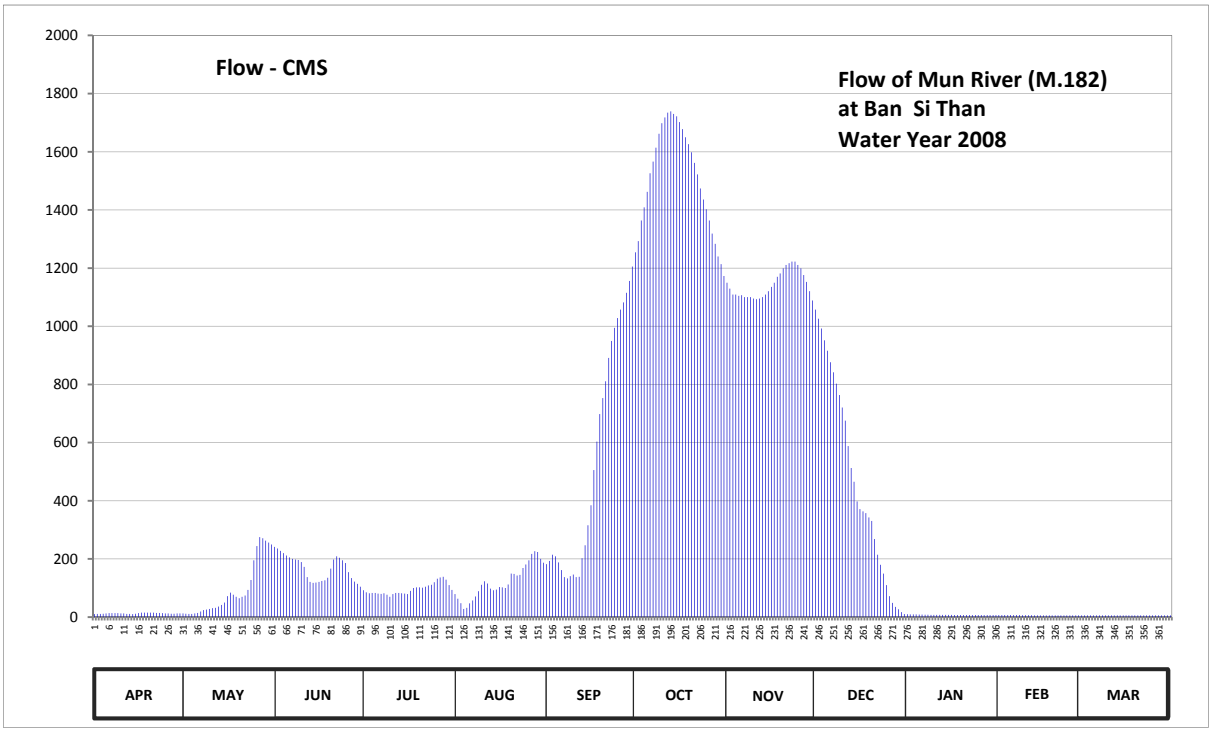
Ban Si Than **Amphoe** Kanthararom **Changwat** Si Sa Ket

Drainge Area	49,778 sq.km.
Type of Gage	Staff gage.
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	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 Float	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +112.900 m.(MSL.), records are channel flow only.
General Description	Records very good. Stage-discharge relation defined by 32 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	108.18	108.22	110.27	109.02	108.89	109.81	115.50	115.14	114.77	108.11	107.86	107.77	
2	108.20	108.21	110.23	108.95	108.73	109.90	115.62	115.07	114.63	108.08	107.86	107.76	
3	108.20	108.20	110.17	108.92	108.58	110.07	115.84	115.00	114.48	108.06	107.86	107.76	
4	108.21	108.20	110.11	108.93	108.38	110.03	115.98	115.00	114.30	108.06	107.86	107.76	
5	108.22	108.22	110.05	108.93	108.42	109.86	116.13	114.98	114.14	108.03	107.86	107.76	
6	108.23	108.24	110.00	108.91	108.57	109.64	116.29	114.99	113.96	108.01	107.86	107.76	
7	108.23	108.29	109.96	108.90	108.67	109.43	116.39	114.96	113.79	107.97	107.85	107.76	
8	108.23	108.34	109.94	108.92	108.81	109.39	116.51	114.96	113.60	107.95	107.83	107.76	
9	108.23	108.36	109.93	108.87	108.99	109.46	116.63	114.96	113.41	107.94	107.82	107.76	
10	108.22	108.38	109.87	108.80	109.19	109.51	116.72	114.94	113.20	107.94	107.80	107.76	
11	108.22	108.41	109.73	108.89	109.30	109.43	116.77	114.93	112.98	107.93	107.80	107.76	
12	108.20	108.42	109.43	108.93	109.23	109.44	116.81	114.94	112.52	107.92	107.78	107.76	
13	108.20	108.46	109.28	108.93	109.07	109.98	116.82	114.96	112.09	107.92	107.77	107.76	
14	108.19	108.52	109.25	108.92	109.02	110.31	116.80	115.00	111.81	107.92	107.77	107.76	
15	108.21	108.60	109.26	108.91	109.04	110.82	116.78	115.04	111.39	107.91	107.77	107.76	
16	108.23	108.82	109.28	108.89	109.12	111.30	116.73	115.09	111.21	107.90	107.77	107.76	
17	108.25	108.94	109.31	109.00	109.11	112.05	116.67	115.14	111.16	107.88	107.77	107.76	
18	108.25	108.87	109.33	109.09	109.09	112.60	116.60	115.21	111.12	107.88	107.77	107.76	
19	108.25	108.80	109.41	109.11	109.20	113.09	116.54	115.25	111.02	107.87	107.77	107.77	
20	108.25	108.75	109.68	109.11	109.54	113.36	116.47	115.31	110.93	107.86	107.77	107.77	
21	108.25	108.80	109.94	109.10	109.53	113.64	116.38	115.35	110.47	107.86	107.77	107.77	
22	108.24	108.84	110.03	109.13	109.48	114.03	116.28	115.37	110.07	107.87	107.77	107.77	
23	108.24	109.03	109.99	109.17	109.50	114.29	116.16	115.39	109.79	107.87	107.77	107.77	
24	108.23	109.34	109.92	109.19	109.70	114.49	116.06	115.39	109.54	107.86	107.77	107.76	
25	108.22	109.92	109.84	109.27	109.80	114.64	115.96	115.35	109.18	107.86	107.77	107.76	
26	108.22	110.29	109.58	109.38	109.92	114.77	115.84	115.31	108.82	107.86	107.77	107.76	
27	108.21	110.52	109.40	109.42	110.09	114.88	115.70	115.23	108.59	107.86	107.77	107.75	
28	108.21	110.49	109.29	109.44	110.16	115.02	115.59	115.15	108.45	107.86	107.77	107.75	
29	108.22	110.43	109.22	109.35	110.14	115.16	115.45	115.04	108.37	107.86		107.76	
30	108.22	110.38	109.13	109.18	109.96	115.33	115.36	114.91	108.27	107.86		107.77	
31		110.33		109.03	109.85		115.22		108.16	107.86		107.77	
Mean	108.22	108.96	109.69	109.05	109.26	111.86	116.21	115.11	111.49	107.92	107.80	107.76	
Max	108.25	110.52	110.27	109.44	110.16	115.33	116.82	115.39	114.77	108.11	107.86	107.77	116.82
Min	108.18	108.20	109.13	108.80	108.38	109.39	115.22	114.91	108.16	107.86	107.77	107.75	107.75

Annual Max Momentary Gage Height	116.82	m. (MSL.) ,	at 18.00 Hours, on Oct 12, 2008		
Zero Gage at Bottom Elevation	106.49	m. (MSL.) ,	River Bed	106.10	m. (MSL)
Left Bank Elevation	112.89	m. (MSL.) ,			
Right Bank Elevation	118.93	m. (MSL.) ,	Drainage Are	49,778	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.56	12.64	241.45	92.20	79.00	182.20	1254.50	1149.74	1057.37	9.72	7.14	6.26		
2	10.80	11.72	236.05	85.00	63.00	193.00	1293.02	1129.37	1025.94	9.38	7.14	6.16		
3	10.80	10.80	227.95	82.00	48.00	214.45	1363.64	1109.00	992.26	9.16	7.14	6.16		
4	11.72	10.80	219.85	83.00	28.00	209.05	1408.58	1109.00	951.85	9.16	7.14	6.16		
5	12.64	12.64	211.75	83.00	32.00	188.20	1462.00	1104.51	915.93	8.83	7.14	6.16		
6	13.56	14.48	205.00	81.00	47.00	161.80	1526.00	1106.76	876.30	8.61	7.14	6.16		
7	13.56	19.08	200.20	80.00	57.00	137.30	1566.00	1100.02	841.45	8.21	7.04	6.16		
8	13.56	24.00	197.80	82.00	71.00	132.90	1614.00	1100.02	802.50	8.01	6.84	6.16		
9	13.56	26.00	196.60	77.00	89.00	140.60	1662.00	1100.02	763.55	7.92	6.75	6.16		
10	12.64	28.00	189.40	70.00	110.90	146.20	1698.00	1095.53	720.50	7.92	6.55	6.16		
11	12.64	31.00	172.60	79.00	123.00	137.30	1718.00	1093.29	675.70	7.82	6.55	6.16		
12	10.80	32.00	137.30	83.00	115.30	138.40	1734.50	1095.53	588.30	7.72	6.36	6.16		
13	10.80	36.00	120.80	83.00	97.70	202.60	1739.00	1100.02	512.75	7.72	6.26	6.16		
14	10.68	42.00	117.50	82.00	92.20	246.85	1730.00	1109.00	465.46	7.72	6.26	6.16		
15	11.72	50.00	118.60	81.00	94.40	315.70	1722.00	1120.64	397.72	7.62	6.26	6.16		
16	13.56	72.00	120.80	79.00	103.20	384.40	1702.00	1135.19	371.08	7.53	6.26	6.16		
17	15.40	84.00	124.10	90.00	102.10	505.75	1678.00	1149.74	363.68	7.33	6.26	6.16		
18	15.40	77.00	126.30	99.90	99.90	603.50	1650.00	1170.11	357.76	7.33	6.26	6.16		
19	15.40	70.00	135.10	102.10	112.00	697.95	1626.00	1181.75	342.96	7.23	6.26	6.26		
20	15.40	65.00	166.60	102.10	149.80	753.30	1598.00	1199.21	330.55	7.14	6.26	6.26		
21	15.40	70.00	197.80	101.00	148.60	810.70	1562.00	1210.85	268.45	7.14	6.26	6.26		
22	14.48	74.00	209.05	104.30	142.80	891.24	1522.00	1216.67	214.45	7.23	6.26	6.26		
23	14.48	93.30	203.80	108.70	145.00	949.61	1474.00	1222.49	179.80	7.23	6.26	6.26		
24	13.56	127.40	195.40	110.90	169.00	994.51	1436.00	1222.49	149.80	7.14	6.26	6.16		
25	12.64	195.40	185.80	119.70	181.00	1028.18	1402.16	1210.85	109.80	7.14	6.26	6.16		
26	12.64	244.15	154.60	131.80	195.40	1057.37	1363.64	1199.21	72.00	7.14	6.26	6.16		
27	11.72	275.20	134.00	136.20	217.15	1082.06	1318.70	1175.93	49.00	7.14	6.26	6.06		
28	11.72	271.15	121.90	138.40	226.60	1114.82	1283.39	1152.65	35.00	7.14	6.26	6.06		
29	12.64	263.05	114.20	128.50	223.90	1155.56	1239.95	1120.64	27.00	7.14		6.16		
30	12.64	256.30	104.30	109.80	200.20	1205.03	1213.76	1088.80	17.24	7.14		6.26		
31		249.55		93.30	187.00		1173.02		10.32	7.14		6.26		
Total	387.12	2848.66	5086.60	2978.90	3751.15	15980.53	46733.86	34279.03	14486.47	240.80	183.09	191.56	127147.77	CMSDAY
Mean	12.90	91.89	169.55	96.09	121.00	532.68	1507.54	1142.63	467.31	7.77	6.54	6.18	348.35	CMS
Max	15.40	275.20	241.45	138.40	226.60	1205.03	1739.00	1222.49	1057.37	9.72	7.14	6.26	1739.00	CMS
Min	10.56	10.80	104.30	70.00	28.00	132.90	1173.02	1088.80	10.32	7.14	6.26	6.06	6.06	CMS
Runoff	33.45	246.12	439.48	257.38	324.10	1380.72	4037.81	2961.71	1251.63	20.81	15.82	16.55	10985.57	MCM

Momentary Peak 1739.00 CMS, at 116.82 m. (MSL), at 18.00 Hours, on Oct 12, 2008

Runoff Yield 8.01 Liters/Second/Square KM. Momentary Peak Yield 39.97 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2007 to date
Rating Operation	
Period of Rating	2007 to date
Rated by Float	-
Rated by Current Meter	2007 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	Overbank flow starts at elevation +302.590 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

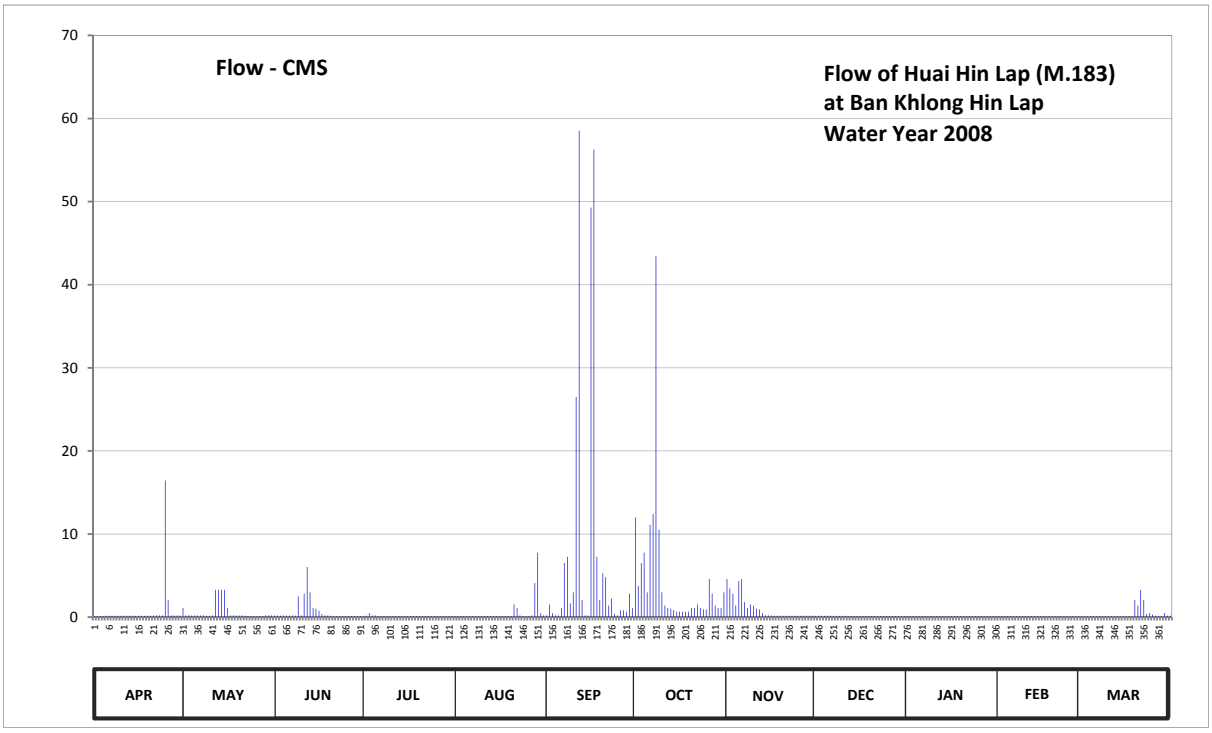
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.20	301.40	301.28	301.20	301.20	301.30	301.90	301.62	301.25	301.21	301.18	301.16	
2	301.20	301.30	301.28	301.27	301.20	301.43	301.58	301.56	301.25	301.21	301.18	301.16	
3	301.20	301.30	301.28	301.33	301.20	301.33	301.70	301.52	301.25	301.21	301.18	301.16	
4	301.20	301.30	301.28	301.30	301.20	301.30	301.75	301.42	301.25	301.21	301.18	301.16	
5	301.25	301.30	301.28	301.30	301.20	301.30	301.53	301.61	301.25	301.20	301.18	301.16	
6	301.25	301.30	301.28	301.20	301.20	301.40	301.87	301.62	301.25	301.20	301.18	301.16	
7	301.25	301.30	301.28	301.20	301.20	301.70	301.91	301.45	301.24	301.20	301.18	301.16	
8	301.25	301.30	301.28	301.20	301.20	301.73	302.52	301.40	301.24	301.20	301.18	301.16	
9	301.25	301.25	301.50	301.20	301.20	301.44	301.85	301.43	301.24	301.20	301.18	301.16	
10	301.25	301.25	301.30	301.20	301.20	301.53	301.53	301.42	301.24	301.20	301.18	301.16	
11	301.25	301.30	301.52	301.20	301.20	302.23	301.42	301.39	301.23	301.20	301.18	301.16	
12	301.25	301.55	301.68	301.20	301.20	302.74	301.40	301.38	301.23	301.20	301.18	301.16	
13	301.25	301.55	301.53	301.20	301.20	301.47	301.39	301.33	301.22	301.20	301.18	301.16	
14	301.25	301.55	301.40	301.20	301.20	301.30	301.37	301.30	301.22	301.20	301.18	301.16	
15	301.25	301.55	301.39	301.20	301.20	301.30	301.35	301.30	301.21	301.19	301.18	301.16	
16	301.25	301.40	301.36	301.20	301.20	302.61	301.35	301.28	301.21	301.19	301.18	301.16	
17	301.25	301.30	301.32	301.20	301.20	302.71	301.35	301.26	301.21	301.19	301.17	301.16	
18	301.25	301.30	301.30	301.20	301.20	301.73	301.35	301.26	301.21	301.19	301.17	301.16	
19	301.25	301.30	301.29	301.20	301.20	301.47	301.35	301.26	301.21	301.19	301.17	301.47	
20	301.25	301.30	301.26	301.20	301.20	301.65	301.40	301.26	301.21	301.19	301.17	301.42	
21	301.30	301.30	301.20	301.20	301.43	301.63	301.40	301.26	301.21	301.19	301.16	301.55	
22	301.30	301.25	301.20	301.20	301.40	301.42	301.43	301.26	301.21	301.19	301.16	301.47	
23	301.30	301.22	301.20	301.20	301.30	301.48	301.40	301.26	301.21	301.19	301.16	301.32	
24	301.30	301.20	301.20	301.20	301.20	301.32	301.38	301.26	301.21	301.18	301.16	301.33	
25	302.01	301.20	301.20	301.20	301.20	301.30	301.38	301.26	301.21	301.18	301.16	301.31	
26	301.47	301.20	301.19	301.20	301.20	301.37	301.62	301.26	301.21	301.18	301.16	301.26	
27	301.30	301.20	301.18	301.20	301.30	301.37	301.52	301.26	301.21	301.18	301.16	301.20	
28	301.30	301.20	301.18	301.20	301.60	301.35	301.42	301.26	301.21	301.18	301.16	301.20	
29	301.30	301.30	301.18	301.20	301.75	301.52	301.40	301.26	301.21	301.18		301.33	
30	301.30	301.30	301.20	301.20	301.33	301.40	301.40	301.26	301.20	301.18		301.25	
31		301.30		301.20	301.30		301.53		301.20	301.18		301.25	
Mean	301.29	301.32	301.30	301.21	301.26	301.59	301.54	301.36	301.22	301.19	301.17	301.23	
Max	302.01	301.55	301.68	301.33	301.75	302.74	302.52	301.62	301.25	301.21	301.18	301.55	302.74
Min	301.20	301.20	301.18	301.20	301.20	301.30	301.35	301.26	301.20	301.18	301.16	301.16	301.16

Annual Max Momentary Gage Height 303.30 m. (MSL.) , at 06.00 Hours, on Sep 17, 2008

Zero Gage at Bottom Elevation 300.80 m. (MSL.) , River Bed 300.80 m. (MSL.)

Left Bank Elevation 307.26 m. (MSL.) ,

Right Bank Elevation 307.29 m. (MSL.) , Drainage Are 250 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.12	1.10	0.19	0.12	0.12	0.21	12.00	4.58	0.17	0.13	0.11	0.09		
2	0.12	0.21	0.19	0.18	0.12	1.52	3.78	3.46	0.17	0.13	0.11	0.09		
3	0.12	0.21	0.19	0.48	0.12	0.48	6.50	2.82	0.17	0.13	0.11	0.09		
4	0.12	0.21	0.19	0.21	0.12	0.21	7.75	1.38	0.17	0.13	0.11	0.09		
5	0.17	0.21	0.19	0.21	0.12	0.21	2.98	4.34	0.17	0.12	0.11	0.09		
6	0.17	0.21	0.19	0.12	0.12	1.10	11.10	4.58	0.17	0.12	0.11	0.09		
7	0.17	0.21	0.19	0.12	0.12	6.50	12.40	1.80	0.16	0.12	0.11	0.09		
8	0.17	0.21	0.19	0.12	0.12	7.25	43.43	1.10	0.16	0.12	0.11	0.09		
9	0.17	0.17	2.50	0.12	0.12	1.66	10.50	1.52	0.16	0.12	0.11	0.09		
10	0.17	0.17	0.21	0.12	0.12	2.98	2.98	1.38	0.16	0.12	0.11	0.09		
11	0.17	0.21	2.82	0.12	0.12	26.50	1.38	1.01	0.15	0.12	0.11	0.09		
12	0.17	3.30	6.02	0.12	0.12	58.54	1.10	0.92	0.15	0.12	0.11	0.09		
13	0.17	3.30	2.98	0.12	0.12	2.08	1.01	0.48	0.14	0.12	0.11	0.09		
14	0.17	3.30	1.10	0.12	0.12	0.21	0.83	0.21	0.14	0.12	0.11	0.09		
15	0.17	3.30	1.01	0.12	0.12	0.21	0.66	0.21	0.13	0.11	0.11	0.09		
16	0.17	1.10	0.74	0.12	0.12	49.29	0.66	0.19	0.13	0.11	0.11	0.09		
17	0.17	0.21	0.39	0.12	0.12	56.26	0.66	0.17	0.13	0.11	0.10	0.09		
18	0.17	0.21	0.21	0.12	0.12	7.25	0.66	0.17	0.13	0.11	0.10	0.09		
19	0.17	0.21	0.20	0.12	0.12	2.08	0.66	0.17	0.13	0.11	0.10	2.08		
20	0.17	0.21	0.17	0.12	0.12	5.30	1.10	0.17	0.13	0.11	0.10	1.38		
21	0.21	0.21	0.12	0.12	1.52	4.82	1.10	0.17	0.13	0.11	0.09	3.30		
22	0.21	0.17	0.12	0.12	1.10	1.38	1.52	0.17	0.13	0.11	0.09	2.08		
23	0.21	0.14	0.12	0.12	0.21	2.22	1.10	0.17	0.13	0.11	0.09	0.39		
24	0.21	0.12	0.12	0.12	0.12	0.39	0.92	0.17	0.13	0.11	0.09	0.48		
25	16.45	0.12	0.12	0.12	0.12	0.21	0.92	0.17	0.13	0.11	0.09	0.30		
26	2.08	0.12	0.11	0.12	0.12	0.83	4.58	0.17	0.13	0.11	0.09	0.17		
27	0.21	0.12	0.11	0.12	0.21	0.83	2.82	0.17	0.13	0.11	0.09	0.12		
28	0.21	0.12	0.11	0.12	4.10	0.66	1.38	0.17	0.13	0.11	0.09	0.12		
29	0.21	0.21	0.11	0.12	7.75	2.82	1.10	0.17	0.13	0.11		0.48		
30	0.21	0.21	0.12	0.12	0.48	1.10	1.10	0.17	0.12	0.11		0.17		
31		0.21		0.12	0.21		2.98		0.12	0.11		0.17		
Total	23.41	20.01	21.03	4.32	18.34	245.10	141.66	32.36	4.43	3.59	2.88	12.86	529.99	CMSDAY
Mean	0.78	0.65	0.70	0.14	0.59	8.17	4.57	1.08	0.14	0.12	0.10	0.41	1.45	CMS
Max	16.45	3.30	6.02	0.48	7.75	58.54	43.43	4.58	0.17	0.13	0.11	3.30	58.54	CMS
Min	0.12	0.12	0.11	0.12	0.12	0.21	0.66	0.17	0.12	0.11	0.09	0.09	0.09	CMS
Runoff	2.02	1.73	1.82	0.37	1.58	21.18	12.24	2.80	0.38	0.31	0.25	1.11	45.79	MCM

Momentary Peak 105.00 CMS, at 303.30 m. (MSL.), at 06.00 Hours, on Sep 17, 2008

Runoff Yield 5.81 Liters/Second/Square KM. Momentary Peak Yield 420.00 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	11,489 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** +6.121 m. (A.D.)
Gage Reading Frequency	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 Float	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +4.140 m.(A.D.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 15 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

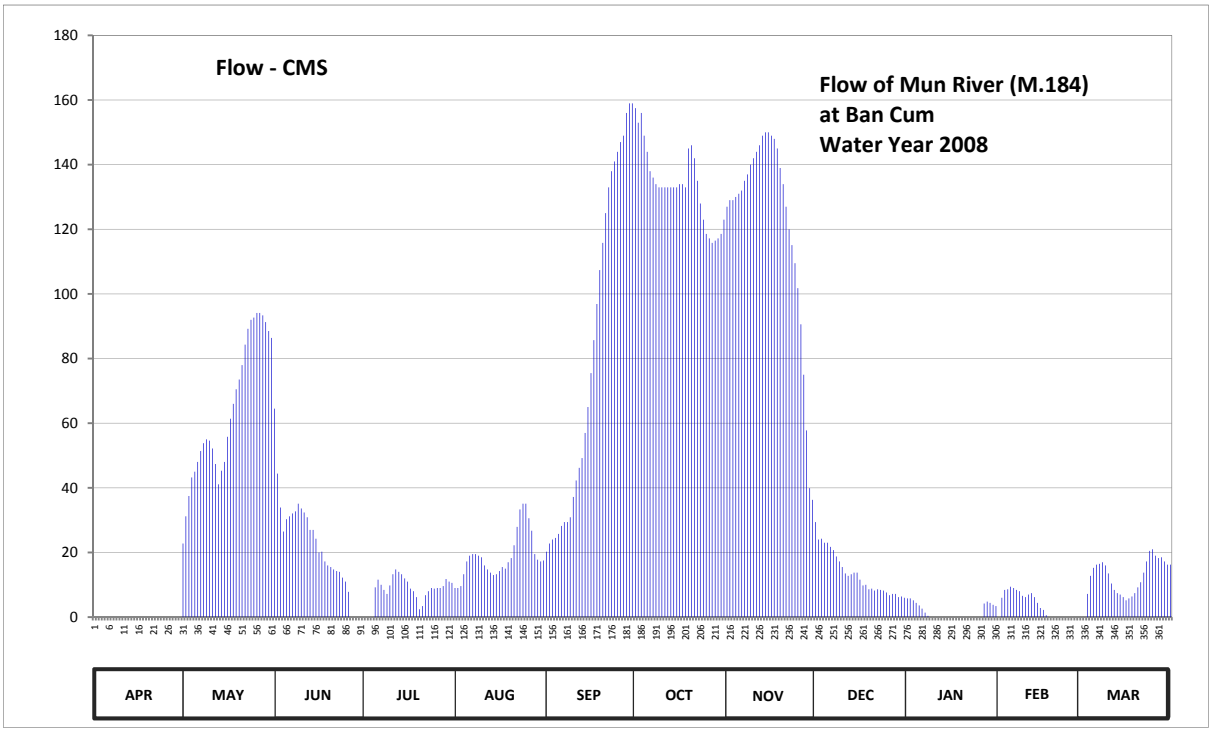
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.70	3.03	4.33	0.97	2.45	2.93	5.55	5.27	3.28	2.29	1.99	1.37	
2	0.69	3.34	3.78	0.96	2.45	3.03	5.52	5.29	3.08	2.29	2.30	1.56	
3	0.69	3.55	3.43	0.97	2.48	3.08	5.54	5.29	3.09	2.26	2.42	2.36	
4	0.69	3.74	3.18	1.25	2.65	3.10	5.49	5.30	3.04	2.22	2.43	2.63	
5	0.69	3.80	3.31	2.46	2.81	3.15	5.44	5.31	3.04	2.18	2.47	2.73	
6	0.69	3.90	3.34	2.58	2.88	3.24	5.38	5.32	2.99	2.13	2.45	2.77	
7	0.69	4.01	3.37	2.50	2.90	3.28	5.36	5.35	2.95	2.07	2.42	2.78	
8	0.68	4.07	3.39	2.42	2.90	3.28	5.34	5.37	2.87	2.02	2.40	2.80	
9	0.68	4.10	3.47	2.36	2.88	3.33	5.33	5.40	2.81	1.98	2.33	2.76	
10	0.68	4.09	3.42	2.49	2.86	3.54	5.33	5.42	2.74	1.93	2.31	2.66	
11	0.68	4.03	3.38	2.65	2.76	3.71	5.33	5.44	2.66	1.88	2.35	2.52	
12	0.67	3.88	3.33	2.71	2.71	3.84	5.33	5.46	2.63	1.84	2.37	2.42	
13	0.66	3.67	3.20	2.68	2.67	3.94	5.33	5.49	2.65	1.80	2.31	2.37	
14	0.66	3.81	3.20	2.65	2.64	4.15	5.33	5.50	2.67	1.74	2.22	2.35	
15	0.67	3.90	3.09	2.60	2.65	4.34	5.33	5.50	2.67	1.66	2.14	2.31	
16	0.68	4.12	2.92	2.55	2.69	4.55	5.34	5.49	2.58	1.56	2.11	2.26	
17	0.68	4.26	2.93	2.44	2.74	4.71	5.34	5.48	2.49	1.47	2.03	2.29	
18	0.67	4.36	2.81	2.40	2.72	4.87	5.33	5.45	2.50	1.36	1.93	2.32	
19	0.67	4.45	2.76	2.31	2.80	5.02	5.45	5.39	2.43	1.27	1.85	2.37	
20	0.67	4.51	2.74	2.12	2.85	5.14	5.46	5.34	2.44	1.17	1.77	2.46	
21	0.66	4.60	2.71	2.17	3.01	5.25	5.42	5.27	2.41	1.09	1.68	2.54	
22	0.66	4.69	2.69	2.34	3.23	5.33	5.35	5.20	2.43	1.02	1.56	2.67	
23	0.65	4.76	2.68	2.40	3.41	5.38	5.28	5.13	2.42	1.04	1.44	2.81	
24	0.65	4.80	2.61	2.45	3.47	5.41	5.23	5.05	2.41	1.06	1.35	2.94	
25	0.65	4.81	2.55	2.44	3.47	5.44	5.18	4.94	2.38	1.07	1.34	2.96	
26	0.65	4.83	2.39	2.45	3.32	5.47	5.16	4.78	2.34	1.09	1.35	2.88	
27	0.63	4.83	1.96	2.45	3.19	5.49	5.14	4.54	2.36	2.21	1.34	2.85	
28	0.48	4.82	1.65	2.48	2.90	5.54	5.15	4.17	2.36	2.24	1.32	2.86	
29	0.64	4.79	1.30	2.59	2.83	5.56	5.16	3.63	2.31	2.22		2.81	
30	1.53	4.75	1.05	2.55	2.81	5.56	5.18	3.51	2.32	2.19		2.77	
31		4.72		2.53	2.82		5.23		2.30	2.17		2.77	
Mean	0.69	4.23	2.90	2.29	2.87	4.36	5.33	5.14	2.63	1.76	2.00	2.55	
Max	1.53	4.83	4.33	2.71	3.47	5.56	5.55	5.50	3.28	2.29	2.47	2.96	5.56
Min	0.48	3.03	1.05	0.96	2.45	2.93	5.14	3.51	2.30	1.02	1.32	1.37	0.48

Annual Max Momentary Gage Height 5.56 m. (A.D.) , at 12.00 Hours, on Sep 29, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.05 m. (A.D.)

Left Bank Elevation 4.22 m. (A.D.) ,

Right Bank Elevation 4.13 m. (A.D.) , Drainage Are 11,489 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	22.75	64.50	0.00	9.00	20.25	157.50	127.00	29.40	5.80	0.00	0.00		
2	0.00	31.20	44.40	0.00	9.00	22.75	153.00	129.00	24.00	5.80	6.00	0.00		
3	0.00	37.50	33.90	0.00	9.60	24.00	156.00	129.00	24.25	5.20	8.40	7.20		
4	0.00	43.20	26.50	0.00	13.25	24.50	149.00	130.00	23.00	4.40	8.60	12.75		
5	0.00	45.00	30.30	9.20	17.25	25.75	144.00	131.00	23.00	3.60	9.40	15.25		
6	0.00	48.00	31.20	11.60	19.00	28.20	138.00	132.00	21.75	2.60	9.00	16.25		
7	0.00	51.40	32.10	10.00	19.50	29.40	136.00	135.00	20.75	1.40	8.40	16.50		
8	0.00	53.80	32.70	8.40	19.50	29.40	134.00	137.00	18.75	0.40	8.00	17.00		
9	0.00	55.00	35.10	7.20	19.00	30.90	133.00	140.00	17.25	0.00	6.60	16.00		
10	0.00	54.60	33.60	9.80	18.50	37.20	133.00	142.00	15.50	0.00	6.20	13.50		
11	0.00	52.20	32.40	13.25	16.00	42.30	133.00	144.00	13.50	0.00	7.00	10.40		
12	0.00	47.40	30.90	14.75	14.75	46.20	133.00	146.00	12.75	0.00	7.40	8.40		
13	0.00	41.10	27.00	14.00	13.75	49.20	133.00	149.00	13.25	0.00	6.20	7.40		
14	0.00	45.30	27.00	13.25	13.00	57.00	133.00	150.00	13.75	0.00	4.40	7.00		
15	0.00	48.00	24.25	12.00	13.25	65.00	133.00	150.00	13.75	0.00	2.80	6.20		
16	0.00	55.80	20.00	11.00	14.25	75.50	134.00	149.00	11.60	0.00	2.20	5.20		
17	0.00	61.40	20.25	8.80	15.50	85.70	134.00	148.00	9.80	0.00	0.60	5.80		
18	0.00	66.00	17.25	8.00	15.00	96.90	133.00	145.00	10.00	0.00	0.00	6.40		
19	0.00	70.50	16.00	6.20	17.00	107.40	145.00	139.00	8.60	0.00	0.00	7.40		
20	0.00	73.50	15.50	2.40	18.25	115.80	146.00	134.00	8.80	0.00	0.00	9.20		
21	0.00	78.00	14.75	3.40	22.25	125.00	142.00	127.00	8.20	0.00	0.00	10.80		
22	0.00	84.30	14.25	6.80	27.90	133.00	135.00	120.00	8.60	0.00	0.00	13.75		
23	0.00	89.20	14.00	8.00	33.30	138.00	128.00	115.10	8.40	0.00	0.00	17.25		
24	0.00	92.00	12.25	9.00	35.10	141.00	123.00	109.50	8.20	0.00	0.00	20.50		
25	0.00	92.70	11.00	8.80	35.10	144.00	118.60	101.80	7.60	0.00	0.00	21.00		
26	0.00	94.10	7.80	9.00	30.60	147.00	117.20	90.60	6.80	0.00	0.00	19.00		
27	0.00	94.10	0.00	9.00	26.75	149.00	115.80	75.00	7.20	4.20	0.00	18.25		
28	0.00	93.40	0.00	9.60	19.50	156.00	116.50	57.80	7.20	4.80	0.00	18.50		
29	0.00	91.30	0.00	11.80	17.75	159.00	117.20	39.90	6.20	4.40		17.25		
30	0.00	88.50	0.00	11.00	17.25	159.00	118.60	36.30	6.40	3.80		16.25		
31		86.40		10.60	17.50		123.00		6.00	3.40		16.25		
Total	0.00	1987.65	668.90	256.85	587.35	2464.35	4145.40	3659.00	414.25	49.80	101.20	376.65	14711.40	CMSDAY
Mean	0.00	64.12	22.30	8.29	18.95	82.14	133.72	121.97	13.36	1.61	3.61	12.15	40.31	CMS
Max	0.00	94.10	64.50	14.75	35.10	159.00	157.50	150.00	29.40	5.80	9.40	21.00	159.00	CMS
Min	0.00	22.75	0.00	0.00	9.00	20.25	115.80	36.30	6.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	171.73	57.79	22.19	50.75	212.92	358.16	316.14	35.79	4.30	8.74	32.54	1271.06	MCM

Momentary Peak 159.00 CMS, at 5.56 m (A.D.), at 12.00 Hours, on Sep 29, 2008

Runoff Yield 3.51 Liters/Second/Square KM. Momentary Peak Yield 13.84 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	4,880 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** +8.140 m. (A.D.)
Gage Reading Frequency	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 Float	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +6.230 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 24 discharge measurements made in 2008.

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

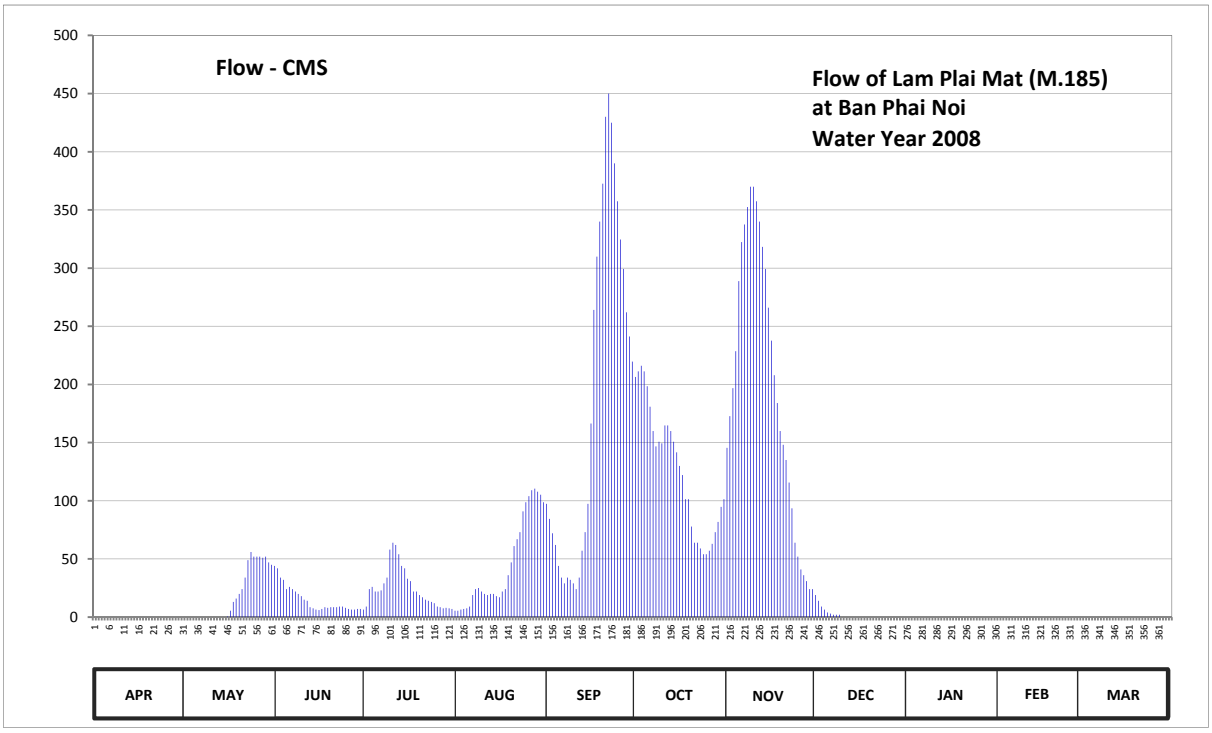
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.54	4.57	6.30	5.85	5.83	6.78	7.54	7.15	6.05	5.70	5.62	5.35	
2	4.53	4.58	6.28	5.90	5.83	6.68	7.57	7.33	6.00	5.70	5.60	5.34	
3	4.52	4.57	6.20	6.10	5.85	6.58	7.60	7.48	5.90	5.70	5.60	5.33	
4	4.52	4.60	6.18	6.12	5.86	6.48	7.57	7.67	5.85	5.70	5.58	5.32	
5	4.51	4.61	6.10	6.08	5.87	6.30	7.49	7.98	5.80	5.70	5.58	5.31	
6	4.50	4.58	6.12	6.08	5.90	6.20	7.38	8.14	5.75	5.70	5.58	5.30	
7	4.48	4.57	6.10	6.09	6.05	6.15	7.25	8.21	5.70	5.68	5.58	5.30	
8	4.48	4.56	6.08	6.15	6.10	6.20	7.16	8.27	5.70	5.68	5.58	5.30	
9	4.48	4.55	6.06	6.20	6.11	6.18	7.19	8.34	5.70	5.68	5.58	5.30	
10	4.48	4.54	6.04	6.44	6.08	6.15	7.18	8.34	5.85	5.65	5.57	5.30	
11	4.48	4.53	6.01	6.50	6.06	6.10	7.28	8.29	5.85	5.65	5.56	5.29	
12	4.48	4.58	6.00	6.48	6.05	6.20	7.28	8.22	5.85	5.65	5.54	5.29	
13	4.48	4.69	5.89	6.40	6.06	6.43	7.25	8.12	5.80	5.65	5.54	5.28	
14	4.48	4.71	5.87	6.30	6.06	6.59	7.19	8.03	5.80	5.65	5.54	5.28	
15	4.48	4.87	5.85	6.28	6.04	6.78	7.12	7.87	5.80	5.65	5.52	5.28	
16	4.48	5.37	5.84	6.19	6.03	7.29	7.03	7.72	5.80	5.65	5.50	5.26	
17	4.48	5.83	5.86	6.17	6.08	7.86	6.97	7.55	5.78	5.65	5.50	5.25	
18	4.48	5.98	5.89	6.08	6.10	8.08	6.81	7.40	5.75	5.65	5.50	5.25	
19	4.48	6.02	5.88	6.08	6.22	8.22	6.81	7.25	5.75	5.65	5.48	5.25	
20	4.48	6.06	5.89	6.05	6.33	8.35	6.63	7.17	5.75	5.65	5.48	5.25	
21	4.48	6.10	5.89	6.03	6.47	8.58	6.50	7.07	5.75	5.65	5.48	5.25	
22	4.46	6.20	5.89	6.01	6.53	8.66	6.50	6.92	5.72	5.65	5.45	5.24	
23	4.46	6.35	5.90	6.00	6.59	8.56	6.45	6.75	5.74	5.65	5.44	5.23	
24	4.45	6.42	5.90	5.98	6.73	8.42	6.40	6.50	5.74	5.65	5.43	5.23	
25	4.44	6.38	5.88	5.96	6.79	8.29	6.40	6.38	5.74	5.65	5.40	5.23	
26	4.43	6.38	5.86	5.90	6.83	8.15	6.43	6.27	5.74	5.65	5.39	5.23	
27	4.42	6.38	5.85	5.89	6.87	8.03	6.49	6.22	5.74	5.65	5.37	5.20	
28	4.41	6.37	5.85	5.87	6.88	7.85	6.59	6.17	5.73	5.65	5.35	5.20	
29	4.40	6.38	5.86	5.88	6.86	7.74	6.66	6.10	5.70	5.65		5.20	
30	4.58	6.33	5.86	5.87	6.84	7.62	6.76	6.10	5.70	5.65		5.20	
31		6.31		5.86	6.79		6.81		5.70	5.64		5.20	
Mean	4.48	5.42	5.97	6.09	6.28	7.25	6.98	7.37	5.78	5.66	5.51	5.27	
Max	4.58	6.42	6.30	6.50	6.88	8.66	7.60	8.34	6.05	5.70	5.62	5.35	8.66
Min	4.40	4.53	5.84	5.85	5.83	6.10	6.40	6.10	5.70	5.64	5.35	5.20	4.40

Annual Max Momentary Gage Height 8.68 m. (A.D.) , at 13.00 Hours, on Sep 22, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed -0.02 m. (A.D.)

Left Bank Elevation 6.47 m. (A.D.) ,

Right Bank Elevation 6.23 m. (A.D.) , Drainage Are 4,880 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	44.00	6.50	5.50	97.40	206.40	145.50	19.00	0.00	0.00	0.00		
2	0.00	0.00	42.00	9.00	5.50	84.40	211.20	172.80	14.00	0.00	0.00	0.00		
3	0.00	0.00	34.00	24.00	6.50	72.00	216.00	196.80	9.00	0.00	0.00	0.00		
4	0.00	0.00	32.00	26.00	7.00	62.00	211.20	228.60	6.50	0.00	0.00	0.00		
5	0.00	0.00	24.00	22.00	7.50	44.00	198.40	288.80	4.00	0.00	0.00	0.00		
6	0.00	0.00	26.00	22.00	9.00	34.00	180.80	322.40	3.00	0.00	0.00	0.00		
7	0.00	0.00	24.00	23.00	19.00	29.00	160.00	337.50	2.00	0.00	0.00	0.00		
8	0.00	0.00	22.00	29.00	24.00	34.00	146.80	352.50	2.00	0.00	0.00	0.00		
9	0.00	0.00	20.00	34.00	25.00	32.00	150.70	370.00	2.00	0.00	0.00	0.00		
10	0.00	0.00	18.00	58.00	22.00	29.00	149.40	370.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	15.00	64.00	20.00	24.00	164.80	357.50	0.00	0.00	0.00	0.00		
12	0.00	0.00	14.00	62.00	19.00	34.00	164.80	340.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	8.50	54.00	20.00	57.00	160.00	318.20	0.00	0.00	0.00	0.00		
14	0.00	0.00	7.50	44.00	20.00	73.00	150.70	299.30	0.00	0.00	0.00	0.00		
15	0.00	0.00	6.50	42.00	18.00	97.40	141.60	266.00	0.00	0.00	0.00	0.00		
16	0.00	0.56	6.00	33.00	17.00	166.40	129.90	237.60	0.00	0.00	0.00	0.00		
17	0.00	5.50	7.00	31.00	22.00	264.00	122.10	208.00	0.00	0.00	0.00	0.00		
18	0.00	13.00	8.50	22.00	24.00	309.80	101.30	184.00	0.00	0.00	0.00	0.00		
19	0.00	16.00	8.00	22.00	36.00	340.00	101.30	160.00	0.00	0.00	0.00	0.00		
20	0.00	20.00	8.50	19.00	47.00	372.50	77.90	148.10	0.00	0.00	0.00	0.00		
21	0.00	24.00	8.50	17.00	61.00	430.00	64.00	135.10	0.00	0.00	0.00	0.00		
22	0.00	34.00	8.50	15.00	67.00	450.00	64.00	115.60	0.00	0.00	0.00	0.00		
23	0.00	49.00	9.00	14.00	73.00	425.00	59.00	93.50	0.00	0.00	0.00	0.00		
24	0.00	56.00	9.00	13.00	90.90	390.00	54.00	64.00	0.00	0.00	0.00	0.00		
25	0.00	52.00	8.00	12.00	98.70	357.50	54.00	52.00	0.00	0.00	0.00	0.00		
26	0.00	52.00	7.00	9.00	103.90	324.50	57.00	41.00	0.00	0.00	0.00	0.00		
27	0.00	52.00	6.50	8.50	109.10	299.30	63.00	36.00	0.00	0.00	0.00	0.00		
28	0.00	51.00	6.50	7.50	110.40	262.00	73.00	31.00	0.00	0.00	0.00	0.00		
29	0.00	52.00	7.00	8.00	107.80	241.20	81.80	24.00	0.00	0.00		0.00		
30	0.00	47.00	7.00	7.50	105.20	219.60	94.80	24.00	0.00	0.00		0.00		
31		45.00		7.00	98.70		101.30		0.00	0.00		0.00		
Total	0.00	569.06	452.50	765.00	1399.70	5655.00	3911.20	5919.80	61.50	0.00	0.00	0.00	18733.76	CMSDAY
Mean	0.00	18.36	15.08	24.68	45.15	188.50	126.17	197.33	1.98	0.00	0.00	0.00	51.33	CMS
Max	0.00	56.00	44.00	64.00	110.40	450.00	216.00	370.00	19.00	0.00	0.00	0.00	450.00	CMS
Min	0.00	0.00	6.00	6.50	5.50	24.00	54.00	24.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	49.17	39.10	66.10	120.93	488.59	337.93	511.47	5.31	0.00	0.00	0.00	1618.60	MCM

Momentary Peak 455.00 CMS. at 8.68 m (A.D.), at 13.00 Hours, on Sep 22, 2008

Runoff Yield 10.52 Liters/Second/Square KM. Momentary Peak Yield 93.24 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Lam Chakkarat at Ban Non Koy, Nakhon Ratchasima (M.186)

Lat 15 - 03 - 58 N Long 102 - 24 - 09 E

Location : on right at the bridge on highway.

Ban Non Koy **Amphoe** Chakkarat **Changwat** Nakhon Ratchasima

Drainge Area	1,337 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** +4.787 m. (A.D.)
Gage Reading Frequency	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 Float	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fair stable.
Overbank Flow Conditions	Overbank flow starts at elevation +2.830 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 9 discharge measurements made in 2008.

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

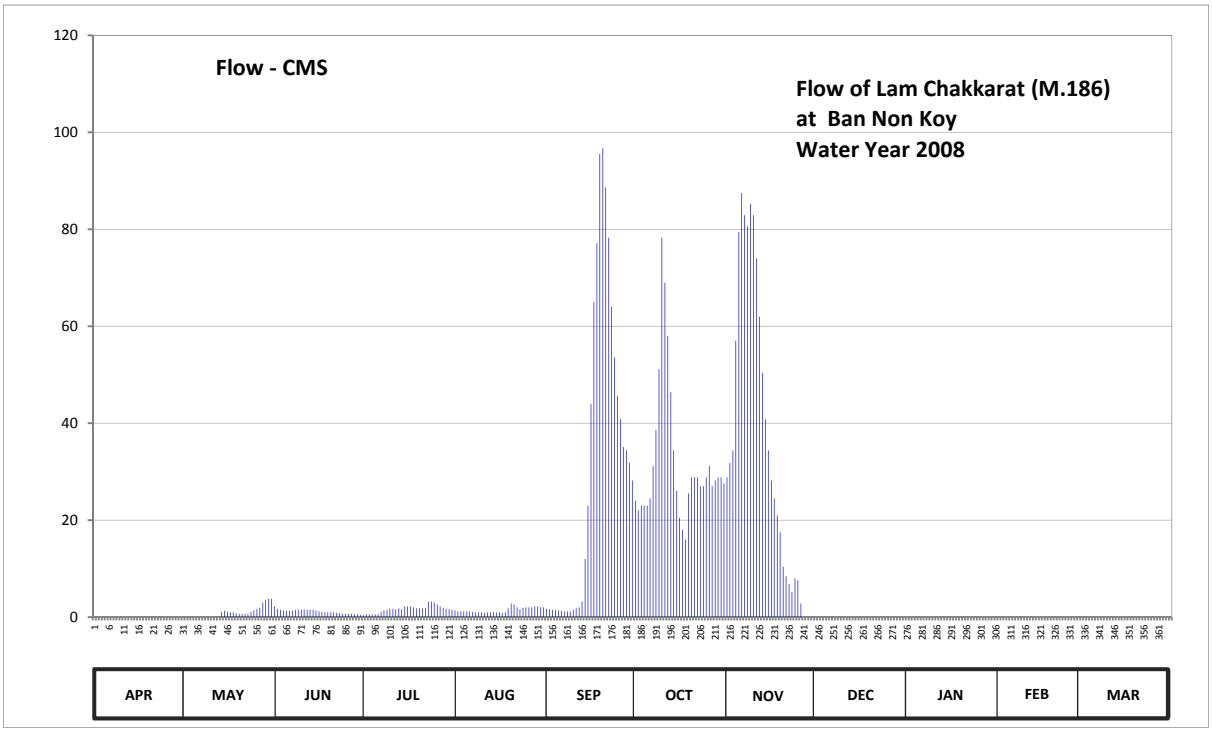
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.47	1.36	2.61	2.44	2.54	2.57	3.14	3.23	2.63	2.46	2.23	1.83	
2	1.46	1.40	2.57	2.46	2.52	2.56	3.10	3.28	2.62	2.46	2.22	1.83	
3	1.45	1.41	2.55	2.46	2.52	2.55	3.12	3.32	2.61	2.45	2.20	1.83	
4	1.44	1.50	2.54	2.46	2.52	2.55	3.12	3.61	2.60	2.46	2.20	1.82	
5	1.44	1.57	2.53	2.46	2.52	2.54	3.12	3.83	2.58	2.46	2.17	1.80	
6	1.50	1.61	2.53	2.46	2.52	2.53	3.15	3.90	2.57	2.46	2.16	1.80	
7	1.50	1.64	2.54	2.51	2.51	2.52	3.27	3.86	2.56	2.46	2.14	1.78	
8	1.52	1.66	2.55	2.54	2.50	2.52	3.38	3.84	2.56	2.46	2.12	1.77	
9	1.51	1.67	2.55	2.55	2.50	2.52	3.54	3.88	2.54	2.46	2.10	1.76	
10	1.51	1.67	2.55	2.57	2.50	2.55	3.82	3.86	2.53	2.45	2.08	1.75	
11	1.50	1.68	2.56	2.57	2.49	2.58	3.73	3.78	2.52	2.45	2.06	1.74	
12	1.49	1.78	2.55	2.56	2.50	2.60	3.62	3.66	2.52	2.44	2.03	1.71	
13	1.46	1.95	2.55	2.58	2.50	2.66	3.48	3.53	2.51	2.43	2.01	1.70	
14	1.45	2.51	2.55	2.56	2.51	2.90	3.32	3.41	2.51	2.41	1.99	1.69	
15	1.44	2.53	2.54	2.61	2.50	3.12	3.18	3.32	2.51	2.40	1.97	1.67	
16	1.44	2.51	2.52	2.61	2.50	3.45	3.07	3.22	2.51	2.38	1.96	1.66	
17	1.42	2.50	2.51	2.61	2.49	3.69	3.02	3.15	2.50	2.38	1.95	1.64	
18	1.41	2.50	2.50	2.60	2.50	3.81	2.98	3.08	2.50	2.37	1.93	1.67	
19	1.39	2.48	2.50	2.58	2.58	3.97	3.17	3.01	2.49	2.36	1.92	1.66	
20	1.38	2.47	2.50	2.58	2.64	3.98	3.23	2.86	2.49	2.35	1.93	1.66	
21	1.37	2.47	2.50	2.58	2.63	3.91	3.23	2.81	2.49	2.34	1.91	1.66	
22	1.35	2.47	2.49	2.59	2.60	3.82	3.23	2.77	2.48	2.33	1.90	1.66	
23	1.36	2.47	2.48	2.66	2.56	3.68	3.20	2.73	2.48	2.32	1.88	1.66	
24	1.34	2.51	2.47	2.66	2.59	3.57	3.20	2.80	2.48	2.31	1.87	1.66	
25	1.32	2.54	2.47	2.65	2.60	3.47	3.23	2.79	2.48	2.30	1.86	1.66	
26	1.31	2.57	2.47	2.63	2.60	3.41	3.27	2.64	2.47	2.30	1.85	1.65	
27	1.30	2.59	2.47	2.61	2.60	3.33	3.20	2.64	2.47	2.29	1.84	1.67	
28	1.31	2.65	2.46	2.59	2.61	3.32	3.22	2.64	2.47	2.27	1.83	1.66	
29	1.34	2.68	2.46	2.57	2.61	3.28	3.23	2.64	2.47	2.27		1.65	
30	1.37	2.69	2.45	2.56	2.60	3.22	3.23	2.64	2.46	2.26		1.65	
31		2.69		2.55	2.60		3.21		2.46	2.24		1.66	
Mean	1.42	2.15	2.52	2.56	2.55	3.11	3.26	3.22	2.52	2.38	2.01	1.71	
Max	1.52	2.69	2.61	2.66	2.64	3.98	3.82	3.90	2.63	2.46	2.23	1.83	3.98
Min	1.30	1.36	2.45	2.44	2.49	2.52	2.98	2.64	2.46	2.24	1.83	1.64	1.30

Annual Max Momentary Gage Height 3.98 m. (A.D.) , at 12.00 Hours, on Sep 19, 2008

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

Left Bank Elevation 2.82 m. (A.D.) ,

Right Bank Elevation 3.18 m. (A.D.) , Drainage Are 1,337 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.20	0.40	1.40	1.70	24.00	28.80	0.00	0.00	0.00	0.00		
2	0.00	0.00	1.70	0.60	1.20	1.60	22.00	31.80	0.00	0.00	0.00	0.00		
3	0.00	0.00	1.50	0.60	1.20	1.50	23.00	34.40	0.00	0.00	0.00	0.00		
4	0.00	0.00	1.40	0.60	1.20	1.50	23.00	57.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	1.30	0.60	1.20	1.40	23.00	79.45	0.00	0.00	0.00	0.00		
6	0.00	0.00	1.30	0.60	1.20	1.30	24.50	87.50	0.00	0.00	0.00	0.00		
7	0.00	0.00	1.40	1.10	1.10	1.20	31.20	82.90	0.00	0.00	0.00	0.00		
8	0.00	0.00	1.50	1.40	1.00	1.20	38.60	80.60	0.00	0.00	0.00	0.00		
9	0.00	0.00	1.50	1.50	1.00	1.20	51.20	85.20	0.00	0.00	0.00	0.00		
10	0.00	0.00	1.50	1.70	1.00	1.50	78.30	82.90	0.00	0.00	0.00	0.00		
11	0.00	0.00	1.60	1.70	0.90	1.80	69.00	74.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	1.50	1.60	1.00	2.00	58.00	62.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	1.50	1.80	1.00	3.20	46.40	50.40	0.00	0.00	0.00	0.00		
14	0.00	1.10	1.50	1.60	1.10	12.00	34.40	40.80	0.00	0.00	0.00	0.00		
15	0.00	1.30	1.40	2.20	1.00	23.00	26.00	34.40	0.00	0.00	0.00	0.00		
16	0.00	1.10	1.20	2.20	1.00	44.00	20.50	28.20	0.00	0.00	0.00	0.00		
17	0.00	1.00	1.10	2.20	0.90	65.00	18.00	24.50	0.00	0.00	0.00	0.00		
18	0.00	1.00	1.00	2.00	1.00	77.15	16.00	21.00	0.00	0.00	0.00	0.00		
19	0.00	0.80	1.00	1.80	1.80	95.55	25.50	17.50	0.00	0.00	0.00	0.00		
20	0.00	0.70	1.00	1.80	2.80	96.70	28.80	10.40	0.00	0.00	0.00	0.00		
21	0.00	0.70	1.00	1.80	2.60	88.65	28.80	8.40	0.00	0.00	0.00	0.00		
22	0.00	0.70	0.90	1.90	2.00	78.30	28.80	6.80	0.00	0.00	0.00	0.00		
23	0.00	0.70	0.80	3.20	1.60	64.00	27.00	5.20	0.00	0.00	0.00	0.00		
24	0.00	1.10	0.70	3.20	1.90	53.60	27.00	8.00	0.00	0.00	0.00	0.00		
25	0.00	1.40	0.70	3.00	2.00	45.60	28.80	7.60	0.00	0.00	0.00	0.00		
26	0.00	1.70	0.70	2.60	2.00	40.80	31.20	2.80	0.00	0.00	0.00	0.00		
27	0.00	1.90	0.70	2.20	2.00	35.10	27.00	0.00	0.00	0.00	0.00	0.00		
28	0.00	3.00	0.60	1.90	2.20	34.40	28.20	0.00	0.00	0.00	0.00	0.00		
29	0.00	3.60	0.60	1.70	2.20	31.80	28.80	0.00	0.00	0.00		0.00		
30	0.00	3.80	0.50	1.60	2.00	28.20	28.80	0.00	0.00	0.00		0.00		
31		3.80		1.50	2.00		27.60		0.00	0.00		0.00		
Total	0.00	29.40	35.30	52.60	46.50	934.95	993.40	1052.55	0.00	0.00	0.00	0.00	3144.70	CMSDAY
Mean	0.00	0.95	1.18	1.70	1.50	31.16	32.05	35.09	0.00	0.00	0.00	0.00	8.62	CMS
Max	0.00	3.80	2.20	3.20	2.80	96.70	78.30	87.50	0.00	0.00	0.00	0.00	96.70	CMS
Min	0.00	0.00	0.50	0.40	0.90	1.20	16.00	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	2.54	3.05	4.54	4.02	80.78	85.83	90.94	0.00	0.00	0.00	0.00	271.70	MCM

Momentary Peak 96.70 CMS. at 3.98 m (A.D), at 12.00 Hours, on Oct 19, 2008

Runoff Yield 6.44 Liters/Second/Square KM. Momentary Peak Yield 72.32 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Huai Sanaeng at Mueang, Surin (M.187)

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

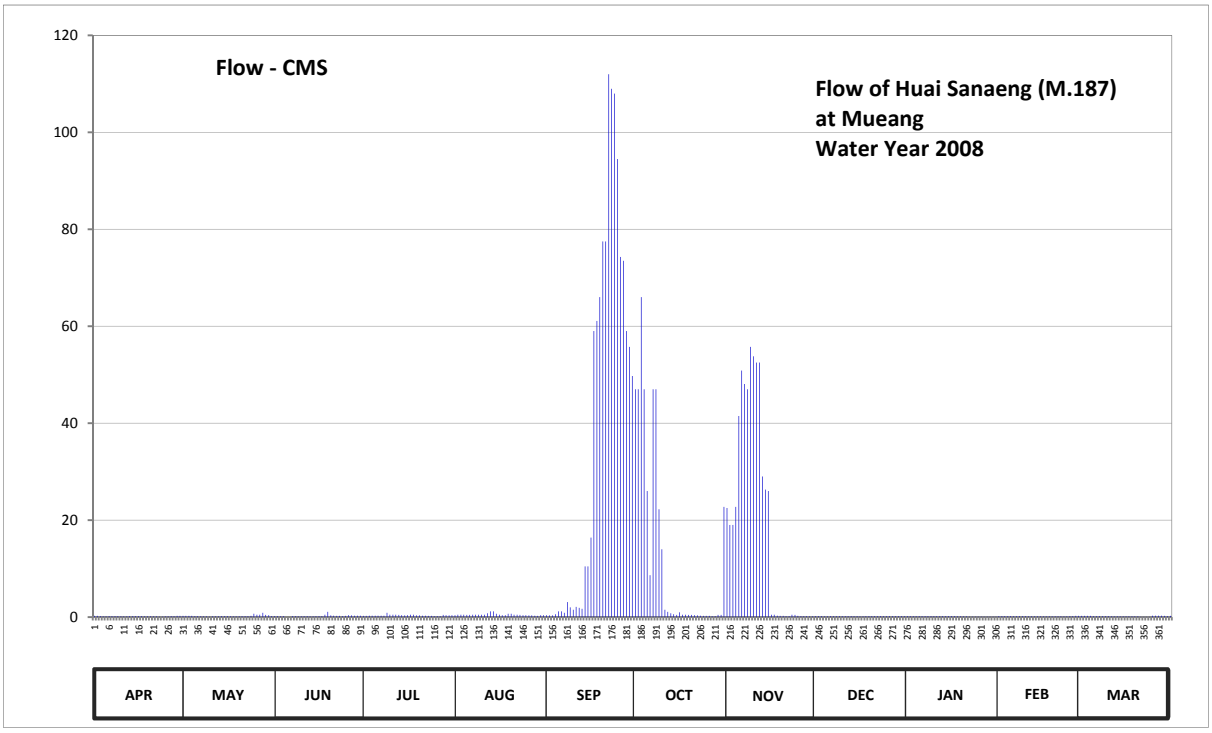
Location : on right at the bridge on highway.

	Ban	-	**Amphoe**	Mueang	**Changwat**	Surin
Drainge 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**	+5.228 m. (A.D.)
Gage Reading Frequency	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 Float	-					
Rated by Current Meter	2008 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 2008.					

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.45	1.45	1.44	1.45	1.48	1.48	3.70	3.06	1.44	1.44	1.44	1.45	
2	1.45	1.45	1.44	1.45	1.50	1.47	3.70	2.90	1.44	1.44	1.44	1.45	
3	1.44	1.45	1.43	1.46	1.50	1.47	4.00	2.90	1.44	1.44	1.44	1.45	
4	1.43	1.45	1.44	1.46	1.50	1.51	3.70	3.07	1.43	1.44	1.44	1.45	
5	1.43	1.44	1.31	1.46	1.49	1.57	3.20	3.60	1.43	1.44	1.44	1.44	
6	1.44	1.44	1.31	1.46	1.49	1.57	2.31	3.77	1.44	1.44	1.44	1.44	
7	1.44	1.43	1.44	1.46	1.50	1.54	3.70	3.72	1.44	1.44	1.44	1.44	
8	1.44	1.43	1.44	1.46	1.50	1.76	3.70	3.70	1.44	1.44	1.44	1.44	
9	1.44	1.43	1.43	1.54	1.50	1.65	3.05	3.85	1.44	1.44	1.44	1.44	
10	1.43	1.42	1.43	1.50	1.50	1.60	2.65	3.82	1.44	1.44	1.44	1.44	
11	1.43	1.43	1.44	1.50	1.50	1.66	1.60	3.80	1.44	1.44	1.43	1.43	
12	1.43	1.43	1.44	1.50	1.53	1.64	1.56	3.80	1.44	1.44	1.43	1.43	
13	1.44	1.43	1.43	1.49	1.57	1.62	1.53	3.30	1.44	1.44	1.43	1.43	
14	1.44	1.44	1.43	1.48	1.57	2.43	1.51	3.21	1.44	1.44	1.43	1.43	
15	1.44	1.44	1.44	1.47	1.52	2.43	1.49	3.20	1.44	1.44	1.43	1.43	
16	1.44	1.44	1.44	1.48	1.50	2.77	1.55	1.50	1.43	1.44	1.43	1.43	
17	1.44	1.43	1.44	1.50	1.48	3.90	1.50	1.50	1.43	1.44	1.43	1.43	
18	1.43	1.43	1.50	1.50	1.48	3.93	1.50	1.46	1.44	1.43	1.43	1.43	
19	1.43	1.43	1.56	1.47	1.52	4.00	1.49	1.45	1.44	1.43	1.43	1.43	
20	1.43	1.43	1.47	1.47	1.52	4.15	1.49	1.45	1.44	1.43	1.43	1.43	
21	1.43	1.44	1.46	1.46	1.50	4.15	1.48	1.44	1.44	1.43	1.43	1.41	
22	1.43	1.44	1.45	1.46	1.50	4.53	1.47	1.44	1.44	1.42	1.43	1.41	
23	1.42	1.44	1.45	1.45	1.49	4.50	1.46	1.50	1.44	1.42	1.43	1.41	
24	1.42	1.45	1.44	1.45	1.48	4.49	1.45	1.49	1.44	1.42	1.43	1.41	
25	1.43	1.52	1.45	1.44	1.48	4.35	1.45	1.45	1.44	1.42	1.44	1.46	
26	1.43	1.50	1.48	1.44	1.47	4.11	1.45	1.44	1.44	1.42	1.44	1.46	
27	1.44	1.50	1.47	1.44	1.47	4.10	1.44	1.44	1.44	1.42	1.45	1.46	
28	1.44	1.54	1.46	1.49	1.46	3.90	1.44	1.44	1.44	1.42	1.45	1.46	
29	1.45	1.49	1.46	1.48	1.45	3.85	1.49	1.43	1.44	1.42		1.45	
30	1.45	1.48	1.46	1.47	1.48	3.75	1.49	1.43	1.44	1.42		1.44	
31		1.44		1.48	1.48		3.07		1.44	1.42		1.45	
Mean	1.44	1.45	1.44	1.47	1.50	2.86	2.15	2.45	1.44	1.43	1.44	1.44	
Max	1.45	1.54	1.56	1.54	1.57	4.53	4.00	3.85	1.44	1.44	1.45	1.46	4.53
Min	1.42	1.42	1.31	1.44	1.45	1.47	1.44	1.43	1.43	1.42	1.43	1.41	1.31

Annual Max Momentary Gage Height	4.53	m. (A.D.) ,	at 06.00 Hours , on Sep 22 , 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	0.02	m. (A.D.)
Left Bank Elevation	5.23	m. (A.D.) ,			
Right Bank Elevation	6.41	m. (A.D.) ,	Drainage Are	614	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.25	0.25	0.20	0.25	0.40	0.40	47.00	22.50	0.20	0.20	0.20	0.25		
2	0.25	0.25	0.20	0.25	0.50	0.35	47.00	19.00	0.20	0.20	0.20	0.25		
3	0.20	0.25	0.15	0.30	0.50	0.35	66.00	19.00	0.20	0.20	0.20	0.25		
4	0.15	0.25	0.20	0.30	0.50	0.60	47.00	22.75	0.15	0.20	0.20	0.25		
5	0.15	0.20	0.00	0.30	0.45	1.20	26.00	41.50	0.15	0.20	0.20	0.20		
6	0.20	0.20	0.00	0.30	0.45	1.20	8.65	50.85	0.20	0.20	0.20	0.20		
7	0.20	0.15	0.20	0.30	0.50	0.90	47.00	48.10	0.20	0.20	0.20	0.20		
8	0.20	0.15	0.20	0.30	0.50	3.10	47.00	47.00	0.20	0.20	0.20	0.20		
9	0.20	0.15	0.15	0.90	0.50	2.00	22.25	55.75	0.20	0.20	0.20	0.20		
10	0.15	0.10	0.15	0.50	0.50	1.50	14.00	53.80	0.20	0.20	0.20	0.20		
11	0.15	0.15	0.20	0.50	0.50	2.10	1.50	52.50	0.20	0.20	0.15	0.15		
12	0.15	0.15	0.20	0.50	0.80	1.90	1.10	52.50	0.20	0.20	0.15	0.15		
13	0.20	0.15	0.15	0.45	1.20	1.70	0.80	29.00	0.20	0.20	0.15	0.15		
14	0.20	0.20	0.15	0.40	1.20	10.45	0.60	26.30	0.20	0.20	0.15	0.15		
15	0.20	0.20	0.20	0.35	0.70	10.45	0.45	26.00	0.20	0.20	0.15	0.15		
16	0.20	0.20	0.20	0.40	0.50	16.40	1.00	0.50	0.15	0.20	0.15	0.15		
17	0.20	0.15	0.20	0.50	0.40	59.00	0.50	0.50	0.15	0.20	0.15	0.15		
18	0.15	0.15	0.50	0.50	0.40	61.10	0.50	0.30	0.20	0.15	0.15	0.15		
19	0.15	0.15	1.10	0.35	0.70	66.00	0.45	0.25	0.20	0.15	0.15	0.15		
20	0.15	0.15	0.35	0.35	0.70	77.50	0.45	0.25	0.20	0.15	0.15	0.15		
21	0.15	0.20	0.30	0.30	0.50	77.50	0.40	0.20	0.20	0.15	0.15	0.05		
22	0.15	0.20	0.25	0.30	0.50	112.00	0.35	0.20	0.20	0.10	0.15	0.05		
23	0.10	0.20	0.25	0.25	0.45	109.00	0.30	0.50	0.20	0.10	0.15	0.05		
24	0.10	0.25	0.20	0.25	0.40	108.00	0.25	0.45	0.20	0.10	0.15	0.05		
25	0.15	0.70	0.25	0.20	0.40	94.50	0.25	0.25	0.20	0.10	0.20	0.30		
26	0.15	0.50	0.40	0.20	0.35	74.30	0.25	0.20	0.20	0.10	0.20	0.30		
27	0.20	0.50	0.35	0.20	0.35	73.50	0.20	0.20	0.20	0.10	0.25	0.30		
28	0.20	0.90	0.30	0.45	0.30	59.00	0.20	0.20	0.20	0.10	0.25	0.30		
29	0.25	0.45	0.30	0.40	0.25	55.75	0.45	0.15	0.20	0.10		0.25		
30	0.25	0.40	0.30	0.35	0.40	49.75	0.45	0.15	0.20	0.10		0.20		
31		0.20		0.40	0.40		22.75		0.20	0.10		0.25		
Total	5.40	8.10	7.60	11.30	16.20	1131.50	405.10	570.85	6.00	5.00	5.00	5.80	2177.85	CMSDAY
Mean	0.18	0.26	0.25	0.36	0.52	37.72	13.07	19.03	0.19	0.16	0.18	0.19	5.97	CMS
Max	0.25	0.90	1.10	0.90	1.20	112.00	66.00	55.75	0.20	0.20	0.25	0.30	112.00	CMS
Min	0.10	0.10	0.00	0.20	0.25	0.35	0.20	0.15	0.15	0.10	0.15	0.05	0.00	CMS
Runoff	0.47	0.70	0.66	0.98	1.40	97.76	35.00	49.32	0.52	0.43	0.43	0.50	188.17	MCM

Momentary Peak 112.00 CMS. at 4.53 m. (A.D), at 06.00 Hours, on Sep 22, 2008

Runoff Yield 9.31 Liters/Second/Square KM. Momentary Peak Yield 174.73 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

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

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

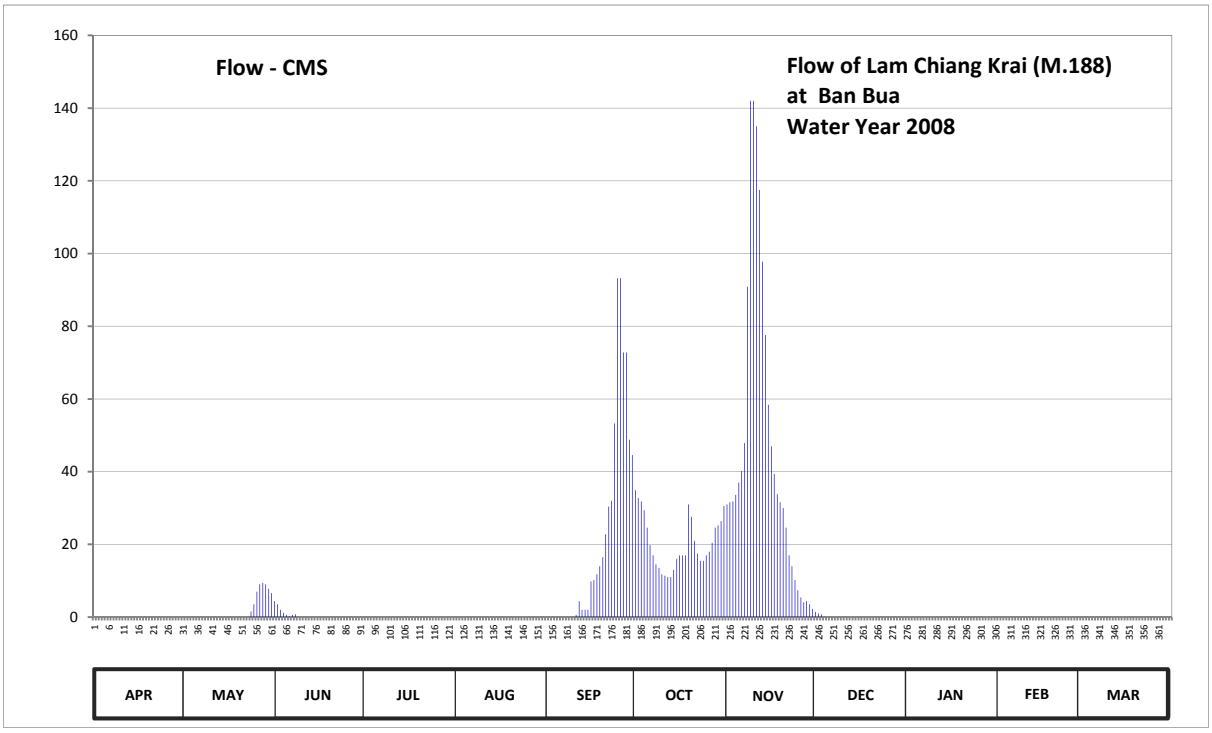
Location : on right at the bridge on highway.

	Ban Bua	**Amphoe** Non Sung	**Changwat** Nakhon Ratchasima
Drainge Area	2,764 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** +4.293 m. (A.D.)
Gage Reading Frequency	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 Float	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +3.070 m.(A.D.), records are channel flow only.		
General Description	Records fair. Stage-discharge relation defined by 8 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.30	2.64	2.98	2.59	2.49	2.67	3.73	3.55	2.87	2.78	2.45	2.26	
2	2.19	2.62	2.95	2.60	2.49	2.67	3.64	3.58	2.85	2.75	2.44	2.26	
3	2.18	2.62	2.90	2.60	2.49	2.66	3.59	3.59	2.84	2.73	2.43	2.26	
4	2.17	2.62	2.86	2.60	2.54	2.67	3.49	3.68	2.80	2.73	2.42	2.26	
5	2.17	2.62	2.83	2.59	2.60	2.67	3.41	3.80	2.79	2.73	2.41	2.25	
6	2.17	2.62	2.81	2.59	2.60	2.67	3.33	3.88	2.78	2.71	2.40	2.25	
7	2.18	2.64	2.83	2.59	2.60	2.67	3.28	4.01	2.76	2.69	2.40	2.25	
8	2.22	2.64	2.84	2.60	2.59	2.68	3.23	4.33	2.72	2.68	2.39	2.24	
9	2.33	2.64	2.80	2.60	2.58	2.70	3.21	4.50	2.68	2.67	2.37	2.23	
10	2.45	2.63	2.79	2.60	2.58	2.75	3.17	4.50	2.68	2.65	2.36	2.22	
11	2.44	2.64	2.76	2.60	2.58	2.83	3.16	4.48	2.68	2.65	2.36	2.20	
12	2.44	2.68	2.76	2.60	2.60	2.98	3.15	4.43	2.90	2.65	2.36	2.20	
13	2.43	2.66	2.76	2.60	2.61	2.90	3.15	4.36	2.86	2.65	2.35	2.18	
14	2.43	2.67	2.76	2.60	2.61	2.90	3.20	4.26	2.86	2.64	2.33	2.17	
15	2.42	2.67	2.77	2.60	2.61	2.90	3.26	4.12	2.90	2.61	2.33	2.17	
16	2.42	2.66	2.75	2.60	2.60	3.12	3.28	4.00	2.90	2.59	2.31	2.16	
17	2.41	2.66	2.75	2.60	2.60	3.13	3.28	3.86	2.90	2.58	2.31	2.16	
18	2.41	2.66	2.75	2.60	2.60	3.17	3.28	3.69	2.90	2.56	2.30	2.15	
19	2.41	2.66	2.75	2.60	2.62	3.22	3.55	3.58	2.90	2.56	2.29	2.17	
20	2.41	2.65	2.74	2.60	2.62	3.27	3.46	3.50	2.87	2.55	2.32	2.17	
21	2.40	2.67	2.73	2.60	2.64	3.38	3.35	3.41	2.86	2.55	2.30	2.17	
22	2.40	2.73	2.70	2.60	2.65	3.52	3.29	3.28	2.83	2.53	2.30	2.17	
23	2.41	2.80	2.69	2.60	2.67	3.60	3.25	3.22	2.80	2.53	2.29	2.17	
24	2.42	2.88	2.68	2.08	2.68	4.07	3.25	3.13	2.80	2.50	2.28	2.16	
25	2.41	2.95	2.67	2.58	2.68	4.34	3.28	3.06	2.80	2.50	2.28	2.15	
26	2.40	3.05	2.65	2.56	2.68	4.34	3.30	3.01	2.80	2.48	2.28	2.15	
27	2.42	3.10	2.61	2.56	2.68	4.23	3.34	2.97	2.80	2.48	2.28	2.18	
28	2.42	3.11	2.59	2.55	2.68	4.23	3.41	2.98	2.80	2.47	2.27	2.18	
29	2.50	3.10	2.59	2.52	2.68	4.02	3.42	2.95	2.80	2.47		2.17	
30	2.63	3.07	2.59	2.49	2.70	3.96	3.44	2.91	2.79	2.47		2.17	
31		3.04		2.49	2.71		3.53		2.78	2.47		2.17	
Mean	2.37	2.75	2.75	2.57	2.61	3.23	3.35	3.69	2.82	2.60	2.34	2.20	
Max	2.63	3.11	2.98	2.60	2.71	4.34	3.73	4.50	2.90	2.78	2.45	2.26	4.50
Min	2.17	2.62	2.59	2.08	2.49	2.66	3.15	2.91	2.68	2.47	2.27	2.15	2.08

Annual Max Momentary Gage Height	4.50	m. (A.D.) ,	at 06.00 Hours , on Nov 9, 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	0.11	m. (A.D.)
Left Bank Elevation	4.29	m. (A.D.) ,			
Right Bank Elevation	3.07	m. (A.D.) ,	Drainage Are	2,764	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	4.40	0.00	0.00	0.00	34.90	31.00	1.40	0.00	0.00	0.00		
2	0.00	0.00	3.50	0.00	0.00	0.00	32.80	31.60	1.00	0.00	0.00	0.00		
3	0.00	0.00	2.00	0.00	0.00	0.00	31.80	31.80	0.80	0.00	0.00	0.00		
4	0.00	0.00	1.20	0.00	0.00	0.00	29.40	33.60	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.60	0.00	0.00	0.00	24.60	37.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.20	0.00	0.00	0.00	19.80	40.20	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.60	0.00	0.00	0.00	17.00	47.90	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.80	0.00	0.00	0.00	14.50	90.90	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.00	0.00	13.50	142.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.00	0.00	11.80	142.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.00	0.00	0.00	0.60	11.40	135.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.00	0.00	0.00	4.40	11.00	117.50	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.00	0.00	0.00	2.00	11.00	97.80	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.00	0.00	0.00	2.00	13.00	77.60	0.00	0.00	0.00	0.00		
15	0.00	0.00	0.00	0.00	0.00	2.00	16.00	58.40	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	9.80	17.00	47.00	0.00	0.00	0.00	0.00		
17	0.00	0.00	0.00	0.00	0.00	10.20	17.00	39.40	0.00	0.00	0.00	0.00		
18	0.00	0.00	0.00	0.00	0.00	11.80	17.00	33.80	0.00	0.00	0.00	0.00		
19	0.00	0.00	0.00	0.00	0.00	14.00	31.00	31.60	0.00	0.00	0.00	0.00		
20	0.00	0.00	0.00	0.00	0.00	16.50	27.60	30.00	0.00	0.00	0.00	0.00		
21	0.00	0.00	0.00	0.00	0.00	22.80	21.00	24.60	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.00	0.00	0.00	30.40	17.50	17.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.00	0.00	0.00	32.00	15.50	14.00	0.00	0.00	0.00	0.00		
24	0.00	1.60	0.00	0.00	0.00	53.30	15.50	10.20	0.00	0.00	0.00	0.00		
25	0.00	3.50	0.00	0.00	0.00	93.20	17.00	7.40	0.00	0.00	0.00	0.00		
26	0.00	7.00	0.00	0.00	0.00	93.20	18.00	5.40	0.00	0.00	0.00	0.00		
27	0.00	9.00	0.00	0.00	0.00	72.80	20.40	4.10	0.00	0.00	0.00	0.00		
28	0.00	9.40	0.00	0.00	0.00	72.80	24.60	4.40	0.00	0.00	0.00	0.00		
29	0.00	9.00	0.00	0.00	0.00	48.80	25.20	3.50	0.00	0.00		0.00		
30	0.00	7.80	0.00	0.00	0.00	44.60	26.40	2.30	0.00	0.00		0.00		
31		6.60		0.00	0.00		30.60		0.00	0.00		0.00		
Total	0.00	53.90	13.30	0.00	0.00	637.20	633.80	1389.00	3.20	0.00	0.00	0.00	2730.40	CMSDAY
Mean	0.00	1.74	0.44	0.00	0.00	21.24	20.45	46.30	0.10	0.00	0.00	0.00	7.48	CMS
Max	0.00	9.40	4.40	0.00	0.00	93.20	34.90	142.00	1.40	0.00	0.00	0.00	142.00	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	11.00	2.30	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	4.66	1.15	0.00	0.00	55.05	54.76	120.01	0.28	0.00	0.00	0.00	235.91	MCM

Momentary Peak 142.00 CMS. at 4.50 m. (MSL.), at 06.00 Hours, on Nov 9, 2008

Runoff Yield 2.71 Liters/Second/Square KM. Momentary Peak Yield 51.38 Liters/Second/Square KM.

WATER YEAR : 2008

MUN RIVER BASIN

Lam Ta Khong at Ban Duae, Nakhon Ratchasima (M.189)

Lat 08 - 01 - 10 N Long 98 - 18 - 56 E

Location : on right at the bridge on highway.

	Ban Duae	**Amphoe** Mueang	**Changwat** Nakhon Ratchasima
Drainge Area	2,918 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** +3.592 m. (A.D.)
Gage Reading Frequency	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 Float	-		
Rated by Current Meter	2008 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

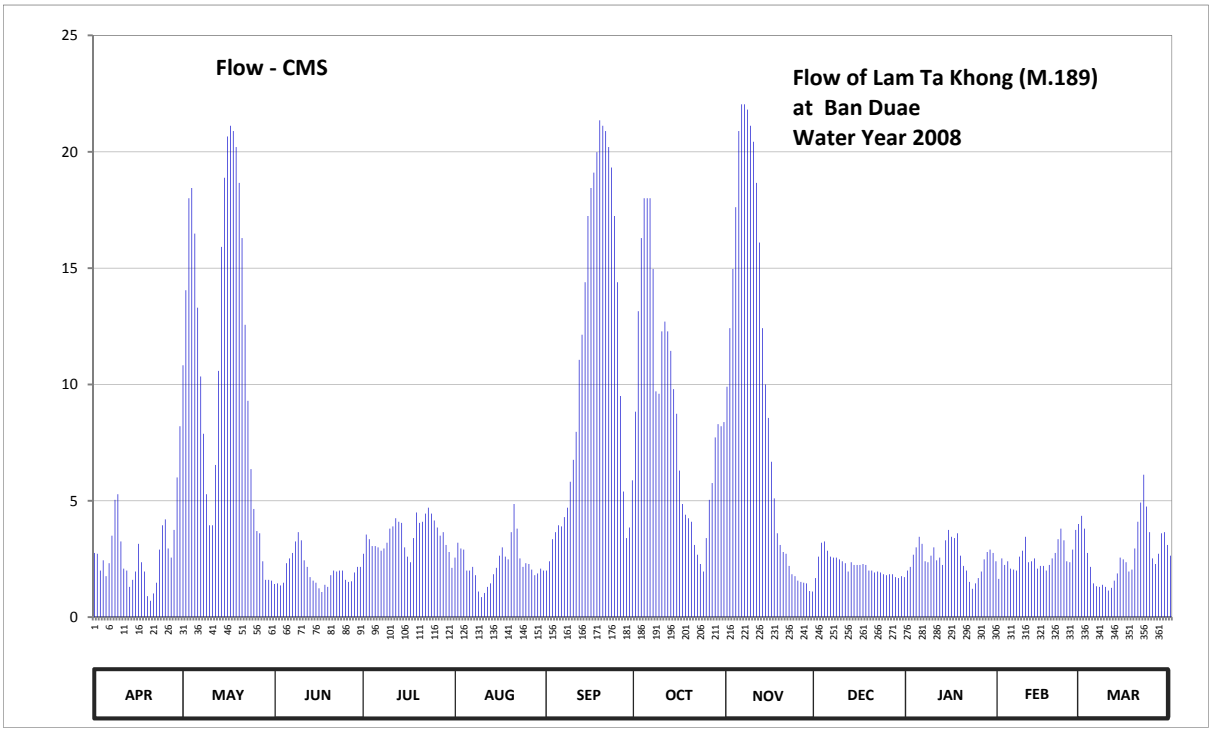
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.39	2.56	1.04	1.38	1.34	1.20	2.37	2.48	1.12	1.20	1.11	1.71	
2	1.38	2.79	1.05	1.55	1.48	1.30	2.73	2.68	1.35	1.24	1.33	1.60	
3	1.20	3.00	1.02	1.51	1.43	1.51	2.91	2.84	1.48	1.37	1.26	1.39	
4	1.31	3.02	1.06	1.45	1.42	1.57	3.00	2.98	1.49	1.44	1.30	1.24	
5	1.14	2.92	1.28	1.45	1.20	1.63	3.00	3.13	1.41	1.53	1.22	1.05	
6	1.28	2.74	1.33	1.44	1.20	1.62	3.00	3.18	1.35	1.47	1.21	1.01	
7	1.54	2.52	1.39	1.41	1.24	1.70	2.84	3.18	1.34	1.30	1.20	1.00	
8	1.84	2.26	1.49	1.43	1.15	1.78	2.46	3.17	1.34	1.29	1.35	1.03	
9	1.88	1.88	1.57	1.48	0.90	1.97	2.45	3.14	1.32	1.36	1.41	1.00	
10	1.49	1.63	1.50	1.60	0.78	2.12	2.67	3.11	1.30	1.44	1.53	0.92	
11	1.22	1.63	1.31	1.62	0.87	2.27	2.70	3.03	1.28	1.31	1.29	0.98	
12	1.20	2.09	1.24	1.69	1.00	2.58	2.67	2.90	1.19	1.34	1.30	1.09	
13	1.00	2.54	1.13	1.66	1.05	2.66	2.61	2.68	1.29	1.26	1.33	1.17	
14	1.10	2.89	1.09	1.65	1.16	2.81	2.47	2.49	1.26	1.50	1.22	1.34	
15	1.19	3.04	1.06	1.44	1.23	2.96	2.36	2.34	1.26	1.59	1.25	1.32	
16	1.47	3.12	0.97	1.35	1.36	3.02	2.05	2.11	1.26	1.53	1.25	1.29	
17	1.29	3.14	0.89	1.29	1.44	3.05	1.81	1.85	1.27	1.52	1.20	1.19	
18	1.19	3.13	1.03	1.52	1.35	3.09	1.72	1.56	1.26	1.56	1.26	1.21	
19	0.80	3.10	1.00	1.74	1.32	3.15	1.69	1.46	1.20	1.36	1.33	1.43	
20	0.70	3.03	1.15	1.65	1.57	3.14	1.66	1.40	1.20	1.25	1.39	1.66	
21	0.86	2.91	1.20	1.66	1.81	3.13	1.46	1.38	1.18	1.20	1.51	1.82	
22	1.06	2.69	1.19	1.73	1.60	3.10	1.37	1.25	1.19	1.07	1.60	2.02	
23	1.42	2.42	1.20	1.78	1.33	3.06	1.27	1.16	1.18	0.96	1.50	1.79	
24	1.63	2.06	1.20	1.73	1.24	2.96	1.19	1.14	1.16	1.05	1.30	1.57	
25	1.68	1.77	1.10	1.67	1.28	2.81	1.52	1.09	1.15	1.12	1.29	1.33	
26	1.43	1.58	1.07	1.61	1.27	2.44	1.84	1.07	1.16	1.19	1.42	1.27	
27	1.34	1.56	1.08	1.54	1.21	1.90	1.96	1.06	1.16	1.32	1.59	1.38	
28	1.59	1.30	1.18	1.57	1.15	1.52	2.24	1.05	1.13	1.40	1.64	1.56	
29	2.00	1.10	1.24	1.46	1.17	1.61	2.31	0.91	1.12	1.42		1.57	
30	2.30	1.10	1.24	1.40	1.22	1.98	2.30	0.90	1.14	1.39		1.46	
31		1.09		1.23	1.20		2.32		1.13	1.30		1.36	
Mean	1.36	2.34	1.18	1.54	1.26	2.32	2.22	2.09	1.25	1.33	1.34	1.35	
Max	2.30	3.14	1.57	1.78	1.81	3.15	3.00	3.18	1.49	1.59	1.64	2.02	3.18
Min	0.70	1.09	0.89	1.23	0.78	1.20	1.19	0.90	1.12	0.96	1.11	0.92	0.70

Annual Max Momentary Gage Height 3.20 m. (A.D.) , at 15.00 Hours , on Nov 6, 2008

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

Left Bank Elevation 3.35 m. (A.D.) ,

Right Bank Elevation 3.28 m. (A.D.) , Drainage Are 2,918 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.76	10.82	1.42	2.72	2.56	2.00	8.83	9.90	1.68	2.00	1.64	4.35		
2	2.72	14.05	1.45	3.55	3.20	2.40	13.15	12.42	2.60	2.16	2.52	3.80		
3	2.00	18.00	1.36	3.35	2.95	3.35	16.29	14.96	3.20	2.68	2.24	2.76		
4	2.44	18.44	1.48	3.05	2.90	3.65	18.00	17.62	3.25	3.00	2.40	2.16		
5	1.76	16.48	2.32	3.05	2.00	3.95	18.00	20.89	2.85	3.45	2.08	1.45		
6	2.32	13.30	2.52	3.00	2.00	3.90	18.00	22.04	2.60	3.15	2.04	1.33		
7	3.50	10.34	2.76	2.85	2.16	4.30	14.96	22.04	2.56	2.40	2.00	1.30		
8	5.04	7.88	3.25	2.95	1.80	4.70	9.70	21.81	2.56	2.36	2.60	1.39		
9	5.28	5.28	3.65	3.20	1.10	5.82	9.60	21.12	2.48	2.64	2.85	1.30		
10	3.25	3.95	3.30	3.80	0.86	6.76	12.28	20.43	2.40	3.00	3.45	1.14		
11	2.08	3.95	2.44	3.90	1.04	7.96	12.70	18.66	2.32	2.44	2.36	1.26		
12	2.00	6.54	2.16	4.25	1.30	11.06	12.28	16.10	1.96	2.56	2.40	1.57		
13	1.30	10.58	1.72	4.10	1.45	12.14	11.44	12.42	2.36	2.24	2.52	1.88		
14	1.60	15.91	1.57	4.05	1.84	14.39	9.80	10.00	2.24	3.30	2.08	2.56		
15	1.96	18.88	1.48	3.00	2.12	17.24	8.74	8.56	2.24	3.75	2.20	2.48		
16	3.15	20.66	1.24	2.60	2.64	18.44	6.30	6.68	2.24	3.45	2.20	2.36		
17	2.36	21.12	1.08	2.36	3.00	19.10	4.86	5.10	2.28	3.40	2.00	1.96		
18	1.96	20.89	1.39	3.40	2.60	19.98	4.40	3.60	2.24	3.60	2.24	2.04		
19	0.90	20.20	1.30	4.50	2.48	21.35	4.25	3.10	2.00	2.64	2.52	2.95		
20	0.70	18.66	1.80	4.05	3.65	21.12	4.10	2.80	2.00	2.20	2.76	4.10		
21	1.02	16.29	2.00	4.10	4.86	20.89	3.10	2.72	1.92	2.00	3.35	4.92		
22	1.48	12.56	1.96	4.45	3.80	20.20	2.68	2.20	1.96	1.51	3.80	6.12		
23	2.90	9.30	2.00	4.70	2.52	19.32	2.28	1.84	1.92	1.22	3.30	4.75		
24	3.95	6.36	2.00	4.45	2.16	17.24	1.96	1.76	1.84	1.45	2.40	3.65		
25	4.20	4.65	1.60	4.15	2.32	14.39	3.40	1.57	1.80	1.68	2.36	2.52		
26	2.95	3.70	1.51	3.85	2.28	9.50	5.04	1.51	1.84	1.96	2.90	2.28		
27	2.56	3.60	1.54	3.50	2.04	5.40	5.76	1.48	1.84	2.48	3.75	2.72		
28	3.75	2.40	1.92	3.65	1.80	3.40	7.72	1.45	1.72	2.80	4.00	3.60		
29	6.00	1.60	2.16	3.10	1.88	3.85	8.29	1.12	1.68	2.90		3.65		
30	8.20	1.60	2.16	2.80	2.08	5.88	8.20	1.10	1.76	2.76		3.10		
31		1.57		2.12	2.00		8.38		1.72	2.40		2.64		
Total	86.09	339.56	58.54	108.60	71.39	323.68	274.49	287.00	68.06	79.58	72.96	84.09	1854.04	CMSDAY
Mean	2.87	10.95	1.95	3.50	2.30	10.79	8.85	9.57	2.20	2.57	2.61	2.71	5.08	CMS
Max	8.20	21.12	3.65	4.70	4.86	21.35	18.00	22.04	3.25	3.75	4.00	6.12	22.04	CMS
Min	0.70	1.57	1.08	2.12	0.86	2.00	1.96	1.10	1.68	1.22	1.64	1.14	0.70	CMS
Runoff	7.44	29.34	5.06	9.38	6.17	27.97	23.72	24.80	5.88	6.88	6.30	7.27	160.19	MCM

Momentary Peak 22.50 CMS. at 3.20 m. (MSL.), at 15.00 Hours, on Nov 6, 2008

Runoff Yield 1.74 Liters/Second/Square KM. Momentary Peak Yield 7.71 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	2,339 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** +10.049 m. (A.D.)
Gage Reading Frequency	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 Float	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +7.200 m.(A.D.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 14 discharge measurements made in 2008.

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

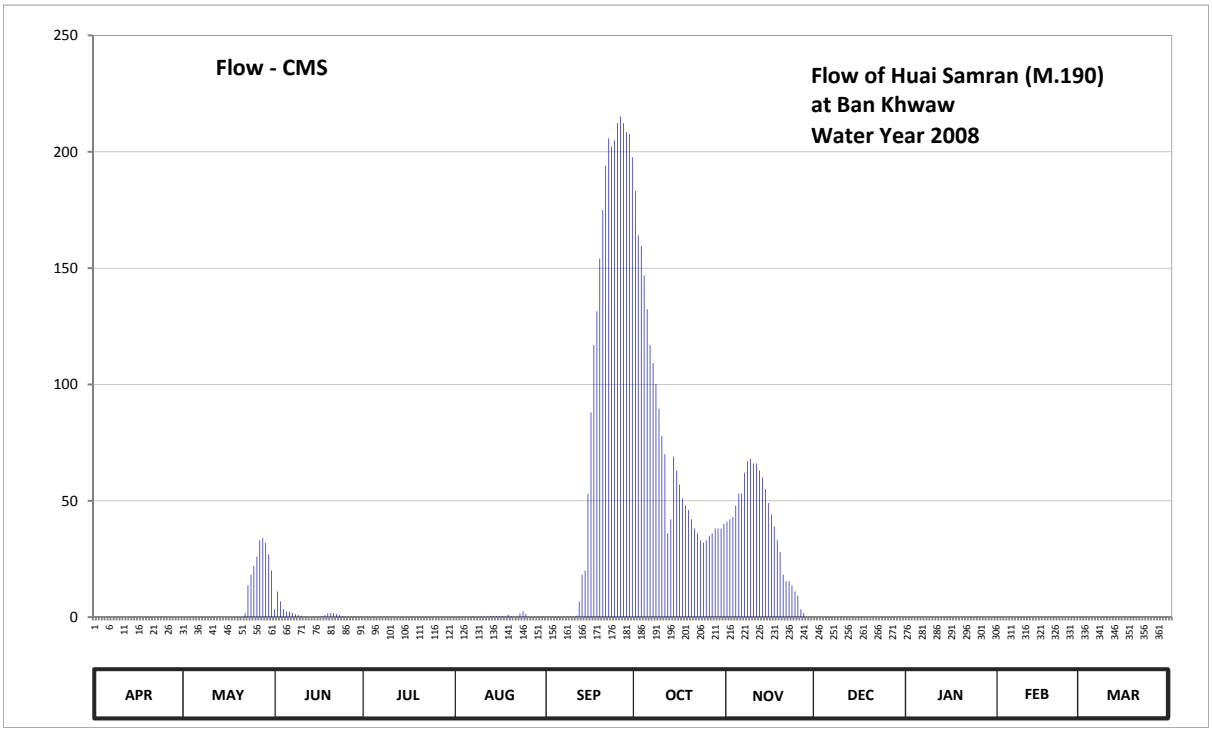
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.25	4.07	4.71	4.54	4.49	4.55	7.22	5.11	4.68	4.52	4.16	3.86	
2	4.25	4.07	4.80	4.55	4.56	4.54	7.01	5.12	4.67	4.51	4.14	3.85	
3	4.25	4.08	4.75	4.54	4.54	4.55	6.96	5.13	4.66	4.51	4.12	3.85	
4	4.24	4.10	4.71	4.54	4.53	4.57	6.82	5.18	4.66	4.51	4.10	3.84	
5	4.24	4.10	4.70	4.53	4.52	4.57	6.63	5.23	4.65	4.50	4.09	3.83	
6	4.22	4.10	4.69	4.52	4.58	4.57	6.40	5.23	4.64	4.50	4.08	3.82	
7	4.25	4.13	4.67	4.51	4.57	4.57	6.27	5.32	4.63	4.49	4.06	3.81	
8	4.21	4.13	4.65	4.52	4.57	4.59	6.12	5.37	4.62	4.48	4.04	3.80	
9	4.20	4.13	4.63	4.54	4.57	4.60	5.93	5.38	4.61	4.46	4.03	3.78	
10	4.19	4.13	4.62	4.54	4.59	4.58	5.67	5.36	4.61	4.45	4.02	3.77	
11	4.18	4.12	4.57	4.53	4.59	4.62	5.40	5.36	4.60	4.44	4.01	3.76	
12	4.17	4.16	4.56	4.52	4.59	4.75	5.06	5.33	4.60	4.42	4.00	3.75	
13	4.15	4.35	4.56	4.51	4.61	4.88	5.12	5.30	4.60	4.41	3.98	3.74	
14	4.14	4.39	4.58	4.53	4.61	4.90	5.39	5.25	4.61	4.40	3.97	3.73	
15	4.13	4.41	4.60	4.53	4.61	5.23	5.33	5.19	4.59	4.39	3.95	3.72	
16	4.12	4.43	4.60	4.53	4.61	5.90	5.27	5.14	4.58	4.38	3.95	3.70	
17	4.10	4.44	4.61	4.54	4.61	6.40	5.21	5.09	4.56	4.36	3.95	3.68	
18	4.09	4.44	4.63	4.53	4.60	6.62	5.18	5.03	4.54	4.34	3.95	3.67	
19	4.07	4.45	4.66	4.52	4.64	6.90	5.16	4.98	4.54	4.33	3.94	3.65	
20	4.06	4.46	4.67	4.52	4.61	7.13	5.12	4.88	4.54	4.31	3.93	3.64	
21	4.05	4.53	4.67	4.51	4.60	7.34	5.08	4.85	4.54	4.30	3.93	3.62	
22	4.03	4.66	4.65	4.50	4.59	7.47	5.06	4.85	4.54	4.30	3.93	3.62	
23	4.08	4.83	4.63	4.50	4.66	7.43	5.03	4.83	4.54	4.29	3.92	3.61	
24	4.07	4.88	4.61	4.50	4.70	7.46	5.02	4.80	4.53	4.27	3.91	3.60	
25	4.06	4.92	4.59	4.49	4.65	7.54	5.03	4.78	4.53	4.26	3.90	3.61	
26	4.04	4.96	4.57	4.49	4.58	7.57	5.05	4.71	4.53	4.25	3.89	3.61	
27	4.03	5.03	4.56	4.48	4.57	7.54	5.06	4.67	4.53	4.24	3.89	3.61	
28	4.03	5.04	4.56	4.48	4.56	7.50	5.08	4.70	4.53	4.22	3.88	3.60	
29	4.08	5.02	4.55	4.47	4.55	7.49	5.08	4.70	4.53	4.20		3.59	
30	4.08	4.97	4.55	4.47	4.55	7.38	5.08	4.70	4.52	4.19		3.57	
31		4.90		4.48	4.55		5.10		4.52	4.17		3.56	
Mean	4.14	4.47	4.63	4.51	4.59	5.92	5.58	5.05	4.58	4.37	3.99	3.70	
Max	4.25	5.04	4.80	4.55	4.70	7.57	7.22	5.38	4.68	4.52	4.16	3.86	7.57
Min	4.03	4.07	4.55	4.47	4.49	4.54	5.02	4.67	4.52	4.17	3.88	3.56	3.56

Annual Max Momentary Gage Height 7.57 m. (A.D.) , at 06.00 Hours, on Sep 26, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.19 m. (A.D.)

Left Bank Elevation 7.45 m. (A.D.) ,

Right Bank Elevation 7.12 m. (A.D.) , Drainage Are 2,339 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	3.35	0.09	0.05	0.10	183.10	41.00	0.00	0.00	0.00	0.00		
2	0.00	0.00	11.00	0.10	0.11	0.09	164.05	42.00	0.00	0.00	0.00	0.00		
3	0.00	0.00	6.75	0.09	0.09	0.10	159.51	43.00	0.00	0.00	0.00	0.00		
4	0.00	0.00	3.35	0.09	0.08	0.12	146.81	48.00	0.00	0.00	0.00	0.00		
5	0.00	0.00	2.50	0.08	0.07	0.12	132.25	53.00	0.00	0.00	0.00	0.00		
6	0.00	0.00	2.27	0.07	0.13	0.12	117.00	53.00	0.00	0.00	0.00	0.00		
7	0.00	0.00	1.80	0.06	0.12	0.12	109.20	62.00	0.00	0.00	0.00	0.00		
8	0.00	0.00	1.33	0.07	0.12	0.14	100.20	67.00	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.86	0.09	0.12	0.15	89.50	68.00	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.62	0.09	0.14	0.13	77.80	66.00	0.00	0.00	0.00	0.00		
11	0.00	0.00	0.12	0.08	0.14	0.62	70.00	66.00	0.00	0.00	0.00	0.00		
12	0.00	0.00	0.11	0.07	0.14	6.75	36.00	63.00	0.00	0.00	0.00	0.00		
13	0.00	0.00	0.11	0.06	0.39	18.20	42.00	60.00	0.00	0.00	0.00	0.00		
14	0.00	0.00	0.13	0.08	0.39	20.00	69.00	55.00	0.00	0.00	0.00	0.00		
15	0.00	0.01	0.15	0.08	0.39	53.00	63.00	49.00	0.00	0.00	0.00	0.00		
16	0.00	0.02	0.15	0.08	0.39	88.00	57.00	44.00	0.00	0.00	0.00	0.00		
17	0.00	0.02	0.39	0.09	0.39	117.00	51.00	39.00	0.00	0.00	0.00	0.00		
18	0.00	0.02	0.86	0.08	0.15	131.50	48.00	33.00	0.00	0.00	0.00	0.00		
19	0.00	0.03	1.56	0.07	1.09	154.07	46.00	28.00	0.00	0.00	0.00	0.00		
20	0.00	0.03	1.80	0.07	0.39	174.94	42.00	18.20	0.00	0.00	0.00	0.00		
21	0.00	0.08	1.80	0.06	0.15	193.99	38.00	15.50	0.00	0.00	0.00	0.00		
22	0.00	1.56	1.33	0.05	0.14	205.78	36.00	15.50	0.00	0.00	0.00	0.00		
23	0.00	13.70	0.86	0.05	1.56	202.15	33.00	13.70	0.00	0.00	0.00	0.00		
24	0.00	18.20	0.39	0.05	2.50	204.87	32.00	11.00	0.00	0.00	0.00	0.00		
25	0.00	22.00	0.14	0.05	1.33	212.30	33.00	9.30	0.00	0.00	0.00	0.00		
26	0.00	26.00	0.12	0.05	0.13	215.15	35.00	3.35	0.00	0.00	0.00	0.00		
27	0.00	33.00	0.11	0.04	0.12	212.30	36.00	1.80	0.00	0.00	0.00	0.00		
28	0.00	34.00	0.11	0.04	0.11	208.50	38.00	0.00	0.00	0.00	0.00	0.00		
29	0.00	32.00	0.10	0.04	0.10	207.59	38.00	0.00	0.00	0.00		0.00		
30	0.00	27.00	0.10	0.04	0.10	197.61	38.00	0.00	0.00	0.00		0.00		
31		20.00		0.04	0.10		40.00		0.00	0.00		0.00		
Total	0.00	227.67	44.27	2.10	11.23	2825.51	2200.42	1068.35	0.00	0.00	0.00	0.00	6379.55	CMSDAY
Mean	0.00	7.34	1.48	0.07	0.36	94.18	70.98	35.61	0.00	0.00	0.00	0.00	17.48	CMS
Max	0.00	34.00	11.00	0.10	2.50	215.15	183.10	68.00	0.00	0.00	0.00	0.00	215.15	CMS
Min	0.00	0.00	0.10	0.04	0.05	0.09	32.00	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	19.67	3.82	0.18	0.97	244.12	190.12	92.31	0.00	0.00	0.00	0.00	551.19	MCM

Momentary Peak 215.15 CMS, at 7.57 m. (A.D.), at 06.00 Hours, on Sep 26, 2008

Runoff Yield 7.47 Liters/Second/Square KM. Momentary Peak Yield 91.98 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +304.906 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1921 to date
Rating Operation	
Period of Rating	1954 - 1960 , 1967 to date
Rated by Float	1936 - 1938
Rated by Current Meter	1954 - 1960 , 1967 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Mae Ngat Dam and Mae Taeng Weir above gage site. Phaya Kham weir situated about 2 Kilometers dowmstream from the gage site. Stage-discharge relation defined by 35 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

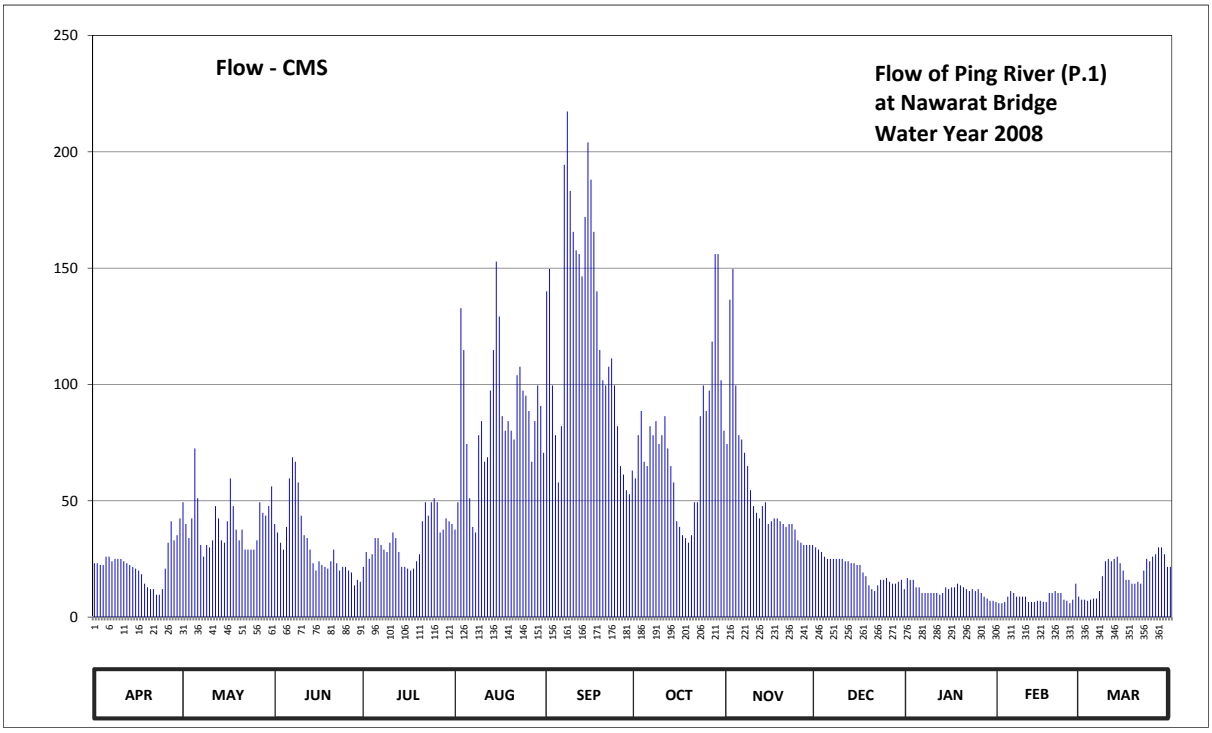
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	301.79	302.02	301.95	301.77	301.93	302.40	302.08	302.16	301.86	301.71	301.56	301.59	
2	301.79	301.95	301.92	301.84	302.02	302.46	302.18	302.39	301.85	301.70	301.56	301.59	
3	301.78	301.90	301.88	301.81	302.38	302.28	302.23	302.46	301.84	301.70	301.57	301.58	
4	301.78	301.97	301.85	301.83	302.33	302.18	302.12	302.28	301.82	301.66	301.61	301.59	
5	301.82	302.15	301.94	301.90	302.16	302.07	302.11	302.18	301.81	301.66	301.64	301.60	
6	301.82	302.03	302.08	301.90	302.03	302.20	302.20	302.17	301.81	301.63	301.63	301.60	
7	301.80	301.87	302.13	301.87	301.94	302.74	302.18	302.14	301.81	301.63	301.61	301.64	
8	301.81	301.82	302.12	301.85	301.92	302.87	302.21	302.11	301.81	301.63	301.61	301.72	
9	301.81	301.87	302.07	301.84	302.18	302.67	302.16	302.05	301.81	301.63	301.61	301.80	
10	301.81	301.86	301.98	301.88	302.21	302.56	302.18	302.01	301.81	301.63	301.61	301.81	
11	301.80	301.89	301.91	301.92	302.12	302.51	302.22	301.99	301.80	301.63	301.57	301.80	
12	301.79	302.01	301.90	301.90	302.13	302.50	302.15	301.97	301.80	301.62	301.57	301.81	
13	301.78	301.97	301.85	301.84	302.27	302.44	302.11	302.01	301.79	301.63	301.57	301.82	
14	301.77	301.89	301.79	301.77	302.33	302.60	302.07	302.02	301.79	301.66	301.58	301.79	
15	301.76	301.88	301.75	301.77	302.48	302.80	301.96	301.95	301.78	301.65	301.58	301.75	
16	301.75	301.96	301.80	301.76	302.37	302.70	301.94	301.96	301.78	301.66	301.57	301.70	
17	301.73	302.08	301.78	301.75	302.22	302.56	301.91	301.97	301.74	301.66	301.57	301.70	
18	301.68	302.01	301.77	301.76	302.19	302.40	301.90	301.97	301.72	301.68	301.63	301.68	
19	301.66	301.93	301.76	301.80	302.21	302.33	301.88	301.96	301.67	301.67	301.63	301.68	
20	301.65	301.89	301.80	301.83	302.19	302.29	301.91	301.95	301.65	301.66	301.64	301.69	
21	301.65	301.93	301.85	301.96	302.17	302.28	302.02	301.94	301.64	301.65	301.63	301.68	
22	301.62	301.85	301.79	302.02	302.30	302.31	302.02	301.95	301.67	301.64	301.63	301.75	
23	301.62	301.85	301.75	301.98	302.31	302.32	302.22	301.95	301.70	301.65	301.59	301.81	
24	301.65	301.85	301.77	302.02	302.27	302.28	302.28	301.93	301.70	301.64	301.58	301.80	
25	301.76	301.85	301.77	302.03	302.26	302.20	302.23	301.89	301.71	301.65	301.56	301.82	
26	301.88	301.89	301.75	302.02	302.23	302.11	302.27	301.88	301.69	301.63	301.59	301.83	
27	301.96	302.02	301.74	301.92	302.12	302.09	302.34	301.87	301.68	301.61	301.68	301.86	
28	301.89	301.99	301.67	301.93	302.21	302.05	302.50	301.87	301.68	301.60	301.61	301.86	
29	301.91	301.98	301.70	301.97	302.28	302.04	302.50	301.87	301.69	301.58		301.83	
30	301.97	302.01	301.69	301.96	302.24	302.10	302.29	301.87	301.70	301.58		301.77	
31		302.06		301.95	302.14		302.19		301.65	301.57		301.77	
Mean	301.78	301.94	301.85	301.88	302.20	302.38	302.15	302.02	301.75	301.64	301.60	301.73	
Max	301.97	302.15	302.13	302.03	302.48	302.87	302.50	302.46	301.86	301.71	301.68	301.86	302.87
Min	301.62	301.82	301.67	301.75	301.92	302.04	301.88	301.87	301.64	301.57	301.56	301.58	301.56

Annual Max Momentary Gage Height 302.99 m. (MSL.) , at 22.00 Hours , on Sep 7, 2008

Zero Gage at Bottom Elevation 300.50 m. (MSL.) , River Bed 299.25 m. (MSL.)

Left Bank Elevation 307.73 m. (MSL.) ,

Right Bank Elevation 307.64 m. (MSL.) , Drainage Are 6,350 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	23.20	49.40	40.00	21.60	37.60	140.00	59.60	74.40	30.00	16.80	6.00	7.50		
2	23.20	40.00	36.40	28.00	49.40	149.60	78.20	136.40	29.00	16.00	6.00	7.50		
3	22.40	34.00	32.00	25.00	132.80	99.60	88.60	149.60	28.00	16.00	6.50	7.00		
4	22.40	42.40	29.00	27.00	114.80	78.20	66.80	99.60	26.00	12.80	8.80	7.50		
5	26.00	72.50	38.80	34.00	74.40	57.90	64.90	78.20	25.00	12.80	11.20	8.00		
6	26.00	51.10	59.60	34.00	51.10	82.00	82.00	76.30	25.00	10.40	10.40	8.00		
7	24.00	31.00	68.70	31.00	38.80	194.40	78.20	70.60	25.00	10.40	8.80	11.20		
8	25.00	26.00	66.80	29.00	36.40	217.30	84.20	64.90	25.00	10.40	8.80	17.60		
9	25.00	31.00	57.90	28.00	78.20	183.20	74.40	54.50	25.00	10.40	8.80	24.00		
10	25.00	30.00	43.60	32.00	84.20	165.60	78.20	47.70	25.00	10.40	8.80	25.00		
11	24.00	33.00	35.20	36.40	66.80	157.60	86.40	44.80	24.00	10.40	6.50	24.00		
12	23.20	47.70	34.00	34.00	68.70	156.00	72.50	42.40	24.00	9.60	6.50	25.00		
13	22.40	42.40	29.00	28.00	97.40	146.40	64.90	47.70	23.20	10.40	6.50	26.00		
14	21.60	33.00	23.20	21.60	114.80	172.00	57.90	49.40	23.20	12.80	7.00	23.20		
15	20.80	32.00	20.00	21.60	152.80	204.00	41.20	40.00	22.40	12.00	7.00	20.00		
16	20.00	41.20	24.00	20.80	129.20	188.00	38.80	41.20	22.40	12.80	6.50	16.00		
17	18.40	59.60	22.40	20.00	86.40	165.60	35.20	42.40	19.20	12.80	6.50	16.00		
18	14.40	47.70	21.60	20.80	80.10	140.00	34.00	42.40	17.60	14.40	10.40	14.40		
19	12.80	37.60	20.80	24.00	84.20	114.80	32.00	41.20	13.60	13.60	10.40	14.40		
20	12.00	33.00	24.00	27.00	80.10	101.80	35.20	40.00	12.00	12.80	11.20	15.20		
21	12.00	37.60	29.00	41.20	76.30	99.60	49.40	38.80	11.20	12.00	10.40	14.40		
22	9.60	29.00	23.20	49.40	104.00	107.60	49.40	40.00	13.60	11.20	10.40	20.00		
23	9.60	29.00	20.00	43.60	107.60	111.20	86.40	40.00	16.00	12.00	7.50	25.00		
24	12.00	29.00	21.60	49.40	97.40	99.60	99.60	37.60	16.00	11.20	7.00	24.00		
25	20.80	29.00	21.60	51.10	95.20	82.00	88.60	33.00	16.80	12.00	6.00	26.00		
26	32.00	33.00	20.00	49.40	88.60	64.90	97.40	32.00	15.20	10.40	7.50	27.00		
27	41.20	49.40	19.20	36.40	66.80	61.30	118.40	31.00	14.40	8.80	14.40	30.00		
28	33.00	44.80	13.60	37.60	84.20	54.50	156.00	31.00	14.40	8.00	8.80	30.00		
29	35.20	43.60	16.00	42.40	99.60	52.80	156.00	31.00	15.20	7.00		27.00		
30	42.40	47.70	15.20	41.20	90.80	63.00	101.80	31.00	16.00	7.00		21.60		
31		56.20		40.00	70.60		80.10		12.00	6.50		21.60		
Total	679.60	1242.90	926.40	1025.50	2639.30	3710.50	2336.30	1629.10	625.40	354.10	234.60	584.10	15987.80	CMSDAY
Mean	22.65	40.09	30.88	33.08	85.14	123.68	75.36	54.30	20.17	11.42	8.38	18.84	43.80	CMS
Max	42.40	72.50	68.70	51.10	152.80	217.30	156.00	149.60	30.00	16.80	14.40	30.00	217.30	CMS
Min	9.60	26.00	13.60	20.00	36.40	52.80	32.00	31.00	11.20	6.50	6.00	7.00	6.00	CMS
Runoff	58.72	107.39	80.04	88.60	228.04	320.59	201.86	140.75	54.03	30.59	20.27	50.47	1381.35	MCM

Momentary Peak 240.10 CMS. at 302.99 m. (MSL.) at 22.00 Hours , on Sep 7, 2008

Runoff Yield 6.90 Liters/Second/Square KM. Momentary Peak Yield 37.81 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

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

Lat 16 - 51 - 11 N Long 99 - 07 - 34 E

Location : on right bank about 200 meters downstream from Kittikhachon I Bridge.

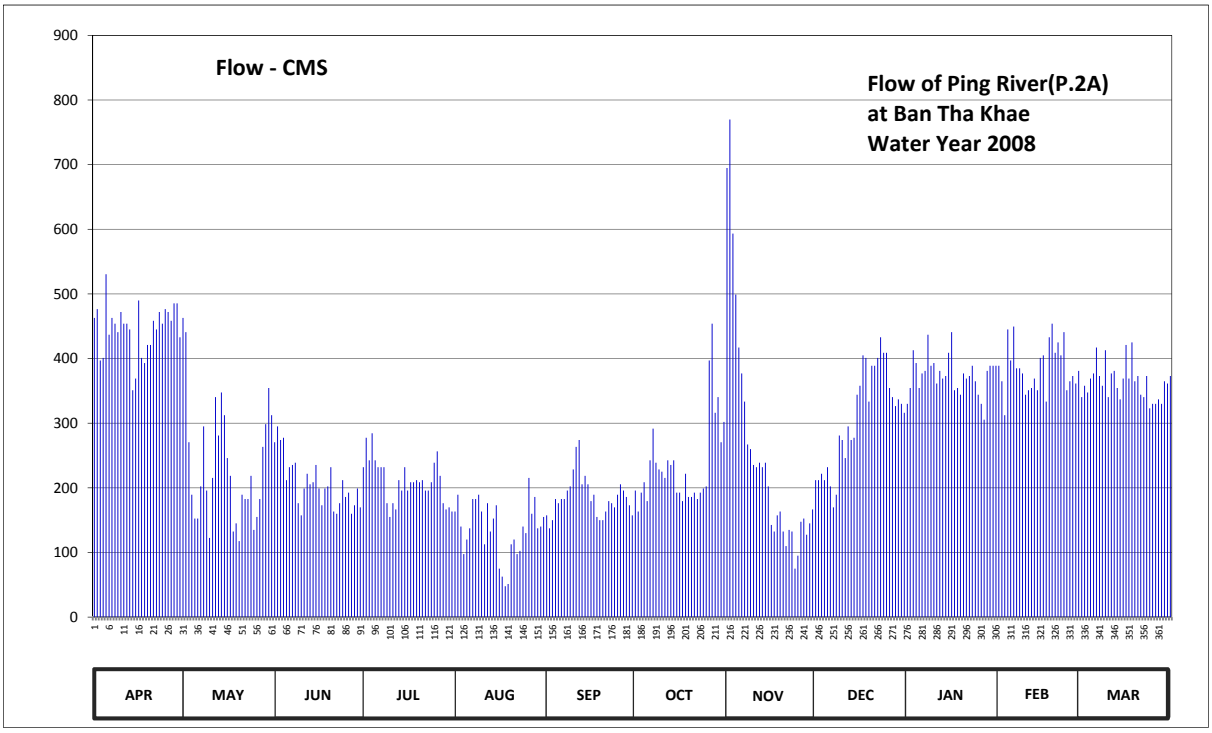
Ban Tha Khae **Amphoe** Mueang **Changwat** Tak

Drainge Area	38,681 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+104.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near automatic gage building **Elevation** +116.118 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1952 to date
Rating Operation	
Period of Rating	1952 - 1960 , 1963 - 1967 , 1971 to date
Rated by Float	-
Rated by Current Meter	1952 - 1960 , 1963 - 1967 , 1971 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Phumiphol Dam reservoir since 1964. Stage-discharge relation defined by 26 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	105.64	105.64	105.13	105.02	104.81	104.79	104.91	106.14	104.96	105.30	105.46	105.33	
2	105.67	105.59	105.20	105.15	104.89	104.71	104.81	106.29	104.96	105.37	105.40	105.38	
3	105.48	105.13	105.14	105.05	104.72	104.76	104.90	105.93	104.99	105.52	105.25	105.35	
4	105.49	104.89	105.15	105.17	104.55	104.87	104.95	105.72	104.96	105.47	105.60	105.41	
5	105.79	104.77	104.96	105.05	104.64	104.85	104.86	105.53	105.02	105.37	105.48	105.43	
6	105.58	104.77	105.02	105.02	104.71	104.87	105.05	105.43	104.93	105.43	105.61	105.53	
7	105.64	104.93	105.03	105.02	104.87	104.87	105.19	105.31	104.83	105.44	105.45	105.42	
8	105.62	105.20	105.04	105.02	104.87	104.91	105.04	105.12	104.89	105.58	105.45	105.38	
9	105.59	104.91	104.85	104.85	104.89	104.93	105.01	105.10	105.16	105.46	105.43	105.52	
10	105.66	104.65	104.79	104.78	104.81	105.01	105.00	105.03	105.14	105.47	105.34	105.33	
11	105.62	104.97	104.92	104.85	104.61	105.11	104.97	105.02	105.06	105.39	105.36	105.43	
12	105.62	105.33	104.99	104.82	104.85	105.14	105.05	105.04	105.20	105.44	105.37	105.44	
13	105.60	105.16	104.94	104.96	104.69	104.94	105.03	105.02	105.14	105.41	105.41	105.37	
14	105.36	105.35	104.95	104.91	104.77	104.98	105.05	105.04	105.15	105.42	105.36	105.32	
15	105.41	105.25	105.03	105.02	104.84	104.94	104.90	104.93	105.34	105.51	105.49	105.41	
16	105.70	105.06	104.92	104.91	104.46	104.86	104.90	104.73	105.38	105.59	105.50	105.54	
17	105.49	104.98	104.84	104.95	104.41	104.89	104.86	104.69	105.50	105.36	105.31	105.41	
18	105.47	104.69	104.92	104.95	104.33	104.78	104.99	104.79	105.49	105.37	105.57	105.55	
19	105.54	104.74	104.93	104.96	104.35	104.76	104.88	104.81	105.31	105.34	105.62	105.40	
20	105.54	104.63	105.02	104.95	104.61	104.76	104.88	104.69	105.46	105.43	105.51	105.42	
21	105.63	104.89	104.81	104.96	104.64	104.81	104.90	104.60	105.46	105.41	105.55	105.34	
22	105.60	104.87	104.80	104.91	104.55	104.86	104.87	104.70	105.49	105.42	105.50	105.33	
23	105.66	104.87	104.85	104.91	104.57	104.85	104.90	104.69	105.57	105.46	105.59	105.42	
24	105.62	104.98	104.96	104.95	104.72	104.83	104.92	104.46	105.51	105.40	105.36	105.28	
25	105.67	104.70	104.88	105.04	104.68	104.89	104.93	104.54	105.51	105.34	105.40	105.30	
26	105.66	104.78	104.90	105.09	104.97	104.94	105.48	104.75	105.37	105.30	105.42	105.30	
27	105.63	104.87	104.80	104.98	104.80	104.91	105.62	104.77	105.33	105.23	105.39	105.32	
28	105.69	105.11	104.84	104.85	104.88	104.88	105.26	104.67	105.29	105.44	105.44	105.30	
29	105.69	105.21	104.92	104.82	104.71	104.84	105.33	104.74	105.32	105.46		105.40	
30	105.57	105.37	104.83	104.83	104.72	104.79	105.13	104.82	105.30	105.46		105.39	
31		105.25		104.81	104.78		105.22		105.26	105.46		105.42	
Mean	105.60	105.02	104.95	104.95	104.70	104.88	105.03	105.04	105.23	105.42	105.45	105.39	
Max	105.79	105.64	105.20	105.17	104.97	105.14	105.62	106.29	105.57	105.59	105.62	105.55	106.29
Min	105.36	104.63	104.79	104.78	104.33	104.71	104.81	104.46	104.83	105.23	105.25	105.28	104.33

Annual Max Momentary Gage Height	106.73	m. (MSL.) ,	at 09.00 Hours, on Nov 2, 2008		
Zero Gage at Bottom Elevation	104.00	m. (MSL.) ,	River Bed	103.69	m. (MSL.)
Left Bank Elevation	109.69	m. (MSL.) ,			
Right Bank Elevation	115.31	m. (MSL.) ,	Drainage Are	38,681	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	463.00	463.00	270.50	232.00	163.25	157.50	195.75	695.00	212.00	330.00	389.00	340.50		
2	476.50	441.00	295.00	277.50	189.25	137.50	163.25	770.00	212.00	354.50	365.00	358.00		
3	397.00	270.50	274.00	242.50	140.00	150.00	192.50	593.50	221.75	413.00	312.50	347.50		
4	401.00	189.25	277.50	284.50	97.50	182.75	208.75	499.00	212.00	393.00	445.00	369.00		
5	530.50	152.50	212.00	242.50	120.00	176.25	179.50	417.00	232.00	354.50	397.00	377.00		
6	437.00	152.50	232.00	232.00	137.50	182.75	242.50	377.00	202.25	377.00	449.50	417.00		
7	463.00	202.25	235.50	232.00	182.75	182.75	291.50	333.50	169.75	381.00	385.00	373.00		
8	454.00	295.00	239.00	232.00	182.75	195.75	239.00	267.00	189.25	437.00	385.00	358.00		
9	441.00	195.75	176.25	176.25	189.25	202.25	228.50	260.00	281.00	389.00	377.00	413.00		
10	472.00	122.50	157.50	155.00	163.25	228.50	225.00	235.50	274.00	393.00	344.00	340.50		
11	454.00	215.25	199.00	176.25	112.50	263.50	215.25	232.00	246.00	361.50	351.00	377.00		
12	454.00	340.50	221.75	166.50	176.25	274.00	242.50	239.00	295.00	381.00	354.50	381.00		
13	445.00	281.00	205.50	212.00	132.50	205.50	235.50	232.00	274.00	369.00	369.00	354.50		
14	351.00	347.50	208.75	195.75	152.50	218.50	242.50	239.00	277.50	373.00	351.00	337.00		
15	369.00	312.50	235.50	232.00	173.00	205.50	192.50	202.25	344.00	409.00	401.00	369.00		
16	490.00	246.00	199.00	195.75	75.00	179.50	192.50	142.50	358.00	441.00	405.00	421.00		
17	401.00	218.50	173.00	208.75	62.50	189.25	179.50	132.50	405.00	351.00	333.50	369.00		
18	393.00	132.50	199.00	208.75	47.75	155.00	221.75	157.50	401.00	354.50	433.00	425.00		
19	421.00	145.00	202.25	212.00	51.25	150.00	186.00	163.25	333.50	344.00	454.00	365.00		
20	421.00	117.50	232.00	208.75	112.50	150.00	186.00	132.50	389.00	377.00	409.00	373.00		
21	458.50	189.25	163.25	212.00	120.00	163.25	192.50	110.00	389.00	369.00	425.00	344.00		
22	445.00	182.75	160.00	195.75	97.50	179.50	182.75	135.00	401.00	373.00	405.00	340.50		
23	472.00	182.75	176.25	195.75	102.50	176.25	192.50	132.50	433.00	389.00	441.00	373.00		
24	454.00	218.50	212.00	208.75	140.00	169.75	199.00	75.00	409.00	365.00	351.00	323.00		
25	476.50	135.00	186.00	239.00	130.00	189.25	202.25	95.00	409.00	344.00	365.00	330.00		
26	472.00	155.00	192.50	256.50	215.25	205.50	397.00	147.50	354.50	330.00	373.00	330.00		
27	458.50	182.75	160.00	218.50	160.00	195.75	454.00	152.50	340.50	305.50	361.50	337.00		
28	485.50	263.50	173.00	176.25	186.00	186.00	316.00	127.50	326.50	381.00	381.00	330.00		
29	485.50	298.50	199.00	166.50	137.50	173.00	340.50	145.00	337.00	389.00		365.00		
30	433.00	354.50	169.75	169.75	140.00	157.50	270.50	166.50	330.00	389.00		361.50		
31		312.50		163.25	155.00		302.00		316.00	389.00		373.00		
Total	13374.50	7315.50	6236.75	6524.75	4245.00	5582.50	7309.25	7606.50	9574.50	11606.50	10812.50	11272.00	101460.25	CMSDAY
Mean	445.82	235.98	207.89	210.48	136.94	186.08	235.78	253.55	308.85	374.40	386.16	363.61	277.97	CMS
Max	530.50	463.00	295.00	284.50	215.25	274.00	454.00	770.00	433.00	441.00	454.00	425.00	770.00	CMS
Min	351.00	117.50	157.50	155.00	47.75	137.50	163.25	75.00	169.75	305.50	312.50	323.00	47.75	CMS
Runoff	1155.56	632.06	538.86	563.74	366.77	482.33	631.52	657.20	827.24	1002.80	934.20	973.90	8766.17	MCM

Momentary Peak 996.50 CMS. at 106.73 m. (MSL.) at 09.00 Hours , on Nov 2, 2008

Runoff Yield 7.19 Liters/Second/Square KM. Momentary Peak Yield 25.76 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

Nam 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

Drainge Area	1,930 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+334.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In the vicinity of Amphoe Mae Taeng office **Elevation** +339.946 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 mean of 5 readings
Period of Available Gage Records	1955 to date
Rating Operation	
Period of Rating	1955 - 1960 , 1967 to date
Rated by Float	-
Rated by Current Meter	1955 - 1960 , 1967 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by Mae Taeng weir about 7 kilometers above gage site. Stage-discharge relation defined by 24 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

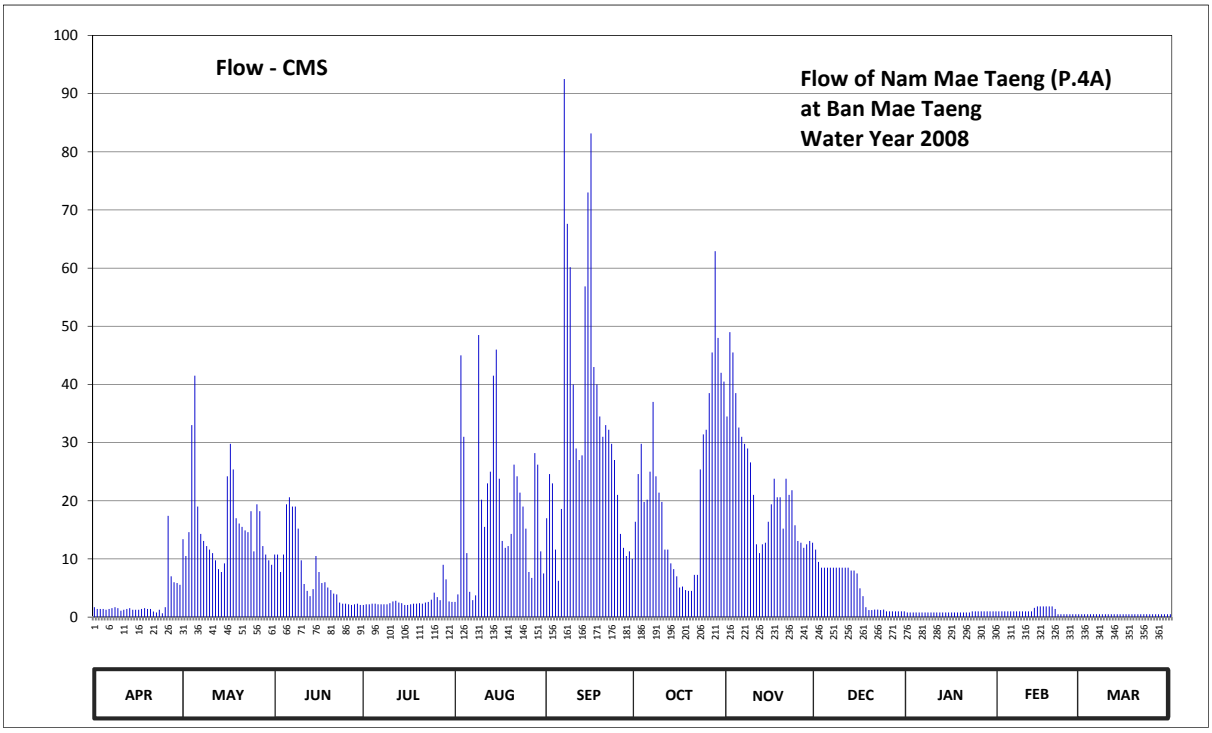
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	334.58	334.88	334.79	334.31	334.36	335.00	334.98	335.43	334.82	334.18	334.20	334.50	
2	334.56	334.78	334.79	334.32	334.46	335.19	335.19	335.72	334.74	334.18	334.20	334.50	
3	334.56	334.92	334.67	334.32	335.64	335.15	335.32	335.65	334.70	334.18	334.20	334.50	
4	334.56	335.40	334.79	334.33	335.35	334.82	335.07	335.51	334.70	334.18	334.20	334.50	
5	334.55	335.57	335.06	334.33	334.80	334.61	335.08	335.39	334.70	334.18	334.20	334.50	
6	334.56	335.05	335.09	334.32	334.49	335.04	335.20	335.35	334.70	334.18	334.20	334.50	
7	334.57	334.91	335.05	334.32	334.39	336.45	335.48	335.32	334.70	334.18	334.20	334.50	
8	334.58	334.87	335.05	334.32	334.45	336.06	335.18	335.30	334.70	334.18	334.20	334.50	
9	334.57	334.84	334.94	334.32	335.71	335.93	335.11	335.24	334.70	334.18	334.20	334.50	
10	334.54	334.82	334.75	334.34	335.08	335.54	335.07	335.10	334.70	334.18	334.20	334.50	
11	334.55	334.80	334.58	334.37	334.95	335.30	334.82	334.85	334.70	334.18	334.20	334.50	
12	334.56	334.75	334.50	334.38	335.15	335.25	334.82	334.80	334.70	334.18	334.20	334.50	
13	334.57	334.69	334.44	334.35	335.20	335.27	334.73	334.85	334.68	334.18	334.26	334.50	
14	334.55	334.67	334.52	334.34	335.57	335.87	334.69	334.86	334.68	334.18	334.59	334.50	
15	334.55	334.73	334.78	334.31	335.66	336.15	334.64	334.98	334.66	334.18	334.59	334.50	
16	334.55	335.18	334.67	334.31	335.17	336.31	334.54	335.06	334.53	334.18	334.59	334.50	
17	334.56	335.32	334.59	334.32	334.87	335.60	334.55	335.17	334.44	334.18	334.59	334.50	
18	334.57	335.21	334.60	334.33	334.83	335.54	334.51	335.09	334.27	334.18	334.59	334.50	
19	334.56	335.00	334.54	334.33	334.84	335.43	334.50	335.09	334.22	334.18	334.59	334.50	
20	334.56	334.97	334.51	334.34	334.91	335.35	334.50	334.94	334.22	334.18	334.56	334.50	
21	334.53	334.95	334.47	334.33	335.23	335.40	334.65	335.17	334.23	334.18	334.50	334.50	
22	334.52	334.93	334.46	334.35	335.18	335.38	334.65	335.10	334.23	334.18	334.50	334.50	
23	334.55	334.92	334.35	334.36	335.11	335.32	335.21	335.12	334.22	334.20	334.50	334.50	
24	334.51	335.03	334.33	334.40	335.05	335.25	335.36	334.96	334.23	334.20	334.50	334.50	
25	334.58	334.81	334.33	334.48	334.94	335.10	335.38	334.87	334.20	334.20	334.50	334.50	
26	335.01	335.06	334.32	334.43	334.67	334.91	335.51	334.86	334.20	334.20	334.50	334.50	
27	334.64	335.03	334.31	334.39	334.63	334.83	335.65	334.83	334.20	334.20	334.50	334.50	
28	334.60	334.84	334.32	334.72	335.28	334.78	335.98	334.85	334.20	334.20	334.50	334.50	
29	334.59	334.79	334.33	334.62	335.23	334.81	335.70	334.87	334.20	334.20		334.50	
30	334.57	334.75	334.31	334.37	334.81	334.76	335.58	334.86	334.20	334.20		334.50	
31		334.72		334.36	334.66		335.55		334.20	334.20		334.50	
Mean	334.58	334.94	334.61	334.37	334.99	335.35	335.07	335.11	334.47	334.19	334.38	334.50	
Max	335.01	335.57	335.09	334.72	335.71	336.45	335.98	335.72	334.82	334.20	334.59	334.50	336.45
Min	334.51	334.67	334.31	334.31	334.36	334.61	334.50	334.80	334.20	334.18	334.20	334.50	334.18

Annual Max Momentary Gage Height 336.60 m. (MSL.) , at 15.00 Hours , on Sep 7, 2008

Zero Gage at Bottom Elevation 334.00 m. (MSL.) , River Bed 334.10 m. (MSL.)

Left Bank Elevation 339.85 m. (MSL.) ,

Right Bank Elevation 339.85 m. (MSL.) , Drainage Are 1,930 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.70	13.40	10.75	2.10	2.60	17.00	16.40	34.50	11.60	0.80	1.00	0.50		
2	1.40	10.50	10.75	2.20	3.90	24.60	24.60	49.00	9.50	0.80	1.00	0.50		
3	1.40	14.60	7.75	2.20	45.00	23.00	29.80	45.50	8.50	0.80	1.00	0.50		
4	1.40	33.00	10.75	2.30	31.00	11.60	19.80	38.50	8.50	0.80	1.00	0.50		
5	1.25	41.50	19.40	2.30	11.00	6.25	20.20	32.60	8.50	0.80	1.00	0.50		
6	1.40	19.00	20.60	2.20	4.35	18.60	25.00	31.00	8.50	0.80	1.00	0.50		
7	1.55	14.30	19.00	2.20	2.90	92.50	37.00	29.80	8.50	0.80	1.00	0.50		
8	1.70	13.10	19.00	2.20	3.75	67.60	24.20	29.00	8.50	0.80	1.00	0.50		
9	1.55	12.20	15.20	2.20	48.50	60.15	21.40	26.60	8.50	0.80	1.00	0.50		
10	1.10	11.60	9.75	2.40	20.20	40.00	19.80	21.00	8.50	0.80	1.00	0.50		
11	1.25	11.00	5.70	2.70	15.50	29.00	11.60	12.50	8.50	0.80	1.00	0.50		
12	1.40	9.75	4.50	2.80	23.00	27.00	11.60	11.00	8.50	0.80	1.00	0.50		
13	1.55	8.25	3.60	2.50	25.00	27.80	9.25	12.50	8.00	0.80	1.60	0.50		
14	1.25	7.75	4.80	2.40	41.50	56.85	8.25	12.80	8.00	0.80	1.85	0.50		
15	1.25	9.25	10.50	2.10	46.00	73.00	7.00	16.40	7.50	0.80	1.85	0.50		
16	1.25	24.20	7.75	2.10	23.80	83.15	5.10	19.40	4.95	0.80	1.85	0.50		
17	1.40	29.80	5.85	2.20	13.10	43.00	5.25	23.80	3.60	0.80	1.85	0.50		
18	1.55	25.40	6.00	2.30	11.90	40.00	4.65	20.60	1.70	0.80	1.85	0.50		
19	1.40	17.00	5.10	2.30	12.20	34.50	4.50	20.60	1.20	0.80	1.85	0.50		
20	1.40	16.10	4.65	2.40	14.30	31.00	4.50	15.20	1.20	0.80	1.40	0.50		
21	0.95	15.50	4.05	2.30	26.20	33.00	7.25	23.80	1.30	0.80	0.50	0.50		
22	0.80	14.90	3.90	2.50	24.20	32.20	7.25	21.00	1.30	0.80	0.50	0.50		
23	1.25	14.60	2.50	2.60	21.40	29.80	25.40	21.80	1.20	1.00	0.50	0.50		
24	0.65	18.20	2.30	3.00	19.00	27.00	31.40	15.80	1.30	1.00	0.50	0.50		
25	1.70	11.30	2.30	4.20	15.20	21.00	32.20	13.10	1.00	1.00	0.50	0.50		
26	17.40	19.40	2.20	3.45	7.75	14.30	38.50	12.80	1.00	1.00	0.50	0.50		
27	7.00	18.20	2.10	2.90	6.75	11.90	45.50	11.90	1.00	1.00	0.50	0.50		
28	6.00	12.20	2.20	9.00	28.20	10.50	62.90	12.50	1.00	1.00	0.50	0.50		
29	5.85	10.75	2.30	6.50	26.20	11.30	48.00	13.10	1.00	1.00		0.50		
30	5.55	9.75	2.10	2.70	11.30	10.00	42.00	12.80	1.00	1.00		0.50		
31		9.00		2.60	7.50		40.50		1.00	1.00		0.50		
Total	75.30	495.50	227.35	87.85	593.20	1007.60	690.80	660.90	154.35	26.60	30.10	15.50	4065.05	CMSDAY
Mean	2.51	15.98	7.58	2.83	19.14	33.59	22.28	22.03	4.98	0.86	1.08	0.50	11.14	CMS
Max	17.40	41.50	20.60	9.00	48.50	92.50	62.90	49.00	11.60	1.00	1.85	0.50	92.50	CMS
Min	0.65	7.75	2.10	2.10	2.60	6.25	4.50	11.00	1.00	0.80	0.50	0.50	0.50	CMS
Runoff	6.51	42.81	19.64	7.59	51.25	87.06	59.69	57.10	13.34	2.30	2.60	1.34	351.22	MCM

Momentary Peak 103.00 CMS. at 336.60 m. (MSL.) at 15.00 Hours , on Sep 7, 2008

Runoff Yield 5.77 Liters/Second/Square KM. Momentary Peak Yield 53.37 Liters/Second/Square KM.

WATER YEAR : 2008

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 Bridge **Amphoe** Mueang **Changwat** Lamphun

Drainge Area	1,569 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+288.500 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the gage site. **Elevation** +294.592 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1978 - 1992, 2006 to date.
Rating Operation	
Period of Rating	1978 - 1992, 2006 to date.
Rated by Float	-
Rated by Current Meter	1978 - 1992, 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 38 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

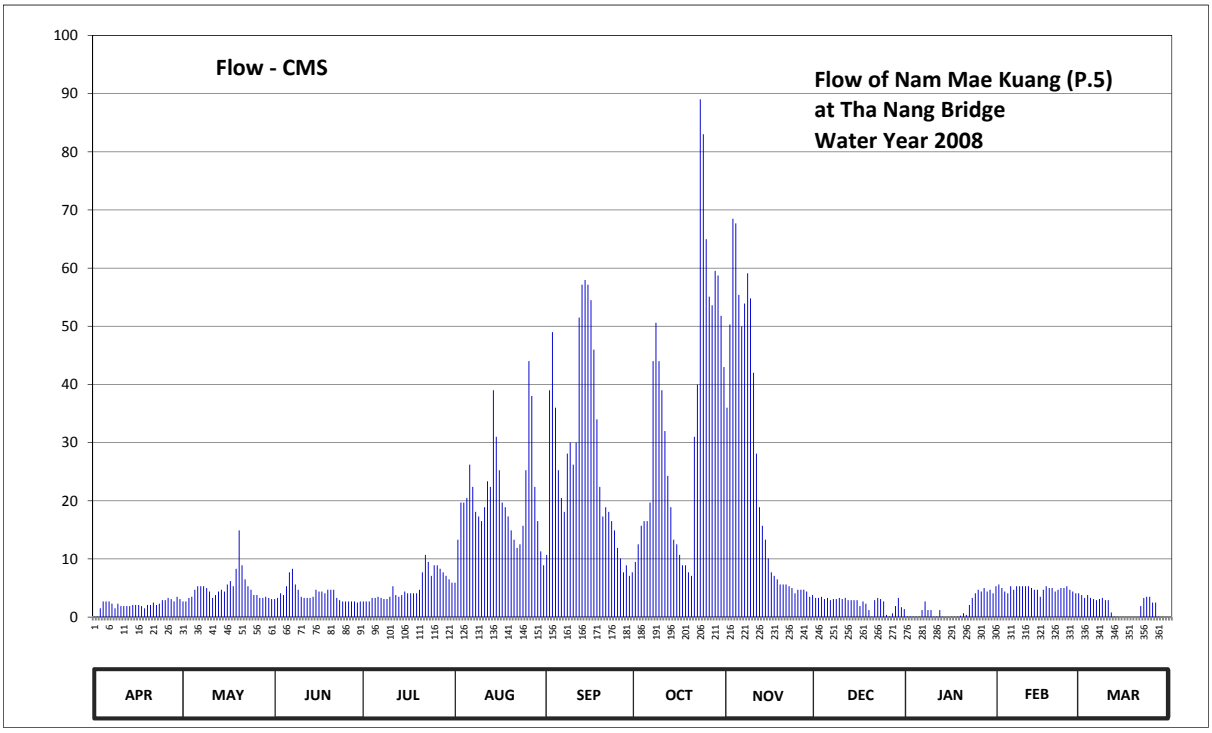
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.89	291.16	291.18	291.16	291.28	291.37	291.35	291.66	291.19	291.00	291.27	291.21	
2	290.97	291.16	291.19	291.16	291.41	291.69	291.40	291.81	291.19	291.00	291.25	291.19	
3	291.10	291.19	291.22	291.16	291.49	291.79	291.44	292.32	291.20	290.98	291.23	291.21	
4	291.16	291.20	291.21	291.19	291.49	291.66	291.45	292.30	291.18	290.94	291.22	291.19	
5	291.16	291.24	291.26	291.19	291.50	291.55	291.45	291.98	291.19	290.95	291.26	291.18	
6	291.16	291.26	291.32	291.20	291.56	291.50	291.49	291.80	291.17	291.08	291.24	291.17	
7	291.14	291.26	291.33	291.19	291.52	291.47	291.74	291.93	291.18	291.16	291.26	291.18	
8	291.10	291.26	291.27	291.18	291.47	291.58	291.82	292.08	291.18	291.08	291.26	291.19	
9	291.14	291.25	291.24	291.18	291.46	291.60	291.74	291.96	291.19	291.08	291.26	291.17	
10	291.12	291.23	291.20	291.20	291.45	291.56	291.69	291.72	291.18	290.97	291.26	291.17	
11	291.12	291.19	291.19	291.26	291.48	291.60	291.62	291.58	291.19	291.00	291.26	291.05	
12	291.12	291.21	291.19	291.21	291.53	291.85	291.54	291.48	291.17	291.08	291.25	290.98	
13	291.12	291.23	291.19	291.20	291.52	292.03	291.48	291.44	291.17	290.89	291.24	290.89	
14	291.13	291.24	291.20	291.21	291.69	292.05	291.41	291.41	291.17	290.85	291.24	290.81	
15	291.13	291.23	291.24	291.23	291.61	292.03	291.40	291.36	291.17	290.84	291.20	290.81	
16	291.13	291.27	291.23	291.22	291.55	291.95	291.37	291.32	291.12	290.91	291.24	290.81	
17	291.12	291.29	291.23	291.22	291.49	291.76	291.34	291.31	291.16	290.88	291.26	290.81	
18	291.10	291.26	291.22	291.22	291.48	291.64	291.34	291.30	291.14	290.95	291.25	290.81	
19	291.13	291.33	291.24	291.22	291.46	291.52	291.32	291.27	291.08	291.01	291.25	290.81	
20	291.13	291.43	291.24	291.24	291.43	291.46	291.31	291.27	290.95	291.04	291.23	290.84	
21	291.15	291.34	291.24	291.32	291.41	291.48	291.61	291.27	291.17	291.02	291.24	291.12	
22	291.13	291.30	291.19	291.37	291.39	291.47	291.70	291.26	291.19	291.13	291.25	291.19	
23	291.14	291.26	291.17	291.35	291.40	291.45	292.77	291.25	291.18	291.19	291.25	291.20	
24	291.17	291.24	291.16	291.31	291.44	291.43	292.65	291.22	291.16	291.22	291.26	291.20	
25	291.17	291.21	291.16	291.34	291.55	291.39	292.23	291.24	291.02	291.24	291.24	291.15	
26	291.19	291.21	291.16	291.34	291.74	291.36	291.97	291.24	291.00	291.23	291.23	291.15	
27	291.18	291.19	291.16	291.33	291.68	291.32	291.92	291.24	291.04	291.25	291.22	290.98	
28	291.16	291.19	291.16	291.32	291.52	291.34	292.09	291.23	291.12	291.23	291.22	290.83	
29	291.20	291.20	291.15	291.31	291.45	291.31	292.07	291.20	291.19	291.24		290.81	
30	291.18	291.19	291.16	291.30	291.38	291.32	291.86	291.21	291.11	291.22		290.81	
31		291.18		291.28	291.34		291.73		291.09	291.26		290.81	
Mean	291.13	291.24	291.21	291.25	291.49	291.58	291.69	291.52	291.14	291.06	291.24	291.02	
Max	291.20	291.43	291.33	291.37	291.74	292.05	292.77	292.32	291.20	291.26	291.27	291.21	292.77
Min	290.89	291.16	291.15	291.16	291.28	291.31	291.31	291.20	290.95	290.84	291.20	290.81	290.81

Annual Max Momentary Gage Height 293.02 m. (MSL.) , at 18.00 Hours , on Oct 23, 2008

Zero Gage at Bottom Elevation 288.50 m. (MSL.) , River Bed 288.95 m. (MSL.)

Left Bank Elevation 295.78 m. (MSL.) ,

Right Bank Elevation 295.72 m. (MSL.) , Drainage Are 1,569 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.05	2.70	3.10	2.70	5.90	10.70	9.50	36.00	3.30	0.10	5.60	3.80		
2	0.09	2.70	3.30	2.70	13.30	39.00	12.50	50.30	3.30	0.10	5.00	3.30		
3	1.50	3.30	4.10	2.70	19.70	49.00	15.70	68.48	3.50	0.09	4.40	3.80		
4	2.70	3.50	3.80	3.30	19.70	36.00	16.50	67.70	3.10	0.07	4.10	3.30		
5	2.70	4.70	5.30	3.30	20.50	25.25	16.50	55.40	3.30	0.08	5.30	3.10		
6	2.70	5.30	7.70	3.50	26.20	20.50	19.70	50.00	2.90	1.22	4.70	2.90		
7	2.30	5.30	8.30	3.30	22.40	18.10	44.00	53.90	3.10	2.70	5.30	3.10		
8	1.50	5.30	5.60	3.10	18.10	28.10	50.60	59.12	3.10	1.22	5.30	3.30		
9	2.30	5.00	4.70	3.10	17.30	30.00	44.00	54.80	3.30	1.22	5.30	2.90		
10	1.90	4.40	3.50	3.50	16.50	26.20	39.00	42.00	3.10	0.09	5.30	2.90		
11	1.90	3.30	3.30	5.30	18.90	30.00	32.00	28.10	3.30	0.10	5.30	0.80		
12	1.90	3.80	3.30	3.80	23.35	51.50	24.30	18.90	2.90	1.22	5.00	0.09		
13	1.90	4.40	3.30	3.50	22.40	57.17	18.90	15.70	2.90	0.05	4.70	0.05		
14	2.10	4.70	3.50	3.80	39.00	57.95	13.30	13.30	2.90	0.03	4.70	0.01		
15	2.10	4.40	4.70	4.40	31.00	57.17	12.50	10.10	2.90	0.02	3.50	0.01		
16	2.10	5.60	4.40	4.10	25.25	54.50	10.70	7.70	1.90	0.06	4.70	0.01		
17	1.90	6.20	4.40	4.10	19.70	46.00	8.90	7.10	2.70	0.04	5.30	0.01		
18	1.50	5.30	4.10	4.10	18.90	34.00	8.90	6.50	2.30	0.08	5.00	0.01		
19	2.10	8.30	4.70	4.10	17.30	22.40	7.70	5.60	1.22	0.24	5.00	0.01		
20	2.10	14.90	4.70	4.70	14.90	17.30	7.10	5.60	0.08	0.66	4.40	0.02		
21	2.50	8.90	4.70	7.70	13.30	18.90	31.00	5.60	2.90	0.38	4.70	1.90		
22	2.10	6.50	3.30	10.70	11.90	18.10	40.00	5.30	3.30	2.10	5.00	3.30		
23	2.30	5.30	2.90	9.50	12.50	16.50	89.00	5.00	3.10	3.30	5.00	3.50		
24	2.90	4.70	2.70	7.10	15.70	14.90	83.00	4.10	2.70	4.10	5.30	3.50		
25	2.90	3.80	2.70	8.90	25.25	11.90	64.97	4.70	0.38	4.70	4.70	2.50		
26	3.30	3.80	2.70	8.90	44.00	10.10	55.10	4.70	0.10	4.40	4.40	2.50		
27	3.10	3.30	2.70	8.30	38.00	7.70	53.60	4.70	0.66	5.00	4.10	0.09		
28	2.70	3.30	2.70	7.70	22.40	8.90	59.51	4.40	1.90	4.40	4.10	0.02		
29	3.50	3.50	2.50	7.10	16.50	7.10	58.73	3.50	3.30	4.70		0.01		
30	3.10	3.30	2.70	6.50	11.30	7.70	51.80	3.80	1.70	4.10		0.01		
31		3.10		5.90	8.90		43.00		1.36	5.30		0.01		
Total	65.74	152.60	119.40	161.40	630.05	832.64	1042.01	702.10	76.50	51.87	135.20	50.76	4020.27	CMSDAY
Mean	2.19	4.92	3.98	5.21	20.32	27.75	33.61	23.40	2.47	1.67	4.83	1.64	11.01	CMS
Max	3.50	14.90	8.30	10.70	44.00	57.95	89.00	68.48	3.50	5.30	5.60	3.80	89.00	CMS
Min	0.05	2.70	2.50	2.70	5.90	7.10	7.10	3.50	0.08	0.02	3.50	0.01	0.01	CMS
Runoff	5.68	13.18	10.32	13.94	54.44	71.94	90.03	60.66	6.61	4.48	11.68	4.39	347.35	MCM

Momentary Peak 101.72 CMS. at 293.02 m. (MSL.) at 18.00 Hours , on Oct 23, 2008

Runoff Yield 7.02 Liters/Second/Square KM. Momentary Peak Yield 64.83 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	1960 to date		
Rating Operation			
Period of Rating	1960 - 1961 , 1967 to date		
Rated by Float	-		
Rated by Current Meter	1960 - 1961 , 1967 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Phumiphol Dam reservior above gage site.		
	Stage-discharge relation defined by 20 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

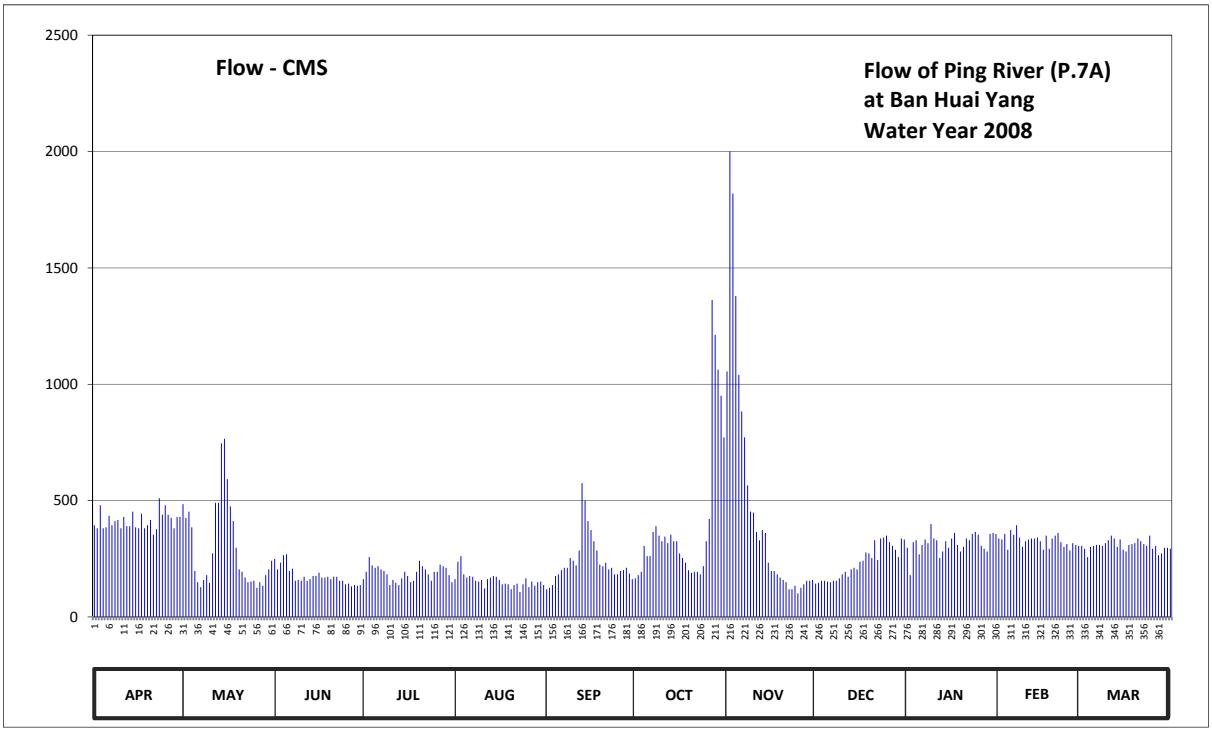
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	73.22	73.42	72.86	72.62	72.62	72.48	72.63	74.34	72.56	72.98	73.08	73.00	
2	73.19	73.29	72.74	72.71	72.83	72.50	72.67	75.40	72.57	72.67	73.07	72.97	
3	73.41	73.35	72.82	72.88	72.89	72.54	72.71	75.21	72.60	73.04	73.13	72.88	
4	73.19	73.20	72.90	72.79	72.68	72.66	73.00	74.74	72.60	73.06	72.96	72.99	
5	73.20	72.72	72.91	72.76	72.64	72.68	72.89	74.32	72.59	72.91	73.17	73.00	
6	73.31	72.58	72.72	72.78	72.66	72.73	72.89	74.10	72.58	73.01	73.12	73.01	
7	73.22	72.51	72.75	72.74	72.65	72.76	73.15	73.93	72.60	73.07	73.22	73.01	
8	73.26	72.61	72.60	72.72	72.60	72.76	73.21	73.58	72.60	73.03	73.09	73.00	
9	73.27	72.67	72.61	72.68	72.59	72.87	73.11	73.35	72.63	73.23	72.99	73.03	
10	73.19	72.57	72.60	72.54	72.61	72.84	73.05	73.34	72.68	73.08	73.05	73.06	
11	73.30	72.92	72.65	72.61	72.49	72.79	73.10	73.15	72.71	73.06	73.07	73.11	
12	73.21	73.43	72.60	72.57	72.62	72.95	73.03	73.06	72.65	72.87	73.08	73.08	
13	73.21	73.43	72.62	72.54	72.64	73.60	73.12	73.17	72.74	72.94	73.08	72.99	
14	73.35	73.89	72.66	72.63	72.66	73.45	73.05	73.14	72.76	73.05	73.09	73.07	
15	73.20	73.92	72.66	72.71	72.65	73.26	73.05	72.82	72.74	72.98	73.05	72.96	
16	73.19	73.63	72.70	72.66	72.61	73.17	72.92	72.72	72.83	73.08	72.96	72.94	
17	73.33	73.40	72.64	72.58	72.55	73.05	72.87	72.72	72.84	73.14	73.11	73.01	
18	73.19	73.26	72.64	72.60	72.56	72.95	72.82	72.68	72.93	73.01	72.97	73.02	
19	73.22	72.98	72.65	72.71	72.55	72.80	72.73	72.64	72.92	72.94	73.08	73.03	
20	73.27	72.74	72.62	72.84	72.48	72.78	72.70	72.61	72.87	72.99	73.11	73.08	
21	73.12	72.71	72.65	72.78	72.54	72.82	72.71	72.58	73.06	73.08	73.14	73.05	
22	73.18	72.64	72.65	72.74	72.56	72.74	72.71	72.48	72.85	73.06	73.04	73.02	
23	73.47	72.58	72.60	72.68	72.44	72.76	72.68	72.48	73.08	73.13	72.99	73.00	
24	73.32	72.59	72.60	72.60	72.55	72.68	72.78	72.53	73.09	73.15	73.02	73.11	
25	73.41	72.60	72.55	72.71	72.63	72.68	73.05	72.42	73.11	73.12	72.95	72.97	
26	73.32	72.50	72.56	72.71	72.51	72.72	73.28	72.50	73.04	73.00	73.03	73.00	
27	73.29	72.58	72.52	72.80	72.59	72.73	74.72	72.55	73.00	72.97	73.01	72.90	
28	73.19	72.53	72.54	72.78	72.53	72.76	74.54	72.60	72.96	72.94	73.00	72.92	
29	73.30	72.67	72.53	72.76	72.58	72.69	74.35	72.60	72.88	73.13		72.98	
30	73.30	72.74	72.54	72.67	72.59	72.62	74.20	72.61	73.08	73.14		72.98	
31		72.84		72.58	72.54		73.93		73.07	73.13		72.97	
Mean	73.26	72.95	72.66	72.69	72.60	72.83	73.15	73.21	72.81	73.03	73.06	73.00	
Max	73.47	73.92	72.91	72.88	72.89	73.60	74.72	75.40	73.11	73.23	73.22	73.11	75.40
Min	73.12	72.50	72.52	72.54	72.44	72.48	72.63	72.42	72.56	72.67	72.95	72.88	72.42

Annual Max Momentary Gage Height 75.68 m. (MSL.) , at 18.00 Hours , on Nov 2, 2008

Zero Gage at Bottom Elevation 71.73 m. (MSL.) , River Bed 70.30 m. (MSL.)

Left Bank Elevation 77.19 m. (MSL.) ,

Right Bank Elevation 77.87 m. (MSL.) , Drainage Are 42,464 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	394.00	485.00	249.00	162.00	162.00	119.00	165.50	1055.00	143.00	297.00	337.00	305.00		
2	381.00	425.50	204.00	193.50	237.00	125.00	179.50	2000.00	146.00	179.50	333.00	293.00		
3	480.00	452.50	233.00	257.00	261.00	137.00	193.50	1819.50	155.00	321.00	357.00	257.00		
4	381.00	385.00	265.00	221.50	183.00	176.00	305.00	1379.00	155.00	329.00	289.00	301.00		
5	385.00	197.00	269.00	211.00	169.00	183.00	261.00	1040.00	152.00	269.00	373.00	305.00		
6	434.50	149.00	197.00	218.00	176.00	200.50	261.00	882.50	149.00	309.00	353.00	309.00		
7	394.00	128.00	207.50	204.00	172.50	211.00	365.00	771.25	155.00	333.00	394.00	309.00		
8	412.00	158.50	155.00	197.00	155.00	211.00	389.50	565.00	155.00	317.00	341.00	305.00		
9	416.50	179.50	158.50	183.00	152.00	253.00	349.00	452.50	165.50	398.50	301.00	317.00		
10	381.00	146.00	155.00	137.00	158.50	241.00	325.00	448.00	183.00	337.00	325.00	329.00		
11	430.00	273.00	172.50	158.50	122.00	221.50	345.00	365.00	193.50	329.00	333.00	349.00		
12	389.50	490.00	155.00	146.00	162.00	285.00	317.00	329.00	172.50	253.00	337.00	337.00		
13	389.50	490.00	162.00	137.00	169.00	575.00	353.00	373.00	204.00	281.00	337.00	301.00		
14	452.50	746.25	176.00	165.50	176.00	500.00	325.00	361.00	211.00	325.00	341.00	333.00		
15	385.00	765.00	176.00	193.50	172.50	412.00	325.00	233.00	204.00	297.00	325.00	289.00		
16	381.00	592.25	190.00	176.00	158.50	373.00	273.00	197.00	237.00	337.00	289.00	281.00		
17	443.50	475.00	169.00	149.00	140.00	325.00	253.00	197.00	241.00	361.00	349.00	309.00		
18	381.00	412.00	169.00	155.00	143.00	285.00	233.00	183.00	277.00	309.00	293.00	313.00		
19	394.00	297.00	172.50	193.50	140.00	225.00	200.50	169.00	273.00	281.00	337.00	317.00		
20	416.50	204.00	162.00	241.00	119.00	218.00	190.00	158.50	253.00	301.00	349.00	337.00		
21	353.00	193.50	172.50	218.00	137.00	233.00	193.50	149.00	329.00	337.00	361.00	325.00		
22	377.00	169.00	172.50	204.00	143.00	204.00	193.50	119.00	245.00	329.00	321.00	313.00		
23	510.00	149.00	155.00	183.00	107.00	211.00	183.00	119.00	337.00	357.00	301.00	305.00		
24	439.00	152.00	155.00	155.00	140.00	183.00	218.00	134.00	341.00	365.00	313.00	349.00		
25	480.00	155.00	140.00	193.50	165.50	183.00	325.00	101.00	349.00	353.00	285.00	293.00		
26	439.00	125.00	143.00	193.50	128.00	197.00	421.00	125.00	321.00	305.00	317.00	305.00		
27	425.50	149.00	131.00	225.00	152.00	200.50	1362.00	140.00	305.00	293.00	309.00	265.00		
28	381.00	134.00	137.00	218.00	134.00	211.00	1212.00	155.00	289.00	281.00	305.00	273.00		
29	430.00	179.50	134.00	211.00	149.00	186.50	1062.50	155.00	257.00	357.00		297.00		
30	430.00	204.00	137.00	179.50	152.00	162.00	950.00	158.50	337.00	361.00		297.00		
31		241.00		149.00	137.00		771.25		333.00	357.00		293.00		
Total	12386.00	9301.50	5274.00	5828.50	4872.50	7247.00	12500.25	14333.75	7267.50	9859.00	9205.00	9511.00	107586.00	CMSDAY
Mean	412.87	300.05	175.80	188.02	157.18	241.57	403.23	477.79	234.44	318.03	328.75	306.81	294.76	CMS
Max	510.00	765.00	269.00	257.00	261.00	575.00	1362.00	2000.00	349.00	398.50	394.00	349.00	2000.00	CMS
Min	353.00	125.00	131.00	137.00	107.00	119.00	165.50	101.00	143.00	179.50	285.00	257.00	101.00	CMS
Runoff	1070.15	803.65	455.67	503.58	420.98	626.14	1080.02	1238.44	627.91	851.82	795.31	821.75	9295.43	MCM

Momentary Peak 2294.00 CMS. at 75.68 m. (MSL.) at 18.00 Hours , on Nov 2, 2008

WATER YEAR : 2008

PING RIVER BASIN

Ping River at Ban Yanree , 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 Yanree **Amphoe** Sam Ngao **Changwat** Tak

Drainge 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 mean of 5 readings
Period of Available Gage Records	1995 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Phumiphol Dam reservior downstream from the gage site. Stage-discharge relation defined by 12 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

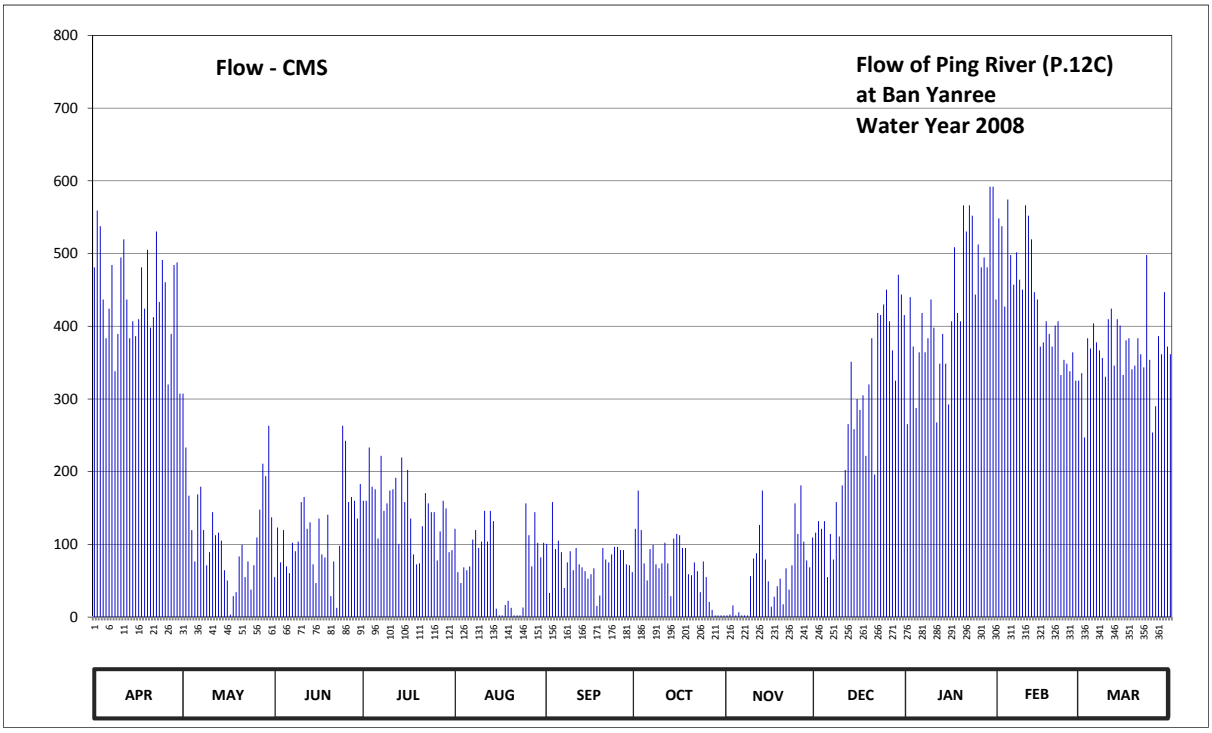
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	131.75	131.15	129.80	130.48	130.26	130.13	130.26	129.10	130.23	130.98	131.94	131.26	
2	131.97	130.84	130.27	130.48	129.85	129.61	130.56	129.14	130.32	131.63	131.91	130.90	
3	131.91	130.52	129.95	130.84	129.73	130.47	130.25	129.40	130.26	131.40	131.59	131.44	
4	131.62	130.25	130.25	130.59	129.90	130.08	129.94	129.10	130.32	131.07	132.01	131.39	
5	131.44	129.96	129.91	130.57	129.87	130.16	129.76	129.23	129.80	131.37	131.80	131.51	
6	131.58	130.53	129.84	130.18	129.91	130.05	130.08	129.10	130.22	131.56	131.68	131.42	
7	131.76	130.59	130.14	130.79	130.17	129.67	130.12	129.10	129.98	131.37	131.81	131.38	
8	131.27	130.25	130.06	130.40	130.25	129.95	129.93	129.10	130.47	131.44	131.70	131.34	
9	131.46	129.92	130.15	130.46	130.09	130.06	129.89	129.81	130.20	131.62	131.66	131.24	
10	131.79	130.05	130.47	130.56	130.15	129.87	129.94	129.99	130.60	131.49	131.99	131.53	
11	131.86	130.39	130.51	130.57	130.40	130.09	130.14	130.04	130.70	130.99	131.95	131.58	
12	131.62	130.21	130.26	130.65	130.15	129.93	129.94	130.29	130.98	131.31	131.86	131.30	
13	131.44	130.23	130.31	130.13	130.40	129.90	129.56	130.56	131.32	131.46	131.65	131.53	
14	131.52	130.16	129.93	130.78	130.32	129.86	130.18	129.98	130.95	131.31	131.62	131.50	
15	131.45	129.87	129.73	130.47	129.32	129.78	130.22	129.75	131.12	131.09	131.40	131.25	
16	131.53	129.76	130.34	130.70	129.10	129.83	130.21	129.37	131.06	131.52	131.42	131.43	
17	131.75	129.14	130.03	130.34	129.10	129.89	130.09	129.55	131.14	131.83	131.52	131.44	
18	131.58	129.56	130.00	130.03	129.41	129.39	130.09	129.69	130.79	131.56	131.46	131.28	
19	131.82	129.62	130.37	129.93	129.48	129.57	129.83	129.78	131.20	131.52	131.40	131.30	
20	131.49	130.01	129.56	129.94	129.34	130.09	129.82	129.42	131.44	131.99	131.50	131.44	
21	131.54	130.12	129.96	130.28	129.10	129.98	129.95	129.89	130.67	131.89	131.52	131.36	
22	131.89	129.80	129.34	130.54	129.10	129.95	129.86	129.65	131.56	131.99	131.25	131.29	
23	131.61	129.96	130.11	130.46	129.10	130.03	129.62	129.92	131.55	131.95	131.33	131.80	
24	131.78	129.65	130.97	130.39	129.35	130.10	129.96	130.46	131.60	131.64	131.31	131.33	
25	131.69	129.92	130.88	130.39	130.46	130.10	129.80	130.22	131.66	131.84	131.27	130.93	
26	131.20	130.19	130.47	129.97	130.21	130.07	129.46	130.60	131.52	131.75	131.37	131.08	
27	131.46	130.41	130.51	130.24	129.91	130.07	129.29	130.15	131.38	131.79	131.22	131.45	
28	131.76	130.74	130.48	130.48	130.39	129.93	129.10	129.97	131.22	131.75	131.22	131.36	
29	131.77	130.66	130.34	130.42	130.14	129.92	129.10	129.90	131.72	132.05		131.65	
30	131.15	130.97	130.61	130.05	130.00	129.85	129.10	130.19	131.64	132.05		131.40	
31		130.35		130.07	130.14		129.10		131.55	131.62		131.36	
Mean	131.62	130.19	130.19	130.39	129.84	129.95	129.84	129.75	130.94	131.58	131.58	131.37	
Max	131.97	131.15	130.97	130.84	130.46	130.47	130.56	130.60	131.72	132.05	132.01	131.80	132.05
Min	131.15	129.14	129.34	129.93	129.10	129.39	129.10	129.10	129.80	130.98	131.22	130.90	129.10

Annual Max Momentary Gage Height 132.80 m. (MSL.) , at 18.00 Hours , on Dec 25, 2008

Zero Gage at Bottom Elevation 129.00 m. (MSL.) , River Bed 127.61 m. (MSL.)

Left Bank Elevation 133.26 m. (MSL.) ,

Right Bank Elevation 134.32 m. (MSL.) , Drainage Are 26,241 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	481.00	307.50	55.00	160.00	121.50	100.85	121.50	2.50	116.25	265.40	548.40	335.60		
2	559.20	233.20	123.25	160.00	61.75	33.15	174.00	3.50	132.00	440.20	537.60	247.00		
3	537.60	167.00	75.25	233.20	46.95	158.25	119.75	16.00	121.50	372.00	427.10	383.60		
4	436.80	119.75	119.75	179.25	68.50	93.60	73.90	2.50	132.00	287.50	574.40	369.40		
5	383.60	76.60	69.85	175.75	64.45	105.20	50.40	6.65	55.00	364.20	498.00	403.90		
6	424.20	168.75	60.40	108.10	69.85	89.25	93.60	2.50	114.50	418.40	457.20	377.80		
7	484.40	179.25	102.30	221.85	106.65	40.05	99.40	2.50	79.30	364.20	501.60	366.80		
8	338.20	119.75	90.70	146.00	119.75	75.25	72.55	2.50	158.25	383.60	464.00	356.40		
9	389.40	71.20	103.75	156.50	95.05	90.70	67.15	56.35	111.00	436.80	450.40	330.40		
10	494.60	89.25	158.25	174.00	103.75	64.45	73.90	80.65	181.00	398.10	566.40	409.70		
11	519.60	144.25	165.25	175.75	146.00	95.05	102.30	87.80	202.50	267.70	552.00	424.20		
12	436.80	112.75	121.50	191.75	103.75	72.55	73.90	126.75	265.40	348.60	519.60	346.00		
13	383.60	116.25	130.25	100.85	146.00	68.50	28.80	174.00	351.20	389.40	447.00	409.70		
14	406.80	105.20	72.55	219.70	132.00	63.10	108.10	79.30	258.50	348.60	436.80	401.00		
15	386.50	64.45	46.95	158.25	11.60	52.70	114.50	49.25	300.00	292.50	372.00	333.00		
16	409.70	50.40	135.50	202.50	2.50	59.05	112.75	14.35	285.00	406.80	377.80	380.70		
17	481.00	3.50	86.35	135.50	2.50	67.15	95.05	28.00	305.00	508.80	406.80	383.60		
18	424.20	28.80	82.00	86.35	16.80	15.45	95.05	42.35	221.85	418.40	389.40	340.80		
19	505.20	34.30	140.75	72.55	22.40	29.60	59.05	52.70	320.00	406.80	372.00	346.00		
20	398.10	83.45	28.80	73.90	12.70	95.05	57.70	17.60	383.60	566.40	401.00	383.60		
21	412.60	99.40	76.60	125.00	2.50	79.30	75.25	67.15	196.05	530.40	406.80	361.60		
22	530.40	55.00	12.70	170.50	2.50	75.25	63.10	37.75	418.40	566.40	333.00	343.40		
23	433.40	76.60	97.95	156.50	2.50	86.35	34.30	71.20	415.50	552.00	353.80	498.00		
24	491.20	37.75	263.10	144.25	13.25	96.50	76.60	156.50	430.00	443.60	348.60	353.80		
25	460.60	71.20	242.40	144.25	156.50	96.50	55.00	114.50	450.40	512.40	338.20	253.90		
26	320.00	109.55	158.25	77.95	112.75	92.15	20.80	181.00	406.80	481.00	364.20	290.00		
27	389.40	147.75	165.25	118.00	69.85	92.15	9.95	103.75	366.80	494.60	325.20	386.50		
28	484.40	211.10	160.00	160.00	144.25	72.55	2.50	77.95	325.20	481.00	325.20	361.60		
29	487.80	193.90	135.50	149.50	102.30	71.20	2.50	68.50	470.80	592.00		447.00		
30	307.50	263.10	183.15	89.25	82.00	61.75	2.50	109.55	443.60	592.00		372.00		
31		137.25		92.15	102.30		2.50		415.50	436.80		361.60		
Total	13197.80	3678.20	3463.30	4559.10	2245.15	2292.65	2138.35	1835.60	8432.90	13366.60	12094.50	11358.60	78662.75	CMSDAY
Mean	439.93	118.65	115.44	147.07	72.42	76.42	68.98	61.19	272.03	431.18	431.95	366.41	215.51	CMS
Max	559.20	307.50	263.10	233.20	156.50	158.25	174.00	181.00	470.80	592.00	574.40	498.00	592.00	CMS
Min	307.50	3.50	12.70	72.55	2.50	15.45	2.50	2.50	55.00	265.40	325.20	247.00	2.50	CMS
Runoff	1140.29	317.80	299.23	393.91	193.98	198.08	184.75	158.60	728.60	1154.87	1044.96	981.38	6796.46	MCM

Momentary Peak 980.00 CMS. at 132.80 m. (MSL.) at 18.00 Hours , on Dec 25, 2008

Runoff Yield 8.21 Liters/Second/Square KM. Momentary Peak Yield 37.35 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1964 - 1974 , 1997 to date
Rated by Float	-
Rated by Current Meter	1964 - 1974 , 1997 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 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

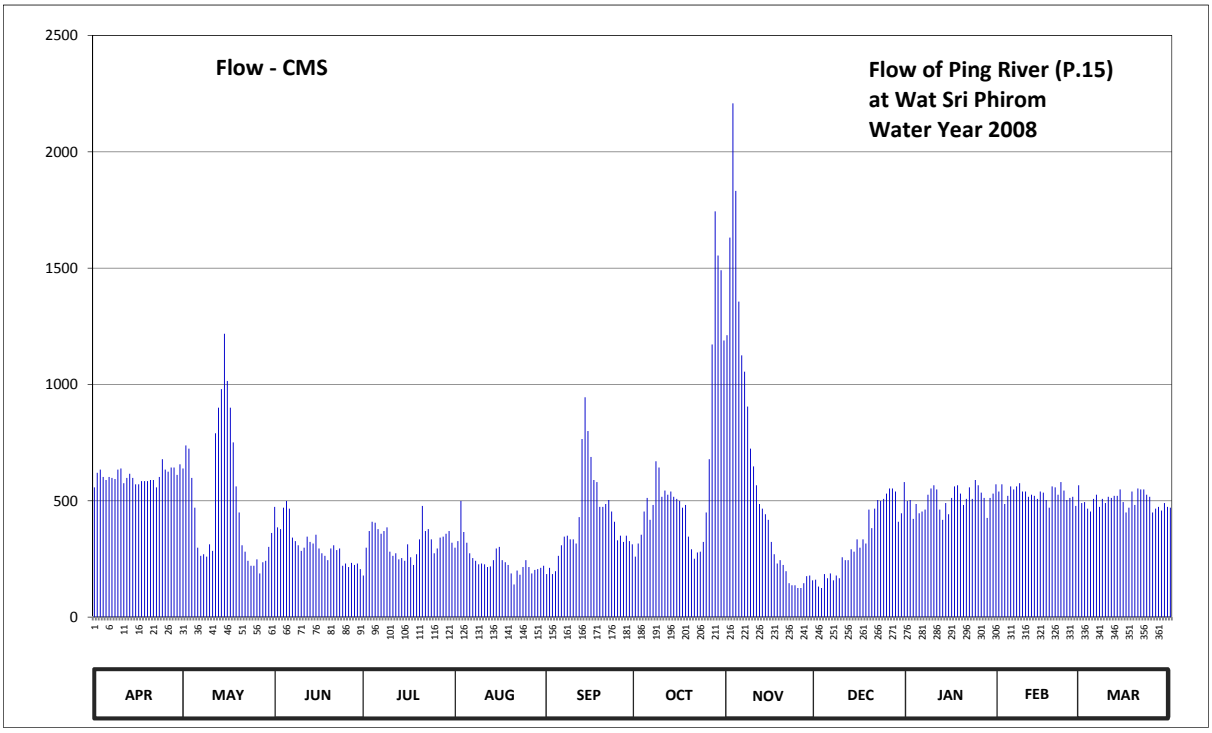
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.75	53.93	53.56	52.73	53.11	52.75	53.00	55.09	52.67	53.62	53.71	53.60	
2	53.89	54.15	53.34	53.11	53.19	52.84	53.16	55.73	52.57	53.63	53.78	53.61	
3	53.92	54.12	53.32	53.30	53.62	52.75	53.26	56.46	52.55	53.43	53.59	53.54	
4	53.85	53.84	53.55	53.40	53.29	52.79	53.51	55.99	52.75	53.59	53.67	53.51	
5	53.82	53.55	53.62	53.39	53.17	53.01	53.65	55.33	52.69	53.49	53.76	53.64	
6	53.85	53.11	53.54	53.32	53.04	53.14	53.42	54.93	52.76	53.51	53.73	53.68	
7	53.84	53.01	53.23	53.27	52.98	53.24	53.58	54.79	52.66	53.53	53.76	53.56	
8	53.83	53.03	53.19	53.30	52.94	53.25	54.00	54.49	52.73	53.68	53.79	53.64	
9	53.92	53.00	53.14	53.34	52.89	53.21	53.94	54.12	52.69	53.74	53.71	53.60	
10	53.93	53.15	53.07	53.06	52.90	53.21	53.66	53.95	52.99	53.77	53.71	53.66	
11	53.79	53.07	53.11	53.01	52.89	53.16	53.72	53.77	52.95	53.73	53.66	53.65	
12	53.84	54.26	53.24	53.04	52.85	53.45	53.68	53.59	52.95	53.53	53.68	53.67	
13	53.88	54.48	53.18	52.96	52.86	54.21	53.71	53.54	53.09	53.42	53.67	53.67	
14	53.84	54.64	53.16	52.98	52.95	54.57	53.66	53.48	53.06	53.60	53.64	53.73	
15	53.78	55.10	53.26	52.94	53.10	54.28	53.64	53.42	53.21	53.48	53.71	53.61	
16	53.78	54.71	53.10	53.15	53.12	54.04	53.62	53.18	53.11	53.65	53.70	53.50	
17	53.81	54.48	53.04	52.99	52.95	53.82	53.55	53.03	53.21	53.76	53.63	53.55	
18	53.81	54.18	53.01	52.88	52.92	53.80	53.58	52.90	53.16	53.77	53.55	53.71	
19	53.81	53.76	52.95	53.03	52.88	53.56	53.24	52.95	53.53	53.69	53.76	53.58	
20	53.82	53.50	53.10	53.21	52.76	53.56	53.09	52.88	53.33	53.58	53.75	53.74	
21	53.82	53.14	53.14	53.57	52.60	53.59	52.97	52.79	53.54	53.64	53.68	53.73	
22	53.75	53.06	53.08	53.30	52.80	53.63	53.05	52.62	53.63	53.75	53.80	53.73	
23	53.85	52.94	53.10	53.32	52.74	53.51	53.06	52.59	53.62	53.64	53.72	53.68	
24	54.02	52.87	52.87	53.21	52.85	53.40	53.18	52.59	53.64	53.82	53.63	53.66	
25	53.92	52.87	52.90	53.04	52.95	53.20	53.50	52.55	53.69	53.77	53.65	53.50	
26	53.90	52.96	52.85	53.10	52.85	53.25	54.02	52.55	53.74	53.70	53.66	53.54	
27	53.94	52.76	52.91	53.23	52.76	53.18	55.02	52.62	53.74	53.65	53.57	53.56	
28	53.94	52.92	52.88	53.24	52.81	53.25	55.88	52.72	53.71	53.44	53.77	53.52	
29	53.87	52.94	52.90	53.27	52.82	53.19	55.62	52.73	53.40	53.65		53.60	
30	53.97	53.12	52.82	53.30	52.84	53.15	55.53	52.66	53.49	53.69		53.56	
31		53.28		53.17	52.87		55.05		53.80	53.78		53.55	
Mean	53.86	53.55	53.14	53.17	52.95	53.40	53.79	53.67	53.18	53.64	53.69	53.62	
Max	54.02	55.10	53.62	53.57	53.62	54.57	55.88	56.46	53.80	53.82	53.80	53.74	56.46
Min	53.75	52.76	52.82	52.73	52.60	52.75	52.97	52.55	52.55	53.42	53.55	53.50	52.55

Annual Max Momentary Gage Height 56.53 m. (MSL.) , at 06.00 Hours , on Nov 3, 2008

Zero Gage at Bottom Elevation 51.55 m. (MSL.) , River Bed 53.24 m. (MSL.)

Left Bank Elevation 57.48 m. (MSL.) ,

Right Bank Elevation 57.53 m. (MSL.) , Drainage Are 44,461 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	557.50	638.50	474.00	179.00	298.50	185.00	260.00	1211.75	161.00	499.00	539.50	490.00		
2	620.50	737.50	386.00	298.50	326.50	212.00	316.00	1631.00	131.00	503.50	571.00	494.50		
3	634.00	724.00	378.00	370.00	499.00	185.00	354.00	2208.00	125.00	422.00	486.00	466.00		
4	602.50	598.00	470.00	410.00	366.00	197.00	454.00	1832.00	185.00	486.00	521.50	454.00		
5	589.00	470.00	499.00	406.00	319.50	263.50	512.50	1356.25	167.00	446.00	562.00	508.00		
6	602.50	298.50	466.00	378.00	274.00	309.00	418.00	1125.00	188.00	454.00	548.50	526.00		
7	598.00	263.50	342.00	358.00	254.00	346.00	482.00	1055.00	158.00	462.00	562.00	474.00		
8	593.50	270.50	326.50	370.00	242.00	350.00	670.00	905.00	179.00	526.00	575.50	508.00		
9	634.00	260.00	309.00	386.00	227.00	334.00	643.00	724.00	167.00	553.00	539.50	490.00		
10	638.50	312.50	284.50	281.00	230.00	334.00	517.00	647.50	257.00	566.50	539.50	517.00		
11	575.50	284.50	298.50	263.50	227.00	316.00	544.00	566.50	245.00	548.50	517.00	512.50		
12	598.00	790.00	346.00	274.00	215.00	430.00	526.00	486.00	245.00	462.00	526.00	521.50		
13	616.00	900.00	323.00	248.00	218.00	765.00	539.50	466.00	291.50	418.00	521.50	521.50		
14	598.00	980.00	316.00	254.00	245.00	945.00	517.00	442.00	281.00	490.00	508.00	548.50		
15	571.00	1217.50	354.00	242.00	295.00	800.00	508.00	418.00	334.00	442.00	539.50	494.50		
16	571.00	1015.00	295.00	312.50	302.00	688.00	499.00	323.00	298.50	512.50	535.00	450.00		
17	584.50	900.00	274.00	257.00	245.00	589.00	470.00	270.50	334.00	562.00	503.50	470.00		
18	584.50	751.00	263.50	224.00	236.00	580.00	482.00	230.00	316.00	566.50	470.00	539.50		
19	584.50	562.00	245.00	270.50	224.00	474.00	346.00	245.00	462.00	530.50	562.00	482.00		
20	589.00	450.00	295.00	334.00	188.00	474.00	291.50	224.00	382.00	482.00	557.50	553.00		
21	589.00	309.00	309.00	478.00	140.00	486.00	251.00	197.00	466.00	508.00	526.00	548.50		
22	557.50	281.00	288.00	370.00	200.00	503.50	277.50	146.00	503.50	557.50	580.00	548.50		
23	602.50	242.00	295.00	378.00	182.00	454.00	281.00	137.00	499.00	508.00	544.00	526.00		
24	679.00	221.00	221.00	334.00	215.00	410.00	323.00	137.00	508.00	589.00	503.50	517.00		
25	634.00	221.00	230.00	274.00	245.00	330.00	450.00	125.00	530.50	566.50	512.50	450.00		
26	625.00	248.00	215.00	295.00	215.00	350.00	679.00	125.00	553.00	535.00	517.00	466.00		
27	643.00	188.00	233.00	342.00	188.00	323.00	1171.50	146.00	553.00	512.50	478.00	474.00		
28	643.00	236.00	224.00	346.00	203.00	350.00	1744.00	176.00	539.50	426.00	566.50	458.00		
29	611.50	242.00	230.00	358.00	206.00	326.50	1554.00	179.00	410.00	512.50		490.00		
30	656.50	302.00	206.00	370.00	212.00	312.50	1491.00	158.00	446.00	530.50		474.00		
31		362.00		319.50	221.00		1188.75		580.00	571.00		470.00		
Total	18183.00	15275.00	9396.00	9980.50	7658.50	12622.00	18760.25	17892.50	10495.50	15748.50	14912.50	15442.50	166366.75	CMSDAY
Mean	606.10	492.74	313.20	321.95	247.05	420.73	605.17	596.42	338.56	508.02	532.59	498.15	455.80	CMS
Max	679.00	1217.50	499.00	478.00	499.00	945.00	1744.00	2208.00	580.00	589.00	580.00	553.00	2208.00	CMS
Min	557.50	188.00	206.00	179.00	140.00	185.00	251.00	125.00	125.00	418.00	470.00	450.00	125.00	CMS
Runoff	1571.01	1319.76	811.81	862.32	661.69	1090.54	1620.89	1545.91	906.81	1360.67	1288.44	1334.23	14374.09	MCM

Momentary Peak 2264.00 CMS. at 56.53 m. (MSL.) at 06.00 Hours , on Nov 3, 2008

Runoff Yield 10.25 Liters/Second/Square KM. Momentary Peak Yield 50.92 Liters/Second/Square KM.

WATER YEAR : 2008

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 Woralaksaburi **Changwat** Kamphaeng Phet

Drainge Area	45,076 sq.km.
Type of Gage	Staff gage.
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1960 , 1967 - 1974 , 1990 to date
Rated by Float	-
Rated by Current Meter	1960 , 1964 - 1975 , 1979 , 1990 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

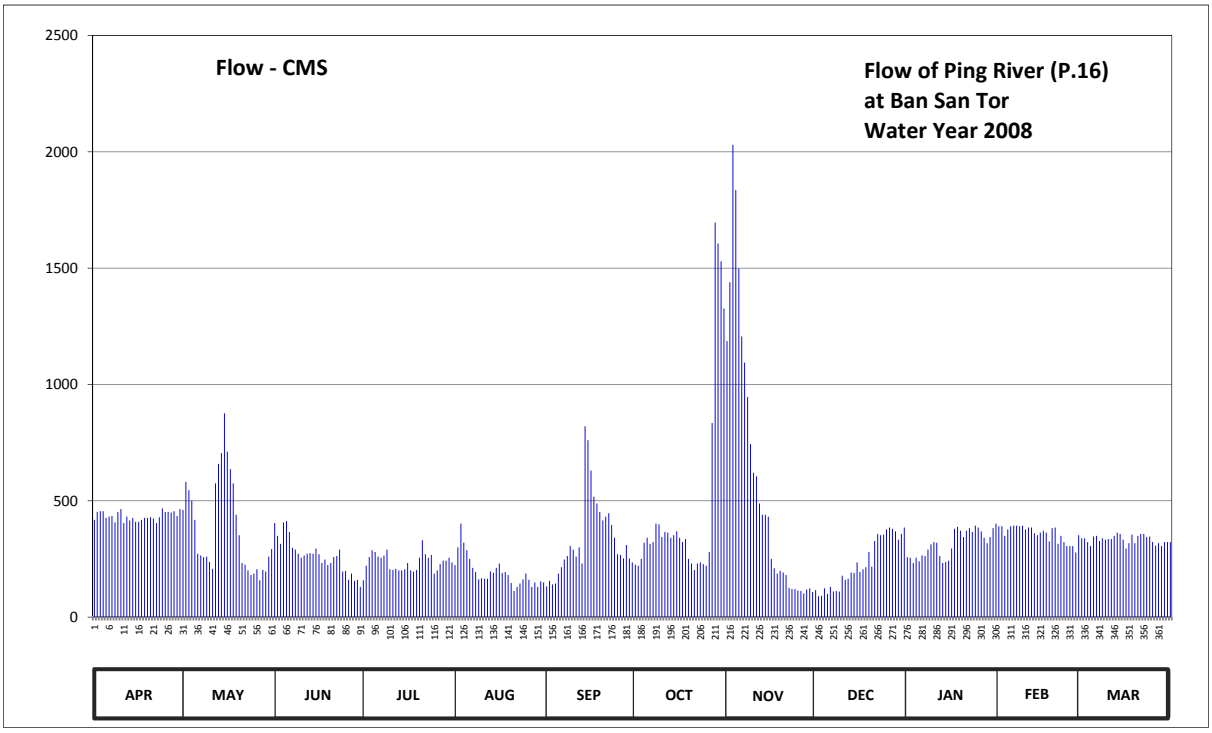
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.72	41.87	41.67	40.68	40.97	40.56	40.98	43.94	40.48	41.11	41.62	41.43	
2	41.84	42.27	41.47	40.96	41.28	40.67	40.96	44.52	40.34	41.10	41.62	41.43	
3	41.85	42.15	41.34	41.11	41.66	40.60	41.08	45.81	40.35	41.01	41.47	41.37	
4	41.85	42.00	41.68	41.23	41.36	40.62	41.36	45.40	40.52	41.10	41.57	41.30	
5	41.75	41.72	41.70	41.20	41.23	40.81	41.44	44.65	40.40	41.04	41.62	41.46	
6	41.77	41.17	41.53	41.12	41.08	40.93	41.34	43.99	40.55	41.14	41.63	41.47	
7	41.78	41.14	41.27	41.10	40.92	41.07	41.37	43.71	40.45	41.13	41.63	41.39	
8	41.68	41.11	41.24	41.14	40.84	41.13	41.66	43.34	40.46	41.24	41.62	41.43	
9	41.84	41.12	41.17	41.24	40.70	41.30	41.65	42.78	40.45	41.33	41.63	41.41	
10	41.88	41.03	41.10	40.89	40.72	41.24	41.45	42.40	40.77	41.37	41.57	41.42	
11	41.67	40.90	41.14	40.88	40.71	41.12	41.53	42.35	40.69	41.36	41.60	41.42	
12	41.77	42.25	41.17	40.90	40.71	41.28	41.52	41.96	40.71	41.13	41.60	41.47	
13	41.71	42.52	41.18	40.87	40.85	41.00	41.44	41.80	40.83	41.01	41.51	41.52	
14	41.75	42.66	41.17	40.87	40.82	43.00	41.48	41.80	40.82	41.03	41.48	41.50	
15	41.69	43.16	41.26	40.89	40.92	42.83	41.54	41.77	41.02	41.05	41.52	41.41	
16	41.69	42.68	41.16	41.01	41.00	42.43	41.44	41.08	40.84	41.26	41.55	41.26	
17	41.72	42.45	41.01	40.87	40.82	42.06	41.37	40.91	40.89	41.58	41.52	41.35	
18	41.75	42.25	41.07	40.85	40.84	41.96	41.42	40.81	40.93	41.61	41.38	41.49	
19	41.75	41.80	40.97	40.88	40.78	41.84	41.08	40.86	41.20	41.55	41.59	41.35	
20	41.76	41.48	41.01	41.10	40.63	41.71	41.00	40.83	40.94	41.45	41.60	41.47	
21	41.74	41.01	41.11	41.40	40.46	41.77	40.88	40.78	41.39	41.55	41.34	41.50	
22	41.67	40.98	41.13	41.16	40.55	41.82	41.00	40.53	41.50	41.59	41.47	41.50	
23	41.76	40.87	41.24	41.10	40.62	41.64	41.02	40.50	41.48	41.53	41.37	41.45	
24	41.89	40.78	40.85	41.15	40.70	41.44	40.99	40.50	41.49	41.63	41.30	41.46	
25	41.84	40.81	40.86	40.81	40.81	41.16	40.96	40.47	41.57	41.60	41.30	41.37	
26	41.84	40.89	40.69	40.87	40.69	41.15	41.20	40.46	41.60	41.54	41.30	41.31	
27	41.83	40.68	40.81	40.99	40.55	41.09	43.04	40.41	41.58	41.44	41.19	41.35	
28	41.85	40.88	40.67	41.05	40.64	41.32	45.09	40.49	41.54	41.35	41.48	41.30	
29	41.78	40.85	40.69	41.05	40.55	41.09	44.89	40.52	41.41	41.45		41.37	
30	41.88	41.12	40.55	41.10	40.66	41.02	44.72	40.44	41.50	41.59		41.37	
31		41.25		41.02	40.64		44.27		41.60	41.66		41.37	
Mean	41.78	41.54	41.13	41.02	40.83	41.39	41.78	41.99	40.98	41.34	41.50	41.41	
Max	41.89	43.16	41.70	41.40	41.66	43.00	45.09	45.81	41.60	41.66	41.63	41.52	45.81
Min	41.67	40.68	40.55	40.68	40.46	40.56	40.88	40.41	40.34	41.01	41.19	41.26	40.34

Annual Max Momentary Gage Height 45.93 m. (MSL.) , at 15.00 Hours , on Nov 3, 2008

Zero Gage at Bottom Elevation 41.78 m. (MSL.) , River Bed 36.36 m. (MSL.)

Left Bank Elevation 49.12 m. (MSL.) ,

Right Bank Elevation 51.45 m. (MSL.) , Drainage Are 45,076 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	418.00	461.00	404.25	158.00	223.25	132.00	225.50	1186.00	116.00	257.50	390.50	338.25		
2	452.00	581.00	349.25	221.00	300.00	155.75	221.00	1439.00	89.50	255.00	390.50	338.25		
3	455.00	545.00	315.00	257.50	401.50	140.00	250.00	2029.75	91.25	232.50	349.25	322.50		
4	455.00	500.00	407.00	287.50	320.00	144.50	320.00	1835.00	124.00	255.00	376.75	305.00		
5	426.25	418.00	412.50	280.00	287.50	187.25	341.00	1497.50	100.00	240.00	390.50	346.50		
6	431.75	272.50	365.75	260.00	250.00	214.25	315.00	1206.00	130.00	265.00	393.25	349.25		
7	434.50	265.00	297.50	255.00	212.00	247.50	322.50	1094.00	110.00	262.50	393.25	327.50		
8	407.00	257.50	290.00	265.00	194.00	262.50	401.50	946.00	112.00	290.00	390.50	338.25		
9	452.00	260.00	272.50	290.00	162.50	305.00	398.75	743.50	110.00	312.50	393.25	332.75		
10	464.00	237.50	255.00	205.25	167.00	290.00	343.75	620.00	178.25	322.50	376.75	335.50		
11	404.25	207.50	265.00	203.00	164.75	260.00	365.75	605.00	160.25	320.00	385.00	335.50		
12	431.75	575.00	272.50	207.50	164.75	300.00	363.00	488.00	164.75	262.50	385.00	349.25		
13	415.25	659.00	275.00	200.75	196.25	230.00	341.00	440.00	191.75	232.50	360.25	363.00		
14	426.25	704.50	272.50	200.75	189.50	820.00	352.00	440.00	189.50	237.50	352.00	357.50		
15	409.75	876.00	295.00	205.25	212.00	760.50	368.50	431.75	235.00	242.50	363.00	332.75		
16	409.75	711.00	270.00	232.50	230.00	629.75	341.00	250.00	194.00	295.00	371.25	295.00		
17	418.00	636.25	232.50	200.75	189.50	518.00	322.50	209.75	205.25	379.50	363.00	317.50		
18	426.25	575.00	247.50	196.25	194.00	488.00	335.50	187.25	214.25	387.75	325.00	354.75		
19	426.25	440.00	223.25	203.00	180.50	452.00	250.00	198.50	280.00	371.25	382.25	317.50		
20	429.00	352.00	232.50	255.00	146.75	415.25	230.00	191.75	216.50	343.75	385.00	349.25		
21	423.50	232.50	257.50	330.00	112.00	431.75	203.00	180.50	327.50	371.25	315.00	357.50		
22	404.25	225.50	262.50	270.00	130.00	446.00	230.00	126.00	357.50	382.25	349.25	357.50		
23	429.00	200.75	290.00	255.00	144.50	396.00	235.00	120.00	352.00	365.75	322.50	343.75		
24	467.00	180.50	196.25	267.50	162.50	341.00	227.75	120.00	354.75	393.25	305.00	346.50		
25	452.00	187.25	198.50	187.25	187.25	270.00	221.00	114.00	376.75	385.00	305.00	322.50		
26	452.00	205.25	160.25	200.75	160.25	267.50	280.00	112.00	385.00	368.50	305.00	307.50		
27	449.00	158.00	187.25	227.75	130.00	252.50	834.00	102.00	379.50	341.00	277.50	317.50		
28	455.00	203.00	155.75	242.50	149.00	310.00	1695.50	118.00	368.50	317.50	352.00	305.00		
29	434.50	196.25	160.25	242.50	130.00	252.50	1605.50	124.00	332.75	343.75		322.50		
30	464.00	260.00	130.00	255.00	153.50	235.00	1529.00	108.00	357.50	382.25		322.50		
31		292.50		235.00	149.00		1326.50		385.00	401.50		322.50		
Total	13022.25	11875.25	7952.75	7297.25	5993.75	10154.50	14795.50	17263.25	7189.00	9816.75	10047.50	10331.00	125738.75	CMSDAY
Mean	434.07	383.07	265.09	235.40	193.35	338.48	477.27	575.44	231.90	316.67	358.84	333.26	344.49	CMS
Max	467.00	876.00	412.50	330.00	401.50	820.00	1695.50	2029.75	385.00	401.50	393.25	363.00	2029.75	CMS
Min	404.25	158.00	130.00	158.00	112.00	132.00	203.00	102.00	89.50	232.50	277.50	295.00	89.50	CMS
Runoff	1125.12	1026.02	687.12	630.48	517.86	877.35	1278.33	1491.54	621.13	848.17	868.10	892.60	10863.83	MCM

Momentary Peak 2086.75 CMS. at 45.93 m. (MSL.) at 15.00 Hours , on Nov 3, 2008

Runoff Yield 7.64 Liters/Second/Square KM. Momentary Peak Yield 46.29 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	45,297 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+32.000 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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1960, 1967 - 1974, 1990 to date
Rated by Float	-
Rated by Current Meter	1954 - 1979, 1990 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +38.080 m.(MSL.) and is including overbank flow.
General Description	Records good. Flow effected by Phumiphol Dam. Stage-discharge relation defined by 24 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

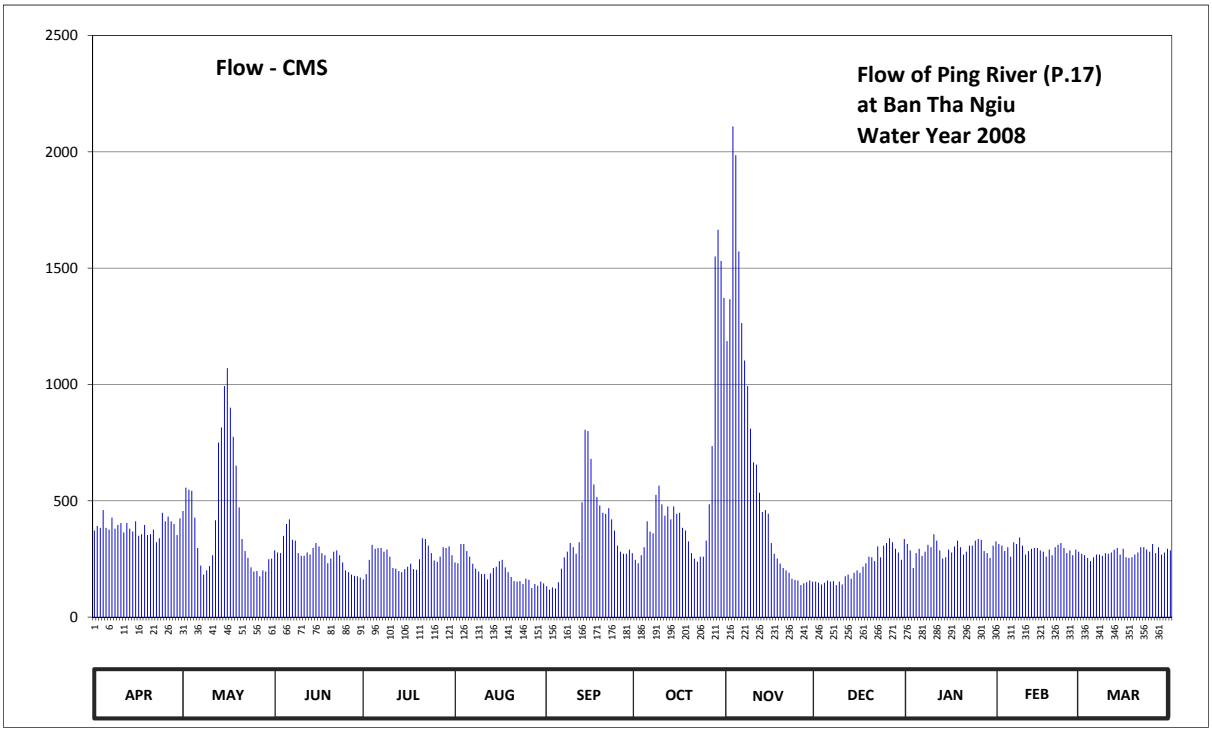
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.43	35.64	35.19	34.73	35.01	34.61	35.05	37.11	34.69	35.27	35.27	35.14	
2	35.48	35.87	35.16	34.82	35.00	34.55	35.00	37.41	34.67	35.19	35.25	35.12	
3	35.46	35.85	35.15	35.05	35.27	34.59	35.12	38.34	34.64	34.92	35.18	35.08	
4	35.65	35.84	35.37	35.26	35.27	34.57	35.23	38.22	34.67	35.15	35.23	35.03	
5	35.46	35.57	35.50	35.21	35.18	34.68	35.53	37.73	34.71	35.21	35.10	35.09	
6	35.44	35.22	35.55	35.22	35.10	34.91	35.42	37.24	34.69	35.11	35.29	35.13	
7	35.57	34.96	35.32	35.22	34.99	35.09	35.40	36.96	34.70	35.17	35.27	35.13	
8	35.45	34.81	35.31	35.17	34.91	35.17	35.80	36.76	34.63	35.26	35.35	35.11	
9	35.49	34.88	35.15	35.20	34.86	35.28	35.89	36.40	34.69	35.23	35.25	35.15	
10	35.51	34.95	35.11	35.10	34.82	35.23	35.71	36.11	34.64	35.39	35.13	35.14	
11	35.41	35.12	35.11	34.92	34.82	35.14	35.59	36.09	34.78	35.31	35.18	35.16	
12	35.51	35.54	35.16	34.91	34.73	35.29	35.69	35.82	34.81	35.19	35.21	35.20	
13	35.45	36.28	35.13	34.87	34.83	35.73	35.55	35.63	34.74	35.07	35.22	35.22	
14	35.42	36.41	35.22	34.85	34.92	36.39	35.69	35.65	34.84	35.09	35.22	35.13	
15	35.53	36.76	35.28	34.90	34.94	36.38	35.61	35.61	34.88	35.20	35.19	35.21	
16	35.37	36.90	35.24	34.94	35.03	36.14	35.62	35.28	34.84	35.16	35.17	35.09	
17	35.39	36.58	35.15	34.99	35.05	35.90	35.46	35.14	34.94	35.24	35.10	35.08	
18	35.49	36.33	35.12	34.90	34.93	35.78	35.43	35.07	35.00	35.31	35.20	35.09	
19	35.38	36.08	35.00	34.89	34.85	35.70	35.30	34.99	35.10	35.23	35.12	35.13	
20	35.39	35.68	35.07	35.06	34.77	35.62	35.15	34.92	35.09	35.13	35.23	35.16	
21	35.44	35.33	35.17	35.34	34.70	35.61	35.07	34.88	35.03	35.17	35.26	35.23	
22	35.29	35.18	35.19	35.33	34.69	35.67	35.02	34.84	35.24	35.25	35.28	35.23	
23	35.34	35.08	35.12	35.25	34.70	35.55	35.10	34.74	35.09	35.25	35.22	35.20	
24	35.62	34.93	35.01	35.15	34.65	35.43	35.10	34.72	35.25	35.31	35.15	35.17	
25	35.53	34.86	34.88	35.04	34.74	35.25	35.31	34.71	35.28	35.33	35.19	35.27	
26	35.58	34.87	34.85	35.02	34.72	35.17	35.71	34.63	35.34	35.32	35.12	35.15	
27	35.53	34.78	34.81	35.10	34.58	35.14	36.25	34.66	35.29	35.18	35.20	35.23	
28	35.50	34.88	34.79	35.23	34.65	35.14	37.70	34.68	35.21	35.15	35.17	35.13	
29	35.38	34.86	34.78	35.22	34.62	35.20	37.86	34.71	35.16	35.08		35.16	
30	35.56	35.06	34.76	35.24	34.69	35.15	37.67	34.69	35.05	35.25		35.21	
31		35.07		35.12	34.66		37.42		35.33	35.30		35.19	
Mean	35.47	35.49	35.12	35.07	34.86	35.34	35.72	35.79	34.94	35.21	35.21	35.15	
Max	35.65	36.90	35.55	35.34	35.27	36.39	37.86	38.34	35.34	35.39	35.35	35.27	38.34
Min	35.29	34.78	34.76	34.73	34.58	34.55	35.00	34.63	34.63	34.92	35.10	35.03	34.55

Annual Max Momentary Gage Height 38.38 m. (MSL.) , at 15.00 Hours , on Nov 3, 2008

Zero Gage at Bottom Elevation 32.00 m. (MSL.) , River Bed 30.25 m. (MSL.)

Left Bank Elevation 38.17 m. (MSL.) ,

Right Bank Elevation 38.07 m. (MSL.) , Drainage Are 45,297 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	372.00	456.00	287.00	162.50	234.80	132.50	246.00	1186.00	152.50	314.50	314.50	272.00		
2	392.00	556.50	278.00	185.20	232.00	118.00	232.00	1366.00	147.50	287.00	307.50	266.00		
3	384.00	547.50	275.00	246.00	314.50	127.60	266.00	2109.00	140.00	211.20	284.00	254.40		
4	460.00	543.00	349.50	311.00	314.50	122.80	300.50	1985.00	147.50	275.00	300.50	240.40		
5	384.00	428.00	400.00	293.50	284.00	150.00	412.00	1571.00	157.50	293.50	260.00	257.20		
6	376.00	297.00	420.00	297.00	260.00	208.60	368.00	1264.00	152.50	263.00	321.50	269.00		
7	428.00	221.60	332.00	297.00	229.40	257.20	360.00	1103.00	155.00	281.00	314.50	269.00		
8	380.00	182.60	328.50	281.00	208.60	281.00	525.00	993.00	137.50	311.00	342.50	263.00		
9	396.00	200.80	275.00	290.00	195.60	318.00	565.50	810.00	152.50	300.50	307.50	275.00		
10	404.00	219.00	263.00	260.00	185.20	300.50	484.50	665.00	140.00	356.50	269.00	272.00		
11	364.00	266.00	263.00	211.20	185.20	272.00	436.00	655.50	175.00	328.50	284.00	278.00		
12	404.00	416.00	278.00	208.60	162.50	321.50	476.00	534.00	182.60	287.00	293.50	290.00		
13	380.00	750.00	269.00	198.20	187.80	493.50	420.00	452.00	165.00	251.60	297.00	297.00		
14	368.00	815.00	297.00	193.00	211.20	805.00	476.00	460.00	190.40	257.20	297.00	269.00		
15	412.00	993.00	318.00	206.00	216.40	800.00	444.00	444.00	200.80	290.00	287.00	293.50		
16	349.50	1070.00	304.00	216.40	240.40	680.00	448.00	318.00	190.40	278.00	281.00	257.20		
17	356.50	900.00	275.00	229.40	246.00	570.00	384.00	272.00	216.40	304.00	260.00	254.40		
18	396.00	775.00	266.00	206.00	213.80	516.00	372.00	251.60	232.00	328.50	290.00	257.20		
19	353.00	651.00	232.00	203.40	193.00	480.00	325.00	229.40	260.00	300.50	266.00	269.00		
20	356.50	472.00	251.60	248.80	172.50	448.00	275.00	211.20	257.20	269.00	300.50	278.00		
21	376.00	335.50	281.00	339.00	155.00	444.00	251.60	200.80	240.40	281.00	311.00	300.50		
22	321.50	284.00	287.00	335.50	152.50	468.00	237.60	190.40	304.00	307.50	318.00	300.50		
23	339.00	254.40	266.00	307.50	155.00	420.00	260.00	165.00	257.20	307.50	297.00	290.00		
24	448.00	213.80	234.80	275.00	142.50	372.00	260.00	160.00	307.50	328.50	275.00	281.00		
25	412.00	195.60	200.80	243.20	165.00	307.50	328.50	157.50	318.00	335.50	287.00	314.50		
26	432.00	198.20	193.00	237.60	160.00	281.00	484.50	137.50	339.00	332.00	266.00	275.00		
27	412.00	175.00	182.60	260.00	125.20	272.00	735.00	145.00	321.50	284.00	290.00	300.50		
28	400.00	200.80	177.50	300.50	142.50	272.00	1550.00	150.00	293.50	275.00	281.00	269.00		
29	353.00	195.60	175.00	297.00	135.00	290.00	1665.00	157.50	278.00	254.40		278.00		
30	424.00	248.80	170.00	304.00	152.50	275.00	1530.50	152.50	246.00	307.50		293.50		
31		251.60		266.00	145.00		1372.00		335.50	325.00		287.00		
Total	11633.00	13313.30	8129.30	7909.50	6117.60	10803.70	16490.20	18495.90	6792.90	9125.40	8202.50	8570.80	125584.10	CMSDAY
Mean	387.77	429.46	270.98	255.15	197.34	360.12	531.94	616.53	219.13	294.37	292.95	276.48	344.07	CMS
Max	460.00	1070.00	420.00	339.00	314.50	805.00	1665.00	2109.00	339.00	356.50	342.50	314.50	2109.00	CMS
Min	321.50	175.00	170.00	162.50	125.20	118.00	232.00	137.50	137.50	211.20	260.00	240.40	118.00	CMS
Runoff	1005.09	1150.27	702.37	683.38	528.56	933.44	1424.75	1598.05	586.91	788.43	708.70	740.52	10850.47	MCM

Momentary Peak 2153.00 CMS. at 38.38 m. (MSL.) at 15.00 Hours , on Nov 3, 2008

Runoff Yield 7.60 Liters/Second/Square KM. Momentary Peak Yield 47.53 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1979 - 1982 , 1989 to date
Rated by Float	-
Rated by Current Meter	1979 - 1982 , 1989 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the local weir about 300 meters downstream from the gage site. Stage-discharge relation defined by 16 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

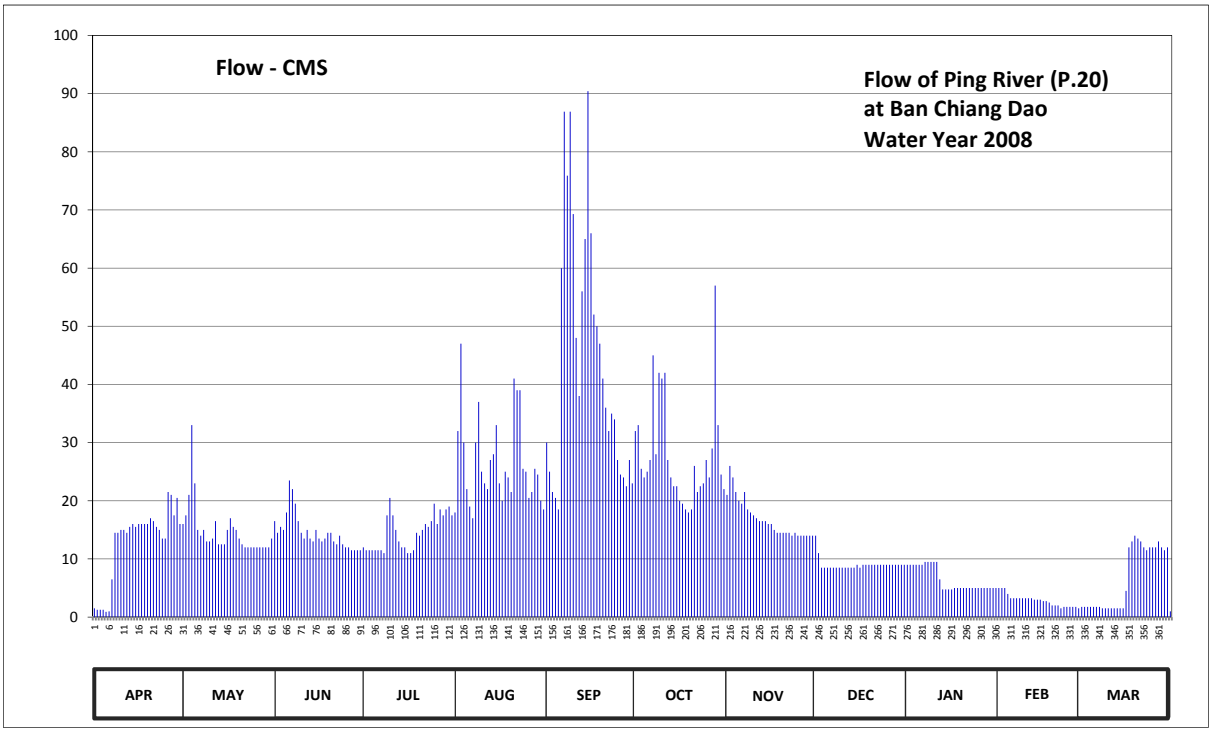
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	380.02	380.40	380.41	380.32	380.44	380.64	380.66	380.50	380.36	380.26	380.16	380.03	
2	380.01	380.43	380.37	380.31	380.66	380.58	380.67	380.60	380.30	380.26	380.16	380.03	
3	380.01	380.50	380.39	380.31	380.81	380.51	380.59	380.56	380.25	380.26	380.16	380.03	
4	380.01	380.67	380.38	380.31	380.64	380.49	380.56	380.51	380.25	380.26	380.12	380.03	
5	379.99	380.54	380.44	380.31	380.52	380.45	380.58	380.48	380.25	380.26	380.09	380.03	
6	380.00	380.38	380.55	380.31	380.46	380.94	380.61	380.47	380.25	380.26	380.09	380.03	
7	380.21	380.36	380.52	380.31	380.42	381.19	380.79	380.51	380.25	380.27	380.09	380.03	
8	380.37	380.38	380.47	380.30	380.64	381.09	380.62	380.45	380.25	380.27	380.09	380.02	
9	380.37	380.34	380.41	380.43	380.71	381.19	380.76	380.44	380.25	380.27	380.09	380.02	
10	380.38	380.34	380.37	380.49	380.58	381.03	380.75	380.43	380.25	380.27	380.09	380.02	
11	380.38	380.35	380.35	380.43	380.54	380.82	380.76	380.42	380.25	380.27	380.09	380.02	
12	380.37	380.41	380.38	380.38	380.52	380.72	380.61	380.41	380.25	380.21	380.09	380.02	
13	380.39	380.33	380.35	380.34	380.61	380.90	380.56	380.41	380.25	380.15	380.08	380.02	
14	380.40	380.33	380.34	380.32	380.62	380.99	380.53	380.41	380.25	380.15	380.08	380.02	
15	380.39	380.33	380.38	380.32	380.67	381.22	380.53	380.40	380.26	380.15	380.08	380.02	
16	380.40	380.38	380.35	380.30	380.54	381.00	380.48	380.40	380.25	380.15	380.07	380.14	
17	380.40	380.42	380.34	380.30	380.48	380.86	380.47	380.38	380.26	380.16	380.07	380.32	
18	380.40	380.39	380.35	380.31	380.58	380.84	380.45	380.37	380.26	380.16	380.06	380.34	
19	380.40	380.38	380.37	380.37	380.56	380.81	380.44	380.37	380.26	380.16	380.04	380.36	
20	380.42	380.35	380.37	380.36	380.51	380.75	380.45	380.37	380.26	380.16	380.04	380.35	
21	380.41	380.33	380.34	380.38	380.75	380.70	380.60	380.37	380.26	380.16	380.04	380.34	
22	380.39	380.32	380.33	380.40	380.73	380.66	380.51	380.37	380.26	380.16	380.02	380.32	
23	380.38	380.32	380.36	380.39	380.73	380.69	380.53	380.36	380.26	380.16	380.03	380.31	
24	380.35	380.32	380.33	380.41	380.59	380.68	380.54	380.37	380.26	380.16	380.03	380.32	
25	380.35	380.32	380.32	380.47	380.58	380.61	380.61	380.36	380.26	380.16	380.03	380.32	
26	380.51	380.32	380.32	380.40	380.49	380.57	380.56	380.36	380.26	380.16	380.03	380.32	
27	380.50	380.32	380.31	380.45	380.51	380.56	380.63	380.36	380.26	380.16	380.03	380.34	
28	380.43	380.32	380.31	380.43	380.59	380.53	380.91	380.36	380.26	380.16	380.02	380.32	
29	380.49	380.32	380.31	380.45	380.57	380.61	380.67	380.36	380.26	380.16		380.31	
30	380.40	380.32	380.31	380.46	380.48	380.54	380.57	380.36	380.26	380.16		380.32	
31		380.35		380.43	380.45		380.52		380.26	380.16		380.00	
Mean	380.32	380.37	380.37	380.37	380.58	380.77	380.60	380.42	380.26	380.20	380.07	380.16	
Max	380.51	380.67	380.55	380.49	380.81	381.22	380.91	380.60	380.36	380.27	380.16	380.36	381.22
Min	379.99	380.32	380.31	380.30	380.42	380.45	380.44	380.36	380.25	380.15	380.02	380.00	379.99

Annual Max Momentary Gage Height 381.55 m. (MSL.) , at 09.00 Hours , on Sep 15, 2008

Zero Gage at Bottom Elevation 379.90 m. (MSL.) , River Bed 379.06 m. (MSL.)

Left Bank Elevation 385.59 m. (MSL.) ,

Right Bank Elevation 386.69 m. (MSL.) , Drainage Are 1,345 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.50	16.00	16.50	12.00	18.00	30.00	32.00	21.00	14.00	9.00	5.00	1.75		
2	1.25	17.50	14.50	11.50	32.00	25.00	33.00	26.00	11.00	9.00	5.00	1.75		
3	1.25	21.00	15.50	11.50	47.00	21.50	25.50	24.00	8.50	9.00	5.00	1.75		
4	1.25	33.00	15.00	11.50	30.00	20.50	24.00	21.50	8.50	9.00	4.00	1.75		
5	0.90	23.00	18.00	11.50	22.00	18.50	25.00	20.00	8.50	9.00	3.25	1.75		
6	1.00	15.00	23.50	11.50	19.00	60.00	27.00	19.50	8.50	9.00	3.25	1.75		
7	6.50	14.00	22.00	11.50	17.00	86.90	45.00	21.50	8.50	9.50	3.25	1.75		
8	14.50	15.00	19.50	11.00	30.00	75.90	28.00	18.50	8.50	9.50	3.25	1.50		
9	14.50	13.00	16.50	17.50	37.00	86.90	42.00	18.00	8.50	9.50	3.25	1.50		
10	15.00	13.00	14.50	20.50	25.00	69.30	41.00	17.50	8.50	9.50	3.25	1.50		
11	15.00	13.50	13.50	17.50	23.00	48.00	42.00	17.00	8.50	9.50	3.25	1.50		
12	14.50	16.50	15.00	15.00	22.00	38.00	27.00	16.50	8.50	6.50	3.25	1.50		
13	15.50	12.50	13.50	13.00	27.00	56.00	24.00	16.50	8.50	4.75	3.00	1.50		
14	16.00	12.50	13.00	12.00	28.00	65.00	22.50	16.50	8.50	4.75	3.00	1.50		
15	15.50	12.50	15.00	12.00	33.00	90.40	22.50	16.00	9.00	4.75	3.00	1.50		
16	16.00	15.00	13.50	11.00	23.00	66.00	20.00	16.00	8.50	4.75	2.75	4.50		
17	16.00	17.00	13.00	11.00	20.00	52.00	19.50	15.00	9.00	5.00	2.75	12.00		
18	16.00	15.50	13.50	11.50	25.00	50.00	18.50	14.50	9.00	5.00	2.50	13.00		
19	16.00	15.00	14.50	14.50	24.00	47.00	18.00	14.50	9.00	5.00	2.00	14.00		
20	17.00	13.50	14.50	14.00	21.50	41.00	18.50	14.50	9.00	5.00	2.00	13.50		
21	16.50	12.50	13.00	15.00	41.00	36.00	26.00	14.50	9.00	5.00	2.00	13.00		
22	15.50	12.00	12.50	16.00	39.00	32.00	21.50	14.50	9.00	5.00	1.50	12.00		
23	15.00	12.00	14.00	15.50	39.00	35.00	22.50	14.00	9.00	5.00	1.75	11.50		
24	13.50	12.00	12.50	16.50	25.50	34.00	23.00	14.50	9.00	5.00	1.75	12.00		
25	13.50	12.00	12.00	19.50	25.00	27.00	27.00	14.00	9.00	5.00	1.75	12.00		
26	21.50	12.00	12.00	16.00	20.50	24.50	24.00	14.00	9.00	5.00	1.75	12.00		
27	21.00	12.00	11.50	18.50	21.50	24.00	29.00	14.00	9.00	5.00	1.75	13.00		
28	17.50	12.00	11.50	17.50	25.50	22.50	57.00	14.00	9.00	5.00	1.50	12.00		
29	20.50	12.00	11.50	18.50	24.50	27.00	33.00	14.00	9.00	5.00		11.50		
30	16.00	12.00	11.50	19.00	20.00	23.00	24.50	14.00	9.00	5.00		12.00		
31		13.50		17.50	18.50		22.00		9.00	5.00		1.00		
Total	385.65	458.00	436.50	451.00	823.50	1332.90	864.50	506.00	279.50	202.00	79.75	203.25	6022.55	CMSDAY
Mean	12.85	14.77	14.55	14.55	26.56	44.43	27.89	16.87	9.02	6.52	2.85	6.56	16.50	CMS
Max	21.50	33.00	23.50	20.50	47.00	90.40	57.00	26.00	14.00	9.50	5.00	14.00	90.40	CMS
Min	0.90	12.00	11.50	11.00	17.00	18.50	18.00	14.00	8.50	4.75	1.50	1.00	0.90	CMS
Runoff	33.32	39.57	37.71	38.97	71.15	115.16	74.69	43.72	24.15	17.45	6.89	17.56	520.35	MCM

Momentary Peak 133.00 CMS. at 381.55 m. (MSL.) at 09.00 Hours , on Sep 15, 2008

Runoff Yield 12.27 Liters/Second/Square KM. Momentary Peak Yield 98.88 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +323.816 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1954 to date
Rating Operation	
Period of Rating	1954 - 1960 , 1977 to date
Rated by Float	-
Rated by Current Meter	1954 - 1960 , 1977 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

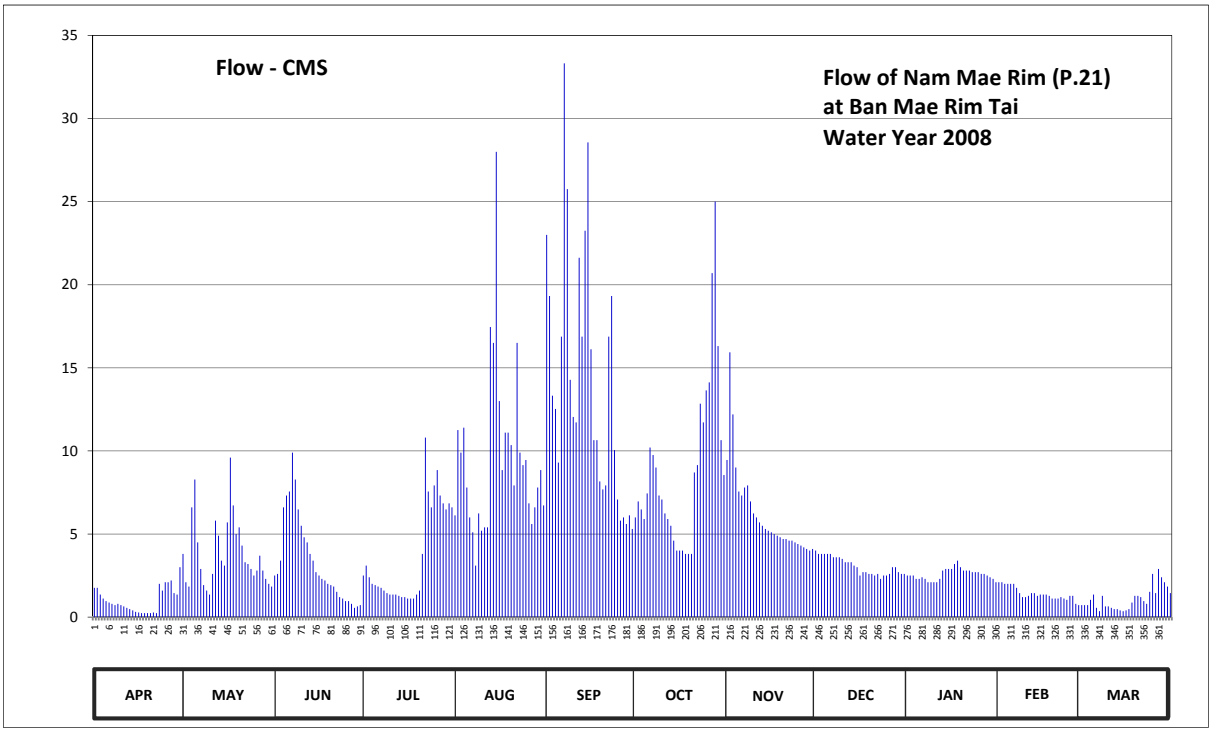
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	320.57	320.78	320.65	320.65	321.01	322.00	321.00	321.27	320.80	320.65	320.61	320.44	
2	320.57	320.61	320.66	320.71	321.39	321.84	321.08	321.67	320.78	320.65	320.61	320.44	
3	320.52	320.58	320.74	320.64	321.30	321.52	321.04	321.45	320.78	320.65	320.60	320.44	
4	320.49	321.05	321.05	320.60	321.40	321.47	320.99	321.24	320.78	320.63	320.60	320.48	
5	320.47	321.19	321.11	320.59	321.15	321.26	321.12	321.13	320.78	320.63	320.60	320.52	
6	320.46	320.85	321.13	320.58	321.00	321.72	321.32	321.11	320.78	320.64	320.60	320.42	
7	320.45	320.69	321.30	320.57	320.91	322.39	321.29	321.15	320.76	320.63	320.57	320.39	
8	320.44	320.59	321.19	320.55	320.71	322.11	321.24	321.16	320.76	320.61	320.53	320.51	
9	320.45	320.55	321.04	320.53	321.02	321.58	321.11	321.08	320.76	320.61	320.50	320.43	
10	320.44	320.52	320.95	320.52	320.92	321.44	321.09	321.02	320.75	320.61	320.50	320.43	
11	320.43	320.66	320.88	320.52	320.94	321.42	321.02	321.00	320.73	320.61	320.51	320.42	
12	320.42	320.98	320.85	320.52	320.94	321.94	320.99	320.97	320.73	320.63	320.53	320.41	
13	320.41	320.89	320.78	320.51	321.75	321.72	320.95	320.95	320.73	320.68	320.53	320.41	
14	320.40	320.74	320.74	320.50	321.70	322.01	320.86	320.93	320.71	320.69	320.51	320.40	
15	320.38	320.71	320.67	320.50	322.20	322.22	320.80	320.92	320.70	320.69	320.52	320.39	
16	320.37	320.97	320.65	320.49	321.50	321.68	320.80	320.91	320.65	320.69	320.52	320.40	
17	320.36	321.28	320.63	320.49	321.23	321.35	320.80	320.90	320.67	320.72	320.52	320.41	
18	320.36	321.06	320.62	320.49	321.38	321.35	320.78	320.89	320.67	320.74	320.51	320.46	
19	320.36	320.90	320.60	320.52	321.38	321.18	320.78	320.88	320.66	320.70	320.49	320.51	
20	320.36	320.94	320.59	320.55	321.33	321.14	320.78	320.87	320.66	320.68	320.49	320.51	
21	320.37	320.83	320.58	320.78	321.16	321.16	321.22	320.87	320.65	320.68	320.49	320.50	
22	320.36	320.73	320.54	321.36	321.70	321.72	321.25	320.86	320.66	320.68	320.50	320.47	
23	320.60	320.72	320.50	321.13	321.30	321.84	321.49	320.86	320.63	320.67	320.49	320.45	
24	320.55	320.69	320.49	321.05	321.25	321.31	321.42	320.85	320.65	320.67	320.48	320.54	
25	320.61	320.65	320.47	321.16	321.27	321.09	321.54	320.84	320.65	320.67	320.51	320.66	
26	320.61	320.68	320.47	321.23	321.07	320.98	321.57	320.83	320.66	320.66	320.51	320.53	
27	320.62	320.77	320.45	321.11	320.96	321.00	321.90	320.82	320.70	320.66	320.45	320.69	
28	320.53	320.68	320.42	321.07	321.05	320.96	322.08	320.81	320.70	320.65	320.44	320.64	
29	320.52	320.63	320.43	321.04	321.15	321.01	321.69	320.80	320.67	320.64		320.61	
30	320.70	320.60	320.44	321.07	321.23	320.93	321.35	320.81	320.66	320.63		320.58	
31		320.58		321.05	321.06		321.21		320.66	320.61		320.53	
Mean	320.47	320.78	320.72	320.74	321.24	321.51	321.18	320.99	320.71	320.66	320.53	320.48	
Max	320.70	321.28	321.30	321.36	322.20	322.39	322.08	321.67	320.80	320.74	320.61	320.69	322.39
Min	320.36	320.52	320.42	320.49	320.71	320.93	320.78	320.80	320.63	320.61	320.44	320.39	320.36

Annual Max Momentary Gage Height 322.71 m. (MSL.) , at 15.00 Hours , on Sep 7, 2008

Zero Gage at Bottom Elevation 319.70 m. (MSL.) , River Bed 319.90 m. (MSL.)

Left Bank Elevation 325.18 m. (MSL.) ,

Right Bank Elevation 325.16 m. (MSL.) , Drainage Are 452 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.76	3.80	2.50	2.50	6.12	23.00	6.00	9.45	4.00	2.50	2.10	0.72		
2	1.76	2.10	2.60	3.10	11.25	19.32	6.96	15.93	3.80	2.50	2.10	0.72		
3	1.36	1.84	3.40	2.40	9.90	13.32	6.48	12.20	3.80	2.50	2.00	0.72		
4	1.12	6.60	6.60	2.00	11.40	12.52	5.90	9.00	3.80	2.30	2.00	1.04		
5	0.96	8.28	7.32	1.92	7.80	9.30	7.44	7.56	3.80	2.30	2.00	1.36		
6	0.88	4.50	7.56	1.84	6.00	16.88	10.20	7.32	3.80	2.40	2.00	0.56		
7	0.80	2.90	9.90	1.76	5.10	33.32	9.75	7.80	3.60	2.30	1.76	0.36		
8	0.72	1.92	8.28	1.60	3.10	25.75	9.00	7.92	3.60	2.10	1.44	1.28		
9	0.80	1.60	6.48	1.44	6.24	14.28	7.32	6.96	3.60	2.10	1.20	0.64		
10	0.72	1.36	5.50	1.36	5.20	12.04	7.08	6.24	3.50	2.10	1.20	0.64		
11	0.64	2.60	4.80	1.36	5.40	11.72	6.24	6.00	3.30	2.10	1.28	0.56		
12	0.56	5.80	4.50	1.36	5.40	21.62	5.90	5.70	3.30	2.30	1.44	0.48		
13	0.48	4.90	3.80	1.28	17.45	16.88	5.50	5.50	3.30	2.80	1.44	0.48		
14	0.40	3.40	3.40	1.20	16.50	23.25	4.60	5.30	3.10	2.90	1.28	0.40		
15	0.32	3.10	2.70	1.20	28.00	28.56	4.00	5.20	3.00	2.90	1.36	0.36		
16	0.28	5.70	2.50	1.12	13.00	16.12	4.00	5.10	2.50	2.90	1.36	0.40		
17	0.24	9.60	2.30	1.12	8.85	10.65	4.00	5.00	2.70	3.20	1.36	0.48		
18	0.24	6.72	2.20	1.12	11.10	10.65	3.80	4.90	2.70	3.40	1.28	0.88		
19	0.24	5.00	2.00	1.36	11.10	8.16	3.80	4.80	2.60	3.00	1.12	1.28		
20	0.24	5.40	1.92	1.60	10.35	7.68	3.80	4.70	2.60	2.80	1.12	1.28		
21	0.28	4.30	1.84	3.80	7.92	7.92	8.70	4.70	2.50	2.80	1.12	1.20		
22	0.24	3.30	1.52	10.80	16.50	16.88	9.15	4.60	2.60	2.80	1.20	0.96		
23	2.00	3.20	1.20	7.56	9.90	19.32	12.84	4.60	2.30	2.70	1.12	0.80		
24	1.60	2.90	1.12	6.60	9.15	10.05	11.72	4.50	2.50	2.70	1.04	1.52		
25	2.10	2.50	0.96	7.92	9.45	7.08	13.64	4.40	2.50	2.70	1.28	2.60		
26	2.10	2.80	0.96	8.85	6.84	5.80	14.12	4.30	2.60	2.60	1.28	1.44		
27	2.20	3.70	0.80	7.32	5.60	6.00	20.70	4.20	3.00	2.60	0.80	2.90		
28	1.44	2.80	0.56	6.84	6.60	5.60	25.00	4.10	3.00	2.50	0.72	2.40		
29	1.36	2.30	0.64	6.48	7.80	6.12	16.31	4.00	2.70	2.40		2.10		
30	3.00	2.00	0.72	6.84	8.85	5.30	10.65	4.10	2.60	2.30		1.84		
31		1.84		6.60	6.72		8.55		2.60	2.10		1.44		
Total	30.84	118.76	100.58	112.25	294.59	425.09	273.15	186.08	95.30	79.60	39.40	33.84	1789.48	CMSDAY
Mean	1.03	3.83	3.35	3.62	9.50	14.17	8.81	6.20	3.07	2.57	1.41	1.09	4.90	CMS
Max	3.00	9.60	9.90	10.80	28.00	33.32	25.00	15.93	4.00	3.40	2.10	2.90	33.32	CMS
Min	0.24	1.36	0.56	1.12	3.10	5.30	3.80	4.00	2.30	2.10	0.72	0.36	0.24	CMS
Runoff	2.66	10.26	8.69	9.70	25.45	36.73	23.60	16.08	8.23	6.88	3.40	2.92	154.61	MCM

Momentary Peak 43.63 CMS. at 322.71 m. (MSL.) at 15.00 Hours , on Sep 7, 2008

Runoff Yield 10.85 Liters/Second/Square KM. Momentary Peak Yield 96.53 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

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

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

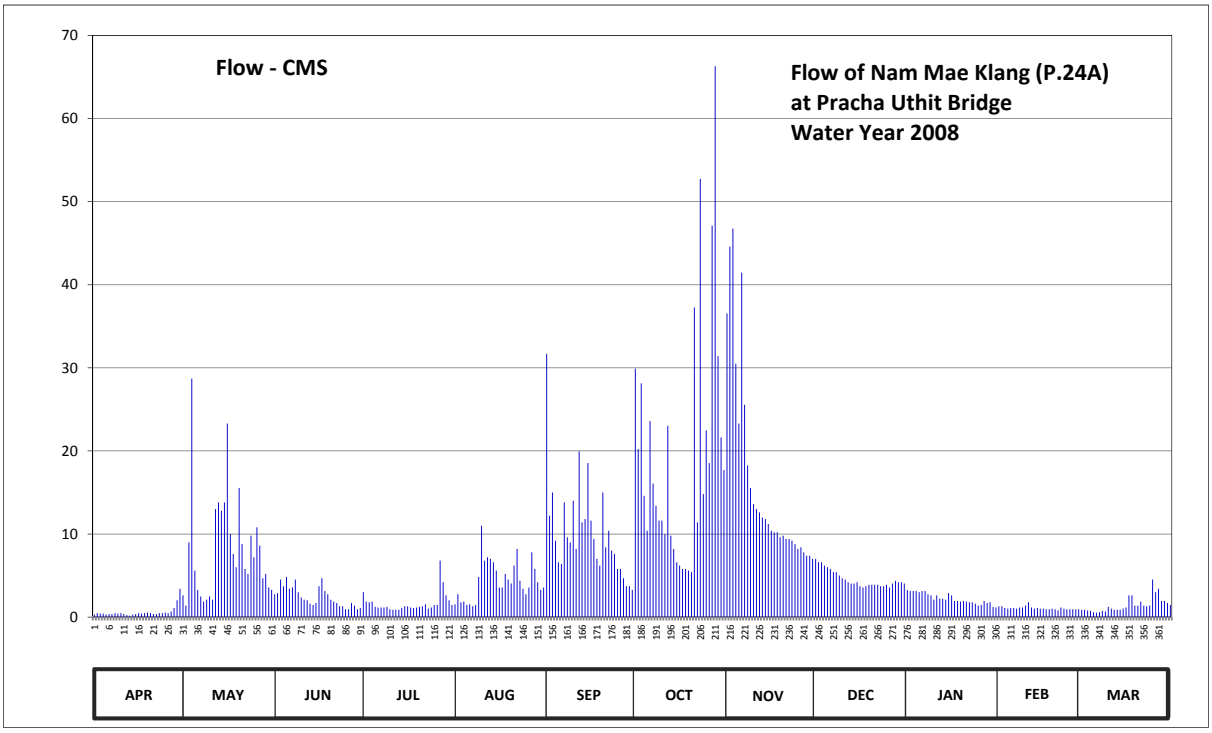
Location : on left bank at Pracha Uthit Bridge.

	Ban Pracha Uthit Bridge	**Amphoe** Chom Thong	**Changwat** Chiang Mai
Drainge 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	5-time daily readings at 06.00,09.00,12.00,15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1973 to date		
Rating Operation			
Period of Rating	1973 to date		
Rated by Float	-		
Rated by Current Meter	1973 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	275.65	275.94	275.95	275.97	275.83	277.19	277.13	277.33	276.20	275.99	275.80	275.74	
2	275.68	275.81	275.96	275.87	275.95	276.46	276.79	277.56	276.18	275.98	275.80	275.74	
3	275.67	276.30	276.07	275.86	275.86	276.60	277.07	277.62	276.18	275.98	275.77	275.73	
4	275.67	277.09	276.02	275.87	275.87	276.31	276.58	277.15	276.16	275.98	275.76	275.72	
5	275.65	276.13	276.09	275.79	275.82	276.18	276.37	276.90	276.15	275.97	275.77	275.70	
6	275.66	275.99	276.00	275.78	275.83	276.17	276.91	277.47	276.14	275.98	275.77	275.69	
7	275.66	275.93	276.01	275.78	275.80	276.54	276.64	276.98	276.12	275.98	275.76	275.70	
8	275.68	275.87	276.07	275.78	275.82	276.33	276.52	276.72	276.12	275.95	275.78	275.72	
9	275.67	275.90	275.97	275.79	276.09	276.30	276.43	276.62	276.10	275.94	275.78	275.71	
10	275.68	275.93	275.92	275.75	276.40	276.55	276.43	276.53	276.08	275.90	275.81	275.79	
11	275.66	275.90	275.90	275.74	276.19	276.26	276.35	276.50	276.07	275.94	275.86	275.76	
12	275.64	276.50	275.89	275.74	276.21	276.78	276.89	276.48	276.05	275.91	275.78	275.74	
13	275.63	276.54	275.84	275.74	276.20	276.42	276.34	276.45	276.04	275.91	275.76	275.74	
14	275.65	276.49	275.82	275.77	276.18	276.44	276.26	276.44	276.04	275.90	275.77	275.74	
15	275.66	276.54	275.85	275.80	276.13	276.73	276.18	276.41	276.05	275.96	275.76	275.76	
16	275.68	276.90	276.02	275.80	276.01	276.43	276.16	276.37	276.02	275.94	275.76	275.78	
17	275.67	276.35	276.08	275.78	276.01	276.32	276.14	276.36	276.01	275.88	275.75	275.94	
18	275.68	276.23	275.98	275.77	276.11	276.20	276.14	276.36	276.02	275.88	275.75	275.94	
19	275.69	276.15	275.95	275.78	276.07	276.16	276.13	276.33	276.03	275.87	275.76	275.81	
20	275.68	276.62	275.90	275.79	276.04	276.60	276.12	276.34	276.03	275.88	275.75	275.81	
21	275.66	276.29	275.87	275.80	276.16	276.27	277.35	276.32	276.03	275.87	275.73	275.87	
22	275.66	276.14	275.85	275.83	276.26	276.37	276.42	276.32	276.03	275.86	275.78	275.81	
23	275.68	276.11	275.80	275.76	276.06	276.25	277.78	276.31	276.02	275.86	275.76	275.80	
24	275.68	276.34	275.80	275.78	276.00	276.23	276.59	276.29	276.02	275.84	275.75	275.81	
25	275.69	276.21	275.75	275.82	275.95	276.14	276.87	276.26	276.03	275.81	275.75	276.07	
26	275.68	276.39	275.75	275.82	276.01	276.14	276.73	276.27	276.01	275.82	275.75	275.97	
27	275.71	276.28	275.85	276.19	276.24	276.08	277.63	276.24	276.04	275.88	275.75	276.00	
28	275.77	276.08	275.81	276.05	276.14	276.02	278.12	276.22	276.06	275.85	275.75	275.88	
29	275.89	276.11	275.75	275.94	276.05	276.02	277.18	276.22	276.05	275.86		275.88	
30	276.00	276.01	275.77	275.89	275.99	275.99	276.84	276.20	276.05	275.79		275.85	
31		275.99		275.82	276.01		276.70		276.04	275.78		275.82	
Mean	275.69	276.23	275.91	275.83	276.04	276.35	276.70	276.59	276.07	275.90	275.77	275.81	
Max	276.00	277.09	276.09	276.19	276.40	277.19	278.12	277.62	276.20	275.99	275.86	276.07	278.12
Min	275.63	275.81	275.75	275.74	275.80	275.99	276.12	276.20	276.01	275.78	275.73	275.69	275.63

Annual Max Momentary Gage Height	278.28	m. (MSL.) ,	at 18.00 Hours , on Oct 27, 2008		
Zero Gage at Bottom Elevation	275.00	m. (MSL.) ,	River Bed	275.34	m. (MSL.)
Left Bank Elevation	280.09	m. (MSL.) ,			
Right Bank Elevation	280.07	m. (MSL.) ,	Drainage Are	452	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	2.62	2.75	3.01	1.54	31.70	29.90	36.55	7.00	3.27	1.30	0.88		
2	0.48	1.38	2.88	1.86	2.75	12.20	20.22	44.60	6.60	3.14	1.30	0.88		
3	0.42	9.00	4.52	1.78	1.78	15.00	28.13	46.74	6.60	3.14	1.09	0.81		
4	0.42	28.71	3.72	1.86	1.86	9.20	14.60	30.50	6.20	3.14	1.02	0.74		
5	0.30	5.60	4.84	1.23	1.46	6.60	10.40	23.30	6.00	3.01	1.09	0.60		
6	0.36	3.27	3.40	1.16	1.54	6.40	23.58	41.45	5.80	3.14	1.09	0.54		
7	0.36	2.49	3.56	1.16	1.30	13.80	16.08	25.54	5.40	3.14	1.02	0.60		
8	0.48	1.86	4.52	1.16	1.46	9.60	13.40	18.26	5.40	2.75	1.16	0.74		
9	0.42	2.10	3.01	1.23	4.84	9.00	11.60	15.54	5.00	2.62	1.16	0.67		
10	0.48	2.49	2.36	0.95	11.00	14.00	11.60	13.60	4.68	2.10	1.38	1.23		
11	0.36	2.10	2.10	0.88	6.80	8.20	10.00	13.00	4.52	2.62	1.78	1.02		
12	0.24	13.00	2.02	0.88	7.20	19.94	23.02	12.60	4.20	2.23	1.16	0.88		
13	0.18	13.80	1.62	0.88	7.00	11.40	9.80	12.00	4.04	2.23	1.02	0.88		
14	0.30	12.80	1.46	1.09	6.60	11.80	8.20	11.80	4.04	2.10	1.09	0.88		
15	0.36	13.80	1.70	1.30	5.60	18.54	6.60	11.20	4.20	2.88	1.02	1.02		
16	0.48	23.30	3.72	1.30	3.56	11.60	6.20	10.40	3.72	2.62	1.02	1.16		
17	0.42	10.00	4.68	1.16	3.56	9.40	5.80	10.20	3.56	1.94	0.95	2.62		
18	0.48	7.60	3.14	1.09	5.20	7.00	5.80	10.20	3.72	1.94	0.95	2.62		
19	0.54	6.00	2.75	1.16	4.52	6.20	5.60	9.60	3.88	1.86	1.02	1.38		
20	0.48	15.54	2.10	1.23	4.04	15.00	5.40	9.80	3.88	1.94	0.95	1.38		
21	0.36	8.80	1.86	1.30	6.20	8.40	37.25	9.40	3.88	1.86	0.81	1.86		
22	0.36	5.80	1.70	1.54	8.20	10.40	11.40	9.40	3.88	1.78	1.16	1.38		
23	0.48	5.20	1.30	1.02	4.36	8.00	52.74	9.20	3.72	1.78	1.02	1.30		
24	0.48	9.80	1.30	1.16	3.40	7.60	14.80	8.80	3.72	1.62	0.95	1.38		
25	0.54	7.20	0.95	1.46	2.75	5.80	22.46	8.20	3.88	1.38	0.95	4.52		
26	0.48	10.80	0.95	1.46	3.56	5.80	18.54	8.40	3.56	1.46	0.95	3.01		
27	0.67	8.60	1.70	6.80	7.80	4.68	47.11	7.80	4.04	1.94	0.95	3.40		
28	1.09	4.68	1.38	4.20	5.80	3.72	66.30	7.40	4.36	1.70	0.95	1.94		
29	2.02	5.20	0.95	2.62	4.20	3.72	31.40	7.40	4.20	1.78		1.94		
30	3.40	3.56	1.09	2.02	3.27	3.27	21.62	7.00	4.20	1.23		1.70		
31		3.27		1.46	3.56		17.70		4.04	1.16		1.46		
Total	17.74	250.37	74.03	51.41	136.71	307.97	607.25	489.88	141.92	69.50	30.31	45.42	2222.51	CMSDAY
Mean	0.59	8.08	2.47	1.66	4.41	10.27	19.59	16.33	4.58	2.24	1.08	1.47	6.09	CMS
Max	3.40	28.71	4.84	6.80	11.00	31.70	66.30	46.74	7.00	3.27	1.78	4.52	66.30	CMS
Min	0.18	1.38	0.95	0.88	1.30	3.27	5.40	7.00	3.56	1.16	0.81	0.54	0.18	CMS
Runoff	1.53	21.63	6.40	4.44	11.81	26.61	52.47	42.33	12.26	6.00	2.62	3.92	192.02	MCM

Momentary Peak 72.94 CMS. at 278.28 m. (MSL.) at 18.00 Hours , on Oct 27, 2008

Runoff Yield 13.47 Liters/Second/Square KM. Momentary Peak Yield 161.37 Liters/Second/Square KM.

WATER YEAR : 2008

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.

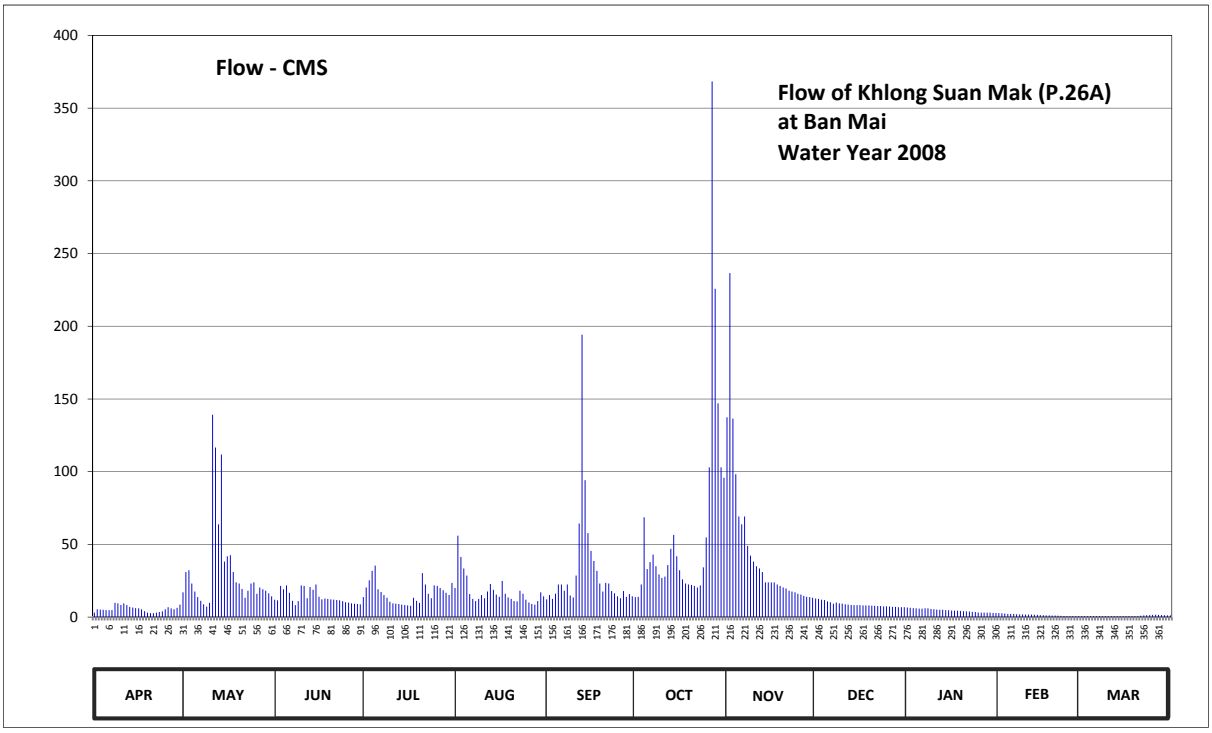
Ban Mai **Amphoe** Mueang **Changwat** Kamphaeng Phet

Drainge 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 mean of 5 readings
Period of Available Gage Records	1971 to date
Rating Operation	
Period of Rating	1972 - 1974 , 1980 to date
Rated by Float	-
Rated by Current Meter	1972 - 1974 , 1980 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by Tha Kradan weir about 3.5 kilometers above gage site. Stage-discharge relation defined by 13 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	84.27	84.90	84.72	84.79	85.00	84.73	84.79	86.96	84.75	84.48	84.25	84.07	
2	84.42	85.30	84.70	85.01	85.85	84.84	84.80	87.88	84.74	84.47	84.24	84.07	
3	84.41	85.33	85.04	85.15	85.56	84.74	85.07	86.95	84.72	84.46	84.23	84.07	
4	84.40	85.09	84.97	85.32	85.36	84.87	86.06	86.49	84.71	84.45	84.21	84.07	
5	84.39	84.92	85.05	85.41	85.24	85.07	85.35	86.07	84.67	84.44	84.21	84.07	
6	84.38	84.79	84.89	84.97	84.86	85.07	85.47	85.98	84.65	84.44	84.21	84.07	
7	84.39	84.69	84.69	84.91	84.74	84.94	85.60	86.07	84.61	84.45	84.20	84.07	
8	84.63	84.59	84.56	84.84	84.68	85.07	85.40	85.72	84.64	84.45	84.19	84.07	
9	84.62	84.51	84.68	84.77	84.74	84.83	85.26	85.58	84.62	84.43	84.19	84.07	
10	84.57	84.63	85.05	84.66	84.84	84.78	85.20	85.48	84.61	84.42	84.18	84.07	
11	84.62	86.98	85.04	84.62	84.76	85.24	85.22	85.40	84.59	84.41	84.17	84.07	
12	84.56	86.72	84.76	84.61	84.92	85.99	85.42	85.36	84.58	84.40	84.17	84.07	
13	84.50	85.98	85.02	84.60	85.08	87.52	85.68	85.30	84.57	84.40	84.16	84.07	
14	84.48	86.66	84.96	84.58	84.96	86.44	85.86	85.11	84.56	84.39	84.15	84.07	
15	84.46	85.48	85.07	84.57	84.85	85.88	85.57	85.11	84.56	84.38	84.14	84.07	
16	84.45	85.57	84.80	84.55	84.80	85.65	85.33	85.11	84.56	84.37	84.13	84.07	
17	84.42	85.59	84.73	84.54	85.14	85.49	85.17	85.11	84.55	84.36	84.12	84.07	
18	84.34	85.30	84.75	84.77	84.87	85.32	85.09	85.07	84.55	84.36	84.12	84.07	
19	84.27	85.11	84.74	84.69	84.78	85.09	85.07	85.04	84.55	84.35	84.11	84.07	
20	84.25	85.09	84.73	84.63	84.74	84.92	85.06	85.01	84.54	84.34	84.11	84.07	
21	84.25	84.98	84.72	85.28	84.68	85.10	85.04	84.99	84.54	84.33	84.10	84.10	
22	84.27	84.77	84.71	85.07	84.67	85.09	85.01	84.94	84.53	84.32	84.09	84.12	
23	84.30	84.94	84.70	84.87	84.94	84.93	85.05	84.92	84.53	84.31	84.08	84.13	
24	84.33	85.09	84.68	84.76	84.87	84.88	85.38	84.90	84.52	84.30	84.07	84.14	
25	84.42	85.11	84.65	85.05	84.72	84.81	85.83	84.87	84.52	84.28	84.06	84.15	
26	84.49	84.87	84.64	85.04	84.64	84.76	86.55	84.85	84.51	84.27	84.06	84.16	
27	84.45	85.01	84.62	85.00	84.60	84.93	88.91	84.82	84.50	84.27	84.06	84.15	
28	84.42	84.97	84.61	84.95	84.58	84.80	87.79	84.80	84.50	84.27	84.06	84.14	
29	84.47	84.94	84.60	84.89	84.68	84.86	87.06	84.79	84.49	84.27		84.13	
30	84.58	84.88	84.59	84.84	84.90	84.81	86.55	84.77	84.49	84.26		84.12	
31		84.81		85.10	84.81		86.46		84.49	84.26		84.12	
Mean	84.43	85.21	84.78	84.87	84.90	85.18	85.68	85.45	84.58	84.37	84.15	84.09	
Max	84.63	86.98	85.07	85.41	85.85	87.52	88.91	87.88	84.75	84.48	84.25	84.16	88.91
Min	84.25	84.51	84.56	84.54	84.58	84.73	84.79	84.77	84.49	84.26	84.06	84.07	84.06

Annual Max Momentary Gage Height	89.21	m. (MSL.) ,	at 06.00 Hours , on Oct 27, 2008		
Zero Gage at Bottom Elevation	84.11	m. (MSL.) ,	River Bed	82.27	m. (MSL.)
Left Bank Elevation	89.31	m. (MSL.) ,			
Right Bank Elevation	91.50	m. (MSL.) ,	Drainage Are	974	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.05	17.00	12.00	13.75	20.00	12.25	13.75	137.40	12.75	6.60	2.75	0.70		
2	5.40	31.00	11.50	20.35	56.00	15.20	14.00	236.60	12.50	6.40	2.60	0.70		
3	5.20	32.20	21.40	25.25	41.40	12.50	22.45	136.50	12.00	6.20	2.45	0.70		
4	5.00	23.15	19.10	31.80	33.40	16.10	68.60	98.20	11.75	6.00	2.15	0.70		
5	4.85	17.60	21.75	35.40	28.60	22.45	33.00	69.20	10.75	5.80	2.15	0.70		
6	4.70	13.75	16.70	19.10	15.80	22.45	37.80	63.80	10.25	5.80	2.15	0.70		
7	4.85	11.25	11.25	17.30	12.50	18.20	43.00	69.20	9.25	6.00	2.00	0.70		
8	9.75	8.80	8.20	15.20	11.00	22.45	35.00	49.00	10.00	6.00	1.90	0.70		
9	9.50	7.20	11.00	13.25	12.50	14.90	29.40	42.20	9.50	5.60	1.90	0.70		
10	8.40	9.75	21.75	10.50	15.20	13.50	27.00	38.20	9.25	5.40	1.80	0.70		
11	9.50	139.20	21.40	9.50	13.00	28.60	27.80	35.00	8.80	5.20	1.70	0.70		
12	8.20	116.60	13.00	9.25	17.60	64.40	35.80	33.40	8.60	5.00	1.70	0.70		
13	7.00	63.80	20.70	9.00	22.80	194.20	47.00	31.00	8.40	5.00	1.60	0.70		
14	6.60	111.80	18.80	8.60	18.80	94.20	56.60	23.85	8.20	4.85	1.50	0.70		
15	6.20	38.20	22.45	8.40	15.50	57.80	41.80	23.85	8.20	4.70	1.40	0.70		
16	6.00	41.80	14.00	8.00	14.00	45.50	32.20	23.85	8.20	4.55	1.30	0.70		
17	5.40	42.60	12.25	7.80	24.90	38.60	25.95	23.85	8.00	4.40	1.20	0.70		
18	4.10	31.00	12.75	13.25	16.10	31.80	23.15	22.45	8.00	4.40	1.20	0.70		
19	3.05	23.85	12.50	11.25	13.50	23.15	22.45	21.40	8.00	4.25	1.10	0.70		
20	2.75	23.15	12.25	9.75	12.50	17.60	22.10	20.35	7.80	4.10	1.10	0.70		
21	2.75	19.40	12.00	30.20	11.00	23.50	21.40	19.70	7.80	3.95	1.00	1.00		
22	3.05	13.25	11.75	22.45	10.75	23.15	20.35	18.20	7.60	3.80	0.90	1.20		
23	3.50	18.20	11.50	16.10	18.20	17.90	21.75	17.60	7.60	3.65	0.80	1.30		
24	3.95	23.15	11.00	13.00	16.10	16.40	34.20	17.00	7.40	3.50	0.70	1.40		
25	5.40	23.85	10.25	21.75	12.00	14.30	54.80	16.10	7.40	3.20	0.60	1.50		
26	6.80	16.10	10.00	21.40	10.00	13.00	103.00	15.50	7.20	3.05	0.60	1.60		
27	6.00	20.35	9.50	20.00	9.00	17.90	368.40	14.60	7.00	3.05	0.60	1.50		
28	5.40	19.10	9.25	18.50	8.60	14.00	225.80	14.00	7.00	3.05	0.60	1.40		
29	6.40	18.20	9.00	16.70	11.00	15.80	147.00	13.75	6.80	3.05		1.30		
30	8.60	16.40	8.80	15.20	17.00	14.30	103.00	13.25	6.80	2.90		1.20		
31		14.30		23.50	14.30		95.80		6.80	2.90		1.20		
Total	171.35	1006.00	417.80	515.50	553.05	936.10	1854.35	1359.00	269.60	142.35	41.45	28.60	7295.15	CMSDAY
Mean	5.71	32.45	13.93	16.63	17.84	31.20	59.82	45.30	8.70	4.59	1.48	0.92	19.99	CMS
Max	9.75	139.20	22.45	35.40	56.00	194.20	368.40	236.60	12.75	6.60	2.75	1.60	368.40	CMS
Min	2.75	7.20	8.20	7.80	8.60	12.25	13.75	13.25	6.80	2.90	0.60	0.70	0.60	CMS
Runoff	14.80	86.92	36.10	44.54	47.78	80.88	160.22	117.42	23.29	12.30	3.58	2.47	630.30	MCM

Momentary Peak 410.40 CMS. at 89.21 m. (MSL.) at 06.00 Hours , on Oct 27, 2008

Runoff Yield 20.51 Liters/Second/Square KM. Momentary Peak Yield 421.17 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +153.134 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 mean of 5 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1983 to date
Rated by Float	-
Rated by Current Meter	1983 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +147.20 m.(MSL.) , records are channel flow only.
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

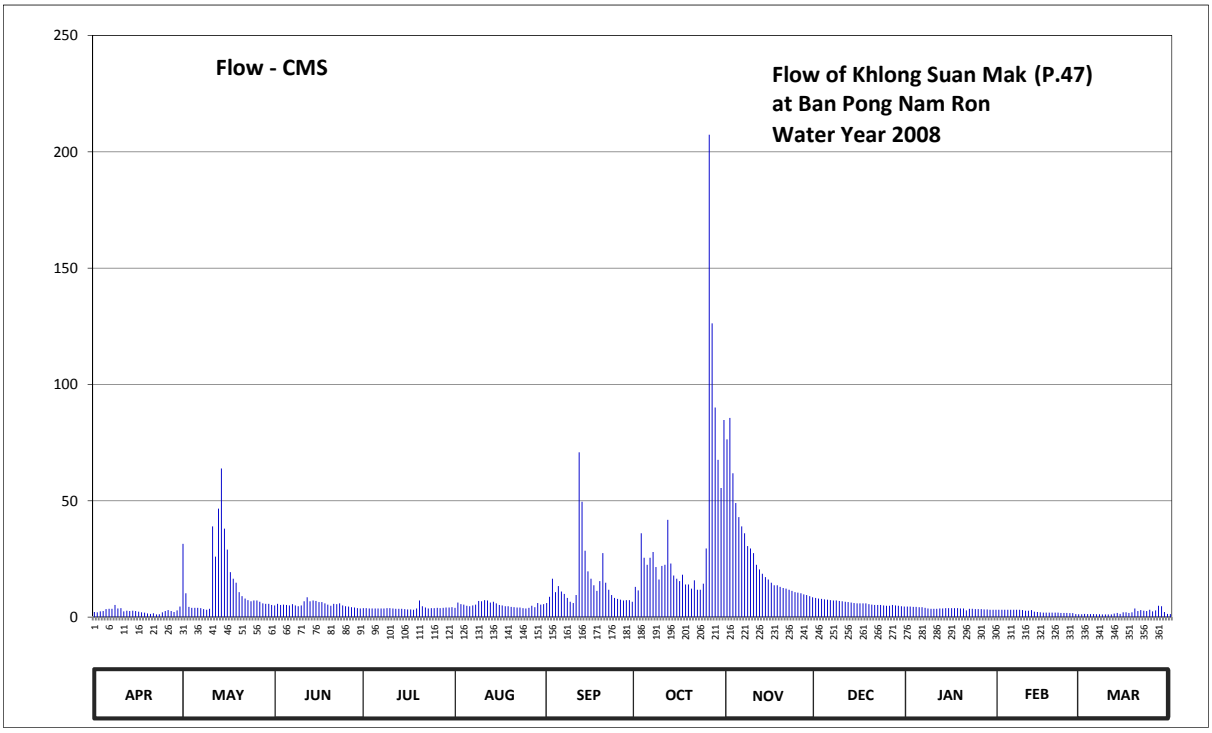
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.23	145.23	144.43	144.35	144.36	144.49	144.80	145.93	144.61	144.40	144.30	144.13	
2	144.22	144.69	144.47	144.35	144.50	144.63	144.74	146.04	144.60	144.40	144.30	144.15	
3	144.25	144.39	144.44	144.34	144.46	144.90	145.32	145.74	144.59	144.39	144.30	144.14	
4	144.26	144.36	144.45	144.34	144.45	144.71	145.11	145.55	144.58	144.39	144.30	144.14	
5	144.32	144.36	144.44	144.34	144.42	144.81	145.05	145.45	144.57	144.38	144.30	144.14	
6	144.33	144.36	144.43	144.34	144.41	144.72	145.11	145.38	144.56	144.38	144.30	144.13	
7	144.33	144.35	144.46	144.34	144.43	144.68	145.16	145.32	144.55	144.36	144.30	144.13	
8	144.44	144.32	144.43	144.34	144.45	144.61	145.03	145.21	144.55	144.34	144.30	144.12	
9	144.34	144.30	144.41	144.35	144.54	144.52	144.89	145.19	144.54	144.33	144.29	144.12	
10	144.35	144.33	144.43	144.35	144.53	144.49	145.04	145.15	144.53	144.33	144.27	144.12	
11	144.25	145.38	144.53	144.34	144.56	144.66	145.05	145.05	144.52	144.33	144.27	144.12	
12	144.27	145.12	144.62	144.33	144.55	145.86	145.43	145.01	144.51	144.34	144.29	144.16	
13	144.26	145.51	144.53	144.33	144.50	145.56	145.06	144.96	144.50	144.34	144.24	144.20	
14	144.27	145.77	144.55	144.33	144.52	145.17	144.94	144.92	144.49	144.35	144.23	144.15	
15	144.26	145.36	144.54	144.32	144.48	144.99	144.90	144.89	144.48	144.35	144.22	144.22	
16	144.24	145.18	144.51	144.31	144.44	144.90	144.87	144.85	144.48	144.35	144.21	144.22	
17	144.22	144.98	144.51	144.31	144.43	144.82	144.95	144.82	144.48	144.35	144.21	144.20	
18	144.21	144.90	144.48	144.30	144.41	144.73	144.83	144.82	144.48	144.35	144.21	144.22	
19	144.17	144.85	144.45	144.34	144.41	144.87	144.83	144.80	144.46	144.34	144.21	144.34	
20	144.15	144.71	144.42	144.55	144.39	145.15	144.77	144.78	144.45	144.34	144.21	144.26	
21	144.18	144.64	144.47	144.41	144.38	144.85	144.88	144.77	144.44	144.28	144.21	144.29	
22	144.12	144.60	144.46	144.37	144.37	144.75	144.75	144.75	144.44	144.33	144.20	144.27	
23	144.13	144.56	144.48	144.34	144.37	144.66	144.75	144.73	144.44	144.33	144.20	144.26	
24	144.22	144.53	144.43	144.35	144.35	144.61	144.84	144.71	144.43	144.32	144.20	144.30	
25	144.26	144.55	144.41	144.35	144.34	144.59	145.19	144.70	144.42	144.32	144.19	144.25	
26	144.29	144.55	144.40	144.36	144.36	144.57	147.02	144.69	144.42	144.32	144.19	144.28	
27	144.26	144.52	144.38	144.35	144.42	144.55	146.45	144.67	144.44	144.31	144.14	144.42	
28	144.23	144.48	144.37	144.36	144.38	144.56	146.09	144.66	144.43	144.31	144.13	144.41	
29	144.28	144.47	144.35	144.37	144.49	144.56	145.82	144.64	144.42	144.30		144.23	
30	144.40	144.47	144.34	144.37	144.45	144.52	145.65	144.62	144.41	144.30		144.15	
31		144.44		144.38	144.46		146.03		144.40	144.30		144.14	
Mean	144.26	144.72	144.45	144.35	144.44	144.78	145.20	145.03	144.49	144.34	144.24	144.21	
Max	144.44	145.77	144.62	144.55	144.56	145.86	147.02	146.04	144.61	144.40	144.30	144.42	147.02
Min	144.12	144.30	144.34	144.30	144.34	144.49	144.74	144.62	144.40	144.28	144.13	144.12	144.12

Annual Max Momentary Gage Height 148.27 m. (MSL.) , at 06.00 Hours , on Oct 26, 2008

Zero Gage at Bottom Elevation 143.77 m. (MSL.) , River Bed 143.68 m. (MSL.)

Left Bank Elevation 147.19 m. (MSL.) ,

Right Bank Elevation 149.50 m. (MSL.) , Drainage Are 529 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.21	31.50	5.03	3.83	3.96	6.08	13.00	76.40	8.25	4.50	3.15	1.24		
2	2.07	10.25	5.73	3.83	6.25	8.75	11.50	85.60	8.00	4.50	3.15	1.40		
3	2.48	4.37	5.20	3.69	5.55	16.50	36.00	61.80	7.83	4.37	3.15	1.32		
4	2.61	3.96	5.38	3.69	5.38	10.75	25.50	49.00	7.65	4.37	3.15	1.32		
5	3.42	3.96	5.20	3.69	4.85	13.35	22.50	43.00	7.48	4.23	3.15	1.32		
6	3.56	3.96	5.03	3.69	4.68	11.00	25.50	39.00	7.30	4.23	3.15	1.24		
7	3.56	3.83	5.55	3.69	5.03	10.00	28.00	36.00	7.13	3.96	3.15	1.24		
8	5.20	3.42	5.03	3.69	5.38	8.25	21.50	30.50	7.13	3.69	3.15	1.16		
9	3.69	3.15	4.68	3.83	6.95	6.60	16.15	29.50	6.95	3.56	3.02	1.16		
10	3.83	3.56	5.03	3.83	6.78	6.08	22.00	27.50	6.78	3.56	2.75	1.16		
11	2.48	39.00	6.78	3.69	7.30	9.50	22.50	22.50	6.60	3.56	2.75	1.16		
12	2.75	26.00	8.50	3.56	7.13	70.80	41.80	20.50	6.43	3.69	3.02	1.48		
13	2.61	46.60	6.78	3.56	6.25	49.60	23.00	18.60	6.25	3.69	2.34	1.80		
14	2.75	63.90	7.13	3.56	6.60	28.50	17.90	17.20	6.08	3.83	2.21	1.40		
15	2.61	38.00	6.95	3.42	5.90	19.65	16.50	16.15	5.90	3.83	2.07	2.07		
16	2.34	29.00	6.43	3.29	5.20	16.50	15.45	14.75	5.90	3.83	1.94	2.07		
17	2.07	19.30	6.43	3.29	5.03	13.70	18.25	13.70	5.90	3.83	1.94	1.80		
18	1.94	16.50	5.90	3.15	4.68	11.25	14.05	13.70	5.90	3.83	1.94	2.07		
19	1.56	14.75	5.38	3.69	4.68	15.45	14.05	13.00	5.55	3.69	1.94	3.69		
20	1.40	10.75	4.85	7.13	4.37	27.50	12.25	12.50	5.38	3.69	1.94	2.61		
21	1.64	9.00	5.73	4.68	4.23	14.75	15.80	12.25	5.20	2.88	1.94	3.02		
22	1.16	8.00	5.55	4.10	4.10	11.75	11.75	11.75	5.20	3.56	1.80	2.75		
23	1.24	7.30	5.90	3.69	4.10	9.50	11.75	11.25	5.20	3.56	1.80	2.61		
24	2.07	6.78	5.03	3.83	3.83	8.25	14.40	10.75	5.03	3.42	1.80	3.15		
25	2.61	7.13	4.68	3.83	3.69	7.83	29.50	10.50	4.85	3.42	1.72	2.48		
26	3.02	7.13	4.50	3.96	3.96	7.48	207.30	10.25	4.85	3.42	1.72	2.88		
27	2.61	6.60	4.23	3.83	4.85	7.13	126.25	9.75	5.20	3.29	1.32	4.85		
28	2.21	5.90	4.10	3.96	4.23	7.30	90.10	9.50	5.03	3.29	1.24	4.68		
29	2.88	5.73	3.83	4.10	6.08	7.30	67.60	9.00	4.85	3.15		2.21		
30	4.50	5.73	3.69	4.10	5.38	6.60	55.50	8.50	4.68	3.15		1.40		
31		5.20		4.23	5.55		84.70		4.50	3.15		1.32		
Total	79.08	450.26	164.23	120.11	161.95	447.70	1132.05	744.40	188.98	114.73	66.40	64.06	3733.95	CMSDAY
Mean	2.64	14.52	5.47	3.87	5.22	14.92	36.52	24.81	6.10	3.70	2.37	2.07	10.23	CMS
Max	5.20	63.90	8.50	7.13	7.30	70.80	207.30	85.60	8.25	4.50	3.15	4.85	207.30	CMS
Min	1.16	3.15	3.69	3.15	3.69	6.08	11.50	8.50	4.50	2.88	1.24	1.16	1.16	CMS
Runoff	6.83	38.90	14.19	10.38	13.99	38.68	97.81	64.32	16.33	9.91	5.74	5.53	322.61	MCM

Momentary Peak 456.80 CMS. at 148.27 m. (MSL.) at 06.00 Hours , on Oct 26, 2008

Runoff Yield 19.33 Liters/Second/Square KM. Momentary Peak Yield 863.03 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Float	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

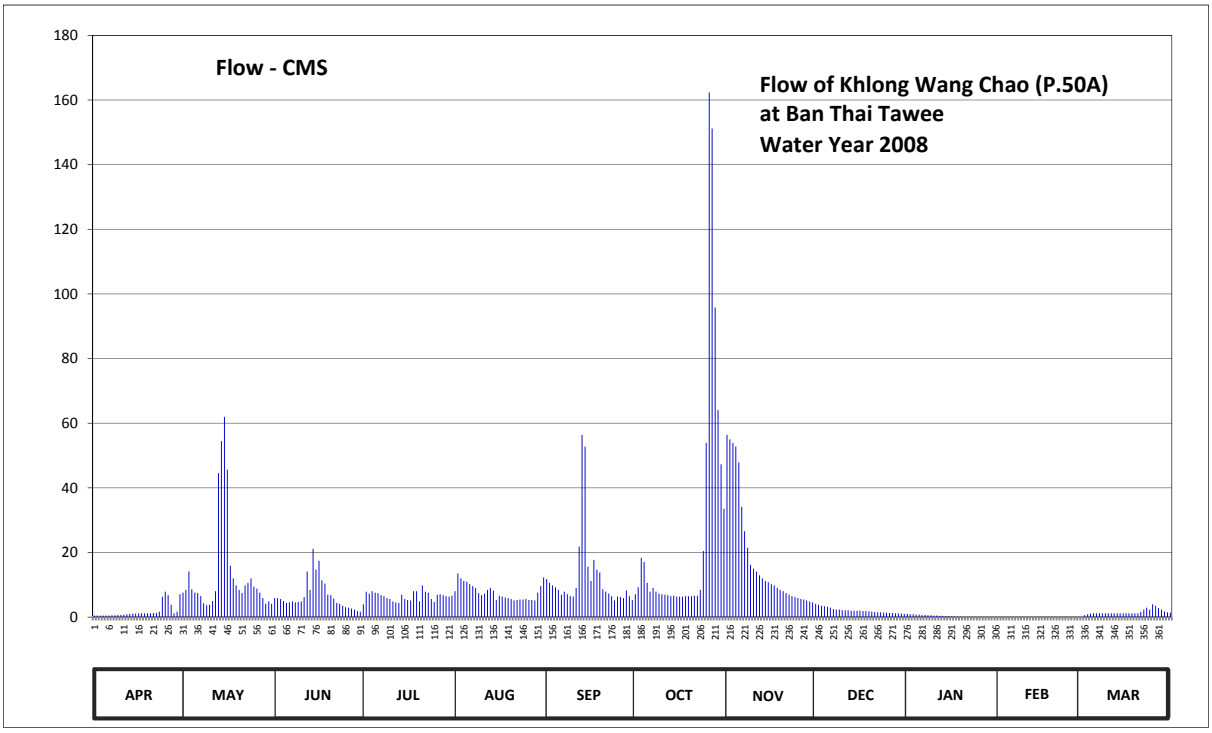
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	105.45	105.97	105.86	105.73	106.00	106.19	105.94	107.22	105.74	105.50	105.37	105.33	
2	105.45	106.02	105.86	105.99	106.25	106.13	106.06	107.20	105.72	105.49	105.37	105.46	
3	105.45	106.27	105.84	105.95	106.20	106.09	106.41	107.18	105.70	105.49	105.37	105.49	
4	105.45	106.03	105.80	106.00	106.16	106.06	106.37	107.16	105.69	105.48	105.36	105.51	
5	105.45	105.97	105.76	105.97	106.15	106.02	106.13	107.07	105.68	105.48	105.36	105.52	
6	105.45	105.96	105.77	105.96	106.11	105.93	105.99	106.82	105.66	105.47	105.36	105.52	
7	105.46	105.90	105.79	105.92	106.08	105.99	106.05	106.64	105.63	105.47	105.35	105.52	
8	105.46	105.75	105.77	105.90	106.05	105.94	105.99	106.50	105.62	105.46	105.35	105.52	
9	105.47	105.71	105.78	105.86	105.96	105.90	105.95	106.34	105.62	105.46	105.35	105.52	
10	105.47	105.72	105.79	105.84	105.92	105.89	105.94	106.30	105.61	105.45	105.34	105.52	
11	105.48	105.80	105.88	105.79	105.95	106.05	105.93	106.27	105.61	105.45	105.34	105.52	
12	105.49	106.00	106.27	105.77	106.02	106.51	105.92	106.23	105.61	105.44	105.34	105.52	
13	105.50	107.01	106.02	105.76	106.05	107.22	105.90	106.20	105.60	105.44	105.33	105.52	
14	105.51	107.19	106.49	105.93	106.01	107.16	105.91	106.16	105.60	105.43	105.33	105.52	
15	105.51	107.30	106.29	105.84	105.82	106.32	105.89	106.14	105.60	105.43	105.33	105.52	
16	105.52	107.03	106.38	105.82	105.91	106.16	105.89	106.11	105.60	105.42	105.33	105.52	
17	105.52	106.33	106.17	105.81	105.89	106.39	105.89	106.09	105.59	105.42	105.32	105.52	
18	105.52	106.20	106.12	106.00	105.87	106.29	105.90	106.05	105.59	105.41	105.32	105.52	
19	105.52	106.09	105.93	106.00	105.86	106.26	105.90	106.02	105.58	105.41	105.32	105.52	
20	105.52	106.02	105.92	105.79	105.84	106.03	105.90	106.00	105.57	105.40	105.31	105.52	
21	105.53	105.96	105.85	106.09	105.81	105.99	105.91	105.96	105.56	105.40	105.31	105.56	
22	105.53	106.09	105.76	105.99	105.82	105.95	105.91	105.93	105.55	105.40	105.31	105.62	
23	105.57	106.13	105.74	105.97	105.83	105.90	106.02	105.90	105.55	105.40	105.31	105.66	
24	105.89	106.20	105.70	105.84	105.83	105.81	106.47	105.88	105.54	105.39	105.30	105.62	
25	105.99	106.07	105.67	105.78	105.84	105.89	107.18	105.86	105.54	105.39	105.30	105.73	
26	105.92	106.04	105.66	105.93	105.82	105.88	108.31	105.84	105.53	105.39	105.30	105.70	
27	105.72	105.97	105.64	105.94	105.82	105.86	108.23	105.83	105.53	105.39	105.29	105.65	
28	105.52	105.86	105.62	105.92	105.81	106.01	107.72	105.81	105.52	105.38	105.29	105.62	
29	105.57	105.74	105.59	105.90	105.97	105.90	107.33	105.79	105.52	105.38		105.58	
30	105.94	105.79	105.57	105.89	106.08	105.82	107.06	105.77	105.51	105.38		105.55	
31		105.74		105.91	106.21		106.81		105.50	105.38		105.54	
Mean	105.56	106.12	105.88	105.90	105.97	106.12	106.35	106.28	105.60	105.43	105.33	105.55	
Max	105.99	107.30	106.49	106.09	106.25	107.22	108.31	107.22	105.74	105.50	105.37	105.73	108.31
Min	105.45	105.71	105.57	105.73	105.81	105.81	105.89	105.77	105.50	105.38	105.29	105.33	105.29

Annual Max Momentary Gage Height 108.36 m. (MSL.) , at 18.00 Hours , on Oct 26 , 2008

Zero Gage at Bottom Elevation 104.36 m. (MSL.) , River Bed 103.84 m. (MSL.)

Left Bank Elevation 109.82 m. (MSL.) ,

Right Bank Elevation 109.83 m. (MSL.) , Drainage Are 480 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.50	7.55	5.90	3.95	8.00	11.80	7.10	56.40	4.10	1.00	0.00	0.00		
2	0.50	8.40	5.90	7.85	13.50	10.60	9.20	55.00	3.80	0.90	0.00	0.60		
3	0.50	14.10	5.60	7.25	12.00	9.80	18.35	53.90	3.50	0.90	0.00	0.90		
4	0.50	8.60	5.00	8.00	11.20	9.20	17.10	52.80	3.35	0.80	0.00	1.10		
5	0.50	7.55	4.40	7.55	11.00	8.40	10.60	47.85	3.20	0.80	0.00	1.20		
6	0.50	7.40	4.55	7.40	10.20	6.95	7.85	34.10	2.90	0.70	0.00	1.20		
7	0.60	6.50	4.85	6.80	9.60	7.85	9.00	26.60	2.45	0.70	0.00	1.20		
8	0.60	4.25	4.55	6.50	9.00	7.10	7.85	21.50	2.30	0.60	0.00	1.20		
9	0.70	3.65	4.70	5.90	7.40	6.50	7.25	16.20	2.30	0.60	0.00	1.20		
10	0.70	3.80	4.85	5.60	6.80	6.35	7.10	15.00	2.15	0.50	0.00	1.20		
11	0.80	5.00	6.20	4.85	7.25	9.00	6.95	14.10	2.15	0.50	0.00	1.20		
12	0.90	8.00	14.10	4.55	8.40	21.85	6.80	12.90	2.15	0.40	0.00	1.20		
13	1.00	44.55	8.40	4.40	9.00	56.40	6.50	12.00	2.00	0.40	0.00	1.20		
14	1.10	54.45	21.15	6.95	8.20	52.80	6.65	11.20	2.00	0.30	0.00	1.20		
15	1.10	62.00	14.70	5.60	5.30	15.60	6.35	10.80	2.00	0.30	0.00	1.20		
16	1.20	45.65	17.40	5.30	6.65	11.20	6.35	10.20	2.00	0.20	0.00	1.20		
17	1.20	15.90	11.40	5.15	6.35	17.70	6.35	9.80	1.90	0.20	0.00	1.20		
18	1.20	12.00	10.40	8.00	6.05	14.70	6.50	9.00	1.90	0.10	0.00	1.20		
19	1.20	9.80	6.95	8.00	5.90	13.80	6.50	8.40	1.80	0.10	0.00	1.20		
20	1.20	8.40	6.80	4.85	5.60	8.60	6.50	8.00	1.70	0.00	0.00	1.20		
21	1.30	7.40	5.75	9.80	5.15	7.85	6.65	7.40	1.60	0.00	0.00	1.60		
22	1.30	9.80	4.40	7.85	5.30	7.25	6.65	6.95	1.50	0.00	0.00	2.30		
23	1.70	10.60	4.10	7.55	5.45	6.50	8.40	6.50	1.50	0.00	0.00	2.90		
24	6.35	12.00	3.50	5.60	5.45	5.15	20.45	6.20	1.40	0.00	0.00	2.30		
25	7.85	9.40	3.05	4.70	5.60	6.35	53.90	5.90	1.40	0.00	0.00	3.95		
26	6.80	8.80	2.90	6.95	5.30	6.20	162.40	5.60	1.30	0.00	0.00	3.50		
27	3.80	7.55	2.60	7.10	5.30	5.90	151.20	5.45	1.30	0.00	0.00	2.75		
28	1.20	5.90	2.30	6.80	5.15	8.20	95.80	5.15	1.20	0.00	0.00	2.30		
29	1.70	4.10	1.90	6.50	7.55	6.50	64.10	4.85	1.20	0.00		1.80		
30	7.10	4.85	1.70	6.35	9.60	5.30	47.30	4.55	1.10	0.00		1.50		
31		4.10		6.65	12.30		33.55		1.00	0.00		1.40		
Total	55.60	422.05	200.00	200.30	239.55	371.40	817.25	544.30	64.15	10.00	0.00	48.10	2972.70	CMSDAY
Mean	1.85	13.61	6.67	6.46	7.73	12.38	26.36	18.14	2.07	0.32	0.00	1.55	8.14	CMS
Max	7.85	62.00	21.15	9.80	13.50	56.40	162.40	56.40	4.10	1.00	0.00	3.95	162.40	CMS
Min	0.50	3.65	1.70	3.95	5.15	5.15	6.35	4.55	1.00	0.00	0.00	0.00	0.00	CMS
Runoff	4.80	36.47	17.28	17.31	20.70	32.09	70.61	47.03	5.54	0.86	0.00	4.16	256.84	MCM

Momentary Peak 169.40 CMS. at 108.36 m. (MSL.) at 18.00 Hours , on Oct 26, 2008

Runoff Yield 16.97 Liters/Second/Square KM. Momentary Peak Yield 352.92 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

Khlong Pra Dang at Ban Na Bot,Tak (P.51)

Lat 16 - 41 - 11 N Long 99 - 09 - 20 E

Location : on right bank the bridge on highway.

Ban Na Bot **Amphoe** Mueang **Changwat** Tak

Drainge Area	167 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+148.300 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 10 meters from the top staff gage. **Elevation** +151.849 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 mean of 5 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1997 to date
Rated by Float	-
Rated by Current Meter	1997 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 7 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

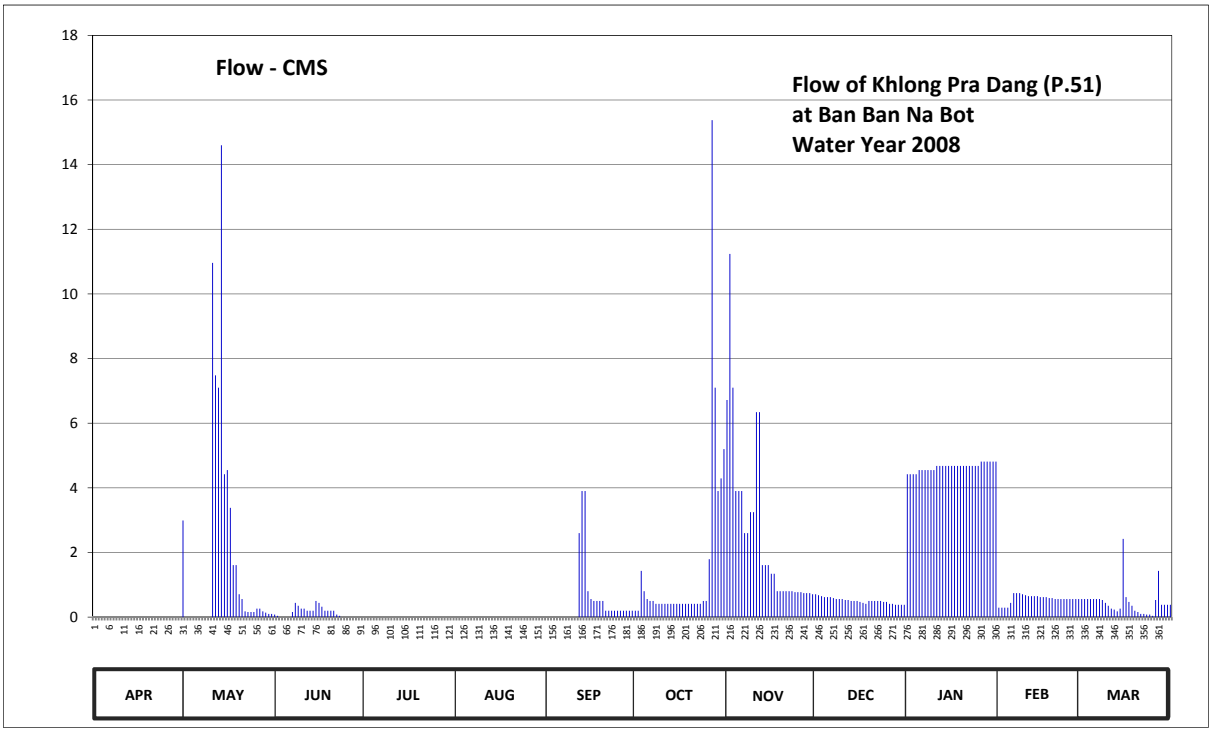
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	147.68	148.43	147.94	147.90	147.88	147.90	148.00	148.68	148.17	148.54	148.03	148.12	
2	147.68	147.62	147.92	147.90	147.88	147.90	148.00	148.88	148.16	148.54	148.03	148.12	
3	147.68	147.62	147.90	147.90	147.88	147.90	148.27	148.70	148.15	148.54	148.03	148.12	
4	147.68	147.62	147.90	147.90	147.88	147.90	148.20	148.50	148.14	148.54	148.03	148.12	
5	147.68	147.62	147.90	147.90	147.88	147.90	148.12	148.50	148.14	148.55	148.08	148.12	
6	147.68	147.62	147.90	147.90	147.88	147.90	148.10	148.50	148.14	148.55	148.18	148.12	
7	147.68	147.62	147.98	147.90	147.88	147.90	148.10	148.40	148.13	148.55	148.18	148.12	
8	147.68	147.62	148.08	147.90	147.88	147.90	148.07	148.40	148.12	148.55	148.18	148.11	
9	147.68	147.62	148.05	147.90	147.88	147.90	148.07	148.45	148.12	148.55	148.17	148.08	
10	147.68	147.62	148.02	147.90	147.90	147.90	148.07	148.45	148.12	148.55	148.16	148.05	
11	147.68	148.87	148.02	147.90	147.90	147.90	148.07	148.66	148.11	148.56	148.15	148.02	
12	147.68	148.72	148.00	147.90	147.90	148.40	148.07	148.66	148.11	148.56	148.15	148.01	
13	147.68	148.70	148.00	147.90	147.89	148.50	148.07	148.29	148.10	148.56	148.15	147.99	
14	147.68	149.00	148.00	147.90	147.89	148.50	148.07	148.29	148.10	148.56	148.15	148.02	
15	147.68	148.54	148.10	147.89	147.89	148.20	148.07	148.29	148.10	148.56	148.14	148.38	
16	147.68	148.55	148.08	147.89	147.89	148.12	148.07	148.26	148.09	148.56	148.14	148.14	
17	147.68	148.46	148.04	147.88	147.89	148.10	148.07	148.26	148.08	148.56	148.14	148.09	
18	147.68	148.29	148.00	147.88	147.89	148.10	148.07	148.20	148.07	148.56	148.13	148.05	
19	147.68	148.29	148.00	147.88	147.89	148.10	148.07	148.20	148.10	148.56	148.13	148.00	
20	147.68	148.17	148.00	147.88	147.89	148.10	148.07	148.20	148.10	148.56	148.12	147.98	
21	147.68	148.12	148.00	147.88	147.89	148.00	148.07	148.20	148.10	148.56	148.12	147.95	
22	147.68	147.99	147.94	147.88	147.89	148.00	148.07	148.20	148.10	148.56	148.12	147.95	
23	147.68	147.98	147.92	147.88	147.89	148.00	148.07	148.20	148.10	148.56	148.12	147.94	
24	147.68	147.98	147.90	147.75	147.89	148.00	148.10	148.19	148.09	148.56	148.12	147.94	
25	147.68	147.98	147.90	147.75	147.90	148.00	148.10	148.19	148.09	148.56	148.12	147.92	
26	147.68	148.02	147.90	147.75	147.90	148.00	148.31	148.19	148.07	148.57	148.12	148.11	
27	147.68	148.02	147.90	147.75	147.90	148.00	149.02	148.18	148.07	148.57	148.12	148.27	
28	147.68	147.99	147.90	147.75	147.90	148.00	148.70	148.18	148.06	148.57	148.12	148.06	
29	147.68	147.97	147.90	147.75	147.90	148.00	148.50	148.18	148.06	148.57		148.06	
30	147.68	147.95	147.90	147.75	147.90	148.00	148.53	148.17	148.06	148.57		148.06	
31		147.95		147.75	147.90		148.60		148.06	148.57		148.06	
Mean	147.68	148.08	147.97	147.86	147.89	148.03	148.19	148.36	148.10	148.56	148.12	148.07	
Max	147.68	149.00	148.10	147.90	147.90	148.50	149.02	148.88	148.17	148.57	148.18	148.38	149.02
Min	147.68	147.62	147.90	147.75	147.88	147.90	148.00	148.17	148.06	148.54	148.03	147.92	147.62

Annual Max Momentary Gage Height 149.10 m. (MSL.) , at 06.00 Hours , on May 11, 2008

Zero Gage at Bottom Elevation 148.30 m. (MSL.) , River Bed 147.68 m. (MSL.)

Left Bank Elevation 151.62 m. (MSL.) ,

Right Bank Elevation 151.60 m. (MSL.) , Drainage Are 167 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	2.99	0.08	0.00	0.00	0.00	0.20	6.72	0.71	4.42	0.29	0.56		
2	0.00	0.00	0.04	0.00	0.00	0.00	0.20	11.24	0.68	4.42	0.29	0.56		
3	0.00	0.00	0.00	0.00	0.00	0.00	1.43	7.10	0.65	4.42	0.29	0.56		
4	0.00	0.00	0.00	0.00	0.00	0.00	0.80	3.90	0.62	4.42	0.29	0.56		
5	0.00	0.00	0.00	0.00	0.00	0.00	0.56	3.90	0.62	4.55	0.44	0.56		
6	0.00	0.00	0.00	0.00	0.00	0.00	0.50	3.90	0.62	4.55	0.74	0.56		
7	0.00	0.00	0.16	0.00	0.00	0.00	0.50	2.60	0.59	4.55	0.74	0.56		
8	0.00	0.00	0.44	0.00	0.00	0.00	0.41	2.60	0.56	4.55	0.74	0.53		
9	0.00	0.00	0.35	0.00	0.00	0.00	0.41	3.25	0.56	4.55	0.71	0.44		
10	0.00	0.00	0.26	0.00	0.00	0.00	0.41	3.25	0.56	4.55	0.68	0.35		
11	0.00	10.96	0.26	0.00	0.00	0.00	0.41	6.34	0.53	4.68	0.65	0.26		
12	0.00	7.48	0.20	0.00	0.00	2.60	0.41	6.34	0.53	4.68	0.65	0.23		
13	0.00	7.10	0.20	0.00	0.00	3.90	0.41	1.61	0.50	4.68	0.65	0.18		
14	0.00	14.60	0.20	0.00	0.00	3.90	0.41	1.61	0.50	4.68	0.65	0.26		
15	0.00	4.42	0.50	0.00	0.00	0.80	0.41	1.61	0.50	4.68	0.62	2.42		
16	0.00	4.55	0.44	0.00	0.00	0.56	0.41	1.34	0.47	4.68	0.62	0.62		
17	0.00	3.38	0.32	0.00	0.00	0.50	0.41	1.34	0.44	4.68	0.62	0.47		
18	0.00	1.61	0.20	0.00	0.00	0.50	0.41	0.80	0.41	4.68	0.59	0.35		
19	0.00	1.61	0.20	0.00	0.00	0.50	0.41	0.80	0.50	4.68	0.59	0.20		
20	0.00	0.71	0.20	0.00	0.00	0.50	0.41	0.80	0.50	4.68	0.56	0.16		
21	0.00	0.56	0.20	0.00	0.00	0.20	0.41	0.80	0.50	4.68	0.56	0.10		
22	0.00	0.18	0.08	0.00	0.00	0.20	0.41	0.80	0.50	4.68	0.56	0.10		
23	0.00	0.16	0.04	0.00	0.00	0.20	0.41	0.80	0.50	4.68	0.56	0.08		
24	0.00	0.16	0.00	0.00	0.00	0.20	0.50	0.77	0.47	4.68	0.56	0.08		
25	0.00	0.16	0.00	0.00	0.00	0.20	0.50	0.77	0.47	4.68	0.56	0.04		
26	0.00	0.26	0.00	0.00	0.00	0.20	1.79	0.77	0.41	4.81	0.56	0.53		
27	0.00	0.26	0.00	0.00	0.00	0.20	15.38	0.74	0.41	4.81	0.56	1.43		
28	0.00	0.18	0.00	0.00	0.00	0.20	7.10	0.74	0.38	4.81	0.56	0.38		
29	0.00	0.14	0.00	0.00	0.00	0.20	3.90	0.74	0.38	4.81		0.38		
30	0.00	0.10	0.00	0.00	0.00	0.20	4.29	0.71	0.38	4.81		0.38		
31		0.10		0.00	0.00		5.20		0.38	4.81		0.38		
Total	0.00	61.67	4.37	0.00	0.00	15.76	49.41	78.69	15.83	144.04	15.89	14.27	399.93	CMSDAY
Mean	0.00	1.99	0.15	0.00	0.00	0.53	1.59	2.62	0.51	4.65	0.57	0.46	1.10	CMS
Max	0.00	14.60	0.50	0.00	0.00	3.90	15.38	11.24	0.71	4.81	0.74	2.42	15.38	CMS
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.71	0.38	4.42	0.29	0.04	0.00	CMS
Runoff	0.00	5.33	0.38	0.00	0.00	1.36	4.27	6.80	1.37	12.45	1.37	1.23	34.55	MCM

Momentary Peak 18.50 CMS. at 149.10 m. (MSL.) at 06.00 Hours , on May 11, 2008

Runoff Yield 6.56 Liters/Second/Square KM. Momentary Peak Yield 110.78 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

Huai Tak at Ban Tak,Tak (P.52)

Lat 17 - 02 - 13 N Long 99 - 03 - 09 E

Location : on right bank at the bridge on road.

	Ban Tak Tok **Amphoe** Ban Tak **Changwat** Tak
Drainge Area	355 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+120.230 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 10 meters from the top staff gage. **Elevation** +125.421 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 mean of 5 readings
Period of Available Gage Records	1983 to date.
Rating Operation	
Period of Rating	1997 to date.
Rated by Float	-
Rated by Current Meter	1997 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 7 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

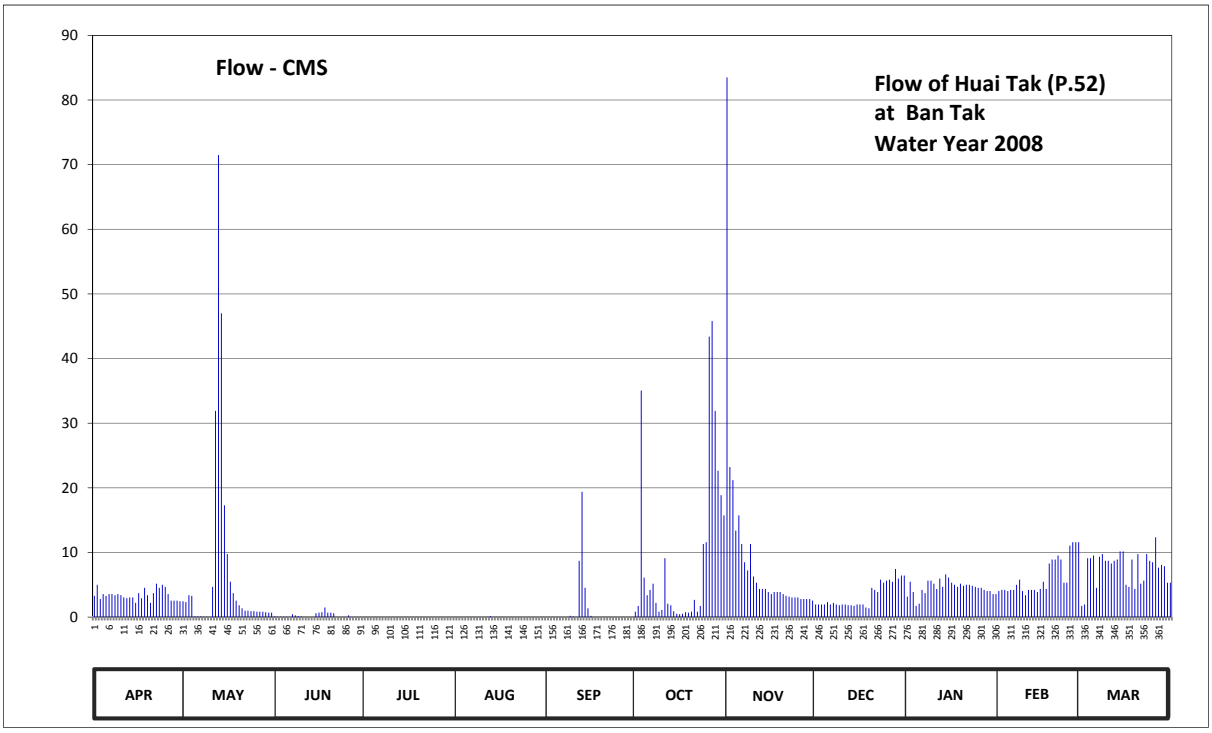
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	119.79	119.72	119.48	119.39	119.38	119.38	119.58	122.13	119.68	119.78	119.84	119.66	
2	119.90	119.71	119.47	119.39	119.38	119.40	119.66	120.67	119.68	119.93	119.85	119.68	
3	119.75	119.80	119.47	119.39	119.38	119.38	121.03	120.60	119.68	119.83	119.85	120.12	
4	119.81	119.79	119.47	119.39	119.38	119.38	119.97	120.30	119.68	119.66	119.84	120.12	
5	119.79	119.48	119.47	119.39	119.38	119.38	119.80	120.39	119.71	119.69	119.85	120.14	
6	119.81	119.48	119.43	119.39	119.38	119.38	119.85	120.22	119.68	119.85	119.85	119.87	
7	119.81	119.48	119.53	119.38	119.38	119.38	119.91	120.09	119.70	119.82	119.90	120.13	
8	119.80	119.47	119.51	119.38	119.38	119.38	119.70	120.03	119.68	119.94	119.95	120.15	
9	119.81	119.47	119.49	119.38	119.38	119.50	119.58	120.22	119.67	119.94	119.84	120.10	
10	119.80	119.46	119.48	119.38	119.38	119.48	119.61	119.98	119.68	119.91	119.80	120.10	
11	119.77	119.88	119.43	119.38	119.39	119.41	120.12	119.92	119.68	119.86	119.85	120.08	
12	119.76	120.94	119.40	119.38	119.45	120.10	119.69	119.86	119.67	119.96	119.85	120.10	
13	119.77	121.89	119.40	119.38	119.49	120.53	119.67	119.86	119.67	119.88	119.85	120.11	
14	119.77	121.35	119.42	119.37	119.46	119.87	119.59	119.86	119.66	120.00	119.83	120.17	
15	119.70	120.45	119.55	119.37	119.43	119.63	119.54	119.83	119.68	119.97	119.86	120.17	
16	119.82	120.15	119.56	119.37	119.43	119.50	119.53	119.81	119.68	119.92	119.93	119.90	
17	119.76	119.93	119.57	119.37	119.43	119.38	119.54	119.83	119.68	119.90	119.86	119.88	
18	119.87	119.82	119.64	119.37	119.43	119.38	119.57	119.83	119.64	119.88	120.08	120.11	
19	119.80	119.73	119.56	119.37	119.39	119.36	119.56	119.83	119.63	119.91	120.11	119.86	
20	119.70	119.67	119.56	119.37	119.39	119.37	119.58	119.81	119.87	119.89	120.11	120.15	
21	119.82	119.63	119.55	119.38	119.39	119.38	119.74	119.79	119.85	119.90	120.14	119.91	
22	119.91	119.60	119.46	119.38	119.40	119.38	119.58	119.78	119.83	119.90	120.11	119.94	
23	119.87	119.60	119.43	119.38	119.40	119.38	119.66	119.77	119.95	119.89	119.92	120.15	
24	119.90	119.59	119.44	119.38	119.38	119.38	120.22	119.77	119.92	119.88	119.92	120.10	
25	119.88	119.59	119.42	119.38	119.38	119.37	120.23	119.77	119.94	119.87	120.21	120.09	
26	119.81	119.58	119.51	119.38	119.38	119.37	121.26	119.75	119.95	119.87	120.23	120.26	
27	119.73	119.58	119.40	119.38	119.38	119.37	121.32	119.75	119.93	119.85	120.23	120.05	
28	119.73	119.58	119.40	119.38	119.37	119.37	120.94	119.75	120.04	119.84	120.23	120.07	
29	119.73	119.57	119.39	119.38	119.38	119.37	120.65	119.75	119.96	119.84		120.06	
30	119.72	119.56	119.39	119.38	119.38	119.36	120.51	119.73	119.99	119.81		119.92	
31		119.56		119.38	119.38		120.39		119.99	119.81		119.92	
Mean	119.80	119.84	119.48	119.38	119.40	119.48	119.99	120.02	119.78	119.87	119.96	120.03	
Max	119.91	121.89	119.64	119.39	119.49	120.53	121.32	122.13	120.04	120.00	120.23	120.26	122.13
Min	119.70	119.46	119.39	119.37	119.37	119.36	119.53	119.73	119.63	119.66	119.80	119.66	119.36

Annual Max Momentary Gage Height 123.23 m. (MSL.) , at 18.00 Hours , on Nov 1, 2008

Zero Gage at Bottom Elevation 120.23 m. (MSL.) , River Bed 119.46 m. (MSL.)

Left Bank Elevation 123.79 m. (MSL.) ,

Right Bank Elevation 123.31 m. (MSL.) , Drainage Are 355 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.28	2.44	0.10	0.00	0.00	0.00	0.84	83.50	1.96	3.16	4.04	1.72		
2	5.00	2.32	0.05	0.00	0.00	0.00	1.72	23.23	1.96	5.48	4.20	1.96		
3	2.80	3.40	0.05	0.00	0.00	0.00	35.05	21.20	1.96	3.88	4.20	9.12		
4	3.56	3.28	0.05	0.00	0.00	0.00	6.12	13.40	1.96	1.72	4.04	9.12		
5	3.28	0.10	0.05	0.00	0.00	0.00	3.40	15.74	2.32	2.08	4.20	9.54		
6	3.56	0.10	0.00	0.00	0.00	0.00	4.20	11.32	1.96	4.20	4.20	4.52		
7	3.56	0.10	0.44	0.00	0.00	0.00	5.16	8.49	2.20	3.72	5.00	9.33		
8	3.40	0.05	0.28	0.00	0.00	0.00	2.20	7.23	1.96	5.64	5.80	9.75		
9	3.56	0.05	0.15	0.00	0.00	0.20	0.84	11.32	1.84	5.64	4.04	8.70		
10	3.40	0.00	0.10	0.00	0.00	0.10	1.12	6.28	1.96	5.16	3.40	8.70		
11	3.04	4.68	0.00	0.00	0.00	0.00	9.12	5.32	1.96	4.36	4.20	8.28		
12	2.92	31.90	0.00	0.00	0.00	8.70	2.08	4.36	1.84	5.96	4.20	8.70		
13	3.04	71.50	0.00	0.00	0.15	19.38	1.84	4.36	1.84	4.68	4.20	8.91		
14	3.04	47.00	0.00	0.00	0.00	4.52	0.92	4.36	1.72	6.60	3.88	10.17		
15	2.20	17.30	0.60	0.00	0.00	1.36	0.52	3.88	1.96	6.12	4.36	10.17		
16	3.72	9.75	0.68	0.00	0.00	0.20	0.44	3.56	1.96	5.32	5.48	5.00		
17	2.92	5.48	0.76	0.00	0.00	0.00	0.52	3.88	1.96	5.00	4.36	4.68		
18	4.52	3.72	1.48	0.00	0.00	0.00	0.76	3.88	1.48	4.68	8.28	8.91		
19	3.40	2.56	0.68	0.00	0.00	0.00	0.68	3.88	1.36	5.16	8.91	4.36		
20	2.20	1.84	0.68	0.00	0.00	0.00	0.84	3.56	4.52	4.84	8.91	9.75		
21	3.72	1.36	0.60	0.00	0.00	0.00	2.68	3.28	4.20	5.00	9.54	5.16		
22	5.16	1.00	0.00	0.00	0.00	0.00	0.84	3.16	3.88	5.00	8.91	5.64		
23	4.52	1.00	0.00	0.00	0.00	0.00	1.72	3.04	5.80	4.84	5.32	9.75		
24	5.00	0.92	0.00	0.00	0.00	0.00	11.32	3.04	5.32	4.68	5.32	8.70		
25	4.68	0.92	0.00	0.00	0.00	0.00	11.58	3.04	5.64	4.52	11.06	8.49		
26	3.56	0.84	0.28	0.00	0.00	0.00	43.40	2.80	5.80	4.52	11.58	12.36		
27	2.56	0.84	0.00	0.00	0.00	0.00	45.80	2.80	5.48	4.20	11.58	7.65		
28	2.56	0.84	0.00	0.00	0.00	0.00	31.90	2.80	7.44	4.04	11.58	8.07		
29	2.56	0.76	0.00	0.00	0.00	0.00	22.65	2.80	5.96	4.04		7.86		
30	2.44	0.68	0.00	0.00	0.00	0.00	18.86	2.56	6.44	3.56		5.32		
31		0.68		0.00	0.00		15.74		6.44	3.56		5.32		
Total	103.16	217.41	7.03	0.00	0.15	34.46	284.86	272.07	103.08	141.36	174.79	235.71	1574.08	CMSDAY
Mean	3.44	7.01	0.23	0.00	0.00	1.15	9.19	9.07	3.33	4.56	6.24	7.60	4.31	CMS
Max	5.16	71.50	1.48	0.00	0.15	19.38	45.80	83.50	7.44	6.60	11.58	12.36	83.50	CMS
Min	2.20	0.00	0.00	0.00	0.00	0.00	0.44	2.56	1.36	1.72	3.40	1.72	0.00	CMS
Runoff	8.91	18.78	0.61	0.00	0.01	2.98	24.61	23.51	8.91	12.21	15.10	20.37	136.00	MCM

Momentary Peak 142.65 CMS. at 123.23 m. (MSL.) at 18.00 Hours , on Nov 1, 2008

Runoff Yield 12.15 Liters/Second/Square KM. Momentary Peak Yield 401.83 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +414.300 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1998 to date
Rating Operation	
Period of Rating	1998 to date
Rated by Float	-
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 26 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

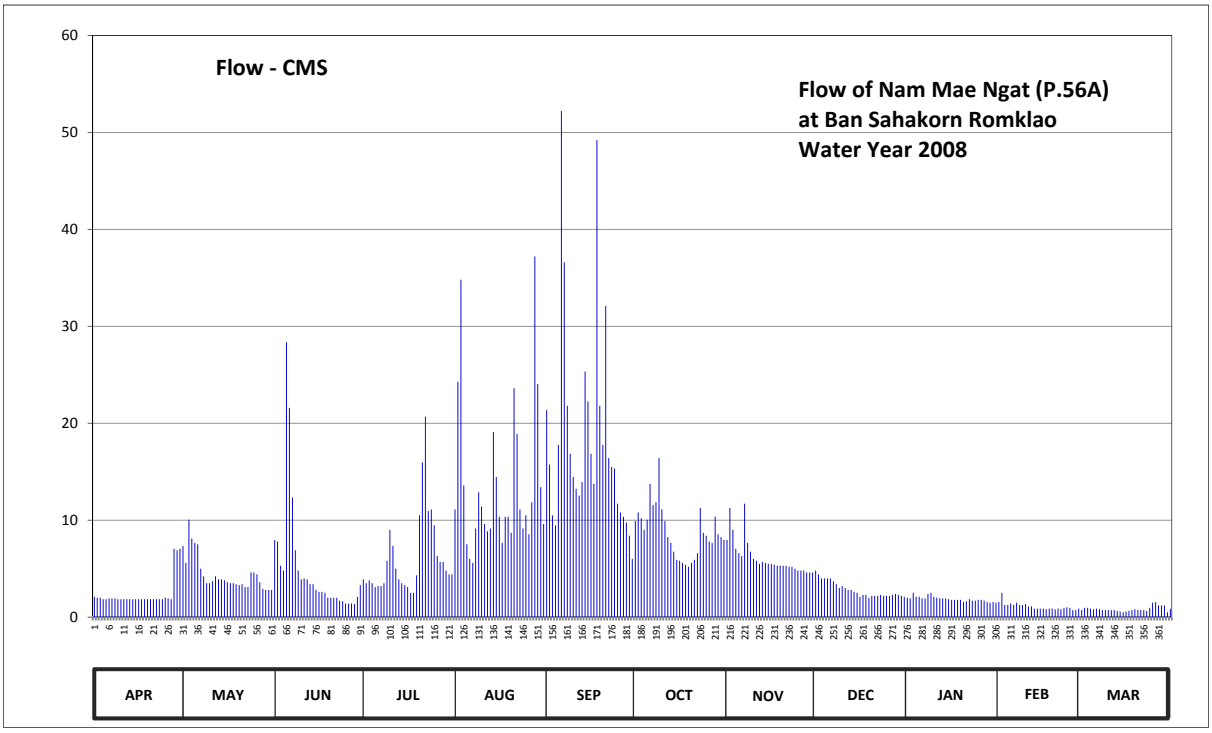
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	409.61	410.09	410.13	409.79	410.34	410.86	410.26	410.13	409.88	409.60	409.54	409.43	
2	409.60	409.96	410.12	409.75	410.99	410.61	410.32	410.35	409.84	409.59	409.65	409.46	
3	409.60	410.27	409.93	409.78	411.36	410.30	410.28	410.20	409.80	409.65	409.50	409.46	
4	409.58	410.14	409.88	409.75	410.49	410.23	410.20	410.07	409.80	409.61	409.50	409.45	
5	409.58	410.11	411.14	409.71	410.10	410.70	410.27	410.04	409.80	409.61	409.52	409.44	
6	409.59	410.10	410.87	409.72	410.00	411.94	410.50	410.02	409.80	409.59	409.50	409.45	
7	409.59	409.90	410.42	409.72	409.96	411.42	410.37	410.38	409.77	409.59	409.53	409.44	
8	409.59	409.82	410.06	409.75	410.21	410.88	410.39	410.11	409.74	409.64	409.50	409.43	
9	409.58	409.75	409.88	409.98	410.45	410.66	410.64	410.05	409.70	409.65	409.50	409.43	
10	409.58	409.75	409.79	410.20	410.36	410.54	410.34	410.00	409.72	409.61	409.51	409.43	
11	409.58	409.77	409.80	410.09	410.24	410.47	410.26	409.98	409.70	409.60	409.48	409.43	
12	409.58	409.82	409.79	409.90	410.19	410.43	410.15	409.95	409.68	409.59	409.48	409.43	
13	409.58	409.79	409.74	409.79	410.21	410.51	410.11	409.97	409.68	409.59	409.45	409.42	
14	409.58	409.79	409.74	409.75	410.76	411.03	410.05	409.96	409.66	409.59	409.45	409.41	
15	409.58	409.78	409.68	409.73	410.54	410.90	409.99	409.95	409.65	409.58	409.45	409.40	
16	409.58	409.76	409.66	409.71	410.29	410.66	409.98	409.95	409.61	409.57	409.45	409.41	
17	409.58	409.75	409.66	409.65	410.11	410.50	409.96	409.94	409.63	409.57	409.44	409.42	
18	409.58	409.75	409.65	409.65	410.29	411.84	409.94	409.93	409.63	409.57	409.45	409.43	
19	409.58	409.74	409.60	409.83	410.29	410.88	409.92	409.93	409.60	409.57	409.45	409.44	
20	409.58	409.73	409.60	410.30	410.18	410.70	409.96	409.93	409.62	409.54	409.44	409.43	
21	409.58	409.74	409.60	410.62	410.96	411.27	409.99	409.93	409.62	409.55	409.45	409.43	
22	409.58	409.71	409.60	410.83	410.75	410.64	410.04	409.92	409.62	409.58	409.44	409.43	
23	409.58	409.71	409.56	410.33	410.34	410.60	410.35	409.92	409.63	409.56	409.46	409.42	
24	409.58	409.86	409.55	410.34	410.21	410.59	410.18	409.90	409.62	409.56	409.47	409.46	
25	409.60	409.86	409.52	410.23	410.30	410.38	410.16	409.88	409.62	409.57	409.46	409.53	
26	409.59	409.84	409.52	410.02	410.17	410.32	410.12	409.88	409.62	409.57	409.43	409.73	
27	409.58	409.76	409.52	409.97	410.39	410.29	410.11	409.88	409.63	409.56	409.43	409.72	
28	410.07	409.69	409.51	409.97	411.44	410.25	410.29	409.86	409.64	409.54	409.45	409.72	
29	410.06	409.68	409.61	409.88	410.98	410.16	410.17	409.86	409.63	409.53		409.72	
30	410.07	409.68	409.73	409.84	410.48	410.00	410.15	409.86	409.62	409.54		409.70	
31		409.68		409.84	410.24		410.13		409.61	409.53		409.71	
Mean	409.63	409.83	409.83	409.95	410.44	410.69	410.18	409.99	409.68	409.58	409.48	409.49	
Max	410.07	410.27	411.14	410.83	411.44	411.94	410.64	410.38	409.88	409.65	409.65	409.73	411.94
Min	409.58	409.68	409.51	409.65	409.96	410.00	409.92	409.86	409.60	409.53	409.43	409.40	409.40

Annual Max Momentary Gage Height 412.39 m. (MSL.) , at 20.00 Hours , on Sep 6, 2008

Zero Gage at Bottom Elevation 408.30 m. (MSL.) , River Bed 409.27 m. (MSL.)

Left Bank Elevation 415.72 m. (MSL.) ,

Right Bank Elevation 415.75 m. (MSL.) , Drainage Are 546 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.10	7.35	7.95	3.90	11.10	21.35	9.90	7.95	4.80	2.00	1.55	0.73		
2	2.00	5.60	7.80	3.50	24.28	15.73	10.80	11.25	4.40	1.93	2.50	0.95		
3	2.00	10.05	5.30	3.80	34.80	10.50	10.20	9.00	4.00	2.50	1.25	0.95		
4	1.85	8.10	4.80	3.50	13.58	9.45	9.00	7.05	4.00	2.10	1.25	0.88		
5	1.85	7.65	28.35	3.10	7.50	17.75	10.05	6.60	4.00	2.10	1.40	0.80		
6	1.93	7.50	21.58	3.20	6.00	52.20	13.75	6.30	4.00	1.93	1.25	0.88		
7	1.93	5.00	12.35	3.20	5.60	36.60	11.55	11.70	3.70	1.93	1.48	0.80		
8	1.93	4.20	6.90	3.50	9.15	21.80	11.85	7.65	3.40	2.40	1.25	0.73		
9	1.85	3.50	4.80	5.80	12.88	16.85	16.40	6.75	3.00	2.50	1.25	0.73		
10	1.85	3.50	3.90	9.00	11.40	14.45	11.10	6.00	3.20	2.10	1.33	0.73		
11	1.85	3.70	4.00	7.35	9.60	13.23	9.90	5.80	3.00	2.00	1.10	0.73		
12	1.85	4.20	3.90	5.00	8.85	12.53	8.25	5.50	2.80	1.93	1.10	0.73		
13	1.85	3.90	3.40	3.90	9.15	13.93	7.65	5.70	2.80	1.93	0.88	0.65		
14	1.85	3.90	3.40	3.50	19.10	25.33	6.75	5.60	2.60	1.93	0.88	0.58		
15	1.85	3.80	2.80	3.30	14.45	22.25	5.90	5.50	2.50	1.85	0.88	0.50		
16	1.85	3.60	2.60	3.10	10.35	16.85	5.80	5.50	2.10	1.78	0.88	0.58		
17	1.85	3.50	2.60	2.50	7.65	13.75	5.60	5.40	2.30	1.78	0.80	0.65		
18	1.85	3.50	2.50	2.50	10.35	49.20	5.40	5.30	2.30	1.78	0.88	0.73		
19	1.85	3.40	2.00	4.30	10.35	21.80	5.20	5.30	2.00	1.78	0.88	0.80		
20	1.85	3.30	2.00	10.50	8.70	17.75	5.60	5.30	2.20	1.55	0.80	0.73		
21	1.85	3.40	2.00	15.95	23.60	32.10	5.90	5.30	2.20	1.63	0.88	0.73		
22	1.85	3.10	2.00	20.68	18.88	16.40	6.60	5.20	2.20	1.85	0.80	0.73		
23	1.85	3.10	1.70	10.95	11.10	15.50	11.25	5.20	2.30	1.70	0.95	0.65		
24	1.85	4.60	1.63	11.10	9.15	15.33	8.70	5.00	2.20	1.70	1.03	0.95		
25	2.00	4.60	1.40	9.45	10.50	11.70	8.40	4.80	2.20	1.78	0.95	1.48		
26	1.93	4.40	1.40	6.30	8.55	10.80	7.80	4.80	2.20	1.78	0.73	1.55		
27	1.85	3.60	1.40	5.70	11.85	10.35	7.65	4.80	2.30	1.70	0.73	1.20		
28	7.05	2.90	1.33	5.70	37.20	9.75	10.35	4.60	2.40	1.55	0.88	1.20		
29	6.90	2.80	2.10	4.80	24.05	8.40	8.55	4.60	2.30	1.48		1.20		
30	7.05	2.80	3.30	4.40	13.40	6.00	8.25	4.60	2.20	1.55		0.50		
31		2.80		4.40	9.60		7.95		2.10	1.48		0.85		
Total	71.97	137.35	151.19	187.88	422.72	559.63	272.05	184.05	87.70	58.00	30.54	25.90	2188.98	CMSDAY
Mean	2.40	4.43	5.04	6.06	13.64	18.65	8.78	6.14	2.83	1.87	1.09	0.84	6.00	CMS
Max	7.05	10.05	28.35	20.68	37.20	52.20	16.40	11.70	4.80	2.50	2.50	1.55	52.20	CMS
Min	1.85	2.80	1.33	2.50	5.60	6.00	5.20	4.60	2.00	1.48	0.73	0.50	0.50	CMS
Runoff	6.22	11.87	13.06	16.23	36.52	48.35	23.51	15.90	7.58	5.01	2.64	2.24	189.13	MCM

Momentary Peak 68.60 CMS. at 412.39 m. (MSL.) at 20.00 Hours , on Sep 6, 2008

Runoff Yield 10.98 Liters/Second/Square KM. Momentary Peak Yield 125.64 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

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

Lat 17 - 46 - 56 N Long 98 - 22 - 29 E

Location : on rigth bank at the bridge on Highway.

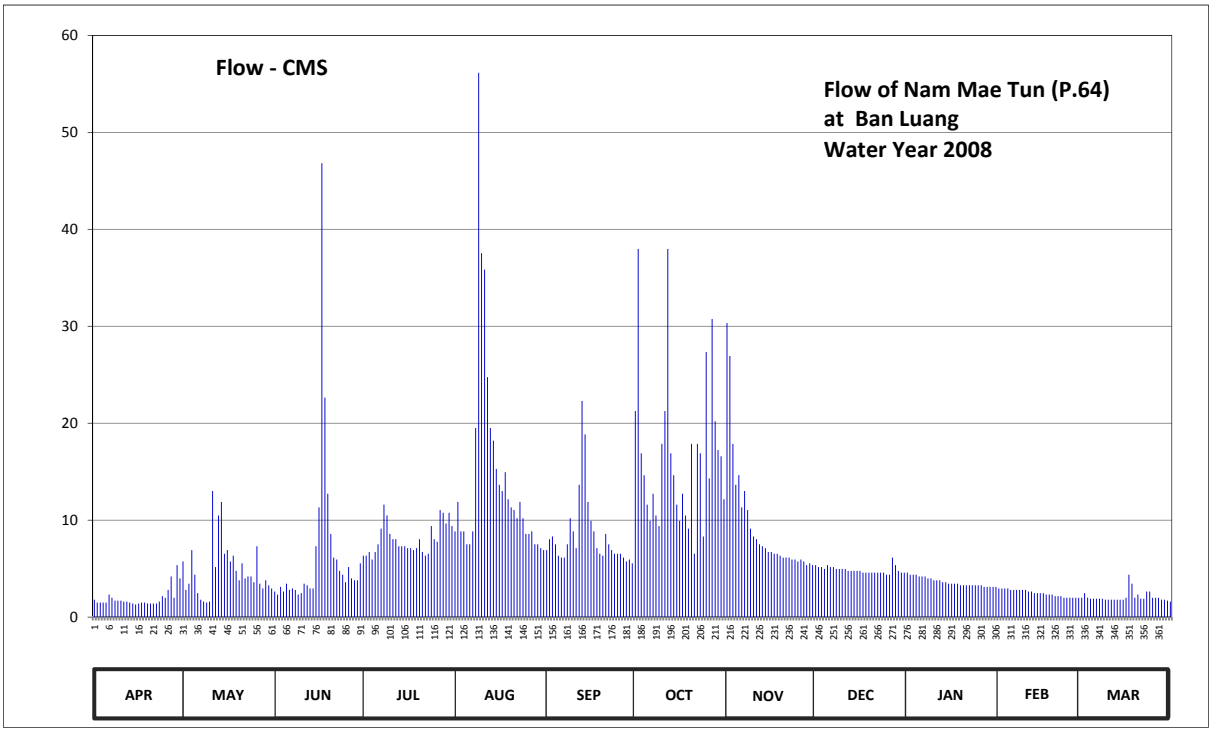
Ban Luang **Amphoe** Omkoi **Changwat** Chiang Mai

Drainge Area	502 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+787.355 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 35.00 meters from the top staff gage. **Elevation** +796.355 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 mean of 5 readings
Period of Available Gage Records	1990 to date.
Rating Operation	
Period of Rating	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 4 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	787.88	788.11	787.94	788.14	788.25	788.17	788.65	788.89	788.09	788.05	787.96	787.90	
2	787.85	787.95	787.92	788.14	788.36	788.22	789.07	788.81	788.08	788.04	787.96	787.93	
3	787.85	787.99	787.97	788.16	788.25	788.23	788.52	788.55	788.08	788.04	787.96	787.90	
4	787.85	788.17	787.94	788.12	788.25	788.20	788.45	788.42	788.07	788.04	787.96	787.89	
5	787.85	788.04	787.99	788.16	788.20	788.14	788.35	788.45	788.09	788.03	787.95	787.89	
6	787.92	787.93	787.95	788.20	788.20	788.13	788.29	788.34	788.08	788.03	787.95	787.89	
7	787.90	787.88	787.96	788.26	788.25	788.13	788.39	788.40	788.08	788.03	787.95	787.89	
8	787.87	787.86	787.95	788.35	788.60	788.20	788.31	788.33	788.07	788.02	787.95	787.89	
9	787.87	787.85	787.92	788.31	789.46	788.30	788.27	788.26	788.07	788.02	787.95	787.88	
10	787.87	787.86	787.93	788.24	789.06	788.25	788.55	788.23	788.07	788.01	787.95	787.88	
11	787.86	788.40	787.99	788.22	789.02	788.18	788.65	788.22	788.07	788.01	787.94	787.88	
12	787.86	788.08	787.98	788.22	788.75	788.42	789.07	788.20	788.06	788.01	787.94	787.88	
13	787.85	788.31	787.96	788.19	788.60	788.68	788.52	788.19	788.06	788.00	787.93	787.88	
14	787.84	788.36	787.96	788.19	788.56	788.58	788.45	788.18	788.06	788.00	787.93	787.88	
15	787.83	788.15	788.19	788.19	788.47	788.36	788.35	788.16	788.06	787.99	787.93	787.88	
16	787.84	788.17	788.34	788.18	788.42	788.29	788.29	788.16	788.06	787.99	787.93	787.90	
17	787.85	788.11	789.27	788.18	788.40	788.25	788.39	788.15	788.05	787.99	787.92	788.04	
18	787.85	788.14	788.69	788.17	788.46	788.18	788.31	788.15	788.05	787.99	787.92	787.99	
19	787.84	788.06	788.39	788.18	788.37	788.15	788.26	788.14	788.05	787.98	787.92	787.90	
20	787.84	788.01	788.24	788.22	788.34	788.14	788.55	788.13	788.05	787.98	787.91	787.92	
21	787.84	788.10	788.13	788.16	788.33	788.24	788.15	788.13	788.05	787.98	787.91	787.89	
22	787.84	788.02	788.12	788.14	788.30	788.20	788.55	788.13	788.05	787.98	787.91	787.89	
23	787.86	788.03	788.06	788.15	788.36	788.17	788.52	788.12	788.05	787.98	787.90	787.94	
24	787.91	788.03	788.04	788.27	788.30	788.15	788.23	788.12	788.05	787.98	787.90	787.94	
25	787.90	788.00	788.00	788.22	788.24	788.15	788.82	788.11	788.04	787.98	787.90	787.90	
26	787.95	788.19	788.08	788.21	788.24	788.15	788.44	788.12	788.04	787.98	787.90	787.90	
27	788.03	787.99	788.02	788.33	788.25	788.13	788.90	788.11	788.13	787.97	787.90	787.90	
28	787.90	787.96	788.01	788.32	788.20	788.11	788.62	788.09	788.09	787.97	787.90	787.88	
29	788.09	788.01	788.01	788.28	788.20	788.12	788.53	788.10	788.06	787.97		787.88	
30	788.02	787.98	788.10	788.32	788.18	788.10	788.51	788.09	788.05	787.97		787.87	
31		787.96		788.27	788.17		788.37		788.05	787.97		787.86	
Mean	787.88	788.05	788.10	788.22	788.42	788.22	788.49	788.25	788.06	788.00	787.93	787.90	
Max	788.09	788.40	789.27	788.35	789.46	788.68	789.07	788.89	788.13	788.05	787.96	788.04	789.46
Min	787.83	787.85	787.92	788.12	788.17	788.10	788.15	788.09	788.04	787.97	787.90	787.86	787.83

Annual Max Momentary Gage Height	789.89	m. (MSL.) ,	at 06.00 Hours , on Aug 9, 2008		
Zero Gage at Bottom Elevation	787.36	m. (MSL.) ,	River Bed	787.23	m. (MSL.)
Left Bank Elevation	793.42	m. (MSL.) ,			
Right Bank Elevation	793.57	m. (MSL.) ,	Drainage Are	502	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.80	5.75	2.64	6.33	8.85	6.92	21.25	30.33	5.36	4.58	2.96	2.00		
2	1.50	2.80	2.32	6.33	11.88	8.04	37.98	26.93	5.16	4.38	2.96	2.48		
3	1.50	3.44	3.12	6.72	8.85	8.31	16.90	17.88	5.16	4.38	2.96	2.00		
4	1.50	6.92	2.64	5.94	8.85	7.50	14.63	13.65	4.97	4.38	2.96	1.90		
5	1.50	4.38	3.44	6.72	7.50	6.33	11.60	14.63	5.36	4.19	2.80	1.90		
6	2.32	2.48	2.80	7.50	7.50	6.14	9.93	11.32	5.16	4.19	2.80	1.90		
7	2.00	1.80	2.96	9.12	8.85	6.14	12.72	13.00	5.16	4.19	2.80	1.90		
8	1.70	1.60	2.80	11.60	19.50	7.50	10.48	11.04	4.97	3.99	2.80	1.90		
9	1.70	1.50	2.32	10.48	56.15	10.20	9.39	9.12	4.97	3.99	2.80	1.80		
10	1.70	1.60	2.48	8.58	37.55	8.85	17.88	8.31	4.97	3.80	2.80	1.80		
11	1.60	13.00	3.44	8.04	35.85	7.11	21.25	8.04	4.97	3.80	2.64	1.80		
12	1.60	5.16	3.28	8.04	24.75	13.65	37.98	7.50	4.77	3.80	2.64	1.80		
13	1.50	10.48	2.96	7.31	19.50	22.30	16.90	7.31	4.77	3.60	2.48	1.80		
14	1.40	11.88	2.96	7.31	18.20	18.85	14.63	7.11	4.77	3.60	2.48	1.80		
15	1.30	6.53	7.31	7.31	15.28	11.88	11.60	6.72	4.77	3.44	2.48	1.80		
16	1.40	6.92	11.32	7.11	13.65	9.93	9.93	6.72	4.77	3.44	2.48	2.00		
17	1.50	5.75	46.82	7.11	13.00	8.85	12.72	6.53	4.58	3.44	2.32	4.38		
18	1.50	6.33	22.65	6.92	14.95	7.11	10.48	6.53	4.58	3.44	2.32	3.44		
19	1.40	4.77	12.72	7.11	12.16	6.53	9.12	6.33	4.58	3.28	2.32	2.00		
20	1.40	3.80	8.58	8.04	11.32	6.33	17.88	6.14	4.58	3.28	2.16	2.32		
21	1.40	5.55	6.14	6.72	11.04	8.58	6.53	6.14	4.58	3.28	2.16	1.90		
22	1.40	3.99	5.94	6.33	10.20	7.50	17.88	6.14	4.58	3.28	2.16	1.90		
23	1.60	4.19	4.77	6.53	11.88	6.92	16.90	5.94	4.58	3.28	2.00	2.64		
24	2.16	4.19	4.38	9.39	10.20	6.53	8.31	5.94	4.58	3.28	2.00	2.64		
25	2.00	3.60	3.60	8.04	8.58	6.53	27.35	5.75	4.38	3.28	2.00	2.00		
26	2.80	7.31	5.16	7.77	8.58	6.53	14.30	5.94	4.38	3.28	2.00	2.00		
27	4.19	3.44	3.99	11.04	8.85	6.14	30.75	5.75	6.14	3.12	2.00	2.00		
28	2.00	2.96	3.80	10.76	7.50	5.75	20.20	5.36	5.36	3.12	2.00	1.80		
29	5.36	3.80	3.80	9.66	7.50	5.94	17.23	5.55	4.77	3.12		1.80		
30	3.99	3.28	5.55	10.76	7.11	5.55	16.58	5.36	4.58	3.12		1.70		
31		2.96		9.39	6.92		12.16		4.58	3.12		1.60		
Total	58.72	152.16	196.69	250.01	452.50	254.44	513.44	283.01	150.89	112.47	69.28	64.70	2558.31	CMSDAY
Mean	1.96	4.91	6.56	8.06	14.60	8.48	16.56	9.43	4.87	3.63	2.47	2.09	7.01	CMS
Max	5.36	13.00	46.82	11.60	56.15	22.30	37.98	30.33	6.14	4.58	2.96	4.38	56.15	CMS
Min	1.30	1.50	2.32	5.94	6.92	5.55	6.53	5.36	4.38	3.12	2.00	1.60	1.30	CMS
Runoff	5.07	13.15	16.99	21.60	39.10	21.98	44.36	24.45	13.04	9.72	5.99	5.59	221.04	MCM

Momentary Peak 79.90 CMS. at 789.89 m. (MSL.) at 06.00 Hours , on Aug 9, 2008

Runoff Yield 13.96 Liters/Second/Square KM. Momentary Peak Yield 159.16 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

Nam Mae Teang at Ban Muang Pog, Chiang Mai (P.65)

Lat 19 - 38 - 10 N Long 98 - 38 - 19 E

Location : On left bank at Ban Muang Pog.

Ban Muang Pog **Amphoe** Wiang Haeng **Changwat** Chiang Mai

Drainge Area	243 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+740.406 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the gage site. **Elevation** +744.530 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 mean of 5 readings
Period of Available Gage Records	1990 to date.
Rating Operation	
Period of Rating	1990 to date.
Rated by Float	-
Rated by Current Meter	1990 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 2 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

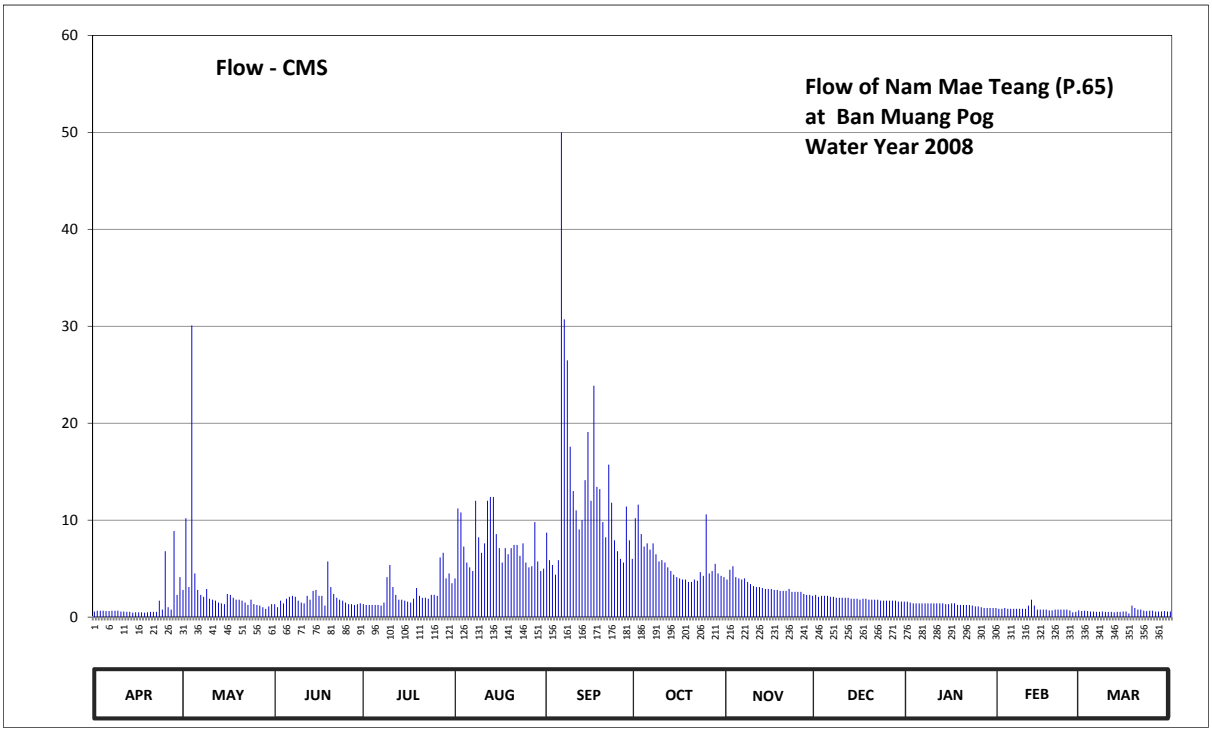
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	741.47	741.73	741.58	741.58	741.84	742.17	742.25	741.83	741.68	741.61	741.52	741.48	
2	741.49	742.25	741.54	741.57	742.30	741.99	742.32	741.91	741.66	741.60	741.52	741.49	
3	741.49	741.76	741.62	741.57	742.28	741.95	742.16	741.94	741.67	741.59	741.53	741.48	
4	741.49	743.04	741.59	741.57	742.08	741.87	742.08	741.85	741.67	741.59	741.52	741.47	
5	741.48	741.88	741.64	741.57	741.97	741.99	742.10	741.84	741.67	741.59	741.52	741.47	
6	741.48	741.73	741.66	741.57	741.93	743.59	742.06	741.83	741.66	741.59	741.52	741.46	
7	741.49	741.68	741.67	741.56	741.90	743.06	742.10	741.84	741.66	741.59	741.52	741.46	
8	741.49	741.66	741.66	741.60	742.34	742.92	742.03	741.81	741.65	741.59	741.52	741.47	
9	741.49	741.74	741.62	741.85	742.14	742.59	741.98	741.79	741.65	741.59	741.52	741.46	
10	741.47	741.64	741.60	741.95	742.04	742.39	741.99	741.77	741.65	741.59	741.52	741.46	
11	741.47	741.63	741.59	741.76	742.10	742.29	741.97	741.76	741.65	741.59	741.56	741.46	
12	741.46	741.62	741.67	741.68	742.34	742.19	741.93	741.76	741.65	741.59	741.63	741.45	
13	741.46	741.60	741.63	741.63	742.36	742.24	741.90	741.75	741.64	741.59	741.56	741.46	
14	741.44	741.59	741.72	741.63	742.36	742.44	741.87	741.74	741.64	741.58	741.51	741.46	
15	741.45	741.58	741.73	741.62	742.16	742.65	741.85	741.74	741.64	741.58	741.51	741.47	
16	741.45	741.69	741.67	741.61	742.07	742.34	741.84	741.74	741.63	741.59	741.51	741.47	
17	741.45	741.68	741.67	741.60	741.97	742.83	741.83	741.73	741.64	741.59	741.51	741.42	
18	741.44	741.65	741.56	741.64	742.07	742.41	741.83	741.73	741.64	741.57	741.50	741.56	
19	741.45	741.63	741.98	741.75	742.03	742.40	741.81	741.72	741.63	741.57	741.50	741.53	
20	741.46	741.63	741.76	741.67	742.07	742.23	741.81	741.72	741.63	741.57	741.51	741.51	
21	741.46	741.62	741.69	741.65	742.09	742.14	741.83	741.72	741.63	741.57	741.51	741.51	
22	741.46	741.60	741.65	741.65	742.09	742.51	741.82	741.74	741.63	741.57	741.51	741.49	
23	741.62	741.57	741.63	741.64	742.02	742.33	741.89	741.71	741.62	741.56	741.51	741.48	
24	741.51	741.63	741.62	741.68	742.10	742.12	741.86	741.71	741.62	741.55	741.51	741.49	
25	742.05	741.58	741.60	741.68	741.97	742.05	742.27	741.71	741.62	741.55	741.50	741.49	
26	741.54	741.57	741.58	741.67	741.93	742.00	741.88	741.71	741.62	741.54	741.45	741.47	
27	741.51	741.56	741.58	742.01	741.94	741.97	741.90	741.69	741.62	741.53	741.46	741.47	
28	742.18	741.54	741.57	742.04	742.23	742.31	741.96	741.68	741.62	741.53	741.50	741.47	
29	741.68	741.52	741.58	741.84	741.98	742.12	741.88	741.68	741.61	741.53		741.48	
30	741.85	741.55	741.59	741.88	741.90	742.00	741.86	741.67	741.61	741.53		741.47	
31		741.58		741.80	741.92		741.85		741.61	741.53		741.47	
Mean	741.54	741.70	741.64	741.69	742.08	742.34	741.96	741.76	741.64	741.57	741.52	741.48	
Max	742.18	743.04	741.98	742.04	742.36	743.59	742.32	741.94	741.68	741.61	741.63	741.56	743.59
Min	741.44	741.52	741.54	741.56	741.84	741.87	741.81	741.67	741.61	741.53	741.45	741.42	741.42

Annual Max Momentary Gage Height 744.68 m. (MSL.) , at 03.00 Hours , on Sep 6, 2008

Zero Gage at Bottom Elevation 740.41 m. (MSL.) , River Bed 740.90 m. (MSL.)

Left Bank Elevation 745.47 m. (MSL.) ,

Right Bank Elevation 745.45 m. (MSL.) , Drainage Are 243 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.58	2.80	1.34	1.34	4.00	8.72	10.20	3.88	2.30	1.60	0.86	0.62		
2	0.66	10.20	1.02	1.26	11.20	5.88	11.60	4.88	2.10	1.50	0.86	0.66		
3	0.66	3.10	1.70	1.26	10.80	5.38	8.56	5.25	2.20	1.42	0.94	0.62		
4	0.66	30.08	1.42	1.26	7.28	4.38	7.28	4.13	2.20	1.42	0.86	0.58		
5	0.62	4.50	1.90	1.26	5.63	5.88	7.60	4.00	2.20	1.42	0.86	0.58		
6	0.62	2.80	2.10	1.26	5.13	50.00	6.96	3.88	2.10	1.42	0.86	0.54		
7	0.66	2.30	2.20	1.18	4.75	30.72	7.60	4.00	2.10	1.42	0.86	0.54		
8	0.66	2.10	2.10	1.50	12.00	26.48	6.48	3.63	2.00	1.42	0.86	0.58		
9	0.66	2.90	1.70	4.13	8.24	17.57	5.75	3.40	2.00	1.42	0.86	0.54		
10	0.58	1.90	1.50	5.38	6.64	13.00	5.88	3.20	2.00	1.42	0.86	0.54		
11	0.58	1.80	1.42	3.10	7.60	11.00	5.63	3.10	2.00	1.42	1.18	0.54		
12	0.54	1.70	2.20	2.30	12.00	9.04	5.13	3.10	2.00	1.42	1.80	0.50		
13	0.54	1.50	1.80	1.80	12.40	10.00	4.75	3.00	1.90	1.42	1.18	0.54		
14	0.46	1.42	2.70	1.80	12.40	14.12	4.38	2.90	1.90	1.34	0.78	0.54		
15	0.50	1.34	2.80	1.70	8.56	19.10	4.13	2.90	1.90	1.34	0.78	0.58		
16	0.50	2.40	2.20	1.60	7.12	12.00	4.00	2.90	1.80	1.42	0.78	0.58		
17	0.50	2.30	2.20	1.50	5.63	23.87	3.88	2.80	1.90	1.42	0.78	0.38		
18	0.46	2.00	1.18	1.90	7.12	13.43	3.88	2.80	1.90	1.26	0.70	1.18		
19	0.50	1.80	5.75	3.00	6.48	13.20	3.63	2.70	1.80	1.26	0.70	0.94		
20	0.54	1.80	3.10	2.20	7.12	9.80	3.63	2.70	1.80	1.26	0.78	0.78		
21	0.54	1.70	2.40	2.00	7.44	8.24	3.88	2.70	1.80	1.26	0.78	0.78		
22	0.54	1.50	2.00	2.00	7.44	15.73	3.75	2.90	1.80	1.26	0.78	0.66		
23	1.70	1.26	1.80	1.90	6.32	11.80	4.63	2.60	1.70	1.18	0.78	0.62		
24	0.78	1.80	1.70	2.30	7.60	7.92	4.25	2.60	1.70	1.10	0.78	0.66		
25	6.80	1.34	1.50	2.30	5.63	6.80	10.60	2.60	1.70	1.10	0.70	0.66		
26	1.02	1.26	1.34	2.20	5.13	6.00	4.50	2.60	1.70	1.02	0.50	0.58		
27	0.78	1.18	1.34	6.16	5.25	5.63	4.75	2.40	1.70	0.94	0.54	0.58		
28	8.88	1.02	1.26	6.64	9.80	11.40	5.50	2.30	1.70	0.94	0.70	0.58		
29	2.30	0.86	1.34	4.00	5.75	7.92	4.50	2.30	1.60	0.94		0.62		
30	4.13	1.10	1.42	4.50	4.75	6.00	4.25	2.20	1.60	0.94		0.58		
31		1.34		3.50	5.00		4.13		1.60	0.94		0.58		
Total	38.95	95.10	58.43	78.23	232.21	391.01	175.69	94.35	58.70	39.64	23.70	19.26	1305.27	CMSDAY
Mean	1.30	3.07	1.95	2.52	7.49	13.03	5.67	3.14	1.89	1.28	0.85	0.62	3.58	CMS
Max	8.88	30.08	5.75	6.64	12.40	50.00	11.60	5.25	2.30	1.60	1.80	1.18	50.00	CMS
Min	0.46	0.86	1.02	1.18	4.00	4.38	3.63	2.20	1.60	0.94	0.50	0.38	0.38	CMS
Runoff	3.37	8.22	5.05	6.76	20.06	33.78	15.18	8.15	5.07	3.42	2.05	1.66	112.78	MCM

Momentary Peak 101.78 CMS. at 744.68 m. (MSL.) at 3.00 Hours , on Sep 6, 2008

Runoff Yield 14.72 Liters/Second/Square KM. Momentary Peak Yield 418.85 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1995 to date
Rating Operation	
Period of Rating	1995 to date
Rated by Float	-
Rated by Current Meter	1995 to date
Stability of Channel Regimes	Rather unstable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. 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 28 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

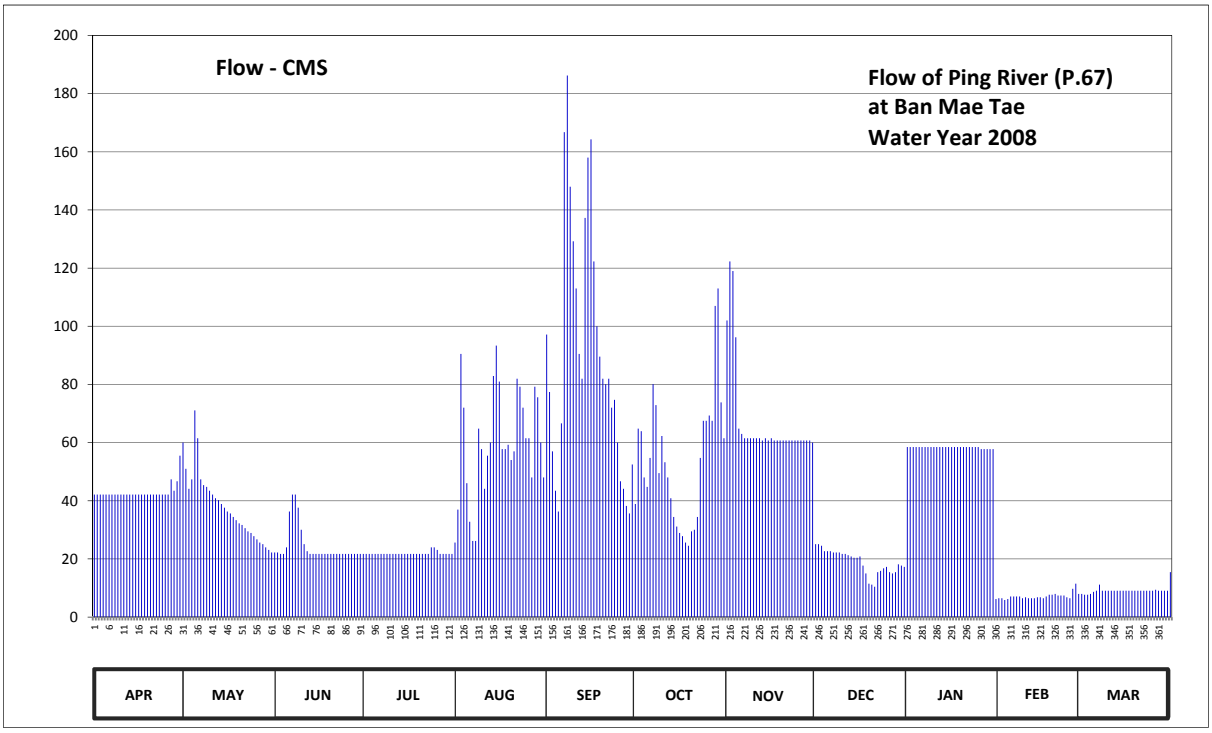
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	316.71	316.96	316.36	316.35	316.43	317.37	316.66	317.42	316.42	316.94	315.95	316.00	
2	316.71	316.84	316.36	316.35	316.63	317.16	317.02	317.62	316.42	316.94	315.95	315.99	
3	316.71	316.74	316.35	316.35	317.30	316.92	317.01	317.59	316.41	316.94	315.93	315.99	
4	316.71	316.79	316.35	316.35	317.10	316.73	316.80	317.36	316.37	316.94	315.94	316.00	
5	316.71	317.09	316.40	316.35	316.77	316.62	316.75	317.02	316.37	316.94	315.97	316.02	
6	316.71	316.98	316.62	316.35	316.56	317.04	316.89	317.00	316.37	316.94	315.97	316.03	
7	316.71	316.79	316.71	316.35	316.44	317.99	317.19	316.98	316.36	316.94	315.97	316.09	
8	316.71	316.76	316.71	316.35	316.44	318.13	317.11	316.98	316.36	316.94	315.97	316.03	
9	316.71	316.75	316.64	316.35	317.02	317.84	316.82	316.98	316.36	316.94	315.95	316.03	
10	316.71	316.73	316.51	316.35	316.93	317.68	316.99	316.98	316.35	316.94	315.96	316.03	
11	316.71	316.71	316.42	316.35	316.74	317.53	316.87	316.98	316.35	316.94	315.95	316.03	
12	316.71	316.69	316.37	316.35	316.90	317.30	316.80	316.98	316.34	316.94	315.95	316.03	
13	316.71	316.68	316.35	316.35	316.96	317.21	316.69	316.97	316.33	316.94	315.95	316.03	
14	316.71	316.66	316.35	316.35	317.22	317.75	316.59	316.98	316.32	316.94	315.96	316.03	
15	316.71	316.64	316.35	316.35	317.33	317.92	316.53	316.97	316.32	316.94	315.96	316.03	
16	316.71	316.62	316.35	316.35	317.20	317.97	316.49	316.98	316.33	316.94	315.95	316.03	
17	316.71	316.61	316.35	316.35	316.93	317.62	316.47	316.97	316.26	316.94	315.97	316.03	
18	316.71	316.59	316.35	316.35	316.93	317.40	316.43	316.97	316.20	316.94	315.99	316.03	
19	316.71	316.57	316.35	316.35	316.95	317.29	316.41	316.97	316.10	316.94	315.99	316.03	
20	316.71	316.55	316.35	316.35	316.88	317.21	316.50	316.97	316.09	316.94	316.00	316.03	
21	316.71	316.54	316.35	316.35	316.92	317.19	316.51	316.97	316.07	316.94	315.98	316.03	
22	316.71	316.52	316.35	316.35	317.21	317.21	316.59	316.97	316.21	316.94	315.98	316.03	
23	316.71	316.50	316.35	316.35	317.18	317.10	316.89	316.97	316.22	316.94	315.98	316.03	
24	316.71	316.49	316.35	316.40	317.10	317.13	317.05	316.97	316.24	316.94	315.96	316.03	
25	316.71	316.47	316.35	316.40	316.98	316.96	317.05	316.97	316.25	316.94	315.95	316.03	
26	316.71	316.45	316.35	316.38	316.98	316.78	317.07	316.97	316.21	316.93	316.05	316.04	
27	316.79	316.43	316.35	316.35	316.80	316.74	317.05	316.97	316.20	316.93	316.10	316.03	
28	316.73	316.42	316.35	316.35	317.18	316.65	317.47	316.97	316.21	316.93	316.00	316.03	
29	316.78	316.40	316.35	316.35	317.14	316.61	317.53	316.97	316.27	316.93		316.03	
30	316.90	316.38	316.35	316.35	316.96	316.86	317.12	316.96	316.26	316.93		316.03	
31		316.36		316.35	316.80		316.98		316.25	315.94		316.21	
Mean	316.72	316.64	316.40	316.35	316.93	317.26	316.85	317.05	316.28	316.91	315.97	316.03	
Max	316.90	317.09	316.71	316.40	317.33	318.13	317.53	317.62	316.42	316.94	316.10	316.21	318.13
Min	316.71	316.36	316.35	316.35	316.43	316.61	316.41	316.96	316.07	315.94	315.93	315.99	315.93

Annual Max Momentary Gage Height 318.41 m. (MSL.) , at 22.00 Hours , on Sep 7, 2008

Zero Gage at Bottom Elevation 315.93 m. (MSL.) , River Bed 314.87 m. (MSL.)

Left Bank Elevation 326.32 m. (MSL.) ,

Right Bank Elevation 326.19 m. (MSL.) , Drainage Are 5,323 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	42.15	60.00	22.20	21.75	25.65	97.15	38.90	102.00	25.10	58.50	6.50	8.00		
2	42.15	51.00	22.20	21.75	36.95	77.40	64.80	122.30	25.10	58.50	6.50	7.70		
3	42.15	44.10	21.75	21.75	90.50	57.00	63.90	119.00	24.55	58.50	5.90	7.70		
4	42.15	47.35	21.75	21.75	72.00	43.45	48.00	96.20	22.65	58.50	6.20	8.00		
5	42.15	71.10	24.00	21.75	46.05	36.30	44.75	64.80	22.65	58.50	7.10	8.70		
6	42.15	61.50	36.30	21.75	32.80	66.60	54.75	63.00	22.65	58.50	7.10	9.05		
7	42.15	47.35	42.15	21.75	26.20	166.75	80.10	61.50	22.20	58.50	7.10	11.15		
8	42.15	45.40	42.15	21.75	26.20	186.20	72.90	61.50	22.20	58.50	7.10	9.05		
9	42.15	44.75	37.60	21.75	64.80	148.00	49.50	61.50	22.20	58.50	6.50	9.05		
10	42.15	43.45	30.05	21.75	57.75	129.20	62.25	61.50	21.75	58.50	6.80	9.05		
11	42.15	42.15	25.10	21.75	44.10	113.00	53.25	61.50	21.75	58.50	6.50	9.05		
12	42.15	40.85	22.65	21.75	55.50	90.50	48.00	61.50	21.30	58.50	6.50	9.05		
13	42.15	40.20	21.75	21.75	60.00	81.95	40.85	60.75	20.85	58.50	6.50	9.05		
14	42.15	38.90	21.75	21.75	82.90	137.25	34.45	61.50	20.40	58.50	6.80	9.05		
15	42.15	37.60	21.75	21.75	93.35	158.00	31.15	60.75	20.40	58.50	6.80	9.05		
16	42.15	36.30	21.75	21.75	81.00	164.25	28.95	61.50	20.85	58.50	6.50	9.05		
17	42.15	35.65	21.75	21.75	57.75	122.30	27.85	60.75	17.70	58.50	7.10	9.05		
18	42.15	34.45	21.75	21.75	57.75	100.00	25.65	60.75	15.00	58.50	7.70	9.05		
19	42.15	33.35	21.75	21.75	59.25	89.55	24.55	60.75	11.50	58.50	7.70	9.05		
20	42.15	32.25	21.75	21.75	54.00	81.95	29.50	60.75	11.15	58.50	8.00	9.05		
21	42.15	31.70	21.75	21.75	57.00	80.10	30.05	60.75	10.45	58.50	7.40	9.05		
22	42.15	30.60	21.75	21.75	81.95	81.95	34.45	60.75	15.45	58.50	7.40	9.05		
23	42.15	29.50	21.75	21.75	79.20	72.00	54.75	60.75	15.90	58.50	7.40	9.05		
24	42.15	28.95	21.75	24.00	72.00	74.70	67.50	60.75	16.80	58.50	6.80	9.05		
25	42.15	27.85	21.75	24.00	61.50	60.00	67.50	60.75	17.25	58.50	6.50	9.05		
26	42.15	26.75	21.75	23.10	61.50	46.70	69.30	60.75	15.45	57.75	9.75	9.40		
27	47.35	25.65	21.75	21.75	48.00	44.10	67.50	60.75	15.00	57.75	11.50	9.05		
28	43.45	25.10	21.75	21.75	79.20	38.25	107.00	60.75	15.45	57.75	8.00	9.05		
29	46.70	24.00	21.75	21.75	75.60	35.65	113.00	60.75	18.15	57.75		9.05		
30	55.50	23.10	21.75	21.75	60.00	52.50	73.80	60.00	17.70	57.75		9.05		
31		22.20		21.75	48.00		61.50		17.25	6.20		15.45		
Total	1288.90	1183.10	739.40	680.10	1848.45	2732.75	1670.40	2030.55	586.80	1757.45	201.65	284.25	15003.80	CMSDAY
Mean	42.96	38.16	24.65	21.94	59.63	91.09	53.88	67.69	18.93	56.69	7.20	9.17	41.11	CMS
Max	55.50	71.10	42.15	24.00	93.35	186.20	113.00	122.30	25.10	58.50	11.50	15.45	186.20	CMS
Min	42.15	22.20	21.75	21.75	25.65	35.65	24.55	60.00	10.45	6.20	5.90	7.70	5.90	CMS
Runoff	111.36	102.22	63.88	58.76	159.71	236.11	144.32	175.44	50.70	151.84	17.42	24.56	1296.33	MCM

Momentary Peak 225.55 CMS. at 318.41 m. (MSL.) at 22.00 Hours , on Sep 7, 2008

Runoff Yield 7.72 Liters/Second/Square KM. Momentary Peak Yield 42.37 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

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

Lat 18 - 32 - 13 N Long 98 - 51 - 45 E

Location : on left bank at the bridge on highway.

Ban Klang **Amphoe** San Pa Tong **Changwat** Chiang Mai

Drainge Area	1,758 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+284.260 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 3 meters from the top staff gage. **Elevation** +290.660 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 mean of 5 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. 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 21 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

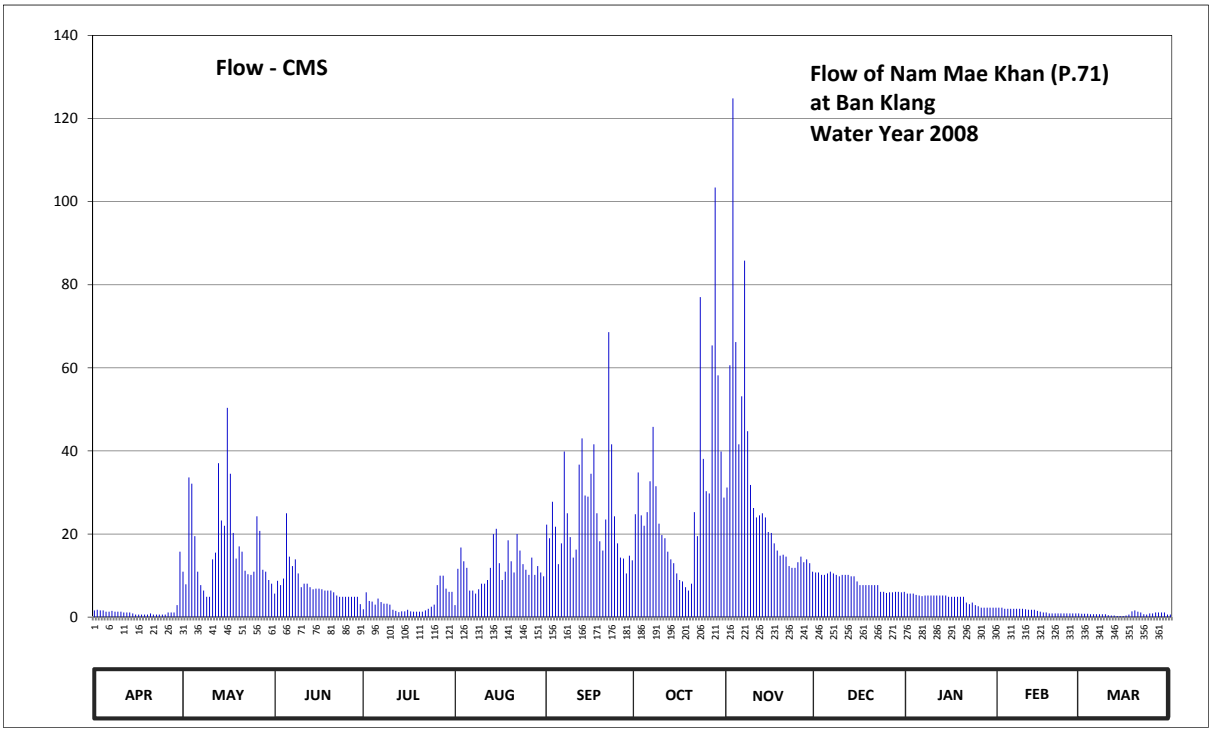
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	284.61	285.22	284.91	284.63	284.71	285.69	285.79	286.04	285.21	284.91	284.66	284.53	
2	284.62	285.05	285.10	284.93	285.25	285.56	286.16	286.89	285.21	284.91	284.66	284.53	
3	284.61	286.12	285.04	284.79	285.47	285.91	285.78	288.38	285.18	284.91	284.64	284.53	
4	284.61	286.07	285.13	284.78	285.33	285.67	285.68	287.03	285.18	284.89	284.64	284.52	
5	284.58	285.58	285.80	284.72	285.26	285.30	285.81	286.36	285.20	284.88	284.64	284.52	
6	284.58	285.22	285.38	284.83	284.96	285.51	286.09	286.69	285.22	284.87	284.64	284.52	
7	284.60	285.04	285.28	284.77	284.96	286.31	286.48	287.52	285.20	284.88	284.64	284.52	
8	284.58	284.96	285.35	284.74	284.91	285.80	286.05	286.45	285.18	284.88	284.64	284.52	
9	284.58	284.86	285.20	284.74	284.98	285.57	285.70	286.06	285.16	284.88	284.64	284.52	
10	284.58	284.86	285.01	284.72	285.06	285.37	285.59	285.85	285.18	284.88	284.63	284.48	
11	284.56	285.35	285.06	284.62	285.06	285.45	285.56	285.76	285.18	284.88	284.62	284.46	
12	284.56	285.42	285.06	284.60	285.11	286.22	285.43	285.78	285.18	284.88	284.62	284.46	
13	284.56	286.23	285.01	284.57	285.26	286.40	285.35	285.80	285.16	284.88	284.62	284.41	
14	284.54	285.73	284.98	284.59	285.60	285.97	285.31	285.76	285.16	284.88	284.60	284.41	
15	284.51	285.68	284.99	284.59	285.65	285.96	285.20	285.62	285.09	284.86	284.58	284.41	
16	284.51	286.61	284.99	284.62	285.31	286.15	285.11	285.61	285.04	284.86	284.56	284.46	
17	284.51	286.15	284.98	284.59	285.11	286.36	285.09	285.51	285.04	284.86	284.56	284.51	
18	284.51	285.61	284.96	284.58	285.22	285.80	285.01	285.44	285.04	284.86	284.54	284.59	
19	284.51	285.36	284.96	284.58	285.54	285.53	284.96	285.39	285.04	284.86	284.54	284.61	
20	284.54	285.48	284.96	284.58	285.33	285.44	285.06	285.40	285.04	284.86	284.54	284.58	
21	284.51	285.43	284.93	284.58	285.21	285.74	285.81	285.38	285.04	284.76	284.54	284.56	
22	284.51	285.23	284.88	284.61	285.60	287.09	285.58	285.28	285.04	284.73	284.54	284.52	
23	284.51	285.19	284.86	284.64	285.44	286.36	287.30	285.26	284.94	284.76	284.54	284.51	
24	284.51	285.18	284.86	284.68	285.30	285.77	286.26	285.26	284.94	284.71	284.54	284.54	
25	284.51	285.22	284.86	284.72	285.24	285.51	286.01	285.32	284.92	284.69	284.54	284.54	
26	284.56	285.77	284.86	285.04	285.18	285.37	285.99	285.38	284.93	284.66	284.54	284.56	
27	284.56	285.63	284.86	285.17	285.37	285.36	287.01	285.32	284.93	284.66	284.54	284.56	
28	284.56	285.24	284.86	285.17	285.18	285.20	287.92	285.35	284.94	284.66	284.54	284.56	
29	284.71	285.22	284.86	284.99	285.28	285.39	286.83	285.31	284.94	284.66		284.56	
30	285.43	285.11	284.73	284.94	285.21	285.34	286.31	285.22	284.93	284.66		284.51	
31		285.06		284.94	285.16		285.95		284.94	284.66		284.51	
Mean	284.59	285.45	285.02	284.74	285.23	285.77	285.88	285.88	285.08	284.81	284.59	284.52	
Max	285.43	286.61	285.80	285.17	285.65	287.09	287.92	288.38	285.22	284.91	284.66	284.61	288.38
Min	284.51	284.86	284.73	284.57	284.71	285.20	284.96	285.22	284.92	284.66	284.54	284.41	284.41

Annual Max Momentary Gage Height 289.11 m. (MSL.) , at 22.00 Hours , on Nov 3, 2008

Zero Gage at Bottom Elevation 284.26 m. (MSL.) , River Bed 282.71 m. (MSL.)

Left Bank Elevation 290.75 m. (MSL.) ,

Right Bank Elevation 290.74 m. (MSL.) , Drainage Are 1,758 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.63	10.95	5.65	1.88	2.88	22.25	24.75	31.20	10.73	5.65	2.25	0.80		
2	1.75	7.88	8.75	5.95	11.63	19.00	34.80	60.60	10.73	5.65	2.25	0.80		
3	1.63	33.60	7.70	3.88	16.75	27.75	24.50	124.86	10.15	5.65	2.00	0.80		
4	1.63	32.10	9.28	3.75	13.43	21.75	22.00	66.20	10.15	5.35	2.00	0.70		
5	1.30	19.50	25.00	3.00	11.85	12.75	25.25	41.60	10.50	5.20	2.00	0.70		
6	1.30	10.95	14.55	4.45	6.40	17.75	32.70	53.15	10.95	5.05	2.00	0.70		
7	1.50	7.70	12.30	3.63	6.40	39.85	45.80	85.80	10.50	5.20	2.00	0.70		
8	1.30	6.40	13.88	3.25	5.65	25.00	31.50	44.75	10.15	5.20	2.00	0.70		
9	1.30	4.90	10.50	3.25	6.70	19.25	22.50	31.80	9.80	5.20	2.00	0.70		
10	1.30	4.90	7.18	3.00	8.05	14.33	19.75	26.25	10.15	5.20	1.88	0.45		
11	1.10	13.88	8.05	1.75	8.05	16.25	19.00	24.00	10.15	5.20	1.75	0.40		
12	1.10	15.50	8.05	1.50	8.93	36.70	15.75	24.50	10.15	5.20	1.75	0.40		
13	1.10	37.05	7.18	1.20	11.85	43.00	13.88	25.00	9.80	5.20	1.75	0.28		
14	0.90	23.25	6.70	1.40	20.00	29.25	12.98	24.00	9.80	5.20	1.50	0.28		
15	0.60	22.00	6.85	1.40	21.25	29.00	10.50	20.50	8.58	4.90	1.30	0.28		
16	0.60	50.35	6.85	1.75	12.98	34.50	8.93	20.25	7.70	4.90	1.10	0.40		
17	0.60	34.50	6.70	1.40	8.93	41.60	8.58	17.75	7.70	4.90	1.10	0.60		
18	0.60	20.25	6.40	1.30	10.95	25.00	7.18	16.00	7.70	4.90	0.90	1.40		
19	0.60	14.10	6.40	1.30	18.50	18.25	6.40	14.78	7.70	4.90	0.90	1.63		
20	0.90	17.00	6.40	1.30	13.43	16.00	8.05	15.00	7.70	4.90	0.90	1.30		
21	0.60	15.75	5.95	1.30	10.73	23.50	25.25	14.55	7.70	3.50	0.90	1.10		
22	0.60	11.18	5.20	1.63	20.00	68.60	19.50	12.30	7.70	3.13	0.90	0.70		
23	0.60	10.33	4.90	2.00	16.00	41.60	77.00	11.85	6.10	3.50	0.90	0.60		
24	0.60	10.15	4.90	2.50	12.75	24.25	38.10	11.85	6.10	2.88	0.90	0.90		
25	0.60	10.95	4.90	3.00	11.40	17.75	30.30	13.20	5.80	2.63	0.90	0.90		
26	1.10	24.25	4.90	7.70	10.15	14.33	29.75	14.55	5.95	2.25	0.90	1.10		
27	1.10	20.75	4.90	9.98	14.33	14.10	65.40	13.20	5.95	2.25	0.90	1.10		
28	1.10	11.40	4.90	9.98	10.15	10.50	103.40	13.88	6.10	2.25	0.90	1.10		
29	2.88	10.95	4.90	6.85	12.30	14.78	58.20	12.98	6.10	2.25		1.10		
30	15.75	8.93	3.13	6.10	10.73	13.65	39.85	10.95	5.95	2.25		0.60		
31		8.05		6.10	9.80		28.75		6.10	2.25		0.60		
Total	47.67	529.45	232.95	107.48	362.95	752.29	910.30	897.30	260.34	132.69	40.53	23.82	4297.77	CMSDAY
Mean	1.59	17.08	7.76	3.47	11.71	25.08	29.36	29.91	8.40	4.28	1.45	0.77	11.77	CMS
Max	15.75	50.35	25.00	9.98	21.25	68.60	103.40	124.86	10.95	5.65	2.25	1.63	124.86	CMS
Min	0.60	4.90	3.13	1.20	2.88	10.50	6.40	10.95	5.80	2.25	0.90	0.28	0.28	CMS
Runoff	4.12	45.74	20.13	9.29	31.36	65.00	78.65	77.53	22.49	11.46	3.50	2.06	371.33	MCM

Momentary Peak 159.50 CMS. at 289.11 m. (MSL.) at 22.00 Hours , on Nov 3, 2008

Runoff Yield 6.70 Liters/Second/Square KM. Momentary Peak Yield 90.73 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

Ping River at Ban Sop Soi , Chiang Mai (P.73)

Lat 18 - 17 - 25 N Long 98 - 39 - 01 E

Location : on left bank at Sop Soi Phatana Bridge.

Ban Sop Soi **Amphoe** Chom Thong **Changwat** Chiang Mai

Drainge Area	14,814 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+261.750 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 15 meters from the abutment of the bridge. **Elevation** +267.505 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1997 to date
Rating Operation	
Period of Rating	1997 to date
Rated by Float	-
Rated by Current Meter	1998 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. No gage height in the drought period. Stage-discharge relation defined by 21 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

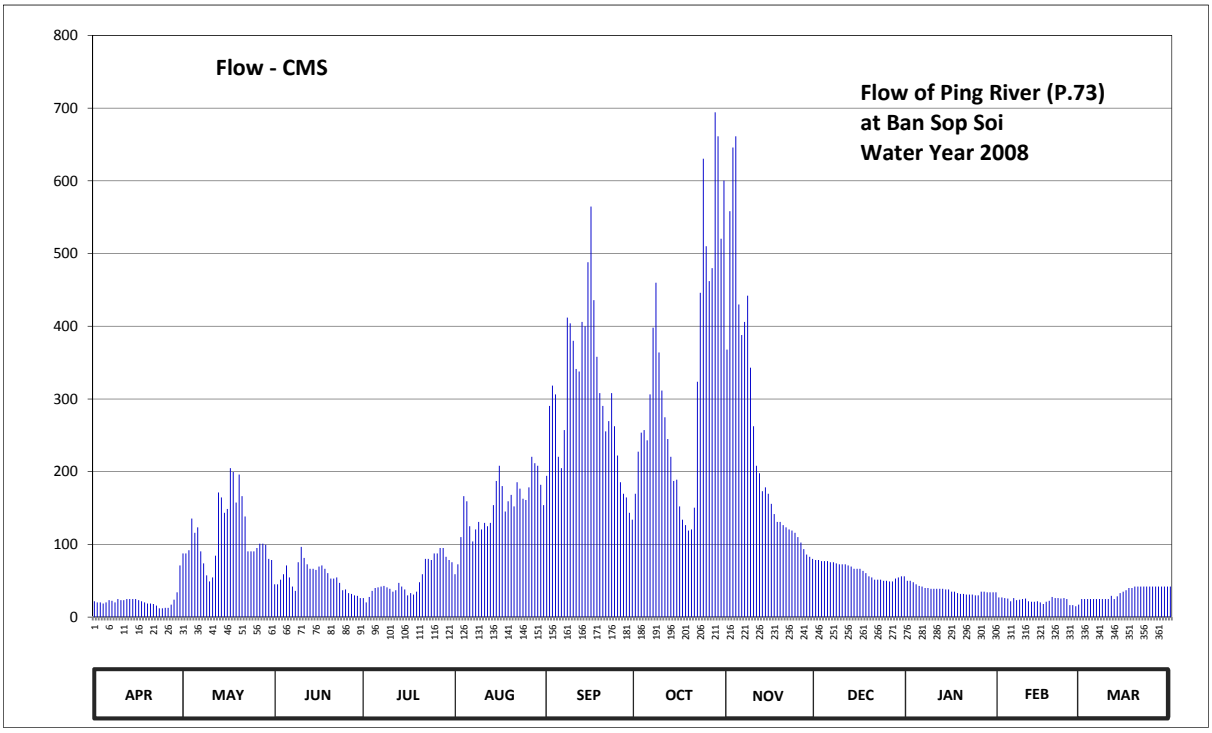
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	261.09	261.65	261.35	261.15	261.46	262.31	262.17	263.29	261.59	261.40	261.16	261.13	
2	261.07	261.65	261.35	261.07	261.55	262.86	262.50	264.23	261.59	261.40	261.16	261.13	
3	261.07	261.68	261.41	261.17	261.80	263.02	262.65	264.64	261.58	261.38	261.15	261.13	
4	261.05	261.97	261.46	261.26	262.15	262.95	262.67	264.71	261.58	261.35	261.14	261.13	
5	261.07	261.84	261.54	261.30	262.11	262.46	262.59	263.60	261.58	261.33	261.09	261.13	
6	261.11	261.89	261.43	261.31	261.90	262.37	262.95	263.39	261.57	261.32	261.15	261.13	
7	261.10	261.67	261.32	261.32	261.76	262.67	263.44	263.48	261.57	261.30	261.11	261.13	
8	261.07	261.56	261.26	261.33	261.87	263.51	263.75	263.66	261.56	261.30	261.12	261.13	
9	261.13	261.45	261.57	261.31	261.94	263.47	263.27	263.16	261.55	261.29	261.13	261.13	
10	261.11	261.39	261.71	261.29	261.87	263.35	262.98	262.70	261.55	261.29	261.14	261.13	
11	261.11	261.43	261.61	261.25	261.93	263.15	262.77	262.39	261.55	261.29	261.09	261.19	
12	261.13	261.63	261.55	261.27	261.90	263.13	262.60	262.33	261.54	261.29	261.08	261.13	
13	261.13	262.18	261.51	261.37	261.93	263.48	262.46	262.19	261.53	261.29	261.08	261.18	
14	261.13	262.14	261.51	261.32	262.08	263.45	262.27	262.22	261.51	261.28	261.09	261.23	
15	261.13	262.02	261.50	261.28	262.27	263.89	262.28	262.17	261.51	261.28	261.07	261.25	
16	261.11	262.05	261.53	261.20	262.39	264.26	262.07	262.09	261.51	261.25	261.04	261.27	
17	261.09	262.37	261.54	261.23	262.23	263.63	261.96	262.01	261.49	261.25	261.08	261.30	
18	261.07	262.34	261.51	261.21	262.03	263.24	261.91	261.94	261.47	261.23	261.10	261.30	
19	261.05	262.10	261.47	261.25	262.11	262.96	261.86	261.94	261.44	261.22	261.17	261.32	
20	261.05	262.32	261.42	261.38	262.16	262.86	261.87	261.91	261.43	261.22	261.15	261.32	
21	261.04	262.15	261.42	261.46	262.07	262.66	262.06	261.89	261.41	261.21	261.15	261.32	
22	261.01	261.99	261.43	261.60	262.26	262.74	263.05	261.87	261.41	261.21	261.14	261.32	
23	260.96	261.67	261.37	261.60	262.21	262.96	263.68	261.86	261.41	261.21	261.15	261.32	
24	260.96	261.67	261.27	261.59	262.13	262.70	264.57	261.84	261.40	261.20	261.13	261.32	
25	260.97	261.67	261.28	261.65	262.12	262.47	264.00	261.80	261.40	261.20	261.02	261.32	
26	260.97	261.70	261.23	261.65	262.22	262.26	263.76	261.75	261.39	261.25	261.02	261.32	
27	261.03	261.74	261.22	261.70	262.46	262.17	263.85	261.69	261.39	261.25	261.00	261.32	
28	261.12	261.74	261.20	261.70	262.41	262.14	264.86	261.64	261.42	261.24	261.03	261.32	
29	261.24	261.73	261.19	261.62	262.39	262.02	264.71	261.62	261.43	261.24		261.32	
30	261.54	261.60	261.15	261.59	262.24	261.96	264.05	261.60	261.44	261.24		261.32	
31		261.59		261.57	262.08		264.43		261.44	261.24		261.32	
Mean	261.09	261.83	261.41	261.39	262.07	262.90	263.03	262.52	261.49	261.27	261.10	261.24	
Max	261.54	262.37	261.71	261.70	262.46	264.26	264.86	264.71	261.59	261.40	261.17	261.32	264.86
Min	260.96	261.39	261.15	261.07	261.46	261.96	261.86	261.60	261.39	261.20	261.00	261.13	260.96

Annual Max Momentary Gage Height 264.99 m. (MSL.) , at 18.00 Hours , on Oct 28, 2008

Zero Gage at Bottom Elevation 261.75 m. (MSL.) , River Bed 260.37 m. (MSL.)

Left Bank Elevation 267.71 m. (MSL.) ,

Right Bank Elevation 268.01 m. (MSL.) , Drainage Are 14,814 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	21.75	87.50	45.00	26.25	59.00	194.25	169.75	368.00	78.50	50.00	27.00	24.75		
2	20.25	87.50	45.00	20.25	72.50	290.50	227.50	558.30	78.50	50.00	27.00	24.75		
3	20.25	92.00	51.50	27.75	110.00	318.50	253.75	645.80	77.00	48.00	26.25	24.75		
4	18.75	135.50	59.00	36.00	166.25	306.25	257.25	661.20	77.00	45.00	25.50	24.75		
5	20.25	116.00	71.00	40.00	159.25	220.50	243.25	430.00	77.00	43.00	21.75	24.75		
6	23.25	123.50	54.50	41.00	125.00	204.75	306.25	388.00	75.50	42.00	26.25	24.75		
7	22.50	90.50	42.00	42.00	104.00	257.25	398.00	406.00	75.50	40.00	23.25	24.75		
8	20.25	74.00	36.00	43.00	120.50	412.00	460.00	442.00	74.00	40.00	24.00	24.75		
9	24.75	57.50	75.50	41.00	131.00	404.00	364.00	343.00	72.50	39.00	24.75	24.75		
10	23.25	49.00	96.50	39.00	120.50	380.00	311.50	262.50	72.50	39.00	25.50	24.75		
11	23.25	54.50	81.50	35.00	129.50	341.25	274.75	208.25	72.50	39.00	21.75	29.25		
12	24.75	84.50	72.50	37.00	125.00	337.75	245.00	197.75	71.00	39.00	21.00	24.75		
13	24.75	171.50	66.50	47.00	129.50	406.00	220.50	173.25	69.50	39.00	21.00	28.50		
14	24.75	164.50	66.50	42.00	154.00	400.00	187.25	178.50	66.50	38.00	21.75	33.00		
15	24.75	143.50	65.00	38.00	187.25	488.00	189.00	169.75	66.50	38.00	20.25	35.00		
16	23.25	148.75	69.50	30.00	208.25	564.60	152.25	155.75	66.50	35.00	18.00	37.00		
17	21.75	204.75	71.00	33.00	180.25	436.00	134.00	141.75	63.50	35.00	21.00	40.00		
18	20.25	199.50	66.50	31.00	145.25	358.00	126.50	131.00	60.50	33.00	22.50	40.00		
19	18.75	157.50	60.50	35.00	159.25	308.00	119.00	131.00	56.00	32.00	27.75	42.00		
20	18.75	196.00	53.00	48.00	168.00	290.50	120.50	126.50	54.50	32.00	26.25	42.00		
21	18.00	166.25	53.00	59.00	152.25	255.50	150.50	123.50	51.50	31.00	26.25	42.00		
22	15.75	138.50	54.50	80.00	185.50	269.50	323.75	120.50	51.50	31.00	25.50	42.00		
23	12.00	90.50	47.00	80.00	176.75	308.00	446.00	119.00	51.50	31.00	26.25	42.00		
24	12.00	90.50	37.00	78.50	162.75	262.50	630.40	116.00	50.00	30.00	24.75	42.00		
25	12.75	90.50	38.00	87.50	161.00	222.25	510.00	110.00	50.00	30.00	16.50	42.00		
26	12.75	95.00	33.00	87.50	178.50	185.50	462.00	102.50	49.00	35.00	16.50	42.00		
27	17.25	101.00	32.00	95.00	220.50	169.75	480.00	93.50	49.00	35.00	15.00	42.00		
28	24.00	101.00	30.00	95.00	211.75	164.50	694.20	86.00	53.00	34.00	17.25	42.00		
29	34.00	99.50	29.25	83.00	208.25	143.50	661.20	83.00	54.50	34.00		42.00		
30	71.00	80.00	26.25	78.50	182.00	134.00	520.50	80.00	56.00	34.00		42.00		
31		78.50		75.50	154.00		600.30		56.00	34.00		42.00		
Total	669.75	3569.25	1628.50	1631.75	4747.50	9033.10	10238.85	7152.30	1977.00	1155.00	640.50	1061.00	43504.50	CMSDAY
Mean	22.32	115.14	54.28	52.64	153.15	301.10	330.29	238.41	63.77	37.26	22.88	34.23	119.19	CMS
Max	71.00	204.75	96.50	95.00	220.50	564.60	694.20	661.20	78.50	50.00	27.75	42.00	694.20	CMS
Min	12.00	49.00	26.25	20.25	59.00	134.00	119.00	80.00	49.00	30.00	15.00	24.75	12.00	CMS
Runoff	57.87	308.38	140.70	140.98	410.18	780.46	884.64	617.96	170.81	99.79	55.34	91.67	3758.79	MCM

Momentary Peak 722.80 CMS. at 264.99 m. (MSL.) at 18.00 Hours , on Oct 28, 2008

Runoff Yield 8.05 Liters/Second/Square KM. Momentary Peak Yield 48.79 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	3,088 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+337.600 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 3 meters from the top staff gage. **Elevation** +341.805 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1998 to date
Rating Operation	
Period of Rating	1998 to date
Rated by Float	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Fairly stable by some scouring.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair.This station is situated about 3 kilometers downstream from Mae Ngat Dam. Stage-discharge relation defined by 25 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

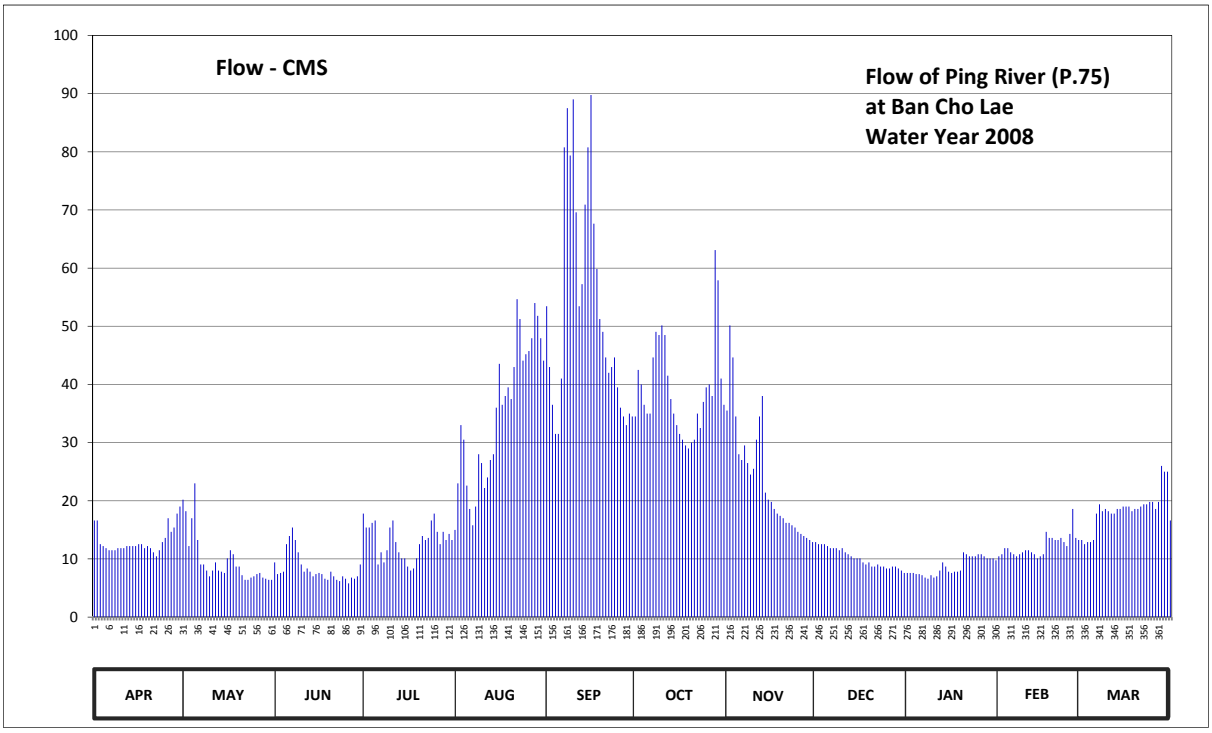
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	338.44	338.53	338.24	338.47	338.40	339.19	338.83	338.85	338.34	338.18	338.27	338.35	
2	338.44	338.48	338.17	338.41	338.60	339.00	338.99	339.13	338.33	338.18	338.28	338.33	
3	338.33	338.32	338.18	338.41	338.80	338.87	338.94	339.03	338.33	338.18	338.31	338.34	
4	338.32	338.45	338.19	338.43	338.75	338.77	338.87	338.83	338.33	338.17	338.31	338.34	
5	338.31	338.60	338.33	338.44	338.59	338.77	338.84	338.70	338.32	338.17	338.29	338.35	
6	338.30	338.35	338.37	338.23	338.49	338.96	338.84	338.68	338.31	338.16	338.28	338.47	
7	338.30	338.23	338.41	338.29	338.42	339.61	339.03	338.73	338.31	338.14	338.27	338.51	
8	338.30	338.23	338.35	338.24	338.50	339.70	339.11	338.67	338.31	338.13	338.28	338.48	
9	338.31	338.20	338.29	338.30	338.70	339.59	339.10	338.63	338.30	338.16	338.29	338.49	
10	338.31	338.15	338.23	338.41	338.67	339.72	339.13	338.65	338.31	338.14	338.30	338.48	
11	338.31	338.20	338.19	338.44	338.58	339.44	339.10	338.75	338.29	338.15	338.30	338.47	
12	338.32	338.24	338.21	338.34	338.62	339.19	338.97	338.83	338.28	338.20	338.29	338.47	
13	338.32	338.20	338.19	338.29	338.68	339.25	338.89	338.90	338.27	338.24	338.28	338.49	
14	338.32	338.19	338.15	338.26	338.70	339.46	338.84	338.56	338.26	338.22	338.26	338.49	
15	338.32	338.18	338.17	338.26	338.86	339.61	338.80	338.53	338.26	338.19	338.27	338.50	
16	338.33	338.26	338.18	338.22	339.01	339.73	338.77	338.52	338.26	338.18	338.28	338.50	
17	338.33	338.30	338.17	338.20	338.87	339.41	338.75	338.49	338.24	338.19	338.39	338.50	
18	338.31	338.28	338.13	338.21	338.90	339.29	338.73	338.47	338.23	338.19	338.36	338.48	
19	338.32	338.22	338.12	338.26	338.93	339.15	338.72	338.46	338.24	338.20	338.36	338.49	
20	338.31	338.22	338.19	338.33	338.89	339.11	338.74	338.45	338.22	338.29	338.35	338.49	
21	338.29	338.16	338.15	338.37	339.00	339.03	338.75	338.43	338.22	338.28	338.35	338.50	
22	338.27	338.12	338.12	338.35	339.21	338.98	338.84	338.43	338.23	338.27	338.36	338.51	
23	338.30	338.12	338.11	338.36	339.15	339.00	338.79	338.42	338.22	338.27	338.34	338.51	
24	338.34	338.14	338.15	338.44	339.02	339.03	338.88	338.41	338.22	338.27	338.32	338.52	
25	338.36	338.15	338.13	338.47	339.04	338.93	338.93	338.39	338.21	338.28	338.38	338.52	
26	338.45	338.17	338.09	338.39	339.05	338.86	338.94	338.38	338.21	338.28	338.49	338.49	
27	338.39	338.18	338.14	338.33	339.09	338.83	338.90	338.37	338.22	338.27	338.36	338.52	
28	338.41	338.14	338.13	338.39	339.20	338.80	339.34	338.36	338.22	338.26	338.35	338.66	
29	338.47	338.13	338.15	338.35	339.16	338.84	339.26	338.35	338.21	338.26		338.64	
30	338.50	338.12	338.23	338.38	339.09	338.83	338.96	338.34	338.20	338.26		338.64	
31		338.12		338.35	339.02		338.87		338.18	338.25		338.44	
Mean	338.34	338.24	338.20	338.34	338.84	339.16	338.92	338.59	338.26	338.21	338.32	338.48	
Max	338.50	338.60	338.41	338.47	339.21	339.73	339.34	339.13	338.34	338.29	338.49	338.66	339.73
Min	338.27	338.12	338.09	338.20	338.40	338.77	338.72	338.34	338.18	338.13	338.26	338.33	338.09

Annual Max Momentary Gage Height 339.82 m. (MSL.) , at 09.00 Hours , on Sep 8, 2008

Zero Gage at Bottom Elevation 337.60 m. (MSL.) , River Bed 336.56 m. (MSL.)

Left Bank Elevation 345.12 m. (MSL.) ,

Right Bank Elevation 345.12 m. (MSL.) , Drainage Are 3,088 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.60	20.20	9.40	17.80	15.00	53.45	34.50	35.50	12.90	7.60	10.45	13.25		
2	16.60	18.20	7.40	15.40	23.00	43.00	42.50	50.15	12.55	7.60	10.80	12.55		
3	12.55	12.20	7.60	15.40	33.00	36.50	40.00	44.65	12.55	7.60	11.85	12.90		
4	12.20	17.00	7.80	16.20	30.50	31.50	36.50	34.50	12.55	7.40	11.85	12.90		
5	11.85	23.00	12.55	16.60	22.60	31.50	35.00	28.00	12.20	7.40	11.15	13.25		
6	11.50	13.25	13.95	9.05	18.60	41.00	35.00	27.00	11.85	7.20	10.80	17.80		
7	11.50	9.05	15.40	11.15	15.80	80.75	44.65	29.50	11.85	6.80	10.45	19.40		
8	11.50	9.05	13.25	9.40	19.00	87.50	49.05	26.50	11.85	6.60	10.80	18.20		
9	11.85	8.00	11.15	11.50	28.00	79.35	48.50	24.50	11.50	7.20	11.15	18.60		
10	11.85	7.00	9.05	15.40	26.50	89.00	50.15	25.50	11.85	6.80	11.50	18.20		
11	11.85	8.00	7.80	16.60	22.20	69.60	48.50	30.50	11.15	7.00	11.50	17.80		
12	12.20	9.40	8.35	12.90	24.00	53.45	41.50	34.50	10.80	8.00	11.15	17.80		
13	12.20	8.00	7.80	11.15	27.00	57.25	37.50	38.00	10.45	9.40	10.80	18.60		
14	12.20	7.80	7.00	10.10	28.00	70.90	35.00	21.40	10.10	8.70	10.10	18.60		
15	12.20	7.60	7.40	10.10	36.00	80.75	33.00	20.20	10.10	7.80	10.45	19.00		
16	12.55	10.10	7.60	8.70	43.55	89.75	31.50	19.80	10.10	7.60	10.80	19.00		
17	12.55	11.50	7.40	8.00	36.50	67.65	30.50	18.60	9.40	7.80	14.65	19.00		
18	11.85	10.80	6.60	8.35	38.00	59.85	29.50	17.80	9.05	7.80	13.60	18.20		
19	12.20	8.70	6.40	10.10	39.50	51.25	29.00	17.40	9.40	8.00	13.60	18.60		
20	11.85	8.70	7.80	12.55	37.50	49.05	30.00	17.00	8.70	11.15	13.25	18.60		
21	11.15	7.20	7.00	13.95	43.00	44.65	30.50	16.20	8.70	10.80	13.25	19.00		
22	10.45	6.40	6.40	13.25	54.65	42.00	35.00	16.20	9.05	10.45	13.60	19.40		
23	11.50	6.40	6.20	13.60	51.25	43.00	32.50	15.80	8.70	10.45	12.90	19.40		
24	12.90	6.80	7.00	16.60	44.10	44.65	37.00	15.40	8.70	10.45	12.20	19.80		
25	13.60	7.00	6.60	17.80	45.20	39.50	39.50	14.65	8.35	10.80	14.30	19.80		
26	17.00	7.40	5.80	14.65	45.75	36.00	40.00	14.30	8.35	10.80	18.60	18.60		
27	14.65	7.60	6.80	12.55	47.95	34.50	38.00	13.95	8.70	10.45	13.60	19.80		
28	15.40	6.80	6.60	14.65	54.00	33.00	63.10	13.60	8.70	10.10	13.25	26.00		
29	17.80	6.60	7.00	13.25	51.80	35.00	57.90	13.25	8.35	10.10		25.00		
30	19.00	6.40	9.05	14.30	47.95	34.50	41.00	12.90	8.00	10.10		25.00		
31		6.40		13.25	44.10		36.50		7.60	9.75		16.60		
Total	393.10	302.55	250.15	404.30	1094.00	1609.85	1212.85	707.25	314.10	269.70	342.40	570.65	7470.90	CMSDAY
Mean	13.10	9.76	8.34	13.04	35.29	53.66	39.12	23.57	10.13	8.70	12.23	18.41	20.47	CMS
Max	19.00	23.00	15.40	17.80	54.65	89.75	63.10	50.15	12.90	11.15	18.60	26.00	89.75	CMS
Min	10.45	6.40	5.80	8.00	15.00	31.50	29.00	12.90	7.60	6.60	10.10	12.55	5.80	CMS
Runoff	33.96	26.14	21.61	34.93	94.52	139.09	104.79	61.11	27.14	23.30	29.58	49.30	645.49	MCM

Momentary Peak 96.60 CMS. at 339.82 m. (MSL.) at 09.00 Hours , on Sep 8, 2008

Runoff Yield 6.63 Liters/Second/Square KM. Momentary Peak Yield 31.28 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

Nam Mae Li at Ban Mae E - Hai , Lamphun (P.76)

Lat 18 - 08 - 23 N Long 98 - 53 - 58 E

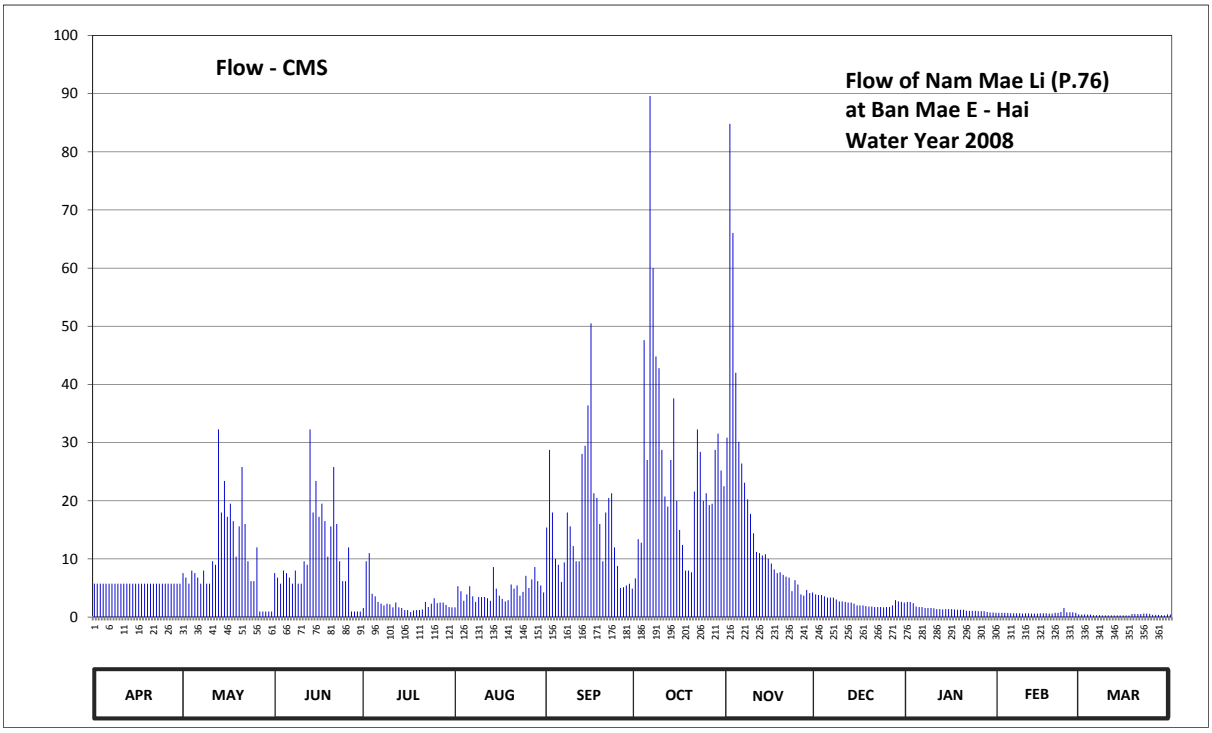
Location : on left bank near the bridge of Li - Ban Mae E - Hai road.

	Ban Mae E - Hai	**Amphoe** Li	**Changwat** Lamphun
Drainge Area	1,544 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+363.617 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 15 meters from the top staff gage.		**Elevation** +370.937 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Float	-		
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 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	364.85	364.97	364.97	364.46	364.48	365.37	364.91	365.91	364.70	364.58	364.30	364.23	
2	364.85	364.92	364.92	365.08	364.82	365.85	365.27	367.01	364.69	364.58	364.30	364.24	
3	364.85	364.85	364.85	365.15	364.75	365.48	365.24	366.71	364.69	364.56	364.30	364.23	
4	364.85	365.00	365.00	364.71	364.60	365.10	366.34	366.20	364.67	364.50	364.29	364.23	
5	364.85	364.97	364.97	364.67	364.70	365.05	365.80	365.89	364.65	364.49	364.28	364.21	
6	364.85	364.92	364.92	364.58	364.82	364.87	367.07	365.78	364.65	364.49	364.28	364.21	
7	364.85	364.85	364.85	364.55	364.67	365.07	366.60	365.67	364.65	364.46	364.28	364.21	
8	364.85	365.00	365.00	364.52	364.58	365.48	366.27	365.57	364.62	364.46	364.28	364.20	
9	364.85	364.85	364.85	364.55	364.66	365.38	366.22	365.47	364.59	364.46	364.27	364.20	
10	364.85	364.85	364.85	364.54	364.66	365.21	365.85	365.32	364.59	364.45	364.28	364.20	
11	364.85	365.08	365.08	364.48	364.66	365.08	365.59	365.16	364.58	364.43	364.28	364.20	
12	364.85	365.05	365.05	364.57	364.64	365.08	365.52	365.15	364.57	364.43	364.27	364.20	
13	364.85	365.95	365.95	364.48	364.60	365.83	365.80	365.13	364.57	364.42	364.27	364.20	
14	364.85	365.48	365.48	364.46	365.03	365.87	366.09	365.14	364.55	364.43	364.27	364.20	
15	364.85	365.68	365.68	364.40	364.79	366.06	365.56	365.10	364.52	364.43	364.28	364.20	
16	364.85	365.45	365.45	364.40	364.68	366.41	365.35	365.06	364.52	364.43	364.28	364.20	
17	364.85	365.54	365.54	364.33	364.63	365.61	365.22	365.01	364.52	364.42	364.28	364.19	
18	364.85	365.42	365.42	364.39	364.59	365.58	365.00	364.97	364.51	364.41	364.27	364.25	
19	364.85	365.12	365.12	364.40	364.61	365.40	365.00	364.98	364.50	364.41	364.27	364.25	
20	364.85	365.38	365.38	364.40	364.84	365.08	364.98	364.95	364.50	364.41	364.30	364.25	
21	364.85	365.76	365.76	364.42	364.79	365.48	365.62	364.93	364.49	364.38	364.30	364.25	
22	364.85	365.40	365.40	364.58	364.83	365.58	365.95	364.92	364.49	364.37	364.33	364.27	
23	364.85	365.08	365.08	364.49	364.68	365.61	365.84	364.75	364.49	364.37	364.46	364.27	
24	364.85	364.88	364.88	364.55	364.74	365.20	365.56	364.89	364.48	364.37	364.32	364.26	
25	364.85	364.88	364.88	364.64	364.94	365.04	365.61	364.84	364.49	364.36	364.32	364.22	
26	364.85	365.20	365.20	364.56	364.80	364.80	365.53	364.70	364.49	364.36	364.32	364.22	
27	364.85	364.35	364.35	364.57	364.90	364.81	365.54	364.68	364.52	364.36	364.30	364.22	
28	364.85	364.35	364.35	364.57	365.03	364.83	365.85	364.77	364.61	364.33	364.24	364.21	
29	364.85	364.35	364.35	364.53	364.88	364.85	365.93	364.72	364.59	364.31		364.20	
30	364.85	364.35	364.35	364.49	364.83	364.79	365.74	364.73	364.58	364.31		364.24	
31		364.35		364.48	364.73		365.65		364.57	364.30		364.23	
Mean	364.85	365.04	365.06	364.55	364.74	365.33	365.69	365.27	364.57	364.42	364.29	364.22	
Max	364.85	365.95	365.95	365.15	365.03	366.41	367.07	367.01	364.70	364.58	364.46	364.27	367.07
Min	364.85	364.35	364.35	364.33	364.48	364.79	364.91	364.68	364.48	364.30	364.24	364.19	364.19

Annual Max Momentary Gage Height	367.19	m. (MSL.) ,	at 06.00 Hours , on Oct 6, 2008		
Zero Gage at Bottom Elevation	363.62	m. (MSL.) ,	River Bed	363.68	m. (MSL.)
Left Bank Elevation	371.47	m. (MSL.) ,			
Right Bank Elevation	371.46	m. (MSL.) ,	Drainage Are	1,544	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.75	7.55	7.55	1.56	1.68	15.40	6.65	30.85	3.90	2.60	0.74	0.43		
2	5.75	6.80	6.80	9.60	5.30	28.75	13.40	84.80	3.79	2.60	0.74	0.47		
3	5.75	5.75	5.75	11.00	4.45	18.00	12.80	66.05	3.79	2.40	0.74	0.43		
4	5.75	8.00	8.00	4.01	2.80	10.00	47.60	42.00	3.57	1.80	0.70	0.43		
5	5.75	7.55	7.55	3.57	3.90	9.00	27.00	30.15	3.35	1.74	0.65	0.34		
6	5.75	6.80	6.80	2.60	5.30	6.05	89.60	26.40	3.35	1.74	0.65	0.34		
7	5.75	5.75	5.75	2.30	3.57	9.40	60.00	23.10	3.35	1.56	0.65	0.34		
8	5.75	8.00	8.00	2.00	2.60	18.00	44.80	20.25	3.02	1.56	0.65	0.29		
9	5.75	5.75	5.75	2.30	3.46	15.60	42.80	17.75	2.70	1.56	0.61	0.29		
10	5.75	5.75	5.75	2.20	3.46	12.20	28.75	14.40	2.70	1.50	0.65	0.29		
11	5.75	9.60	9.60	1.68	3.46	9.60	20.75	11.20	2.60	1.38	0.65	0.29		
12	5.75	9.00	9.00	2.50	3.24	9.60	19.00	11.00	2.50	1.38	0.61	0.29		
13	5.75	32.25	32.25	1.68	2.80	28.05	27.00	10.60	2.50	1.32	0.61	0.29		
14	5.75	18.00	18.00	1.56	8.60	29.45	37.60	10.80	2.30	1.38	0.61	0.29		
15	5.75	23.40	23.40	1.20	4.89	36.40	20.00	10.00	2.00	1.38	0.65	0.29		
16	5.75	17.25	17.25	1.20	3.68	50.50	15.00	9.20	2.00	1.38	0.65	0.29		
17	5.75	19.50	19.50	0.88	3.13	21.30	12.40	8.20	2.00	1.32	0.65	0.28		
18	5.75	16.50	16.50	1.15	2.70	20.50	8.00	7.55	1.90	1.26	0.61	0.52		
19	5.75	10.40	10.40	1.20	2.91	16.00	8.00	7.70	1.80	1.26	0.61	0.52		
20	5.75	15.60	15.60	1.20	5.60	9.60	7.70	7.25	1.80	1.26	0.74	0.52		
21	5.75	25.80	25.80	1.32	4.89	18.00	21.60	6.95	1.74	1.11	0.74	0.52		
22	5.75	16.00	16.00	2.60	5.45	20.50	32.25	6.80	1.74	1.06	0.88	0.61		
23	5.75	9.60	9.60	1.74	3.68	21.30	28.40	4.45	1.74	1.06	1.56	0.61		
24	5.75	6.20	6.20	2.30	4.34	12.00	20.00	6.35	1.68	1.06	0.83	0.56		
25	5.75	6.20	6.20	3.24	7.10	8.80	21.30	5.60	1.74	1.02	0.83	0.38		
26	5.75	12.00	12.00	2.40	5.00	5.00	19.25	3.90	1.74	1.02	0.83	0.38		
27	5.75	0.97	0.97	2.50	6.50	5.15	19.50	3.68	2.00	1.02	0.74	0.38		
28	5.75	0.97	0.97	2.50	8.60	5.45	28.75	4.67	2.91	0.88	0.47	0.34		
29	5.75	0.97	0.97	2.10	6.20	5.75	31.55	4.12	2.70	0.79		0.29		
30	5.75	0.97	0.97	1.74	5.45	4.89	25.20	4.23	2.60	0.79		0.47		
31		0.97		1.68	4.23		22.50		2.50	0.74		0.43		
Total	172.50	319.85	318.88	79.51	138.97	480.24	819.15	500.00	78.01	42.93	20.05	12.20	2982.29	CMSDAY
Mean	5.75	10.32	10.63	2.56	4.48	16.01	26.42	16.67	2.52	1.38	0.72	0.39	8.17	CMS
Max	5.75	32.25	32.25	11.00	8.60	50.50	89.60	84.80	3.90	2.60	1.56	0.61	89.60	CMS
Min	5.75	0.97	0.97	0.88	1.68	4.89	6.65	3.68	1.68	0.74	0.47	0.28	0.28	CMS
Runoff	14.90	27.64	27.55	6.87	12.01	41.49	70.77	43.20	6.74	3.71	1.73	1.05	257.67	MCM

Momentary Peak 99.20 CMS. at 367.19 m. (MSL.) at 06.00 Hours , on Oct 6, 2008

Runoff Yield 5.29 Liters/Second/Square KM. Momentary Peak Yield 64.25 Liters/Second/Square KM.

WATER YEAR : 2008

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.

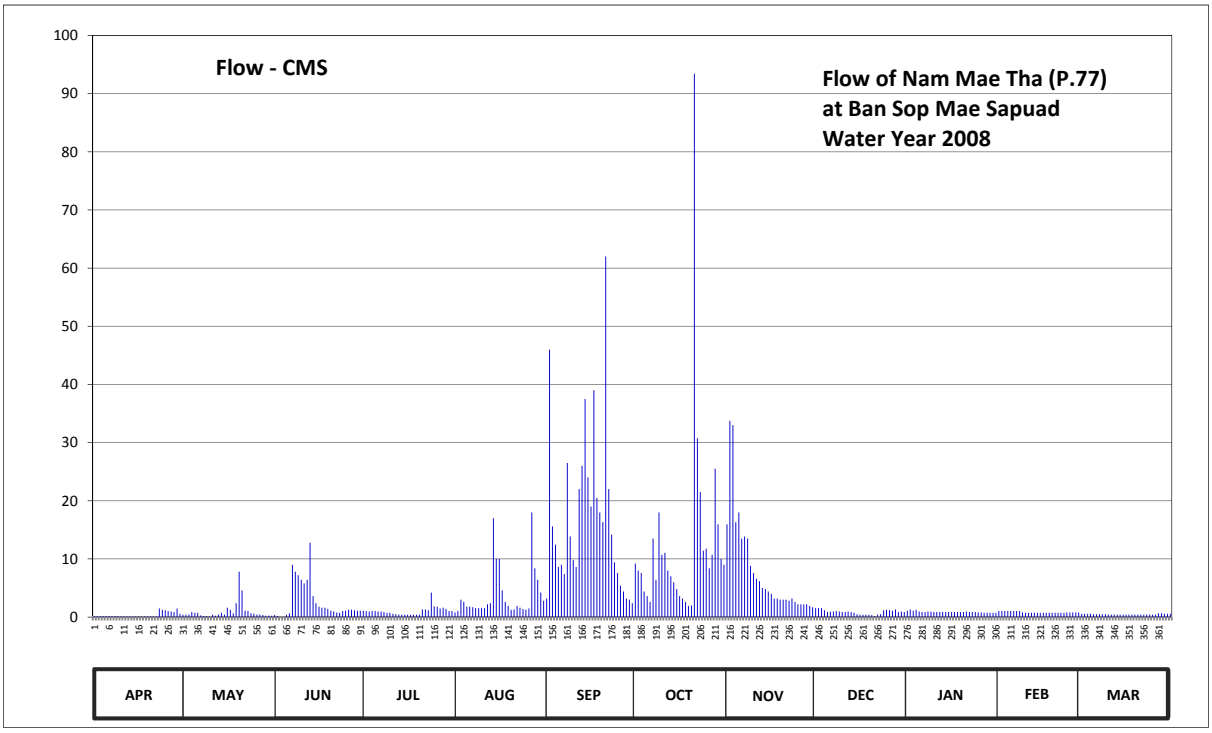
Ban Sop Mae Sapuad **Amphoe** Mae Tha **Changwat** Lamphun

Drainge Area	550 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+364.378 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 20 meters from the top staff gage. **Elevation** +369.286 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Float	-
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 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	365.53	365.58	365.57	365.68	365.64	365.86	366.16	366.37	365.74	365.68	365.67	365.61	
2	365.53	365.58	365.54	365.67	365.67	366.85	366.10	366.69	365.74	365.71	365.67	365.61	
3	365.53	365.59	365.49	365.66	365.85	366.36	366.08	366.68	365.74	365.68	365.67	365.61	
4	365.53	365.65	365.50	365.67	365.83	366.27	365.92	366.38	365.69	365.70	365.67	365.61	
5	365.53	365.63	365.58	365.67	365.77	366.13	365.88	366.42	365.65	365.66	365.67	365.60	
6	365.53	365.63	365.62	365.66	365.77	366.15	365.83	366.30	365.66	365.65	365.67	365.60	
7	365.53	365.56	366.15	365.66	365.76	366.07	366.30	366.31	365.66	365.65	365.67	365.60	
8	365.53	365.54	366.09	365.65	365.74	366.59	366.02	366.30	365.67	365.66	365.67	365.60	
9	365.53	365.53	366.06	365.63	365.74	366.31	366.42	366.14	365.66	365.66	365.64	365.60	
10	365.52	365.52	366.02	365.63	365.74	366.19	366.22	366.08	365.65	365.65	365.63	365.59	
11	365.52	365.58	365.99	365.61	365.74	366.13	366.23	366.03	365.65	365.65	365.63	365.59	
12	365.52	365.55	366.02	365.60	365.81	366.50	366.10	366.01	365.66	365.65	365.63	365.59	
13	365.52	365.59	366.28	365.59	365.82	366.58	366.05	365.95	365.65	365.65	365.63	365.59	
14	365.52	365.63	365.88	365.58	366.40	366.74	366.00	365.94	365.63	365.65	365.63	365.59	
15	365.52	365.59	365.82	365.58	366.20	366.54	365.94	365.92	365.60	365.65	365.63	365.59	
16	365.52	365.75	365.77	365.58	366.20	366.44	365.88	365.90	365.58	365.65	365.63	365.59	
17	365.52	365.70	365.75	365.58	365.93	366.76	365.86	365.86	365.58	365.65	365.63	365.59	
18	365.52	365.62	365.75	365.58	365.83	366.47	365.83	365.86	365.58	365.65	365.63	365.59	
19	365.52	365.82	365.72	365.58	365.79	366.42	365.79	365.85	365.58	365.65	365.63	365.59	
20	365.52	366.09	365.68	365.58	365.70	366.38	365.80	365.85	365.57	365.65	365.63	365.59	
21	365.52	365.93	365.66	365.71	365.71	367.04	367.34	365.85	365.53	365.66	365.63	365.59	
22	365.52	365.68	365.64	365.71	365.79	366.50	366.65	365.84	365.59	365.65	365.63	365.59	
23	365.73	365.67	365.63	365.69	365.75	366.32	366.49	365.86	365.60	365.65	365.63	365.59	
24	365.70	365.62	365.67	365.91	365.72	366.17	366.24	365.83	365.69	365.65	365.64	365.59	
25	365.69	365.61	365.68	365.78	365.70	366.08	366.25	365.81	365.70	365.64	365.64	365.59	
26	365.67	365.59	365.70	365.77	365.73	365.97	366.12	365.81	365.69	365.64	365.64	365.59	
27	365.66	365.59	365.70	365.73	366.42	365.92	366.22	365.81	365.68	365.63	365.64	365.62	
28	365.65	365.57	365.69	365.75	366.12	365.86	366.57	365.81	365.71	365.63	365.64	365.62	
29	365.73	365.55	365.68	365.72	366.02	365.85	366.37	365.79	365.65	365.63		365.61	
30	365.61	365.55	365.68	365.67	365.91	365.82	366.20	365.76	365.66	365.63		365.61	
31		365.55		365.67	365.84		366.15		365.65	365.63		365.61	
Mean	365.57	365.63	365.77	365.66	365.86	366.31	366.16	366.03	365.65	365.65	365.64	365.60	
Max	365.73	366.09	366.28	365.91	366.42	367.04	367.34	366.69	365.74	365.71	365.67	365.62	367.34
Min	365.52	365.52	365.49	365.58	365.64	365.82	365.79	365.76	365.53	365.63	365.63	365.59	365.49

Annual Max Momentary Gage Height	367.68	m. (MSL.) ,	at 09.00 Hours , on Oct 21, 2008		
Zero Gage at Bottom Elevation	364.38	m. (MSL.) ,	River Bed	365.40	m. (MSL.)
Left Bank Elevation	370.13	m. (MSL.) ,			
Right Bank Elevation	374.22	m. (MSL.) ,	Drainage Are	550	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.15	0.40	0.35	1.10	0.80	3.20	9.20	15.95	1.55	1.10	1.03	0.58		
2	0.15	0.40	0.20	1.03	1.03	46.00	8.00	33.75	1.55	1.33	1.03	0.58		
3	0.15	0.45	0.00	0.95	3.00	15.60	7.60	33.00	1.55	1.10	1.03	0.58		
4	0.15	0.88	0.00	1.03	2.60	12.45	4.40	16.30	1.18	1.25	1.03	0.58		
5	0.15	0.73	0.40	1.03	1.78	8.60	3.60	18.00	0.88	0.95	1.03	0.50		
6	0.15	0.73	0.65	0.95	1.78	9.00	2.60	13.50	0.95	0.88	1.03	0.50		
7	0.15	0.30	9.00	0.95	1.70	7.40	13.50	13.85	0.95	0.88	1.03	0.50		
8	0.15	0.20	7.80	0.88	1.55	26.50	6.40	13.50	1.03	0.95	1.03	0.50		
9	0.15	0.15	7.20	0.73	1.55	13.85	18.00	8.80	0.95	0.95	0.80	0.50		
10	0.10	0.10	6.40	0.73	1.55	9.80	10.70	7.60	0.88	0.88	0.73	0.45		
11	0.10	0.40	5.80	0.58	1.55	8.60	11.05	6.60	0.88	0.88	0.73	0.45		
12	0.10	0.25	6.40	0.50	2.20	22.00	8.00	6.20	0.95	0.88	0.73	0.45		
13	0.10	0.45	12.80	0.45	2.40	26.00	7.00	5.00	0.88	0.88	0.73	0.45		
14	0.10	0.73	3.60	0.40	17.00	37.50	6.00	4.80	0.73	0.88	0.73	0.45		
15	0.10	0.45	2.40	0.40	10.00	24.00	4.80	4.40	0.50	0.88	0.73	0.45		
16	0.10	1.63	1.78	0.40	10.00	19.00	3.60	4.00	0.40	0.88	0.73	0.45		
17	0.10	1.25	1.63	0.40	4.60	39.00	3.20	3.20	0.40	0.88	0.73	0.45		
18	0.10	0.65	1.63	0.40	2.60	20.50	2.60	3.20	0.40	0.88	0.73	0.45		
19	0.10	2.40	1.40	0.40	1.93	18.00	1.93	3.00	0.40	0.88	0.73	0.45		
20	0.10	7.80	1.10	0.40	1.25	16.30	2.00	3.00	0.35	0.88	0.73	0.45		
21	0.10	4.60	0.95	1.33	1.33	62.00	93.40	3.00	0.15	0.95	0.73	0.45		
22	0.10	1.10	0.80	1.33	1.93	22.00	30.75	2.80	0.45	0.88	0.73	0.45		
23	1.48	1.03	0.73	1.18	1.63	14.20	21.50	3.20	0.50	0.88	0.73	0.45		
24	1.25	0.65	1.03	4.20	1.40	9.40	11.40	2.60	1.18	0.88	0.80	0.45		
25	1.18	0.58	1.10	1.85	1.25	7.60	11.75	2.20	1.25	0.80	0.80	0.45		
26	1.03	0.45	1.25	1.78	1.48	5.40	8.40	2.20	1.18	0.80	0.80	0.45		
27	0.95	0.45	1.25	1.48	18.00	4.40	10.70	2.20	1.10	0.73	0.80	0.65		
28	0.88	0.35	1.18	1.63	8.40	3.20	25.50	2.20	1.33	0.73	0.80	0.65		
29	1.48	0.25	1.10	1.40	6.40	3.00	15.95	1.93	0.88	0.73		0.58		
30	0.58	0.25	1.10	1.03	4.20	2.40	10.00	1.70	0.95	0.73		0.58		
31		0.25		1.03	2.80		9.00		0.88	0.73		0.58		
Total	11.48	30.31	81.03	31.95	119.69	516.90	382.53	241.68	27.21	27.91	23.26	15.51	1509.46	CMSDAY
Mean	0.38	0.98	2.70	1.03	3.86	17.23	12.34	8.06	0.88	0.90	0.83	0.50	4.14	CMS
Max	1.48	7.80	12.80	4.20	18.00	62.00	93.40	33.75	1.55	1.33	1.03	0.65	93.40	CMS
Min	0.10	0.10	0.00	0.40	0.80	2.40	1.93	1.70	0.15	0.73	0.73	0.45	0.00	CMS
Runoff	0.99	2.62	7.00	2.76	10.34	44.66	33.05	20.88	2.35	2.41	2.01	1.34	130.42	MCM

Momentary Peak 133.20 CMS. at 367.68 m. (MSL.) at 09.00 Hours , on Oct 21, 2008

Runoff Yield 7.52 Liters/Second/Square KM. Momentary Peak Yield 242.18 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	2005 to date
Rating Operation	
Period of Rating	2005 to date
Rated by Float	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

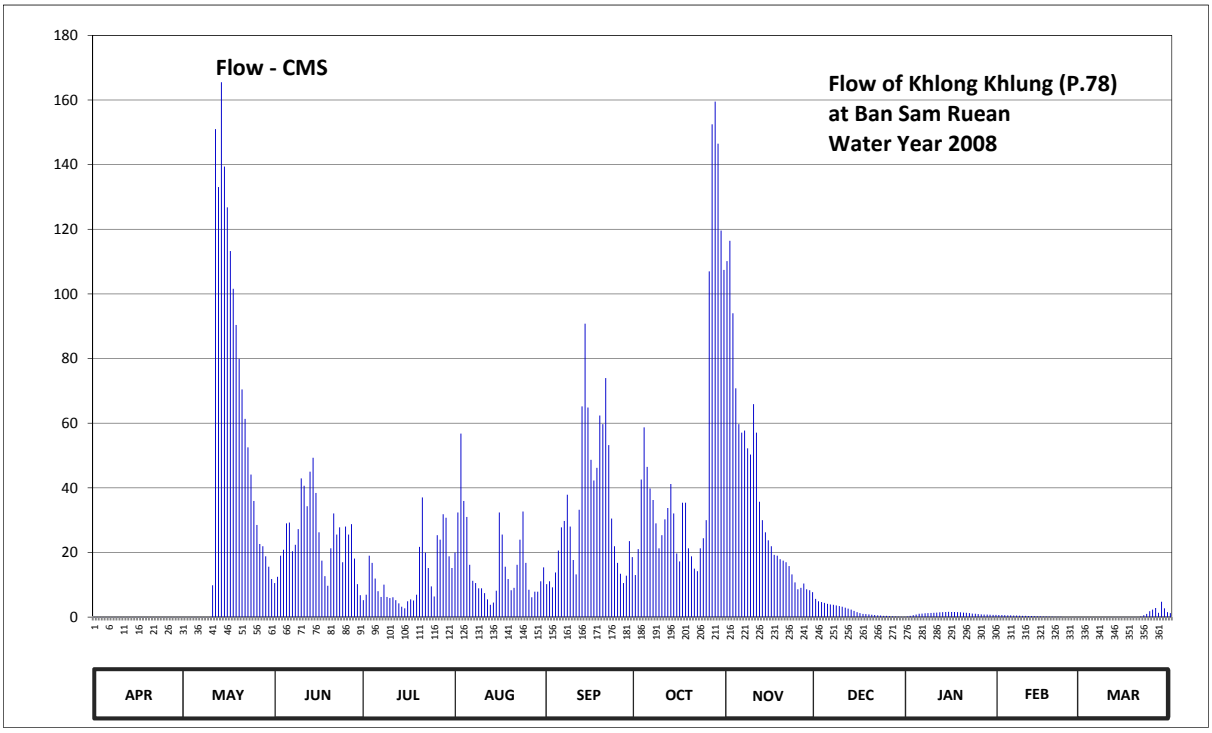
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	66.13	66.13	67.26	66.90	67.73	67.24	67.40	70.47	66.93	66.20	66.35	66.13	
2	66.13	66.13	67.37	67.03	68.25	67.29	67.78	70.61	66.87	66.26	66.34	66.13	
3	66.13	66.13	67.69	67.69	69.07	67.18	68.62	70.10	66.85	66.33	66.33	66.13	
4	66.13	66.13	67.77	67.59	68.38	67.44	69.13	69.48	66.83	66.40	66.32	66.13	
5	66.13	66.13	68.12	67.34	68.20	67.76	68.75	69.16	66.81	66.44	66.31	66.13	
6	66.13	66.13	68.13	67.10	67.56	68.07	68.52	69.08	66.79	66.45	66.30	66.13	
7	66.13	66.13	67.75	66.98	67.30	68.15	68.39	69.10	66.78	66.46	66.29	66.13	
8	66.13	66.13	67.84	67.23	67.26	68.45	68.12	68.93	66.76	66.47	66.28	66.13	
9	66.13	66.13	68.05	66.98	67.16	68.08	67.79	68.87	66.74	66.48	66.27	66.13	
10	66.13	66.13	68.63	66.95	67.16	67.63	67.97	69.34	66.72	66.49	66.26	66.13	
11	66.13	67.22	68.55	66.97	67.06	67.41	68.17	69.08	66.69	66.50	66.25	66.13	
12	66.13	71.36	68.32	66.90	66.92	68.28	68.30	68.37	66.66	66.51	66.24	66.13	
13	66.13	70.98	68.70	66.82	66.78	69.32	68.57	68.16	66.63	66.52	66.23	66.13	
14	66.13	71.65	68.84	66.72	66.84	70.02	68.24	68.01	66.59	66.53	66.22	66.13	
15	66.13	71.12	68.47	66.67	67.11	69.31	67.72	67.90	66.52	66.54	66.21	66.13	
16	66.13	70.84	68.01	66.87	68.25	68.82	67.61	67.82	66.47	66.53	66.20	66.13	
17	66.13	70.54	67.62	66.92	67.98	68.61	68.36	67.70	66.43	66.53	66.19	66.13	
18	66.13	70.28	67.38	66.89	67.53	68.74	68.36	67.69	66.42	66.52	66.18	66.13	
19	66.13	70.01	67.21	67.03	67.33	69.24	67.79	67.64	66.41	66.51	66.17	66.13	
20	66.13	69.74	67.79	67.81	67.12	69.16	67.68	67.62	66.38	66.50	66.16	66.13	
21	66.13	69.47	68.24	68.42	67.17	69.57	67.50	67.60	66.35	66.49	66.15	66.19	
22	66.13	69.21	67.98	67.73	67.56	68.96	67.46	67.54	66.32	66.47	66.14	66.33	
23	66.13	68.94	68.07	67.51	67.91	68.18	67.79	67.41	66.30	66.45	66.13	66.43	
24	66.13	68.67	67.60	67.20	68.26	67.82	67.93	67.27	66.27	66.44	66.13	66.57	
25	66.13	68.38	68.08	66.99	67.59	67.59	68.16	67.14	66.26	66.42	66.13	66.63	
26	66.13	68.10	67.98	67.97	67.13	67.42	70.40	67.17	66.23	66.41	66.13	66.68	
27	66.13	67.85	68.11	67.91	66.97	67.26	71.39	67.25	66.21	66.40	66.13	66.49	
28	66.13	67.82	67.65	68.23	67.09	67.39	71.53	67.14	66.19	66.39	66.13	66.86	
29	66.13	67.68	67.24	68.19	67.09	67.89	71.27	67.12	66.17	66.38		66.67	
30	66.13	67.53	67.02	67.68	67.29	67.67	70.68	67.08	66.15	66.37		66.52	
31		67.33		67.51	67.52		70.41		66.14	66.36		66.47	
Mean	66.13	68.26	67.92	67.31	67.50	68.20	68.64	68.26	66.51	66.44	66.22	66.27	
Max	66.13	71.65	68.84	68.42	69.07	70.02	71.53	70.61	66.93	66.54	66.35	66.86	71.65
Min	66.13	66.13	67.02	66.67	66.78	67.18	67.40	67.08	66.14	66.20	66.13	66.13	66.13

Annual Max Momentary Gage Height 71.79 m. (MSL.) , at 06.00 Hours , on May 14 , 2008

Zero Gage at Bottom Elevation 65.18 m. (MSL.) , River Bed 65.25 m. (MSL.)

Left Bank Elevation 71.83 m. (MSL.) ,

Right Bank Elevation 72.60 m. (MSL.) , Drainage Are 1,119 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.06	0.06	10.55	5.25	19.93	10.20	13.00	110.15	5.63	0.20	0.65	0.06		
2	0.06	0.06	12.48	6.95	32.38	11.08	21.05	116.45	4.88	0.38	0.62	0.06		
3	0.06	0.06	19.03	19.03	56.78	9.20	42.60	94.00	4.63	0.59	0.59	0.06		
4	0.06	0.06	20.83	16.80	35.95	13.80	58.73	70.80	4.38	0.80	0.56	0.06		
5	0.06	0.06	29.00	11.95	31.00	20.60	46.50	59.70	4.13	1.04	0.53	0.06		
6	0.06	0.06	29.25	8.00	16.20	27.75	39.80	57.10	3.90	1.10	0.50	0.06		
7	0.06	0.06	20.38	6.25	11.25	29.75	36.23	57.75	3.80	1.16	0.47	0.06		
8	0.06	0.06	22.40	10.03	10.55	37.88	29.00	52.23	3.60	1.22	0.44	0.06		
9	0.06	0.06	27.25	6.25	8.90	28.00	21.28	50.28	3.40	1.28	0.41	0.06		
10	0.06	0.06	42.90	5.88	8.90	17.68	25.33	65.90	3.20	1.34	0.38	0.06		
11	0.06	9.85	40.63	6.13	7.40	13.20	30.25	57.10	2.90	1.40	0.35	0.06		
12	0.06	151.00	34.30	5.25	5.50	33.20	33.75	35.68	2.60	1.46	0.32	0.06		
13	0.06	133.10	45.00	4.25	3.80	65.20	41.18	30.00	2.30	1.52	0.29	0.06		
14	0.06	165.50	49.30	3.20	4.50	90.80	32.10	26.25	1.94	1.58	0.26	0.06		
15	0.06	139.40	38.43	2.70	8.15	64.85	19.70	23.75	1.52	1.64	0.23	0.06		
16	0.06	126.80	26.25	4.88	32.38	48.65	17.23	21.95	1.22	1.58	0.20	0.06		
17	0.06	113.30	17.45	5.50	25.55	42.30	35.40	19.25	0.98	1.58	0.18	0.06		
18	0.06	101.60	12.65	5.13	15.60	46.20	35.40	19.03	0.92	1.52	0.16	0.06		
19	0.06	90.40	9.68	6.95	11.78	62.40	21.28	17.90	0.86	1.46	0.14	0.06		
20	0.06	79.90	21.28	21.73	8.30	59.70	18.80	17.45	0.74	1.40	0.12	0.06		
21	0.06	70.45	32.10	37.05	9.05	73.95	15.00	17.00	0.65	1.34	0.10	0.18		
22	0.06	61.35	25.55	19.93	16.20	53.20	14.20	15.80	0.56	1.22	0.08	0.59		
23	0.06	52.55	27.75	15.20	23.98	30.50	21.28	13.20	0.50	1.10	0.06	0.98		
24	0.06	44.10	17.00	9.50	32.65	21.95	24.43	10.73	0.41	1.04	0.06	1.82		
25	0.06	35.95	28.00	6.38	16.80	16.80	30.00	8.60	0.38	0.92	0.06	2.30		
26	0.06	28.50	25.55	25.33	8.45	13.40	107.00	9.05	0.29	0.86	0.06	2.80		
27	0.06	22.63	28.75	23.98	6.13	10.55	152.50	10.38	0.23	0.80	0.06	1.34		
28	0.06	21.95	18.13	31.83	7.85	12.83	159.50	8.60	0.18	0.77	0.06	4.75		
29	0.06	18.80	10.20	30.75	7.85	23.53	146.50	8.30	0.14	0.74		2.70		
30	0.06	15.60	6.80	18.80	11.08	18.58	119.60	7.70	0.10	0.71		1.52		
31		11.78		15.20	15.40		107.45		0.08	0.68		1.22		
Total	1.80	1495.11	748.87	396.06	510.24	1007.73	1516.07	1112.08	61.05	34.43	7.94	21.40	6912.78	CMSDAY
Mean	0.06	48.23	24.96	12.78	16.46	33.59	48.91	37.07	1.97	1.11	0.28	0.69	18.94	CMS
Max	0.06	165.50	49.30	37.05	56.78	90.80	159.50	116.45	5.63	1.64	0.65	4.75	165.50	CMS
Min	0.06	0.06	6.80	2.70	3.80	9.20	13.00	7.70	0.08	0.20	0.06	0.06	0.06	CMS
Runoff	0.16	129.18	64.70	34.22	44.08	87.07	130.99	96.08	5.27	2.97	0.69	1.85	597.26	MCM

Momentary Peak 172.50 CMS. at 71.79 m. (MSL.) at 06.00 Hours , on May 14, 2008

Runoff Yield 16.93 Liters/Second/Square KM. Momentary Peak Yield 154.16 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	2001 to date
Rating Operation	
Period of Rating	2001 to date
Rated by Float	-
Rated by Current Meter	2001 to date
Stability of Channel Regimes	Fairly stable by some scouring.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

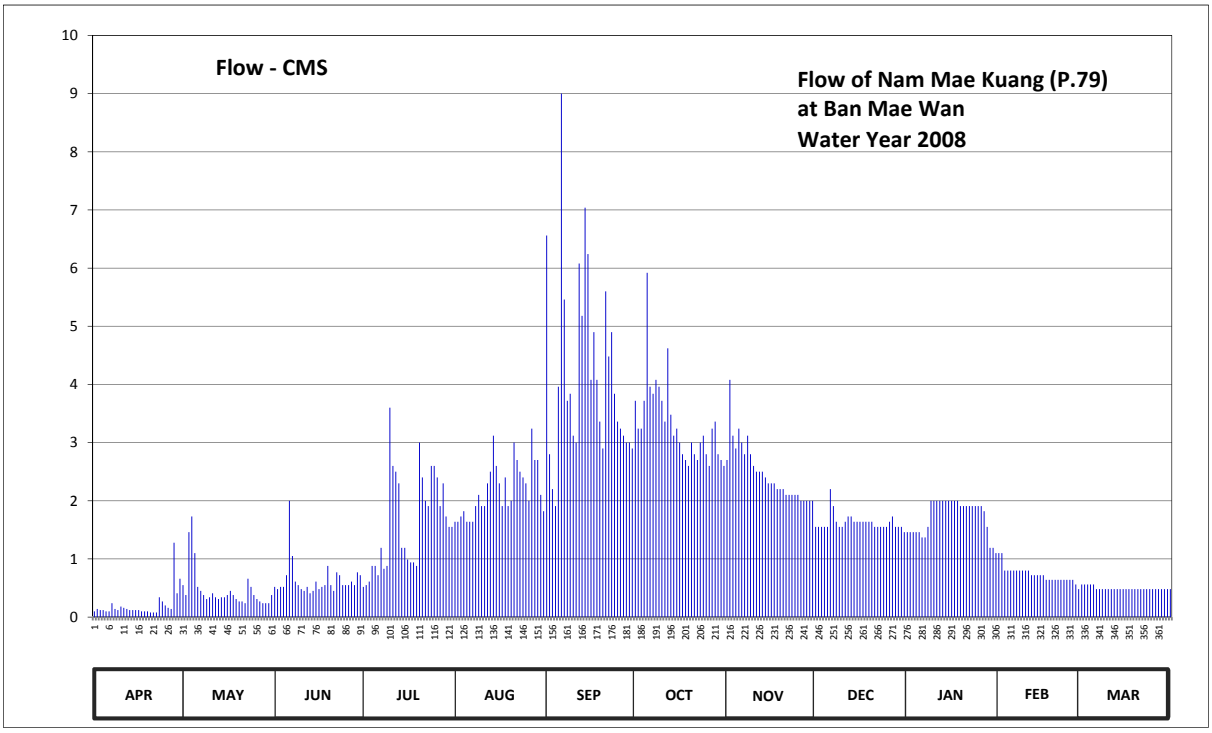
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	442.45	442.60	442.59	442.59	442.76	443.16	442.96	442.87	442.75	442.74	442.70	442.67	
2	442.47	442.55	442.58	442.60	442.76	442.88	442.92	442.99	442.75	442.74	442.70	442.67	
3	442.46	442.74	442.59	442.61	442.77	442.82	442.92	442.91	442.75	442.74	442.70	442.67	
4	442.46	442.77	442.59	442.66	442.78	442.79	442.96	442.89	442.75	442.74	442.70	442.67	
5	442.45	442.70	442.63	442.66	442.76	442.98	443.12	442.92	442.75	442.74	442.70	442.67	
6	442.45	442.59	442.80	442.63	442.76	443.29	442.98	442.90	442.82	442.73	442.70	442.66	
7	442.51	442.57	442.69	442.71	442.76	443.09	442.97	442.88	442.79	442.73	442.70	442.66	
8	442.47	442.55	442.61	442.65	442.79	442.96	442.99	442.91	442.76	442.75	442.70	442.66	
9	442.46	442.53	442.60	442.66	442.81	442.97	442.98	442.88	442.75	442.80	442.70	442.66	
10	442.49	442.54	442.58	442.95	442.79	442.91	442.96	442.86	442.75	442.80	442.70	442.66	
11	442.48	442.56	442.57	442.86	442.79	442.90	442.93	442.85	442.76	442.80	442.70	442.66	
12	442.47	442.54	442.59	442.85	442.83	443.13	443.03	442.85	442.77	442.80	442.69	442.66	
13	442.46	442.53	442.56	442.83	442.85	443.07	442.94	442.85	442.77	442.80	442.69	442.66	
14	442.46	442.54	442.57	442.71	442.91	443.19	442.91	442.84	442.76	442.80	442.69	442.66	
15	442.46	442.54	442.61	442.71	442.86	443.14	442.92	442.83	442.76	442.80	442.69	442.66	
16	442.46	442.55	442.58	442.68	442.83	442.99	442.90	442.83	442.76	442.80	442.69	442.66	
17	442.45	442.57	442.59	442.67	442.79	443.05	442.88	442.83	442.76	442.80	442.68	442.66	
18	442.45	442.55	442.60	442.67	442.84	442.99	442.87	442.82	442.76	442.80	442.68	442.66	
19	442.45	442.53	442.66	442.66	442.79	442.93	442.86	442.82	442.76	442.79	442.68	442.66	
20	442.44	442.52	442.60	442.90	442.80	442.89	442.90	442.82	442.76	442.79	442.68	442.66	
21	442.44	442.52	442.57	442.84	442.90	443.10	442.88	442.81	442.75	442.79	442.68	442.66	
22	442.44	442.51	442.64	442.80	442.87	443.02	442.87	442.81	442.75	442.79	442.68	442.66	
23	442.54	442.62	442.63	442.79	442.85	443.05	442.90	442.81	442.75	442.79	442.68	442.66	
24	442.52	442.59	442.60	442.86	442.84	442.97	442.91	442.81	442.75	442.79	442.68	442.66	
25	442.50	442.55	442.60	442.86	442.83	442.93	442.88	442.81	442.75	442.79	442.68	442.66	
26	442.48	442.53	442.60	442.84	442.80	442.92	442.86	442.80	442.76	442.79	442.68	442.66	
27	442.47	442.52	442.61	442.79	442.92	442.91	442.92	442.80	442.77	442.78	442.67	442.66	
28	442.72	442.51	442.60	442.83	442.87	442.90	442.93	442.80	442.75	442.75	442.66	442.66	
29	442.56	442.51	442.64	442.77	442.87	442.90	442.88	442.80	442.75	442.71		442.66	
30	442.62	442.51	442.63	442.75	442.81	442.89	442.87	442.80	442.75	442.71		442.66	
31		442.55		442.75	442.78		442.86		442.74	442.70		442.66	
Mean	442.48	442.56	442.61	442.75	442.82	442.99	442.92	442.85	442.76	442.77	442.69	442.66	
Max	442.72	442.77	442.80	442.95	442.92	443.29	443.12	442.99	442.82	442.80	442.70	442.67	443.29
Min	442.44	442.51	442.56	442.59	442.76	442.79	442.86	442.80	442.74	442.70	442.66	442.66	442.44

Annual Max Momentary Gage Height 444.49 m. (MSL.) , at 03.00 Hours , on Sep 6, 2008

Zero Gage at Bottom Elevation 442.30 m. (MSL.) , River Bed 442.31 m. (MSL.)

Left Bank Elevation 446.86 m. (MSL.) ,

Right Bank Elevation 446.08 m. (MSL.) , Drainage Are 136 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.55	0.52	0.52	1.64	6.56	3.72	2.70	1.55	1.46	1.10	0.56		
2	0.14	0.38	0.48	0.55	1.64	2.80	3.24	4.08	1.55	1.46	1.10	0.56		
3	0.12	1.46	0.52	0.61	1.73	2.20	3.24	3.12	1.55	1.46	0.80	0.56		
4	0.12	1.73	0.52	0.88	1.82	1.91	3.72	2.90	1.55	1.46	0.80	0.56		
5	0.10	1.10	0.72	0.88	1.64	3.96	5.92	3.24	1.55	1.46	0.80	0.56		
6	0.10	0.52	2.00	0.72	1.64	9.00	3.96	3.00	2.20	1.37	0.80	0.48		
7	0.24	0.45	1.05	1.19	1.64	5.46	3.84	2.80	1.91	1.37	0.80	0.48		
8	0.14	0.38	0.61	0.83	1.91	3.72	4.08	3.12	1.64	1.55	0.80	0.48		
9	0.12	0.31	0.55	0.88	2.10	3.84	3.96	2.80	1.55	2.00	0.80	0.48		
10	0.18	0.34	0.48	3.60	1.91	3.12	3.72	2.60	1.55	2.00	0.80	0.48		
11	0.16	0.41	0.45	2.60	1.91	3.00	3.36	2.50	1.64	2.00	0.80	0.48		
12	0.14	0.34	0.52	2.50	2.30	6.08	4.62	2.50	1.73	2.00	0.72	0.48		
13	0.12	0.31	0.41	2.30	2.50	5.18	3.48	2.50	1.73	2.00	0.72	0.48		
14	0.12	0.34	0.45	1.19	3.12	7.04	3.12	2.40	1.64	2.00	0.72	0.48		
15	0.12	0.34	0.61	1.19	2.60	6.24	3.24	2.30	1.64	2.00	0.72	0.48		
16	0.12	0.38	0.48	0.99	2.30	4.08	3.00	2.30	1.64	2.00	0.72	0.48		
17	0.10	0.45	0.52	0.94	1.91	4.90	2.80	2.30	1.64	2.00	0.64	0.48		
18	0.10	0.38	0.55	0.94	2.40	4.08	2.70	2.20	1.64	2.00	0.64	0.48		
19	0.10	0.31	0.88	0.88	1.91	3.36	2.60	2.20	1.64	1.91	0.64	0.48		
20	0.08	0.27	0.55	3.00	2.00	2.90	3.00	2.20	1.64	1.91	0.64	0.48		
21	0.08	0.27	0.45	2.40	3.00	5.60	2.80	2.10	1.55	1.91	0.64	0.48		
22	0.08	0.24	0.77	2.00	2.70	4.48	2.70	2.10	1.55	1.91	0.64	0.48		
23	0.34	0.66	0.72	1.91	2.50	4.90	3.00	2.10	1.55	1.91	0.64	0.48		
24	0.27	0.52	0.55	2.60	2.40	3.84	3.12	2.10	1.55	1.91	0.64	0.48		
25	0.20	0.38	0.55	2.60	2.30	3.36	2.80	2.10	1.55	1.91	0.64	0.48		
26	0.16	0.31	0.55	2.40	2.00	3.24	2.60	2.00	1.64	1.91	0.64	0.48		
27	0.14	0.27	0.61	1.91	3.24	3.12	3.24	2.00	1.73	1.82	0.56	0.48		
28	1.28	0.24	0.55	2.30	2.70	3.00	3.36	2.00	1.55	1.55	0.48	0.48		
29	0.41	0.24	0.77	1.73	2.70	3.00	2.80	2.00	1.55	1.19		0.48		
30	0.66	0.24	0.72	1.55	2.10	2.90	2.70	2.00	1.55	1.19		0.48		
31		0.38		1.55	1.82		2.60		1.46	1.10		0.48		
Total	6.14	14.50	19.11	50.14	68.08	126.87	103.04	74.26	50.41	53.72	20.44	15.28	601.99	CMSDAY
Mean	0.20	0.47	0.64	1.62	2.20	4.23	3.32	2.48	1.63	1.73	0.73	0.49	1.65	CMS
Max	1.28	1.73	2.00	3.60	3.24	9.00	5.92	4.08	2.20	2.00	1.10	0.56	9.00	CMS
Min	0.08	0.24	0.41	0.52	1.64	1.91	2.60	2.00	1.46	1.10	0.48	0.48	0.08	CMS
Runoff	0.53	1.25	1.65	4.33	5.88	10.96	8.90	6.42	4.36	4.64	1.77	1.32	52.01	MCM

Momentary Peak 55.59 CMS. at 444.49 m. (MSL.) at 03.00 Hours , on Sep 6, 2008

Runoff Yield 12.13 Liters/Second/Square KM. Momentary Peak Yield 408.75 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	2001 to date
Rating Operation	
Period of Rating	2001 to date
Rated by Float	-
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 30 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

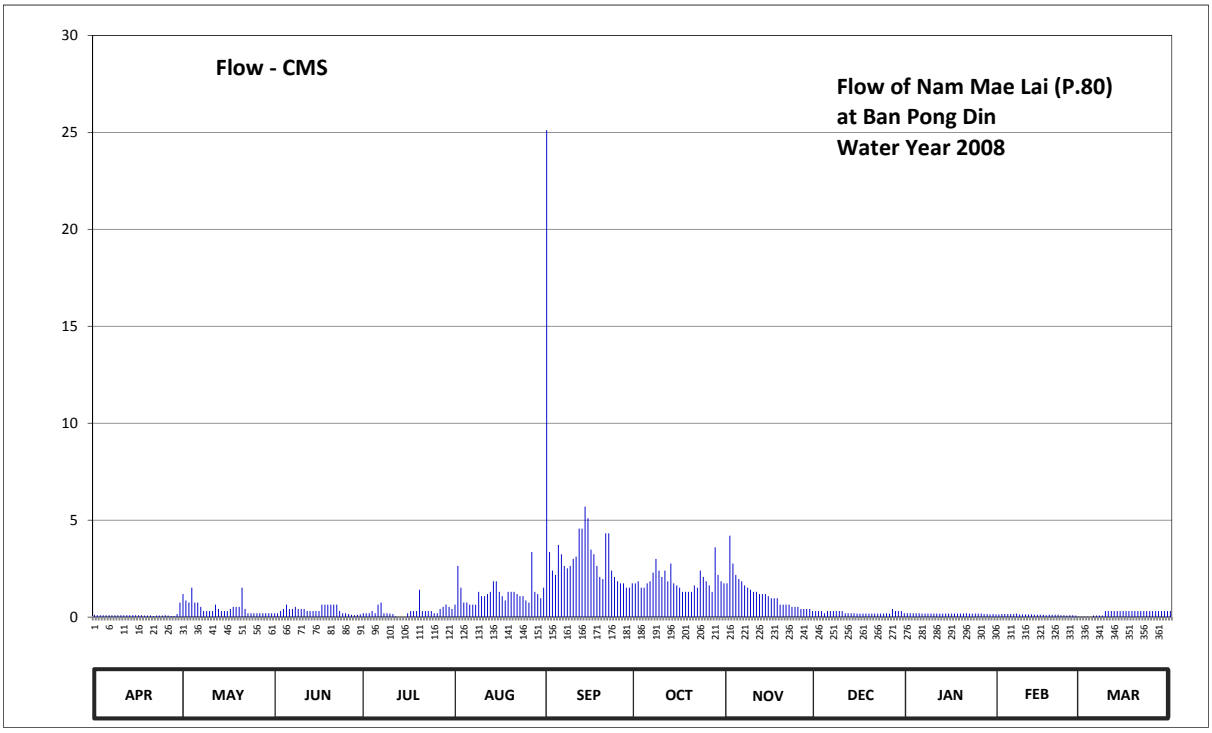
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	455.56	455.69	455.60	455.60	455.64	456.88	455.74	455.74	455.61	455.60	455.57	455.51	
2	455.55	455.66	455.60	455.60	455.82	455.88	455.75	455.95	455.61	455.60	455.58	455.51	
3	455.55	455.65	455.61	455.60	455.72	455.80	455.72	455.83	455.61	455.60	455.58	455.51	
4	455.55	455.72	455.62	455.61	455.65	455.78	455.72	455.78	455.60	455.60	455.58	455.50	
5	455.55	455.65	455.64	455.60	455.65	455.91	455.74	455.76	455.61	455.60	455.58	455.54	
6	455.55	455.65	455.62	455.64	455.64	455.87	455.75	455.75	455.61	455.59	455.58	455.54	
7	455.55	455.63	455.62	455.65	455.64	455.82	455.79	455.73	455.61	455.59	455.59	455.54	
8	455.55	455.61	455.63	455.60	455.64	455.81	455.85	455.72	455.61	455.59	455.57	455.54	
9	455.55	455.61	455.62	455.60	455.70	455.82	455.80	455.71	455.61	455.59	455.57	455.61	
10	455.55	455.61	455.62	455.59	455.68	455.85	455.77	455.70	455.61	455.59	455.57	455.61	
11	455.55	455.61	455.62	455.58	455.68	455.86	455.80	455.70	455.60	455.59	455.57	455.61	
12	455.55	455.64	455.61	455.52	455.69	455.98	455.75	455.69	455.60	455.59	455.57	455.61	
13	455.55	455.62	455.61	455.50	455.70	455.98	455.83	455.69	455.60	455.59	455.56	455.61	
14	455.55	455.61	455.61	455.49	455.75	456.06	455.74	455.69	455.60	455.59	455.56	455.61	
15	455.55	455.61	455.61	455.50	455.75	456.02	455.73	455.68	455.59	455.59	455.56	455.61	
16	455.55	455.61	455.61	455.60	455.70	455.89	455.72	455.67	455.59	455.59	455.56	455.61	
17	455.55	455.62	455.64	455.61	455.68	455.87	455.70	455.67	455.59	455.59	455.55	455.61	
18	455.54	455.63	455.64	455.61	455.66	455.82	455.70	455.67	455.59	455.59	455.56	455.61	
19	455.54	455.63	455.64	455.61	455.70	455.77	455.70	455.64	455.59	455.59	455.56	455.61	
20	455.54	455.63	455.64	455.71	455.70	455.76	455.70	455.64	455.59	455.59	455.56	455.61	
21	455.53	455.72	455.64	455.61	455.70	455.96	455.73	455.64	455.59	455.60	455.56	455.61	
22	455.54	455.62	455.64	455.61	455.69	455.96	455.72	455.64	455.59	455.59	455.55	455.61	
23	455.54	455.60	455.61	455.61	455.68	455.80	455.80	455.63	455.59	455.59	455.55	455.61	
24	455.54	455.60	455.60	455.61	455.68	455.77	455.77	455.63	455.59	455.59	455.54	455.61	
25	455.55	455.60	455.60	455.60	455.66	455.75	455.75	455.63	455.60	455.59	455.55	455.61	
26	455.54	455.60	455.58	455.60	455.65	455.74	455.73	455.62	455.59	455.59	455.55	455.61	
27	455.53	455.60	455.56	455.62	455.88	455.74	455.70	455.62	455.62	455.58	455.54	455.61	
28	455.53	455.60	455.55	455.63	455.70	455.72	455.90	455.62	455.61	455.58	455.51	455.61	
29	455.58	455.60	455.56	455.64	455.69	455.72	455.78	455.62	455.61	455.57		455.61	
30	455.65	455.60	455.57	455.63	455.67	455.74	455.75	455.61	455.61	455.58		455.61	
31		455.60		455.62	455.72		455.74		455.60	455.57		455.61	
Mean	455.55	455.63	455.61	455.60	455.69	455.88	455.75	455.69	455.60	455.59	455.56	455.59	
Max	455.65	455.72	455.64	455.71	455.88	456.88	455.90	455.95	455.62	455.60	455.59	455.61	456.88
Min	455.53	455.60	455.55	455.49	455.64	455.72	455.70	455.61	455.59	455.57	455.51	455.50	455.49

Annual Max Momentary Gage Height 456.95 m. (MSL.) , at 06.00 Hours , on Sep 1, 2008

Zero Gage at Bottom Elevation 455.10 m. (MSL.) , River Bed 455.33 m. (MSL.)

Left Bank Elevation 461.89 m. (MSL.) ,

Right Bank Elevation 461.89 m. (MSL.) , Drainage Are 129 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.12	1.19	0.20	0.20	0.64	25.12	1.74	1.74	0.31	0.20	0.14	0.02		
2	0.10	0.86	0.20	0.20	2.64	3.36	1.85	4.20	0.31	0.20	0.16	0.02		
3	0.10	0.75	0.31	0.20	1.52	2.40	1.52	2.76	0.31	0.20	0.16	0.02		
4	0.10	1.52	0.42	0.31	0.75	2.18	1.52	2.18	0.20	0.20	0.16	0.00		
5	0.10	0.75	0.64	0.20	0.75	3.72	1.74	1.96	0.31	0.20	0.16	0.08		
6	0.10	0.75	0.42	0.64	0.64	3.24	1.85	1.85	0.31	0.18	0.16	0.08		
7	0.10	0.53	0.42	0.75	0.64	2.64	2.29	1.63	0.31	0.18	0.18	0.08		
8	0.10	0.31	0.53	0.20	0.64	2.52	3.00	1.52	0.31	0.18	0.14	0.08		
9	0.10	0.31	0.42	0.20	1.30	2.64	2.40	1.41	0.31	0.18	0.14	0.31		
10	0.10	0.31	0.42	0.18	1.08	3.00	2.07	1.30	0.31	0.18	0.14	0.31		
11	0.10	0.31	0.42	0.16	1.08	3.12	2.40	1.30	0.20	0.18	0.14	0.31		
12	0.10	0.64	0.31	0.04	1.19	4.56	1.85	1.19	0.20	0.18	0.14	0.31		
13	0.10	0.42	0.31	0.00	1.30	4.56	2.76	1.19	0.20	0.18	0.12	0.31		
14	0.10	0.31	0.31	0.00	1.85	5.70	1.74	1.19	0.20	0.18	0.12	0.31		
15	0.10	0.31	0.31	0.00	1.85	5.10	1.63	1.08	0.18	0.18	0.12	0.31		
16	0.10	0.31	0.31	0.20	1.30	3.48	1.52	0.97	0.18	0.18	0.12	0.31		
17	0.10	0.42	0.64	0.31	1.08	3.24	1.30	0.97	0.18	0.18	0.10	0.31		
18	0.08	0.53	0.64	0.31	0.86	2.64	1.30	0.97	0.18	0.18	0.12	0.31		
19	0.08	0.53	0.64	0.31	1.30	2.07	1.30	0.64	0.18	0.18	0.12	0.31		
20	0.08	0.53	0.64	1.41	1.30	1.96	1.30	0.64	0.18	0.18	0.12	0.31		
21	0.06	1.52	0.64	0.31	1.30	4.32	1.63	0.64	0.18	0.20	0.12	0.31		
22	0.08	0.42	0.64	0.31	1.19	4.32	1.52	0.64	0.18	0.18	0.10	0.31		
23	0.08	0.20	0.31	0.31	1.08	2.40	2.40	0.53	0.18	0.18	0.10	0.31		
24	0.08	0.20	0.20	0.31	1.08	2.07	2.07	0.53	0.18	0.18	0.08	0.31		
25	0.10	0.20	0.20	0.20	0.86	1.85	1.85	0.53	0.20	0.18	0.10	0.31		
26	0.08	0.20	0.16	0.20	0.75	1.74	1.63	0.42	0.18	0.18	0.10	0.31		
27	0.06	0.20	0.12	0.42	3.36	1.74	1.30	0.42	0.42	0.16	0.08	0.31		
28	0.06	0.20	0.10	0.53	1.30	1.52	3.60	0.42	0.31	0.16	0.02	0.31		
29	0.16	0.20	0.12	0.64	1.19	1.52	2.18	0.42	0.31	0.14		0.31		
30	0.75	0.20	0.14	0.53	0.97	1.74	1.85	0.31	0.31	0.16		0.31		
31		0.20		0.42	1.52		1.74		0.20	0.14		0.31		
Total	3.47	15.33	11.14	10.00	38.31	110.47	58.85	35.55	7.52	5.56	3.46	7.51	307.17	CMSDAY
Mean	0.12	0.49	0.37	0.32	1.24	3.68	1.90	1.19	0.24	0.18	0.12	0.24	0.84	CMS
Max	0.75	1.52	0.64	1.41	3.36	25.12	3.60	4.20	0.42	0.20	0.18	0.31	25.12	CMS
Min	0.06	0.20	0.10	0.00	0.64	1.52	1.30	0.31	0.18	0.14	0.02	0.00	0.00	CMS
Runoff	0.30	1.32	0.96	0.86	3.31	9.54	5.08	3.07	0.65	0.48	0.30	0.65	26.54	MCM

Momentary Peak 27.85 CMS. at 456.95 m. (MSL.) at 06.00 Hours , on Sep 1, 2008

Runoff Yield 6.52 Liters/Second/Square KM. Momentary Peak Yield 215.89 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

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

Lat 18 - 41 - 37 N Long 99 - 04 - 58 E

Location : on left bank at the bridge on road.

Ban Pong **Amphoe** San Kamphaeng **Changwat** Chiang Mai

Drainge 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 left bank at the approach of the bridge. **Elevation** +295.749 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2002 to date
Rating Operation	
Period of Rating	2002 to date
Rated by Float	-
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 31 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

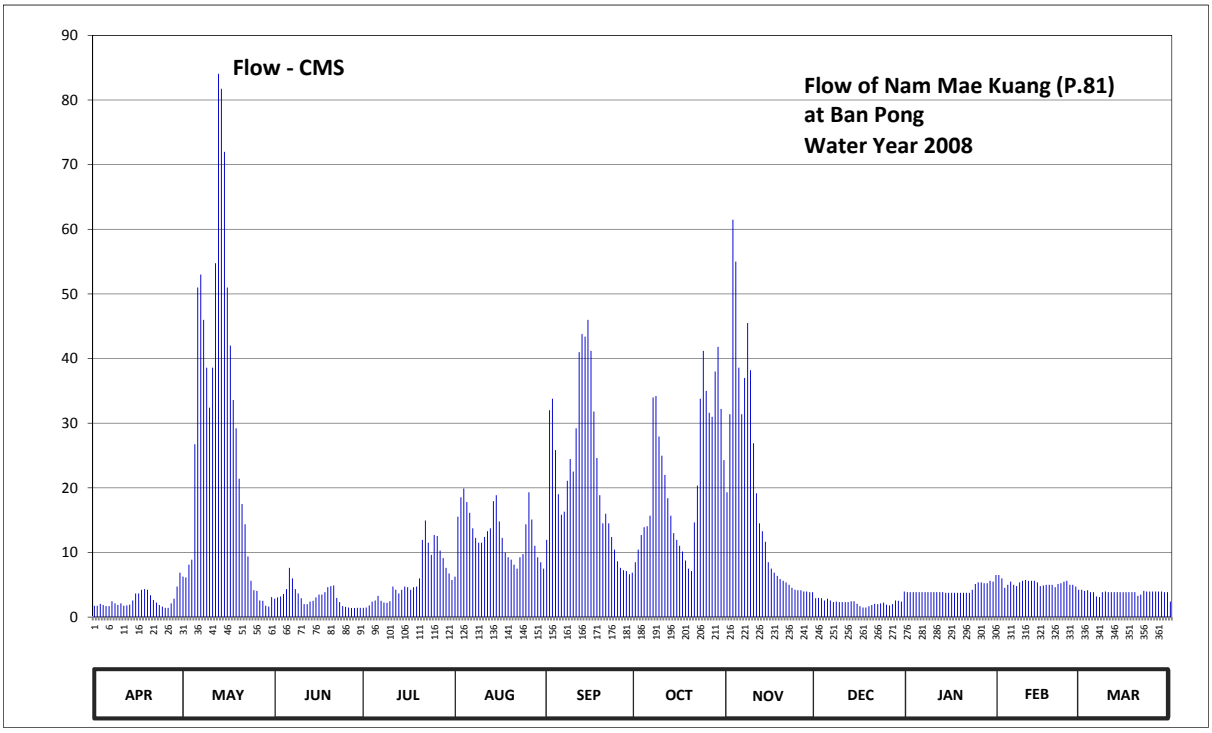
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.79	291.30	290.96	290.72	291.30	291.73	291.48	292.22	290.97	291.08	291.32	291.12	
2	290.79	291.29	290.99	290.73	291.97	292.95	291.63	292.92	290.98	291.08	291.28	291.10	
3	290.84	291.45	291.01	290.80	292.17	293.04	291.78	294.26	290.97	291.08	291.15	291.11	
4	290.81	291.51	291.05	290.89	292.26	292.62	291.86	294.00	290.92	291.08	291.20	291.08	
5	290.78	292.67	291.13	290.92	292.12	292.20	291.87	293.28	290.96	291.08	291.24	291.08	
6	290.78	293.84	291.41	291.02	292.01	291.99	291.98	292.92	290.92	291.08	291.20	291.01	
7	290.90	293.92	291.28	290.91	291.85	292.02	293.05	293.20	290.88	291.08	291.18	291.00	
8	290.85	293.64	291.13	290.87	291.75	292.34	293.06	293.62	290.89	291.08	291.23	291.08	
9	290.81	293.28	291.06	290.86	291.70	292.54	292.74	293.26	290.88	291.08	291.25	291.09	
10	290.85	292.97	290.97	290.90	291.70	292.43	292.57	292.68	290.88	291.08	291.26	291.08	
11	290.79	293.28	290.83	291.17	291.76	292.81	292.40	292.21	290.88	291.08	291.25	291.08	
12	290.80	293.99	290.83	291.12	291.82	293.40	292.16	291.90	290.88	291.08	291.25	291.08	
13	290.82	295.14	290.89	291.06	291.85	293.54	291.98	291.82	290.90	291.08	291.25	291.08	
14	290.92	295.06	290.91	291.12	292.13	293.52	291.80	291.71	290.90	291.07	291.23	291.08	
15	291.06	294.68	290.99	291.17	292.19	293.64	291.73	291.48	290.84	291.07	291.18	291.08	
16	291.06	293.84	291.04	291.16	291.92	293.41	291.67	291.40	290.77	291.07	291.19	291.08	
17	291.12	293.45	291.04	291.12	291.75	292.94	291.61	291.35	290.73	291.07	291.20	291.08	
18	291.13	293.03	291.08	291.16	291.60	292.55	291.50	291.31	290.73	291.07	291.20	291.08	
19	291.12	292.81	291.16	291.17	291.54	292.19	291.40	291.27	290.77	291.07	291.20	291.08	
20	291.03	292.36	291.18	291.28	291.51	291.90	291.37	291.25	290.81	291.07	291.16	291.02	
21	290.93	292.10	291.19	291.73	291.45	292.00	291.91	291.23	290.84	291.07	291.21	291.04	
22	290.87	291.89	290.98	291.93	291.40	291.90	292.29	291.20	290.83	291.07	291.22	291.10	
23	290.81	291.55	290.88	291.70	291.54	291.76	293.04	291.15	290.85	291.12	291.24	291.09	
24	290.76	291.25	290.78	291.57	291.58	291.63	293.41	291.12	290.87	291.21	291.25	291.09	
25	290.72	291.11	290.75	291.78	291.89	291.49	293.10	291.11	290.82	291.23	291.20	291.09	
26	290.72	291.10	290.73	291.77	292.22	291.41	292.93	291.11	290.80	291.23	291.20	291.09	
27	290.85	290.92	290.71	291.62	291.94	291.38	292.90	291.09	290.83	291.22	291.17	291.09	
28	290.96	290.91	290.71	291.53	291.67	291.37	293.25	291.09	290.92	291.22	291.12	291.09	
29	291.17	290.79	290.72	291.41	291.54	291.33	293.44	291.08	290.91	291.25		291.08	
30	291.35	290.76	290.72	291.34	291.48	291.35	292.96	291.08	290.89	291.24		291.08	
31		291.00		291.26	291.40		292.53		291.09	291.32		290.89	
Mean	290.91	292.48	290.97	291.22	291.77	292.31	292.30	291.98	290.87	291.12	291.22	291.07	
Max	291.35	295.14	291.41	291.93	292.26	293.64	293.44	294.26	291.09	291.32	291.32	291.12	295.14
Min	290.72	290.76	290.71	290.72	291.30	291.33	291.37	291.08	290.73	291.07	291.12	290.89	290.71

Annual Max Momentary Gage Height 295.31 m. (MSL.) , at 05.00 Hours , on May 13, 2008

Zero Gage at Bottom Elevation 289.92 m. (MSL.) , River Bed 290.07 m. (MSL.)

Left Bank Elevation 296.87 m. (MSL.) ,

Right Bank Elevation 296.87 m. (MSL.) , Drainage Are 1,190 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.76	6.25	2.84	1.44	6.25	11.95	8.50	19.30	2.91	3.86	6.50	4.24		
2	1.76	6.13	3.04	1.49	15.55	32.00	10.45	31.40	2.97	3.86	6.00	4.05		
3	2.06	8.13	3.20	1.80	18.55	33.80	12.70	61.50	2.91	3.86	4.53	4.15		
4	1.87	8.88	3.58	2.39	19.90	25.85	13.90	55.00	2.58	3.86	5.00	3.86		
5	1.71	26.73	4.34	2.58	17.80	19.00	14.05	38.60	2.84	3.86	5.50	3.86		
6	1.71	51.00	7.63	3.29	16.15	15.85	15.70	31.40	2.58	3.86	5.00	3.20		
7	2.45	53.00	6.00	2.52	13.75	16.30	34.00	37.00	2.32	3.86	4.81	3.10		
8	2.13	46.00	4.34	2.26	12.25	21.10	34.20	45.50	2.39	3.86	5.38	3.86		
9	1.87	38.60	3.67	2.19	11.50	24.45	27.95	38.20	2.32	3.86	5.63	3.96		
10	2.13	32.40	2.91	2.45	11.50	22.53	24.98	26.90	2.32	3.86	5.75	3.86		
11	1.76	38.60	2.00	4.72	12.40	29.20	22.00	19.15	2.32	3.86	5.63	3.86		
12	1.80	54.75	2.00	4.24	13.30	41.00	18.40	14.50	2.32	3.86	5.63	3.86		
13	1.93	84.06	2.39	3.67	13.75	43.80	15.70	13.30	2.45	3.86	5.63	3.86		
14	2.58	81.74	2.52	4.24	17.95	43.40	13.00	11.65	2.45	3.77	5.38	3.86		
15	3.67	72.00	3.04	4.72	18.85	46.00	11.95	8.50	2.06	3.77	4.81	3.86		
16	3.67	51.00	3.48	4.62	14.80	41.20	11.05	7.50	1.67	3.77	4.91	3.86		
17	4.24	42.00	3.48	4.24	12.25	31.80	10.15	6.88	1.49	3.77	5.00	3.86		
18	4.34	33.60	3.86	4.62	10.00	24.63	8.75	6.38	1.49	3.77	5.00	3.86		
19	4.24	29.20	4.62	4.72	9.25	18.85	7.50	5.88	1.67	3.77	5.00	3.86		
20	3.39	21.40	4.81	6.00	8.88	14.50	7.13	5.63	1.87	3.77	4.62	3.29		
21	2.65	17.50	4.91	11.95	8.13	16.00	14.65	5.38	2.06	3.77	5.13	3.48		
22	2.26	14.35	2.97	14.95	7.50	14.50	20.35	5.00	2.00	3.77	5.25	4.05		
23	1.87	9.38	2.32	11.50	9.25	12.40	33.80	4.53	2.13	4.24	5.50	3.96		
24	1.62	5.63	1.71	9.63	9.75	10.45	41.20	4.24	2.26	5.13	5.63	3.96		
25	1.44	4.15	1.58	12.70	14.35	8.63	35.00	4.15	1.93	5.38	5.00	3.96		
26	1.44	4.05	1.49	12.55	19.30	7.63	31.60	4.15	1.80	5.38	5.00	3.96		
27	2.13	2.58	1.40	10.30	15.10	7.25	31.00	3.96	2.00	5.25	4.72	3.96		
28	2.84	2.52	1.40	9.13	11.05	7.13	38.00	3.96	2.58	5.25	4.24	3.96		
29	4.72	1.76	1.44	7.63	9.25	6.63	41.80	3.86	2.52	5.63		3.86		
30	6.88	1.62	1.44	6.75	8.50	6.88	32.20	3.86	2.39	5.50		3.86		
31		3.10		5.75	7.50		24.28		3.96	6.50		2.39		
Total	78.92	852.11	94.41	181.04	394.31	654.71	665.94	527.26	71.56	132.37	146.18	117.57	3916.38	CMSDAY
Mean	2.63	27.49	3.15	5.84	12.72	21.82	21.48	17.58	2.31	4.27	5.22	3.79	10.73	CMS
Max	6.88	84.06	7.63	14.95	19.90	46.00	41.80	61.50	3.96	6.50	6.50	4.24	84.06	CMS
Min	1.44	1.62	1.40	1.44	6.25	6.63	7.13	3.86	1.49	3.77	4.24	2.39	1.40	CMS
Runoff	6.82	73.62	8.16	15.64	34.07	56.57	57.54	45.56	6.18	11.44	12.63	10.16	338.38	MCM

Momentary Peak 88.99 CMS. at 295.31 m. (MSL.) at 05.00 Hours , on May 13, 2008

Runoff Yield 9.02 Liters/Second/Square KM. Momentary Peak Yield 74.78 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

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

Lat 18 - 39 - 06 N Long 98 - 41 - 23 E

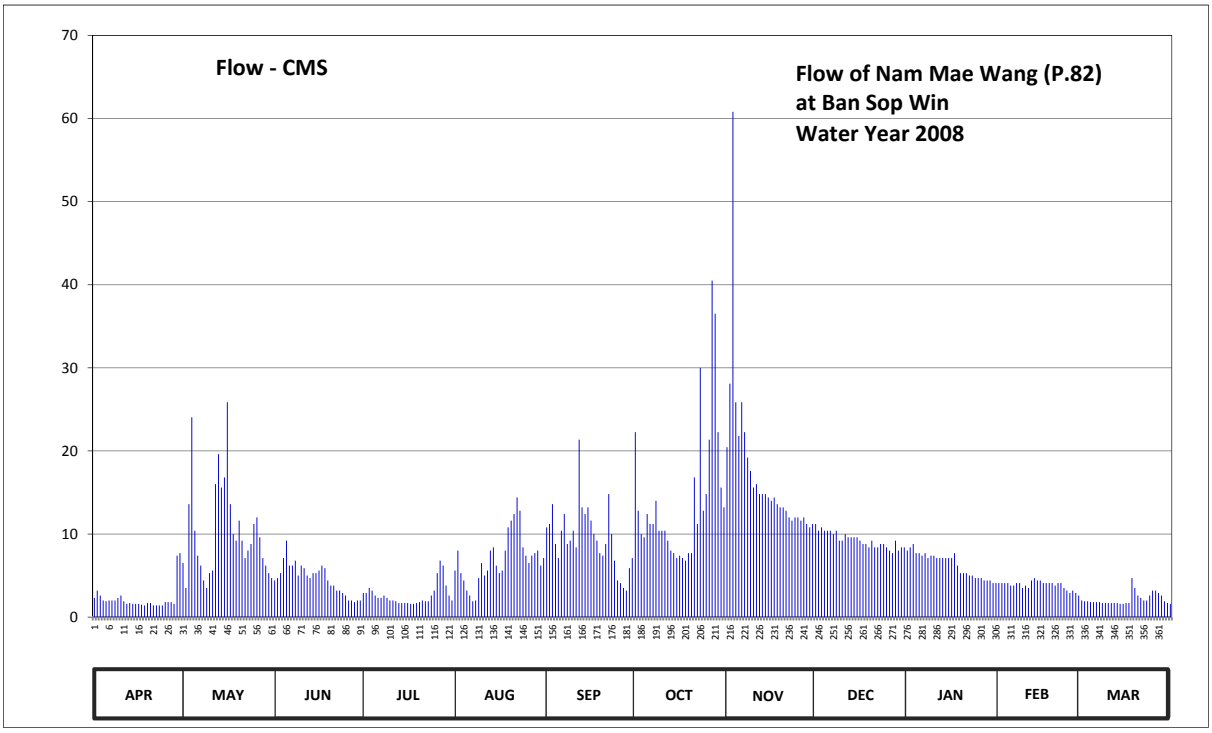
Location : on left bank at Ban Sop Win.

	Ban Sop Win	**Amphoe** Mae Wang	**Changwat** Chiang Mai
Drainge Area	389 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+396.830 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 5.00 meters from the top staff gage.		**Elevation** +403.390 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Float	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Fairly stable by some silting.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 153 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	398.21	398.35	398.28	398.23	398.32	398.47	398.75	398.71	398.48	398.40	398.27	398.20	
2	398.24	398.25	398.29	398.23	398.40	398.48	398.52	398.88	398.46	398.41	398.27	398.19	
3	398.22	398.54	398.31	398.25	398.31	398.54	398.45	399.48	398.47	398.42	398.27	398.19	
4	398.20	398.79	398.37	398.24	398.28	398.42	398.44	398.83	398.46	398.39	398.27	398.18	
5	398.19	398.46	398.43	398.22	398.24	398.37	398.51	398.74	398.46	398.39	398.26	398.18	
6	398.20	398.38	398.34	398.21	398.22	398.46	398.48	398.83	398.46	398.38	398.26	398.18	
7	398.20	398.34	398.34	398.21	398.19	398.51	398.48	398.75	398.45	398.39	398.27	398.18	
8	398.20	398.28	398.36	398.22	398.20	398.42	398.55	398.68	398.46	398.37	398.27	398.17	
9	398.21	398.25	398.30	398.21	398.29	398.43	398.46	398.64	398.43	398.38	398.25	398.17	
10	398.22	398.31	398.34	398.20	398.35	398.46	398.46	398.59	398.43	398.38	398.26	398.17	
11	398.19	398.32	398.33	398.20	398.30	398.41	398.46	398.60	398.45	398.37	398.25	398.17	
12	398.16	398.60	398.30	398.19	398.32	398.73	398.43	398.57	398.44	398.37	398.28	398.17	
13	398.17	398.69	398.29	398.17	398.40	398.53	398.40	398.57	398.44	398.37	398.29	398.17	
14	398.16	398.59	398.31	398.17	398.41	398.51	398.39	398.57	398.44	398.37	398.28	398.16	
15	398.16	398.62	398.31	398.17	398.34	398.53	398.37	398.56	398.44	398.37	398.28	398.16	
16	398.16	398.83	398.32	398.17	398.31	398.49	398.38	398.55	398.43	398.37	398.27	398.17	
17	398.15	398.54	398.34	398.16	398.32	398.45	398.37	398.56	398.42	398.39	398.27	398.17	
18	398.14	398.45	398.33	398.16	398.40	398.43	398.36	398.54	398.42	398.34	398.27	398.29	
19	398.17	398.43	398.28	398.17	398.47	398.39	398.39	398.53	398.41	398.31	398.27	398.25	
20	398.17	398.49	398.26	398.18	398.49	398.38	398.39	398.53	398.43	398.31	398.26	398.22	
21	398.14	398.43	398.26	398.20	398.51	398.42	398.62	398.52	398.41	398.31	398.27	398.21	
22	398.14	398.37	398.24	398.19	398.56	398.57	398.48	398.50	398.41	398.30	398.27	398.20	
23	398.14	398.40	398.24	398.19	398.52	398.45	398.92	398.49	398.42	398.30	398.25	398.20	
24	398.14	398.42	398.23	398.22	398.41	398.36	398.52	398.50	398.42	398.29	398.24	398.22	
25	398.18	398.48	398.22	398.24	398.38	398.28	398.57	398.50	398.41	398.29	398.23	398.24	
26	398.18	398.50	398.20	398.31	398.35	398.27	398.73	398.49	398.40	398.29	398.24	398.24	
27	398.18	398.44	398.20	398.36	398.38	398.25	399.13	398.50	398.39	398.28	398.23	398.23	
28	398.16	398.37	398.18	398.34	398.39	398.24	399.05	398.48	398.43	398.28	398.22	398.22	
29	398.38	398.34	398.20	398.26	398.40	398.33	398.75	398.47	398.40	398.28		398.19	
30	398.39	398.31	398.20	398.22	398.34	398.37	398.59	398.48	398.41	398.27		398.17	
31		398.29		398.20	398.37		398.53		398.41	398.27		398.16	
Mean	398.19	398.45	398.29	398.22	398.36	398.43	398.55	398.62	398.43	398.34	398.26	398.19	
Max	398.39	398.83	398.43	398.36	398.56	398.73	399.13	399.48	398.48	398.42	398.29	398.29	399.48
Min	398.14	398.25	398.18	398.16	398.19	398.24	398.36	398.47	398.39	398.27	398.22	398.16	398.14

Annual Max Momentary Gage Height	401.03	m. (MSL.) ,	at 01.00 Hours , on Nov 3, 2008		
Zero Gage at Bottom Elevation	396.83	m. (MSL.) ,	River Bed	397.52	m. (MSL.)
Left Bank Elevation	402.62	m. (MSL.) ,			
Right Bank Elevation	402.49	m. (MSL.) ,	Drainage Are	389	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.30	6.50	4.40	2.90	5.60	10.80	22.25	20.45	11.20	8.00	4.10	2.00		
2	3.20	3.50	4.70	2.90	8.00	11.20	12.80	28.10	10.40	8.40	4.10	1.90		
3	2.60	13.60	5.30	3.50	5.30	13.60	10.00	60.80	10.80	8.80	4.10	1.90		
4	2.00	24.05	7.10	3.20	4.40	8.80	9.60	25.85	10.40	7.70	4.10	1.80		
5	1.90	10.40	9.20	2.60	3.20	7.10	12.40	21.80	10.40	7.70	3.80	1.80		
6	2.00	7.40	6.20	2.30	2.60	10.40	11.20	25.85	10.40	7.40	3.80	1.80		
7	2.00	6.20	6.20	2.30	1.90	12.40	11.20	22.25	10.00	7.70	4.10	1.80		
8	2.00	4.40	6.80	2.60	2.00	8.80	14.00	19.20	10.40	7.10	4.10	1.70		
9	2.30	3.50	5.00	2.30	4.70	9.20	10.40	17.60	9.20	7.40	3.50	1.70		
10	2.60	5.30	6.20	2.00	6.50	10.40	10.40	15.60	9.20	7.40	3.80	1.70		
11	1.90	5.60	5.90	2.00	5.00	8.40	10.40	16.00	10.00	7.10	3.50	1.70		
12	1.60	16.00	5.00	1.90	5.60	21.35	9.20	14.80	9.60	7.10	4.40	1.70		
13	1.70	19.60	4.70	1.70	8.00	13.20	8.00	14.80	9.60	7.10	4.70	1.70		
14	1.60	15.60	5.30	1.70	8.40	12.40	7.70	14.80	9.60	7.10	4.40	1.60		
15	1.60	16.80	5.30	1.70	6.20	13.20	7.10	14.40	9.60	7.10	4.40	1.60		
16	1.60	25.85	5.60	1.70	5.30	11.60	7.40	14.00	9.20	7.10	4.10	1.70		
17	1.50	13.60	6.20	1.60	5.60	10.00	7.10	14.40	8.80	7.70	4.10	1.70		
18	1.40	10.00	5.90	1.60	8.00	9.20	6.80	13.60	8.80	6.20	4.10	4.70		
19	1.70	9.20	4.40	1.70	10.80	7.70	7.70	13.20	8.40	5.30	4.10	3.50		
20	1.70	11.60	3.80	1.80	11.60	7.40	7.70	13.20	9.20	5.30	3.80	2.60		
21	1.40	9.20	3.80	2.00	12.40	8.80	16.80	12.80	8.40	5.30	4.10	2.30		
22	1.40	7.10	3.20	1.90	14.40	14.80	11.20	12.00	8.40	5.00	4.10	2.00		
23	1.40	8.00	3.20	1.90	12.80	10.00	30.00	11.60	8.80	5.00	3.50	2.00		
24	1.40	8.80	2.90	2.60	8.40	6.80	12.80	12.00	8.80	4.70	3.20	2.60		
25	1.80	11.20	2.60	3.20	7.40	4.40	14.80	12.00	8.40	4.70	2.90	3.20		
26	1.80	12.00	2.00	5.30	6.50	4.10	21.35	11.60	8.00	4.70	3.20	3.20		
27	1.80	9.60	2.00	6.80	7.40	3.50	40.50	12.00	7.70	4.40	2.90	2.90		
28	1.60	7.10	1.80	6.20	7.70	3.20	36.50	11.20	9.20	4.40	2.60	2.60		
29	7.40	6.20	2.00	3.80	8.00	5.90	22.25	10.80	8.00	4.40		1.90		
30	7.70	5.30	2.00	2.60	6.20	7.10	15.60	11.20	8.40	4.10		1.70		
31		4.70		2.00	7.10		13.20		8.40	4.10		1.60		
Total	66.90	317.90	138.70	82.30	217.00	285.75	438.35	517.90	287.70	195.50	107.60	66.60	2722.20	CMSDAY
Mean	2.23	10.25	4.62	2.65	7.00	9.53	14.14	17.26	9.28	6.31	3.84	2.15	7.46	CMS
Max	7.70	25.85	9.20	6.80	14.40	21.35	40.50	60.80	11.20	8.80	4.70	4.70	60.80	CMS
Min	1.40	3.50	1.80	1.60	1.90	3.20	6.80	10.80	7.70	4.10	2.60	1.60	1.40	CMS
Runoff	5.78	27.47	11.98	7.11	18.75	24.69	37.87	44.75	24.86	16.89	9.30	5.75	235.20	MCM

Momentary Peak 172.40 CMS. at 401.03 m. (MSL.) at 01.00 Hours , on Nov 3, 2008

Runoff Yield 19.17 Liters/Second/Square KM. Momentary Peak Yield 443.19 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

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

Lat 18 - 35 - 19 N Long 98 - 47 - 58 E

Location : on left bank at Ban Phan Ton.

Ban Phan Ton **Amphoe** Mae Wang **Changwat** Chiang Mai

Drainge Area	491 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+303.240 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the abutment of the bridge. **Elevation** +309.240 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2003 to date
Rating Operation	
Period of Rating	2003 to date
Rated by Float	-
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 29 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

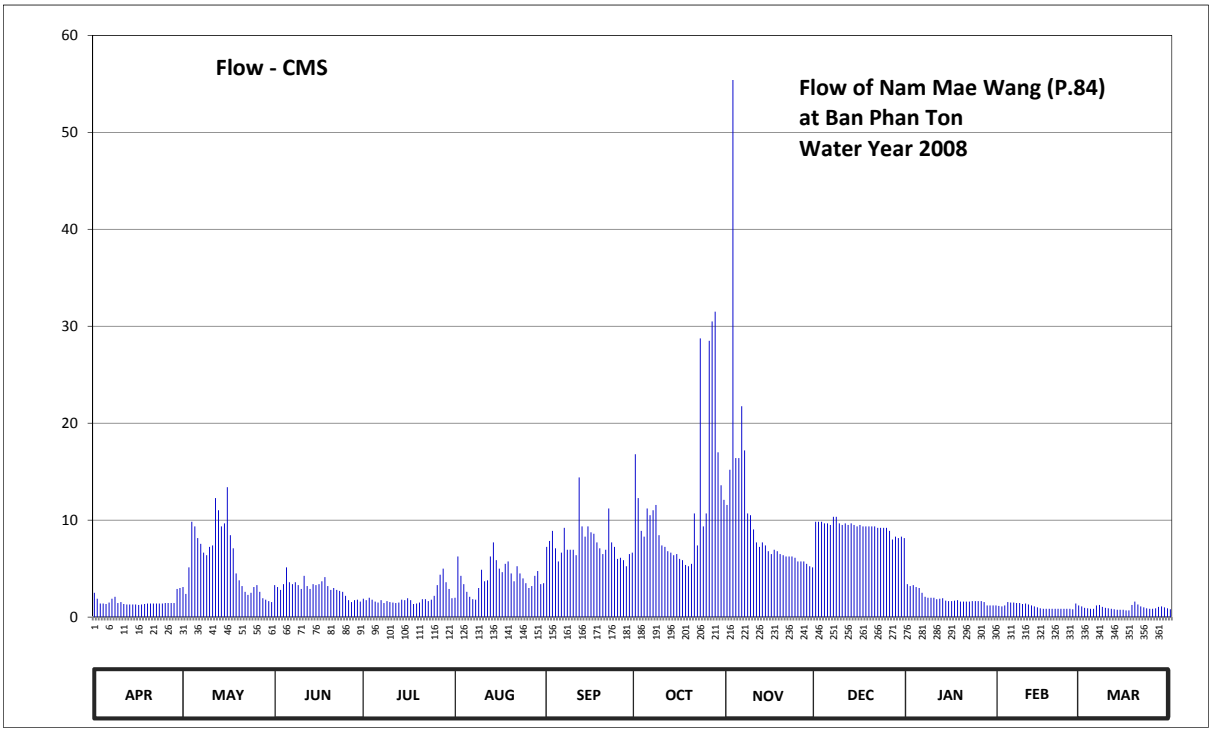
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	304.05	304.11	304.13	303.98	304.00	304.45	304.99	304.72	304.62	304.14	303.83	303.82	
2	303.98	304.04	304.11	303.95	304.38	304.49	304.76	304.91	304.62	304.12	303.82	303.79	
3	303.88	304.29	304.08	304.00	304.22	304.56	304.56	306.44	304.62	304.13	303.84	303.78	
4	303.88	304.62	304.14	303.96	304.14	304.44	304.52	304.97	304.61	304.11	303.91	303.77	
5	303.87	304.59	304.29	303.92	304.06	304.34	304.70	304.97	304.61	304.10	303.90	303.77	
6	303.90	304.51	304.16	303.90	304.01	304.41	304.66	305.23	304.60	304.05	303.90	303.84	
7	303.98	304.47	304.14	303.95	303.97	304.58	304.69	305.01	304.65	304.01	303.89	303.85	
8	304.01	304.41	304.16	303.89	303.96	304.43	304.72	304.67	304.65	304.00	303.89	303.81	
9	303.89	304.39	304.13	303.93	304.10	304.43	304.53	304.66	304.61	304.00	303.87	303.79	
10	303.91	304.45	304.09	303.91	304.27	304.43	304.46	304.57	304.60	304.00	303.88	303.78	
11	303.87	304.46	304.22	303.90	304.17	304.39	304.45	304.48	304.61	303.97	303.86	303.77	
12	303.86	304.76	304.12	303.89	304.18	304.87	304.42	304.45	304.60	303.98	303.84	303.76	
13	303.86	304.69	304.09	303.90	304.38	304.59	304.41	304.48	304.61	303.99	303.82	303.75	
14	303.86	304.59	304.14	303.96	304.48	304.52	304.39	304.46	304.60	303.94	303.80	303.75	
15	303.86	304.61	304.13	303.95	304.35	304.59	304.40	304.42	304.59	303.93	303.78	303.75	
16	303.85	304.82	304.14	303.99	304.28	304.55	304.36	304.40	304.60	303.93	303.77	303.74	
17	303.86	304.53	304.17	303.95	304.25	304.54	304.35	304.43	304.59	303.94	303.77	303.74	
18	303.87	304.44	304.21	303.87	304.32	304.48	304.31	304.42	304.59	303.95	303.77	303.85	
19	303.88	304.24	304.12	303.88	304.34	304.44	304.30	304.40	304.59	303.92	303.77	303.92	
20	303.88	304.18	304.08	303.90	304.24	304.40	304.32	304.39	304.59	303.92	303.77	303.86	
21	303.88	304.12	304.10	303.97	304.17	304.43	304.67	304.38	304.59	303.92	303.77	303.82	
22	303.88	304.06	304.08	303.97	304.30	304.70	304.46	304.38	304.58	303.92	303.77	303.80	
23	303.88	304.03	304.07	303.93	304.24	304.48	305.51	304.38	304.58	303.93	303.77	303.78	
24	303.88	304.05	304.06	303.96	304.20	304.45	304.59	304.37	304.58	303.93	303.77	303.77	
25	303.89	304.11	304.02	304.02	304.15	304.36	304.67	304.34	304.58	303.93	303.77	303.77	
26	303.89	304.13	303.95	304.13	304.10	304.37	305.50	304.34	304.56	303.93	303.76	303.78	
27	303.89	304.06	303.91	304.23	304.12	304.35	305.58	304.34	304.50	303.91	303.88	303.81	
28	303.89	303.99	303.95	304.28	304.22	304.30	305.62	304.32	304.52	303.84	303.84	303.82	
29	304.09	303.96	303.96	304.16	304.26	304.40	305.00	304.30	304.51	303.84		303.80	
30	304.10	303.93	303.92	304.09	304.14	304.41	304.83	304.29	304.52	303.84		303.78	
31		303.91		303.99	304.15		304.75		304.51	303.84		303.76	
Mean	303.91	304.31	304.10	303.98	304.20	304.47	304.69	304.60	304.59	303.97	303.82	303.79	
Max	304.10	304.82	304.29	304.28	304.48	304.87	305.62	306.44	304.65	304.14	303.91	303.92	306.44
Min	303.85	303.91	303.91	303.87	303.96	304.30	304.30	304.29	304.50	303.84	303.76	303.74	303.74

Annual Max Momentary Gage Height 307.29 m. (MSL.) , at 06.00 Hours , on Nov 3, 2008

Zero Gage at Bottom Elevation 303.24 m. (MSL.) , River Bed 303.26 m. (MSL.)

Left Bank Elevation 309.04 m. (MSL.) ,

Right Bank Elevation 309.03 m. (MSL.) , Drainage Are 491 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.50	3.10	3.30	1.90	2.00	7.25	16.80	11.56	9.84	3.40	1.15	1.10		
2	1.90	2.40	3.10	1.75	6.25	7.85	12.28	15.20	9.84	3.20	1.10	0.95		
3	1.40	5.13	2.80	2.00	4.25	8.90	8.90	55.40	9.84	3.30	1.20	0.90		
4	1.40	9.84	3.40	1.80	3.40	7.10	8.30	16.40	9.67	3.10	1.55	0.85		
5	1.35	9.35	5.13	1.60	2.60	5.75	11.20	16.40	9.67	3.00	1.50	0.85		
6	1.50	8.15	3.60	1.50	2.10	6.65	10.52	21.75	9.50	2.50	1.50	1.20		
7	1.90	7.55	3.40	1.75	1.85	9.20	11.03	17.20	10.35	2.10	1.45	1.25		
8	2.10	6.65	3.60	1.45	1.80	6.95	11.56	10.69	10.35	2.00	1.45	1.05		
9	1.45	6.38	3.30	1.65	3.00	6.95	8.45	10.52	9.67	2.00	1.35	0.95		
10	1.55	7.25	2.90	1.55	4.88	6.95	7.40	9.05	9.50	2.00	1.40	0.90		
11	1.35	7.40	4.25	1.50	3.70	6.38	7.25	7.70	9.67	1.85	1.30	0.85		
12	1.30	12.28	3.20	1.45	3.80	14.40	6.80	7.25	9.50	1.90	1.20	0.80		
13	1.30	11.03	2.90	1.50	6.25	9.35	6.65	7.70	9.67	1.95	1.10	0.75		
14	1.30	9.35	3.40	1.80	7.70	8.30	6.38	7.40	9.50	1.70	1.00	0.75		
15	1.30	9.67	3.30	1.75	5.88	9.35	6.50	6.80	9.35	1.65	0.90	0.75		
16	1.25	13.40	3.40	1.95	5.00	8.75	6.00	6.50	9.50	1.65	0.85	0.70		
17	1.30	8.45	3.70	1.75	4.63	8.60	5.88	6.95	9.35	1.70	0.85	0.70		
18	1.35	7.10	4.13	1.35	5.50	7.70	5.38	6.80	9.35	1.75	0.85	1.25		
19	1.40	4.50	3.20	1.40	5.75	7.10	5.25	6.50	9.35	1.60	0.85	1.60		
20	1.40	3.80	2.80	1.50	4.50	6.50	5.50	6.38	9.35	1.60	0.85	1.30		
21	1.40	3.20	3.00	1.85	3.70	6.95	10.69	6.25	9.35	1.60	0.85	1.10		
22	1.40	2.60	2.80	1.85	5.25	11.20	7.40	6.25	9.20	1.60	0.85	1.00		
23	1.40	2.30	2.70	1.65	4.50	7.70	28.75	6.25	9.20	1.65	0.85	0.90		
24	1.40	2.50	2.60	1.80	4.00	7.25	9.35	6.13	9.20	1.65	0.85	0.85		
25	1.45	3.10	2.20	2.20	3.50	6.00	10.69	5.75	9.20	1.65	0.85	0.85		
26	1.45	3.30	1.75	3.30	3.00	6.13	28.50	5.75	8.90	1.65	0.80	0.90		
27	1.45	2.60	1.55	4.38	3.20	5.88	30.50	5.75	8.00	1.55	1.40	1.05		
28	1.45	1.95	1.75	5.00	4.25	5.25	31.50	5.50	8.30	1.20	1.20	1.10		
29	2.90	1.80	1.80	3.60	4.75	6.50	17.00	5.25	8.15	1.20		1.00		
30	3.00	1.65	1.60	2.90	3.40	6.65	13.60	5.13	8.30	1.20		0.90		
31		1.55		1.95	3.50		12.10		8.15	1.20		0.80		
Total	47.60	179.33	90.56	63.38	127.89	229.49	368.11	312.16	288.77	60.10	31.05	29.90	1828.34	CMSDAY
Mean	1.59	5.78	3.02	2.04	4.13	7.65	11.87	10.41	9.32	1.94	1.11	0.96	5.01	CMS
Max	3.00	13.40	5.13	5.00	7.70	14.40	31.50	55.40	10.35	3.40	1.55	1.60	55.40	CMS
Min	1.25	1.55	1.55	1.35	1.80	5.25	5.25	5.13	8.00	1.20	0.80	0.70	0.70	CMS
Runoff	4.11	15.49	7.82	5.48	11.05	19.83	31.80	26.97	24.95	5.19	2.68	2.58	157.97	MCM

Momentary Peak 85.15 CMS. at 307.29 m. (MSL.) at 06.00 Hours , on Nov 3, 2008

Runoff Yield 10.20 Liters/Second/Square KM. Momentary Peak Yield 173.42 Liters/Second/Square KM.

WATER YEAR : 2008

PING RIVER BASIN

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

Lat 18 - 21 - 49 N Long 98 - 46 - 31 E

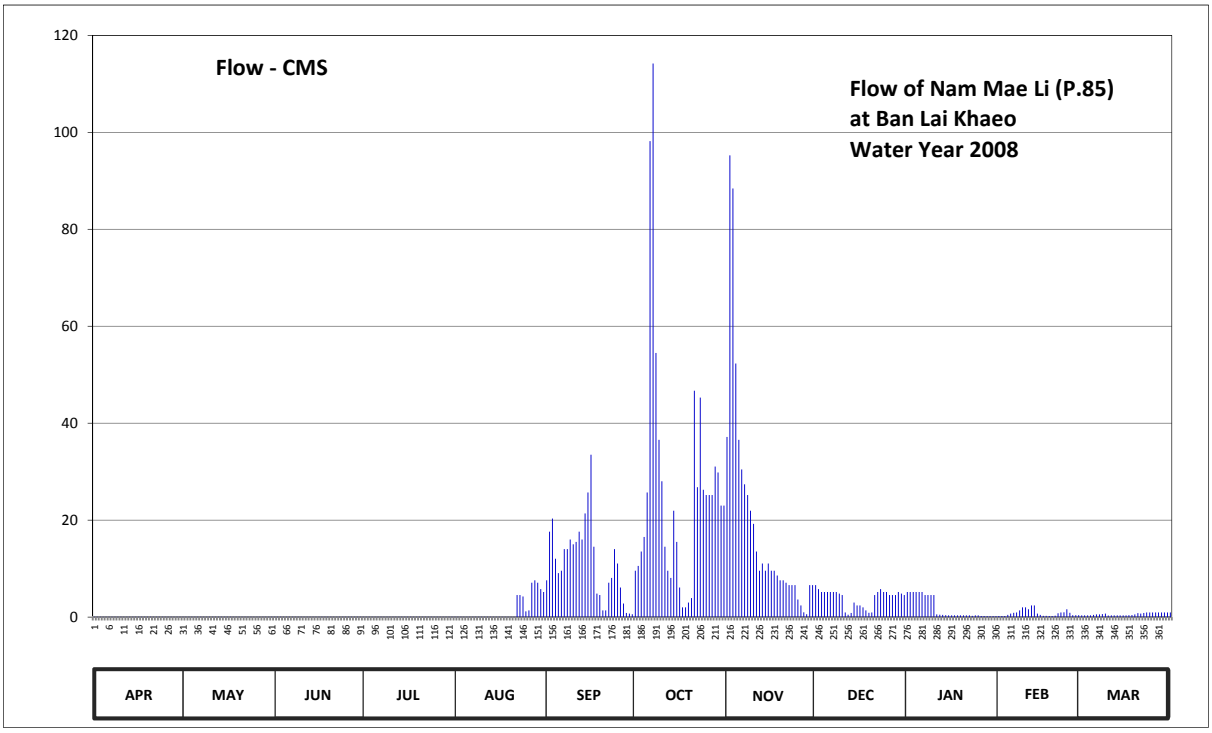
Location : on right bank at Ban Lai Khaeo.

	Ban Lai Khaeo	**Amphoe** Ban Hong	**Changwat** Lamphun
Drainge 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 mean of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Float	-		
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 fair.Stage-discharge relation defined by 9 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	290.07	290.07	290.07	290.07	290.07	291.03	291.07	291.57	291.01	290.97	290.23	290.37	
2	290.07	290.07	290.07	290.07	290.07	291.23	291.09	292.30	290.99	290.97	290.23	290.37	
3	290.07	290.07	290.07	290.07	290.07	291.28	291.15	292.23	290.97	290.97	290.23	290.37	
4	290.07	290.07	290.07	290.07	290.07	291.12	291.21	291.79	290.97	290.97	290.47	290.37	
5	290.07	290.07	290.07	290.07	290.07	291.06	291.38	291.56	290.97	290.97	290.67	290.47	
6	290.07	290.07	290.07	290.07	290.07	291.07	292.33	291.46	290.97	290.97	290.75	290.57	
7	290.07	290.07	290.07	290.07	290.07	291.16	292.48	291.41	290.97	290.95	290.77	290.57	
8	290.07	290.07	290.07	290.07	290.07	291.16	291.82	291.37	290.97	290.95	290.82	290.62	
9	290.07	290.07	290.07	290.07	290.07	291.20	291.56	291.31	290.96	290.95	290.85	290.67	
10	290.07	290.07	290.07	290.07	290.07	291.18	291.42	291.26	290.95	290.95	290.85	290.32	
11	290.07	290.07	290.07	290.07	290.07	291.19	291.17	291.15	290.78	290.57	290.83	290.35	
12	290.07	290.07	290.07	290.07	290.07	291.23	291.07	291.07	290.50	290.49	290.87	290.35	
13	290.07	290.07	290.07	290.07	290.07	291.20	291.04	291.10	290.73	290.47	290.87	290.35	
14	290.07	290.07	290.07	290.07	290.07	291.30	291.31	291.07	290.90	290.41	290.67	290.35	
15	290.07	290.07	290.07	290.07	290.07	291.38	291.19	291.10	290.87	290.37	290.47	290.37	
16	290.07	290.07	290.07	290.07	290.07	291.51	291.00	291.07	290.87	290.37	290.27	290.37	
17	290.07	290.07	290.07	290.07	290.07	291.17	290.85	291.07	290.85	290.37	290.27	290.38	
18	290.07	290.07	290.07	290.07	290.07	290.96	290.85	291.05	290.82	290.37	290.23	290.43	
19	290.07	290.07	290.07	290.07	290.07	290.95	290.90	291.03	290.75	290.37	290.23	290.57	
20	290.07	290.07	290.07	290.07	290.07	290.82	290.93	291.03	290.77	290.37	290.28	290.71	
21	290.07	290.07	290.07	290.07	290.07	290.82	291.71	291.02	290.95	290.37	290.70	290.67	
22	290.07	290.07	290.07	290.07	290.95	291.02	291.40	291.01	290.97	290.37	290.78	290.73	
23	290.07	290.07	290.07	290.07	290.95	291.04	291.69	291.01	290.99	290.25	290.80	290.77	
24	290.07	290.07	290.07	290.07	290.94	291.16	291.39	291.01	290.97	290.36	290.83	290.77	
25	290.07	290.07	290.07	290.07	290.81	291.10	291.37	290.92	290.97	290.36	290.75	290.77	
26	290.07	290.07	290.07	290.07	290.82	291.00	291.37	290.87	290.95	290.23	290.38	290.77	
27	290.07	290.07	290.07	290.07	291.02	290.89	291.37	290.79	290.95	290.22	290.38	290.77	
28	290.07	290.07	290.07	290.07	291.03	290.72	291.47	290.60	290.95	290.21	290.38	290.77	
29	290.07	290.07	290.07	290.07	291.02	290.67	291.45	291.01	290.97	290.21		290.77	
30	290.07	290.07	290.07	290.07	290.99	290.58	291.33	291.01	290.96	290.21		290.77	
31		290.07		290.07	290.97		291.33		290.95	290.21		290.77	
Mean	290.07	290.07	290.07	290.07	290.35	291.07	291.35	291.21	290.91	290.54	290.57	290.56	
Max	290.07	290.07	290.07	290.07	291.03	291.51	292.48	292.30	291.01	290.97	290.87	290.77	292.48
Min	290.07	290.07	290.07	290.07	290.07	290.58	290.85	290.60	290.50	290.21	290.23	290.32	290.07

Annual Max Momentary Gage Height	292.62	m. (MSL.) ,	at 13.00 Hours , on Oct 7 , 2008		
Zero Gage at Bottom Elevation	290.37	m. (MSL.) ,	River Bed	289.47	m. (MSL.)
Left Bank Elevation	295.36	m. (MSL.) ,			
Right Bank Elevation	295.35	m. (MSL.) ,	Drainage Are	2,037	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.07	0.07	0.07	0.07	0.07	7.59	9.57	37.17	6.60	5.17	0.23	0.37		
2	0.07	0.07	0.07	0.07	0.07	17.62	10.56	95.25	5.79	5.17	0.23	0.37		
3	0.07	0.07	0.07	0.07	0.07	20.32	13.53	88.42	5.17	5.17	0.23	0.37		
4	0.07	0.07	0.07	0.07	0.07	12.04	16.54	52.30	5.17	5.17	0.47	0.37		
5	0.07	0.07	0.07	0.07	0.07	9.07	25.72	36.56	5.17	5.17	0.74	0.47		
6	0.07	0.07	0.07	0.07	0.07	9.57	98.18	30.46	5.17	5.17	0.90	0.57		
7	0.07	0.07	0.07	0.07	0.07	14.02	114.20	27.41	5.17	4.55	0.94	0.57		
8	0.07	0.07	0.07	0.07	0.07	14.02	54.50	25.18	5.17	4.55	1.40	0.64		
9	0.07	0.07	0.07	0.07	0.07	16.00	36.56	21.94	4.86	4.55	2.00	0.74		
10	0.07	0.07	0.07	0.07	0.07	15.01	28.02	19.24	4.55	4.55	2.00	0.32		
11	0.07	0.07	0.07	0.07	0.07	15.50	14.52	13.53	0.96	0.57	1.60	0.35		
12	0.07	0.07	0.07	0.07	0.07	17.62	9.57	9.57	0.50	0.49	2.40	0.35		
13	0.07	0.07	0.07	0.07	0.07	16.00	8.08	11.05	0.86	0.47	2.40	0.35		
14	0.07	0.07	0.07	0.07	0.07	21.40	21.94	9.57	3.00	0.41	0.74	0.35		
15	0.07	0.07	0.07	0.07	0.07	25.72	15.50	11.05	2.40	0.37	0.47	0.37		
16	0.07	0.07	0.07	0.07	0.07	33.51	6.10	9.57	2.40	0.37	0.27	0.37		
17	0.07	0.07	0.07	0.07	0.07	14.52	2.00	9.57	2.00	0.37	0.27	0.38		
18	0.07	0.07	0.07	0.07	0.07	4.86	2.00	8.58	1.40	0.37	0.23	0.43		
19	0.07	0.07	0.07	0.07	0.07	4.55	3.00	7.59	0.90	0.37	0.23	0.57		
20	0.07	0.07	0.07	0.07	0.07	1.40	3.93	7.59	0.94	0.37	0.28	0.82		
21	0.07	0.07	0.07	0.07	0.07	1.40	46.70	7.09	4.55	0.37	0.80	0.74		
22	0.07	0.07	0.07	0.07	4.55	7.09	26.80	6.60	5.17	0.37	0.96	0.86		
23	0.07	0.07	0.07	0.07	4.55	8.08	45.30	6.60	5.79	0.25	1.00	0.94		
24	0.07	0.07	0.07	0.07	4.24	14.02	26.26	6.60	5.17	0.36	1.60	0.94		
25	0.07	0.07	0.07	0.07	1.20	11.05	25.18	3.62	5.17	0.36	0.90	0.94		
26	0.07	0.07	0.07	0.07	1.40	6.10	25.18	2.40	4.55	0.23	0.38	0.94		
27	0.07	0.07	0.07	0.07	7.09	2.80	25.18	0.98	4.55	0.22	0.38	0.94		
28	0.07	0.07	0.07	0.07	7.59	0.84	31.07	0.60	4.55	0.21	0.38	0.94		
29	0.07	0.07	0.07	0.07	7.09	0.74	29.85	6.60	5.17	0.21		0.94		
30	0.07	0.07	0.07	0.07	5.79	0.58	23.02	6.60	4.86	0.21		0.94		
31		0.07		0.07	5.17		23.02		4.55	0.21		0.94		
Total	2.10	2.17	2.10	2.17	50.14	343.04	821.58	579.29	122.26	56.38	24.43	19.19	2024.85	CMSDAY
Mean	0.07	0.07	0.07	0.07	1.62	11.43	26.50	19.31	3.94	1.82	0.87	0.62	5.55	CMS
Max	0.07	0.07	0.07	0.07	7.59	33.51	114.20	95.25	6.60	5.17	2.40	0.94	114.20	CMS
Min	0.07	0.07	0.07	0.07	0.07	0.58	2.00	0.60	0.50	0.21	0.23	0.32	0.07	CMS
Runoff	0.18	0.19	0.18	0.19	4.33	29.64	70.98	50.05	10.56	4.87	2.11	1.66	174.95	MCM

Momentary Peak 130.70 CMS. at 292.62 m. (MSL.) at 13.00 Hours , on Oct 7, 2008

Runoff Yield 2.72 Liters/Second/Square KM. Momentary Peak Yield 64.16 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
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 21 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

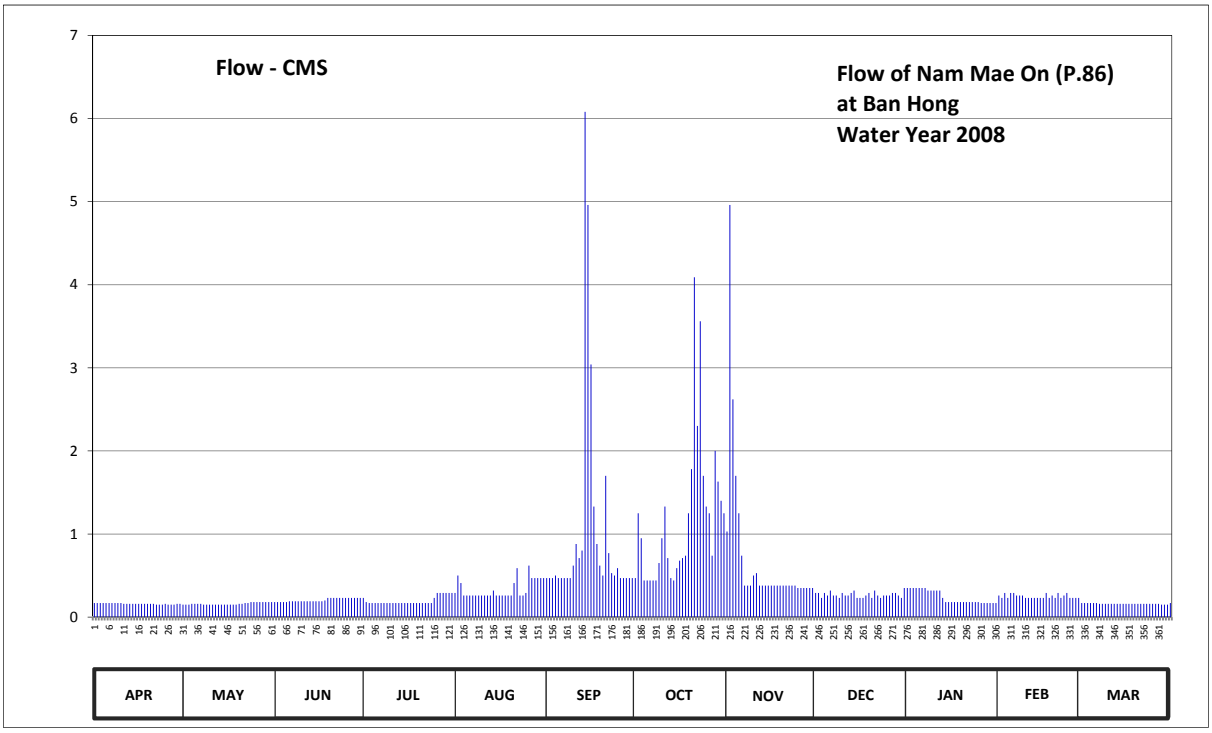
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	341.57	341.55	341.58	341.61	341.63	341.69	341.69	341.83	341.63	341.65	341.62	341.57	
2	341.57	341.55	341.58	341.58	341.70	341.69	341.86	342.24	341.63	341.65	341.61	341.57	
3	341.57	341.55	341.58	341.57	341.67	341.69	341.82	342.03	341.61	341.65	341.63	341.57	
4	341.57	341.56	341.58	341.57	341.62	341.70	341.68	341.92	341.63	341.65	341.61	341.57	
5	341.57	341.56	341.58	341.57	341.62	341.69	341.68	341.86	341.62	341.65	341.63	341.57	
6	341.57	341.56	341.59	341.57	341.62	341.69	341.68	341.78	341.64	341.65	341.63	341.57	
7	341.57	341.56	341.59	341.57	341.62	341.69	341.68	341.66	341.62	341.65	341.62	341.56	
8	341.57	341.55	341.59	341.57	341.62	341.69	341.68	341.66	341.62	341.64	341.62	341.56	
9	341.57	341.55	341.59	341.57	341.62	341.69	341.75	341.66	341.61	341.64	341.62	341.56	
10	341.57	341.55	341.59	341.57	341.62	341.74	341.82	341.70	341.63	341.64	341.61	341.56	
11	341.56	341.55	341.59	341.57	341.62	341.81	341.87	341.71	341.62	341.64	341.61	341.56	
12	341.56	341.55	341.59	341.57	341.62	341.77	341.77	341.66	341.62	341.64	341.61	341.56	
13	341.56	341.55	341.59	341.57	341.62	341.80	341.69	341.66	341.63	341.61	341.61	341.56	
14	341.56	341.55	341.59	341.57	341.64	342.32	341.68	341.66	341.64	341.58	341.61	341.56	
15	341.56	341.55	341.59	341.57	341.62	342.24	341.73	341.66	341.61	341.58	341.61	341.56	
16	341.56	341.55	341.59	341.57	341.62	342.07	341.76	341.66	341.61	341.58	341.61	341.56	
17	341.56	341.55	341.59	341.57	341.62	341.87	341.77	341.66	341.61	341.58	341.63	341.56	
18	341.56	341.55	341.60	341.57	341.62	341.81	341.78	341.66	341.62	341.58	341.61	341.56	
19	341.56	341.55	341.61	341.57	341.62	341.74	341.86	341.66	341.63	341.58	341.62	341.56	
20	341.56	341.56	341.61	341.57	341.62	341.70	341.93	341.66	341.61	341.58	341.61	341.56	
21	341.56	341.56	341.61	341.57	341.67	341.92	342.17	341.66	341.64	341.58	341.63	341.56	
22	341.55	341.57	341.61	341.57	341.73	341.79	342.00	341.66	341.62	341.58	341.61	341.56	
23	341.55	341.57	341.61	341.57	341.62	341.71	342.12	341.66	341.61	341.58	341.62	341.56	
24	341.55	341.58	341.61	341.57	341.62	341.70	341.92	341.66	341.62	341.58	341.63	341.56	
25	341.56	341.58	341.61	341.61	341.63	341.73	341.87	341.65	341.62	341.58	341.61	341.56	
26	341.55	341.58	341.61	341.63	341.74	341.69	341.86	341.65	341.62	341.57	341.61	341.56	
27	341.55	341.58	341.61	341.63	341.69	341.69	341.78	341.65	341.63	341.57	341.61	341.56	
28	341.55	341.58	341.61	341.63	341.69	341.69	341.96	341.65	341.63	341.57	341.61	341.55	
29	341.56	341.58	341.61	341.63	341.69	341.69	341.91	341.65	341.62	341.57		341.55	
30	341.56	341.58	341.61	341.63	341.69	341.69	341.88	341.65	341.61	341.57		341.55	
31		341.58		341.63	341.69		341.86		341.65	341.57		341.57	
Mean	341.56	341.56	341.60	341.58	341.65	341.78	341.82	341.72	341.62	341.60	341.62	341.56	
Max	341.57	341.58	341.61	341.63	341.74	342.32	342.17	342.24	341.65	341.65	341.63	341.57	342.32
Min	341.55	341.55	341.58	341.57	341.62	341.69	341.68	341.65	341.61	341.57	341.61	341.55	341.55

Annual Max Momentary Gage Height 343.08 m. (MSL.) , at 18.00 Hours , on Sep 14, 2008

Zero Gage at Bottom Elevation 341.21 m. (MSL.) , River Bed 341.06 m. (MSL.)

Left Bank Elevation 345.41 m. (MSL.) ,

Right Bank Elevation 345.39 m. (MSL.) , Drainage Are 97 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.17	0.15	0.18	0.23	0.29	0.47	0.47	1.03	0.29	0.35	0.26	0.17		
2	0.17	0.15	0.18	0.18	0.50	0.47	1.25	4.96	0.29	0.35	0.23	0.17		
3	0.17	0.15	0.18	0.17	0.41	0.47	0.95	2.62	0.23	0.35	0.29	0.17		
4	0.17	0.16	0.18	0.17	0.26	0.50	0.44	1.70	0.29	0.35	0.23	0.17		
5	0.17	0.16	0.18	0.17	0.26	0.47	0.44	1.25	0.26	0.35	0.29	0.17		
6	0.17	0.16	0.19	0.17	0.26	0.47	0.44	0.74	0.32	0.35	0.29	0.17		
7	0.17	0.16	0.19	0.17	0.26	0.47	0.44	0.38	0.26	0.35	0.26	0.16		
8	0.17	0.15	0.19	0.17	0.26	0.47	0.44	0.38	0.26	0.32	0.26	0.16		
9	0.17	0.15	0.19	0.17	0.26	0.47	0.65	0.38	0.23	0.32	0.26	0.16		
10	0.17	0.15	0.19	0.17	0.26	0.62	0.95	0.50	0.29	0.32	0.23	0.16		
11	0.16	0.15	0.19	0.17	0.26	0.88	1.33	0.53	0.26	0.32	0.23	0.16		
12	0.16	0.15	0.19	0.17	0.26	0.71	0.71	0.38	0.26	0.32	0.23	0.16		
13	0.16	0.15	0.19	0.17	0.26	0.80	0.47	0.38	0.29	0.23	0.23	0.16		
14	0.16	0.15	0.19	0.17	0.32	6.08	0.44	0.38	0.32	0.18	0.23	0.16		
15	0.16	0.15	0.19	0.17	0.26	4.96	0.59	0.38	0.23	0.18	0.23	0.16		
16	0.16	0.15	0.19	0.17	0.26	3.04	0.68	0.38	0.23	0.18	0.23	0.16		
17	0.16	0.15	0.19	0.17	0.26	1.33	0.71	0.38	0.23	0.18	0.29	0.16		
18	0.16	0.15	0.20	0.17	0.26	0.88	0.74	0.38	0.26	0.18	0.23	0.16		
19	0.16	0.15	0.23	0.17	0.26	0.62	1.25	0.38	0.29	0.18	0.26	0.16		
20	0.16	0.16	0.23	0.17	0.26	0.50	1.78	0.38	0.23	0.18	0.23	0.16		
21	0.16	0.16	0.23	0.17	0.41	1.70	4.09	0.38	0.32	0.18	0.29	0.16		
22	0.15	0.17	0.23	0.17	0.59	0.77	2.30	0.38	0.26	0.18	0.23	0.16		
23	0.15	0.17	0.23	0.17	0.26	0.53	3.56	0.38	0.23	0.18	0.26	0.16		
24	0.15	0.18	0.23	0.17	0.26	0.50	1.70	0.38	0.26	0.18	0.29	0.16		
25	0.16	0.18	0.23	0.23	0.29	0.59	1.33	0.35	0.26	0.18	0.23	0.16		
26	0.15	0.18	0.23	0.29	0.62	0.47	1.25	0.35	0.26	0.17	0.23	0.16		
27	0.15	0.18	0.23	0.29	0.47	0.47	0.74	0.35	0.29	0.17	0.23	0.16		
28	0.15	0.18	0.23	0.29	0.47	0.47	2.00	0.35	0.29	0.17	0.23	0.15		
29	0.16	0.18	0.23	0.29	0.47	0.47	1.63	0.35	0.26	0.17		0.15		
30	0.16	0.18	0.23	0.29	0.47	0.47	1.40	0.35	0.23	0.17		0.15		
31		0.18		0.29	0.47		1.25		0.35	0.17		0.17		
Total	4.84	4.99	6.14	6.12	10.46	31.12	36.42	21.51	8.33	7.46	6.98	5.00	149.37	CMSDAY
Mean	0.16	0.16	0.20	0.20	0.34	1.04	1.17	0.72	0.27	0.24	0.25	0.16	0.41	CMS
Max	0.17	0.18	0.23	0.29	0.62	6.08	4.09	4.96	0.35	0.35	0.29	0.17	6.08	CMS
Min	0.15	0.15	0.18	0.17	0.26	0.47	0.44	0.35	0.23	0.17	0.23	0.15	0.15	CMS
Runoff	0.42	0.43	0.53	0.53	0.90	2.69	3.15	1.86	0.72	0.64	0.60	0.43	12.91	MCM

Momentary Peak 18.60 CMS. at 343.08 m. (MSL.) at 18.00 Hours , on Sep 14, 2008

Runoff Yield 4.22 Liters/Second/Square KM. Momentary Peak Yield 191.75 Liters/Second/Square KM.

WATER YEAR : 2008

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 Cang **Changwat** Lamphun

Drainge Area	934 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 gage site. **Elevation** +5.000 m. (A.D.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2005 to date
Rating Operation	
Period of Rating	2005 to date
Rated by Float	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Fairly stable by some silting
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2008.

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

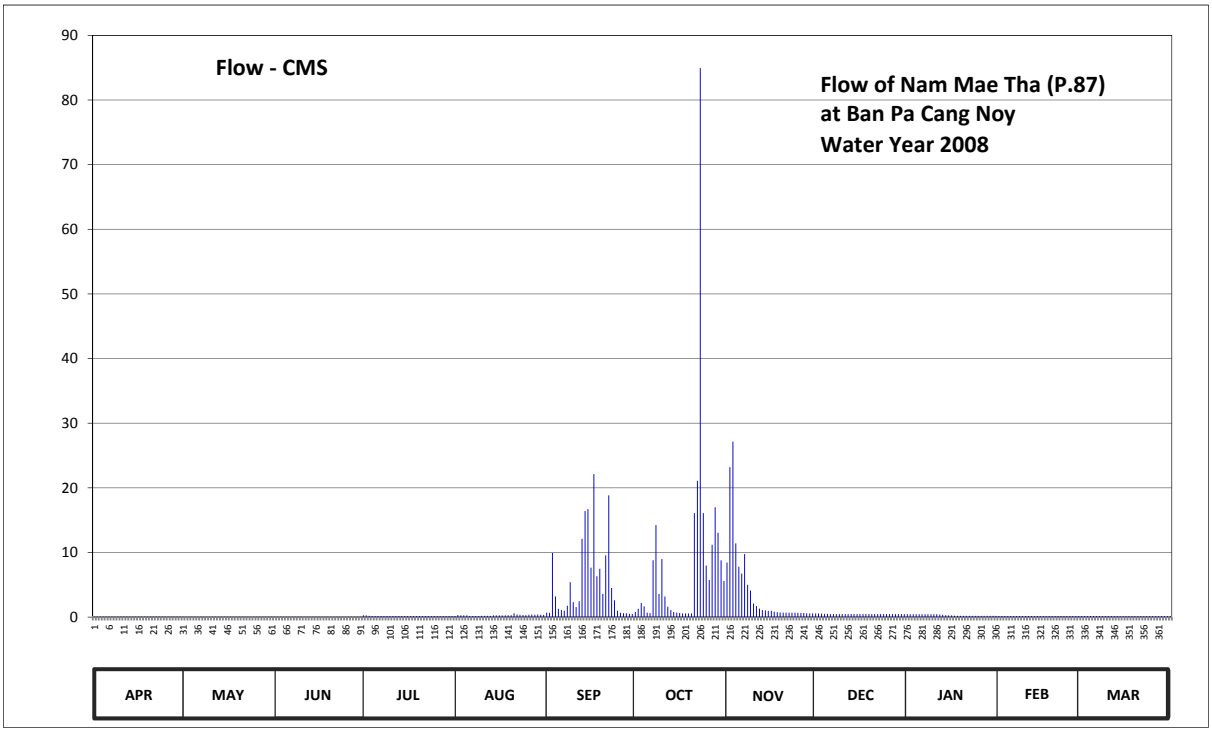
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.74	0.73	0.73	0.85	0.78	1.05	1.10	1.99	0.98	0.92	0.79	0.78	
2	0.74	0.73	0.73	0.84	0.86	1.03	1.22	2.55	0.98	0.92	0.79	0.78	
3	0.74	0.73	0.73	0.80	0.84	2.07	1.41	2.66	0.97	0.92	0.79	0.78	
4	0.74	0.73	0.73	0.78	0.83	1.55	1.31	2.14	0.95	0.92	0.79	0.78	
5	0.74	0.73	0.73	0.78	0.84	1.22	1.05	1.95	0.95	0.92	0.79	0.78	
6	0.74	0.73	0.73	0.78	0.79	1.17	1.01	1.88	0.94	0.92	0.79	0.78	
7	0.74	0.73	0.73	0.78	0.79	1.15	2.01	2.06	0.94	0.92	0.79	0.78	
8	0.74	0.73	0.73	0.78	0.78	1.33	2.26	1.74	0.93	0.92	0.79	0.78	
9	0.74	0.73	0.73	0.78	0.79	1.78	1.60	1.65	0.93	0.92	0.79	0.78	
10	0.74	0.73	0.73	0.78	0.80	1.43	2.02	1.40	0.93	0.92	0.79	0.78	
11	0.74	0.73	0.73	0.78	0.80	1.29	1.55	1.32	0.93	0.92	0.79	0.78	
12	0.74	0.73	0.73	0.78	0.80	1.45	1.30	1.23	0.93	0.90	0.79	0.78	
13	0.74	0.73	0.73	0.78	0.80	2.17	1.17	1.17	0.93	0.87	0.79	0.78	
14	0.74	0.73	0.73	0.78	0.84	2.34	1.09	1.16	0.93	0.85	0.79	0.77	
15	0.74	0.73	0.73	0.78	0.84	2.35	1.05	1.14	0.93	0.84	0.79	0.77	
16	0.74	0.73	0.73	0.78	0.84	1.94	1.02	1.14	0.93	0.83	0.79	0.77	
17	0.74	0.73	0.73	0.78	0.84	2.52	0.98	1.11	0.93	0.81	0.79	0.77	
18	0.74	0.73	0.73	0.78	0.84	1.85	0.98	1.08	0.93	0.80	0.79	0.77	
19	0.74	0.73	0.73	0.78	0.85	1.93	0.98	1.06	0.93	0.80	0.79	0.77	
20	0.74	0.73	0.73	0.78	0.85	1.60	0.98	1.05	0.93	0.80	0.79	0.77	
21	0.74	0.73	0.73	0.78	0.99	2.05	2.33	1.05	0.93	0.80	0.79	0.77	
22	0.74	0.73	0.73	0.78	0.90	2.42	2.49	1.04	0.93	0.80	0.79	0.77	
23	0.74	0.73	0.73	0.78	0.88	1.69	3.79	1.04	0.93	0.80	0.79	0.77	
24	0.74	0.73	0.73	0.78	0.86	1.47	2.33	1.04	0.93	0.80	0.79	0.77	
25	0.74	0.73	0.73	0.78	0.85	1.15	1.96	1.03	0.93	0.80	0.79	0.77	
26	0.74	0.73	0.73	0.78	0.88	1.03	1.81	1.02	0.93	0.80	0.79	0.77	
27	0.74	0.73	0.73	0.78	0.90	1.00	2.13	1.02	0.93	0.80	0.79	0.77	
28	0.74	0.73	0.73	0.78	0.88	1.00	2.36	1.00	0.93	0.80	0.79	0.77	
29	0.74	0.73	0.73	0.78	0.90	0.96	2.21	0.98	0.93	0.80		0.77	
30	0.74	0.73	0.73	0.78	0.89	0.95	2.01	0.98	0.93	0.80		0.77	
31		0.73		0.78	0.87		1.80		0.93	0.80		0.77	
Mean	0.74	0.73	0.73	0.78	0.85	1.56	1.66	1.39	0.94	0.85	0.79	0.77	
Max	0.74	0.73	0.73	0.85	0.99	2.52	3.79	2.66	0.98	0.92	0.79	0.78	3.79
Min	0.74	0.73	0.73	0.78	0.78	0.95	0.98	0.98	0.93	0.80	0.79	0.77	0.73

Annual Max Momentary Gage Height 4.25 m. (A.D.) , at 09.00 Hours , on Oct 23, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.66 m. (A.D.) ,

Left Bank Elevation 4.73 m. (A.D.) ,

Right Bank Elevation 4.73 m. (A.D.) , Drainage Are 934 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.08	0.06	0.06	0.30	0.16	0.70	0.80	8.44	0.56	0.44	0.18	0.16		
2	0.08	0.06	0.06	0.28	0.32	0.66	1.28	23.20	0.56	0.44	0.18	0.16		
3	0.08	0.06	0.06	0.20	0.28	9.93	2.17	27.16	0.54	0.44	0.18	0.16		
4	0.08	0.06	0.06	0.16	0.26	3.20	1.65	11.42	0.50	0.44	0.18	0.16		
5	0.08	0.06	0.06	0.16	0.28	1.28	0.70	7.80	0.50	0.44	0.18	0.16		
6	0.08	0.06	0.06	0.16	0.18	1.08	0.62	6.72	0.48	0.44	0.18	0.16		
7	0.08	0.06	0.06	0.16	0.18	1.00	8.79	9.74	0.48	0.44	0.18	0.16		
8	0.08	0.06	0.06	0.16	0.16	1.75	14.24	5.00	0.46	0.44	0.18	0.16		
9	0.08	0.06	0.06	0.16	0.18	5.40	3.60	4.10	0.46	0.44	0.18	0.16		
10	0.08	0.06	0.06	0.16	0.20	2.31	8.98	2.10	0.46	0.44	0.18	0.16		
11	0.08	0.06	0.06	0.16	0.20	1.56	3.20	1.70	0.46	0.44	0.18	0.16		
12	0.08	0.06	0.06	0.16	0.20	2.45	1.60	1.32	0.46	0.40	0.18	0.16		
13	0.08	0.06	0.06	0.16	0.20	12.11	1.08	1.08	0.46	0.34	0.18	0.16		
14	0.08	0.06	0.06	0.16	0.28	16.40	0.78	1.04	0.46	0.30	0.18	0.14		
15	0.08	0.06	0.06	0.16	0.28	16.70	0.70	0.96	0.46	0.28	0.18	0.14		
16	0.08	0.06	0.06	0.16	0.28	7.64	0.64	0.96	0.46	0.26	0.18	0.14		
17	0.08	0.06	0.06	0.16	0.28	22.12	0.56	0.84	0.46	0.22	0.18	0.14		
18	0.08	0.06	0.06	0.16	0.28	6.30	0.56	0.76	0.46	0.20	0.18	0.14		
19	0.08	0.06	0.06	0.16	0.30	7.48	0.56	0.72	0.46	0.20	0.18	0.14		
20	0.08	0.06	0.06	0.16	0.30	3.60	0.56	0.70	0.46	0.20	0.18	0.14		
21	0.08	0.06	0.06	0.16	0.58	9.55	16.10	0.70	0.46	0.20	0.18	0.14		
22	0.08	0.06	0.06	0.16	0.40	18.84	21.08	0.68	0.46	0.20	0.18	0.14		
23	0.08	0.06	0.06	0.16	0.36	4.50	84.94	0.68	0.46	0.20	0.18	0.14		
24	0.08	0.06	0.06	0.16	0.32	2.59	16.10	0.68	0.46	0.20	0.18	0.14		
25	0.08	0.06	0.06	0.16	0.30	1.00	7.96	0.66	0.46	0.20	0.18	0.14		
26	0.08	0.06	0.06	0.16	0.36	0.66	5.74	0.64	0.46	0.20	0.18	0.14		
27	0.08	0.06	0.06	0.16	0.40	0.60	11.19	0.64	0.46	0.20	0.18	0.14		
28	0.08	0.06	0.06	0.16	0.36	0.60	17.00	0.60	0.46	0.20	0.18	0.14		
29	0.08	0.06	0.06	0.16	0.40	0.52	13.04	0.56	0.46	0.20		0.14		
30	0.08	0.06	0.06	0.16	0.38	0.50	8.79	0.56	0.46	0.20		0.14		
31		0.06		0.16	0.34		5.60		0.46	0.20		0.14		
Total	2.40	1.86	1.80	5.26	9.00	163.03	260.61	122.16	14.66	9.44	5.04	4.60	599.86	CMSDAY
Mean	0.08	0.06	0.06	0.17	0.29	5.43	8.41	4.07	0.47	0.30	0.18	0.15	1.64	CMS
Max	0.08	0.06	0.06	0.30	0.58	22.12	84.94	27.16	0.56	0.44	0.18	0.16	84.94	CMS
Min	0.08	0.06	0.06	0.16	0.16	0.50	0.56	0.56	0.46	0.20	0.18	0.14	0.06	CMS
Runoff	0.21	0.16	0.16	0.45	0.78	14.09	22.52	10.55	1.27	0.82	0.44	0.40	51.83	MCM

Momentary Peak 119.30 CMS. at 4.25 m. (A.D.) at 09.00 Hours , on Oct 23, 2008

Runoff Yield 1.76 Liters/Second/Square KM. Momentary Peak Yield 127.73 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 Float	-		
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 good. Stage-discharge relation defined by 42 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

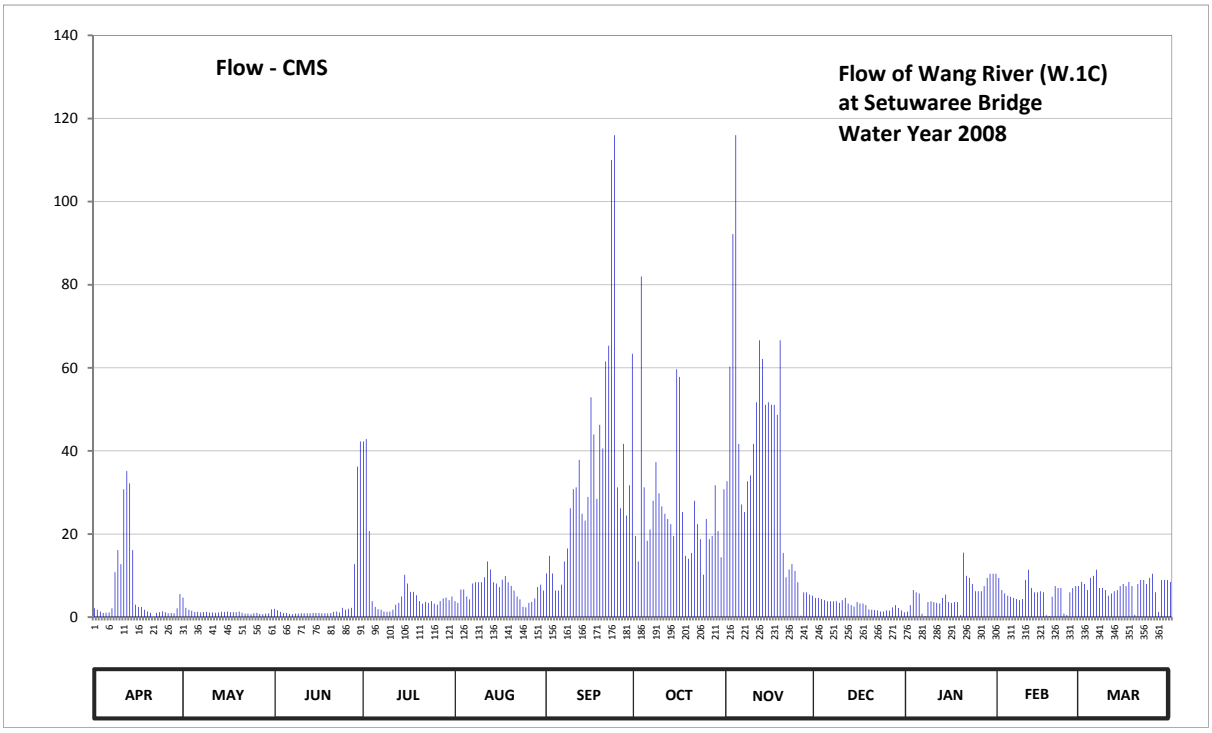
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	228.66	228.80	228.65	229.74	228.76	229.00	229.26	229.56	229.73	229.52	229.86	229.84	
2	228.63	228.67	228.62	229.75	228.74	229.13	229.09	230.04	229.73	229.65	229.80	229.83	
3	228.59	228.63	228.58	229.29	228.87	229.00	230.36	230.49	229.72	229.80	229.77	229.80	
4	228.54	228.61	228.54	228.76	228.87	228.86	229.53	230.76	229.71	229.78	229.75	229.86	
5	228.55	228.58	228.54	228.69	228.81	228.86	229.23	229.73	229.70	229.77	229.74	229.87	
6	228.56	228.58	228.51	228.64	228.78	228.91	229.30	229.44	229.70	229.40	229.73	229.90	
7	228.66	228.56	228.50	228.63	228.92	229.09	229.46	229.40	229.70	228.94	229.72	229.81	
8	229.01	228.57	228.52	228.59	228.93	229.18	229.65	229.56	229.70	229.69	229.71	229.81	
9	229.17	228.58	228.52	228.58	228.93	229.42	229.50	229.59	229.68	229.70	229.72	229.80	
10	229.07	228.56	228.53	228.59	228.93	229.52	229.43	229.73	229.71	229.69	229.85	229.75	
11	229.52	228.56	228.53	228.63	228.97	229.53	229.39	229.90	229.73	229.68	229.90	229.77	
12	229.61	228.55	228.53	228.72	229.09	229.66	229.36	230.14	229.67	229.67	229.81	229.79	
13	229.55	228.56	228.53	228.74	229.03	229.39	229.33	230.07	229.65	229.73	229.78	229.80	
14	229.17	228.58	228.54	228.81	228.93	229.35	229.26	229.89	229.63	229.76	229.78	229.82	
15	228.72	228.58	228.54	228.99	228.92	229.48	230.03	229.90	229.69	229.69	229.79	229.83	
16	228.69	228.59	228.54	228.92	228.89	229.92	230.00	229.89	229.67	229.68	229.78	229.82	
17	228.69	228.57	228.53	228.85	228.95	229.77	229.40	229.89	229.67	229.69	229.27	229.84	
18	228.63	228.57	228.53	228.85	228.98	229.47	229.13	229.85	229.65	229.69	228.82	229.82	
19	228.59	228.57	228.53	228.82	228.93	229.81	229.11	230.14	229.58	229.26	229.74	229.31	
20	228.55	228.59	228.54	228.76	228.90	229.71	229.15	229.15	229.57	229.97	229.82	229.83	
21	225.32	228.55	228.58	228.73	228.86	230.06	229.46	228.97	229.56	229.87	229.81	229.85	
22	228.55	228.52	228.59	228.75	228.81	230.12	229.33	229.03	229.55	229.86	229.81	229.85	
23	228.57	228.52	228.56	228.74	228.78	230.70	229.24	229.07	229.52	229.83	229.41	229.83	
24	228.60	228.50	228.67	228.76	228.69	230.76	228.99	229.02	229.52	229.79	229.29	229.86	
25	228.57	228.53	228.63	228.73	228.68	229.53	229.36	228.93	229.55	229.79	229.78	229.88	
26	228.53	228.55	228.65	228.72	228.74	229.42	229.24	229.08	229.54	229.79	229.81	229.78	
27	228.54	228.51	228.67	228.76	228.75	229.73	229.26	229.78	229.62	229.82	229.82	229.51	
28	228.53	228.50	229.07	228.79	228.79	229.38	229.54	229.78	229.65	229.86	229.82	229.85	
29	228.66	228.52	229.63	228.80	228.89	229.54	229.29	229.76	229.61	229.88		229.85	
30	228.83	228.53	229.74	228.77	228.91	230.09	229.12	229.75	229.55	229.88		229.85	
31		228.64		228.81	228.86		229.52		229.50	229.88		229.84	
Mean	228.66	228.57	228.65	228.83	228.87	229.55	229.40	229.68	229.64	229.71	229.70	229.80	
Max	229.61	228.80	229.74	229.75	229.09	230.76	230.36	230.76	229.73	229.97	229.90	229.90	230.76
Min	229.61	228.50	228.50	228.58	228.68	228.86	228.99	228.93	229.50	228.94	228.82	229.31	228.50

Annual Max Momentary Gage Height 230.93 m. (MSL.) , at 06.00 Hours , on Sep 24, 2008

Zero Gage at Bottom Elevation 229.30 m. (MSL.) , River Bed 227.40 m. (MSL)

Left Bank Elevation 234.50 m. (MSL.) ,

Right Bank Elevation 235.04 m. (MSL.) , Drainage Are 3,478 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.12	4.70	2.00	42.28	3.86	10.50	19.54	32.68	4.61	1.36	9.44	8.46		
2	1.76	2.24	1.64	42.85	3.44	14.75	13.38	60.28	4.61	2.90	6.50	7.97		
3	1.33	1.76	1.26	20.71	6.66	10.50	82.00	92.20	4.34	6.50	5.69	6.50		
4	0.98	1.52	0.98	3.86	6.66	6.38	31.24	116.00	4.07	5.96	5.15	9.44		
5	1.05	1.26	0.98	2.48	4.98	6.38	18.37	41.71	3.80	5.69	4.88	9.93		
6	1.12	1.26	0.77	1.88	4.28	7.80	21.10	27.10	3.80	0.80	4.61	11.40		
7	2.12	1.12	0.70	1.76	8.10	13.38	28.00	25.30	3.80	0.27	4.34	6.99		
8	10.82	1.19	0.84	1.33	8.40	16.50	37.30	32.68	3.80	3.62	4.07	6.99		
9	16.15	1.26	0.84	1.26	8.40	26.20	29.80	34.12	3.44	3.80	4.34	6.50		
10	12.74	1.12	0.91	1.33	8.40	30.76	26.65	41.71	4.07	3.62	8.95	5.15		
11	30.76	1.12	0.91	1.76	9.60	31.24	24.88	51.70	4.61	3.44	11.40	5.69		
12	35.14	1.05	0.91	3.02	13.38	37.84	23.62	66.60	3.26	3.26	6.99	6.23		
13	32.20	1.12	0.91	3.44	11.46	24.88	22.36	62.14	2.90	4.61	5.96	6.50		
14	16.15	1.26	0.98	4.98	8.40	23.20	19.54	51.10	2.54	5.42	5.96	7.48		
15	3.02	1.26	0.98	10.20	8.10	28.90	59.66	51.70	3.62	3.62	6.23	7.97		
16	2.48	1.33	0.98	8.10	7.22	52.92	57.80	51.10	3.26	3.44	5.96	7.48		
17	2.48	1.19	0.91	6.10	9.00	43.99	25.30	51.10	3.26	3.62	0.47	8.46		
18	1.76	1.19	0.91	6.10	9.90	28.45	14.75	48.70	2.90	3.62	0.21	7.48		
19	1.33	1.19	0.91	5.26	8.40	46.30	14.05	66.60	1.84	0.46	4.88	0.53		
20	1.05	1.33	0.98	3.86	7.50	40.57	15.45	15.45	1.76	15.53	7.48	7.97		
21	0.00	1.05	1.26	3.23	6.38	61.52	28.00	9.60	1.68	9.93	6.99	8.95		
22	1.05	0.84	1.33	3.65	4.98	65.30	22.36	11.46	1.60	9.44	6.99	8.95		
23	1.19	0.84	1.12	3.44	4.28	110.00	18.76	12.74	1.36	7.97	0.84	7.97		
24	1.40	0.70	2.24	3.86	2.48	116.00	10.20	11.14	1.36	6.23	0.49	9.44		
25	1.19	0.91	1.76	3.23	2.36	31.24	23.62	8.40	1.60	6.23	5.96	10.42		
26	0.91	1.05	2.00	3.02	3.44	26.20	18.76	0.34	1.52	6.23	6.99	5.96		
27	0.98	0.77	2.24	3.86	3.65	41.71	19.54	5.96	2.36	7.48	7.48	1.28		
28	0.91	0.70	12.74	4.49	4.49	24.46	31.72	5.96	2.90	9.44	7.48	8.95		
29	2.12	0.84	36.22	4.70	7.22	31.72	20.71	5.42	2.18	10.42		8.95		
30	5.54	0.91	42.28	4.07	7.80	63.38	14.40	5.15	1.60	10.42		8.95		
31		1.88		4.98	6.38		30.76		1.20	10.42		8.46		
Total	191.85	39.96	123.49	215.09	209.60	1072.97	823.62	1096.14	89.65	175.75	156.73	233.40	4428.25	CMSDAY
Mean	6.40	1.29	4.12	6.94	6.76	35.77	26.57	36.54	2.89	5.67	5.60	7.53	12.13	CMS
Max	35.14	4.70	42.28	42.85	13.38	116.00	82.00	116.00	4.61	15.53	11.40	11.40	116.00	CMS
Min	0.00	0.70	0.70	1.26	2.36	6.38	10.20	0.34	1.20	0.27	0.21	0.53	0.00	CMS
Runoff	16.58	3.45	10.67	18.58	18.11	92.70	71.16	94.71	7.75	15.18	13.54	20.17	382.60	MCM

Momentary Peak 133.00 CMS. at 230.93 m. (MSL.) at 06.00 Hours , on Sep 24, 2008

Runoff Yield 3.49 Liters/Second/Square KM. Momentary Peak Yield 38.24 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	8,924 sq.km.
Type of Gage	Staff gage.
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 to date
Rated by Float	-
Rated by Current Meter	1967 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. The channel is fulled of the Mimosa pudica plants. Stage-discharge relation defined by 30 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

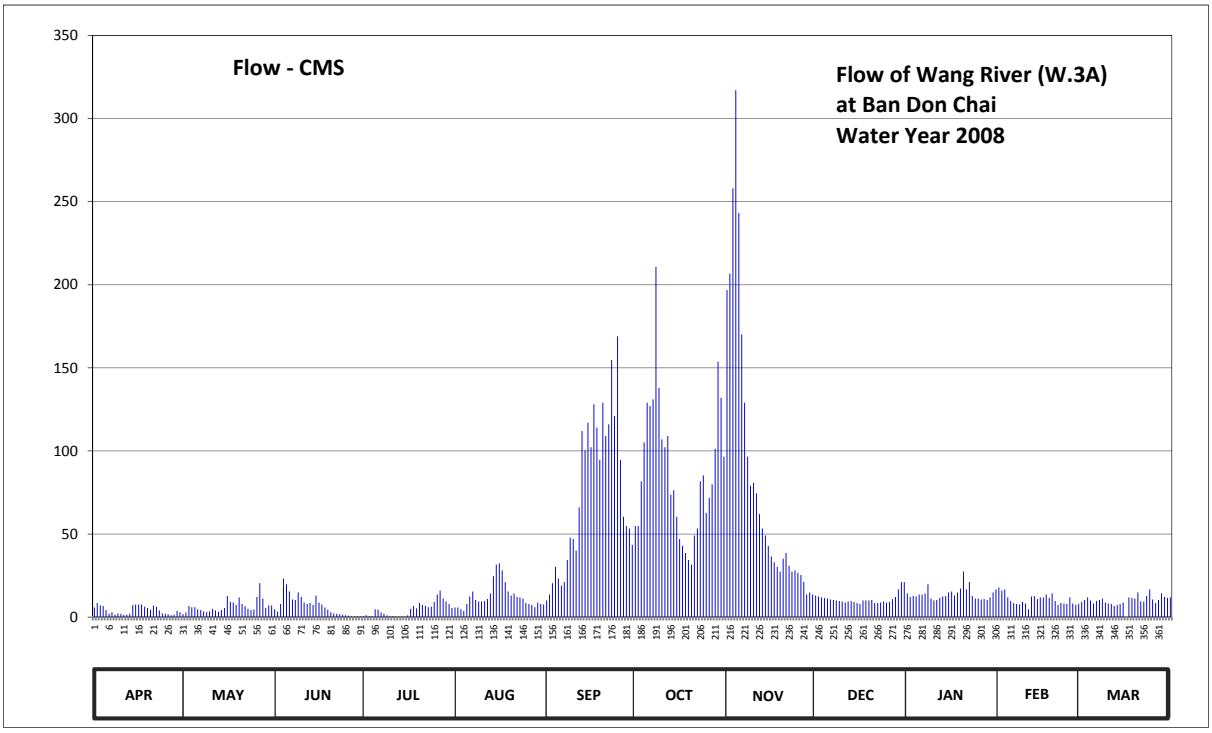
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	160.75	160.59	160.71	160.49	160.75	160.90	161.61	163.04	161.00	161.02	161.08	160.87	
2	160.85	160.63	160.65	160.54	160.75	161.01	161.61	163.12	160.98	160.97	161.05	160.91	
3	160.80	160.79	160.83	160.50	160.71	161.12	161.93	163.50	160.96	160.99	161.06	160.96	
4	160.79	160.76	161.16	160.48	160.67	161.26	162.18	163.92	160.95	160.98	160.96	160.90	
5	160.69	160.76	161.11	160.71	160.83	161.16	162.42	163.39	160.94	161.01	160.89	160.84	
6	160.60	160.71	161.04	160.70	160.98	161.10	162.40	162.81	160.92	161.01	160.85	160.89	
7	160.64	160.69	160.92	160.63	161.04	161.13	162.44	162.42	160.91	161.02	160.83	160.91	
8	160.57	160.66	160.91	160.60	160.91	161.32	163.15	162.09	160.90	161.11	160.82	160.94	
9	160.61	160.64	161.03	160.53	160.88	161.51	162.51	161.90	160.89	160.94	160.87	160.86	
10	160.60	160.66	160.97	160.47	160.88	161.50	162.20	161.92	160.88	160.90	160.84	160.84	
11	160.55	160.72	160.86	160.50	160.89	161.40	162.15	161.85	160.86	160.91	160.71	160.83	
12	160.56	160.68	160.83	160.43	160.93	161.75	162.22	161.70	160.88	160.95	160.98	160.79	
13	160.60	160.65	160.85	160.41	161.02	162.25	161.84	161.59	160.89	160.98	160.99	160.81	
14	160.81	160.69	160.81	160.44	161.18	162.13	161.87	161.53	160.87	160.99	160.93	160.83	
15	160.82	160.74	161.00	160.44	161.28	162.30	161.68	161.44	160.85	161.03	160.96	160.86	
16	160.82	160.99	160.86	160.53	161.29	162.15	161.50	161.35	160.83	161.04	160.96	159.13	
17	160.82	160.87	160.82	160.72	161.23	162.41	161.44	161.30	160.90	161.00	161.01	160.96	
18	160.77	160.86	160.75	160.79	161.13	162.27	161.38	161.26	160.90	161.03	160.95	160.95	
19	160.74	160.81	160.70	160.73	161.04	162.07	161.32	161.22	160.90	161.07	161.02	160.94	
20	160.70	160.96	160.64	160.85	161.00	162.42	161.28	161.33	160.91	161.22	160.89	161.03	
21	160.80	160.83	160.61	160.81	161.02	162.22	161.53	161.38	160.85	161.06	160.81	160.88	
22	160.77	160.78	160.60	160.79	160.97	162.29	161.59	161.27	160.85	161.13	160.85	160.88	
23	160.68	160.72	160.58	160.76	160.96	162.67	161.93	161.22	160.86	160.99	160.84	160.99	
24	160.61	160.69	160.56	160.77	160.94	162.34	161.97	161.23	160.88	160.94	160.83	161.06	
25	160.60	160.70	160.54	160.87	160.85	162.80	161.71	161.21	160.86	160.94	160.96	160.92	
26	160.58	160.97	160.52	161.01	160.83	162.07	161.82	161.19	160.87	160.92	160.84	160.85	
27	160.54	161.12	160.45	161.05	160.81	161.68	161.91	161.13	160.93	160.93	160.81	160.91	
28	160.57	160.94	160.44	160.94	160.76	161.61	162.14	161.01	160.97	160.91	160.83	161.02	
29	160.67	160.74	160.43	160.88	160.86	161.59	162.66	161.03	161.06	160.96		160.97	
30	160.64	160.80	160.46	160.83	160.83	161.45	162.45	161.01	161.13	161.03		160.95	
31		160.80		160.74	160.82		162.09		161.13	161.06		160.96	
Mean	160.69	160.77	160.75	160.68	160.94	161.80	161.97	161.81	160.92	161.00	160.91	160.85	
Max	160.85	161.12	161.16	161.05	161.29	162.80	163.15	163.92	161.13	161.22	161.08	161.06	163.92
Min	160.54	160.59	160.43	160.41	160.67	160.90	161.28	161.01	160.83	160.90	160.71	159.13	159.13

Annual Max Momentary Gage Height 164.01 m. (MSL.) , at 06.00 Hours , on Nov 4, 2008

Zero Gage at Bottom Elevation 161.00 m. (MSL.) , River Bed 159.30 m. (MSL.)

Left Bank Elevation 169.08 m. (MSL.) ,

Right Bank Elevation 169.01 m. (MSL.) , Drainage Are 8,924 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.75	1.86	4.75	0.57	5.75	10.00	54.80	196.80	13.00	14.20	17.80	9.10		
2	8.50	2.75	3.25	1.16	5.75	13.60	54.80	206.70	12.40	12.10	16.00	10.30		
3	7.00	6.75	7.90	0.60	4.75	20.40	81.70	258.00	11.80	12.70	16.60	11.80		
4	6.75	6.00	23.20	0.54	3.75	30.20	105.10	317.00	11.50	12.40	11.80	10.00		
5	4.25	6.00	19.70	4.75	7.90	23.20	129.00	243.15	11.20	13.60	9.70	8.20		
6	2.00	4.75	15.40	4.50	12.40	19.00	127.00	170.10	10.60	13.60	8.50	9.70		
7	3.00	4.25	10.60	2.75	15.40	21.10	131.00	129.00	10.30	14.20	7.90	10.30		
8	1.58	3.50	10.30	2.00	10.30	34.40	210.75	96.55	10.00	19.70	7.60	11.20		
9	2.25	3.00	14.80	1.02	9.40	47.70	138.00	79.00	9.70	11.20	9.10	8.80		
10	2.00	3.50	12.10	0.51	9.40	47.00	107.00	80.80	9.40	10.00	8.20	8.20		
11	1.30	5.00	8.80	0.60	9.70	40.00	102.25	74.50	8.80	10.30	4.75	7.90		
12	1.44	4.00	7.90	0.39	10.90	66.00	109.00	62.00	9.40	11.50	12.40	6.75		
13	2.00	3.25	8.50	0.33	14.20	112.00	73.60	53.30	9.70	12.40	12.70	7.30		
14	7.30	4.25	7.30	0.42	24.60	100.35	76.30	49.10	9.10	12.70	10.90	7.90		
15	7.60	5.50	13.00	0.42	31.60	117.00	60.40	42.80	8.50	14.80	11.80	8.80		
16	7.60	12.70	8.80	1.02	32.30	102.25	47.00	36.50	7.90	15.40	11.80	0.00		
17	7.60	9.10	7.60	5.00	28.10	128.00	42.80	33.00	10.00	13.00	13.60	11.80		
18	6.25	8.80	5.75	6.75	21.10	114.00	38.60	30.20	10.00	14.80	11.50	11.50		
19	5.50	7.30	4.50	5.25	15.40	94.65	34.40	27.40	10.00	17.20	14.20	11.20		
20	4.50	11.80	3.00	8.50	13.00	129.00	31.60	35.10	10.30	27.40	9.70	14.80		
21	7.00	7.90	2.25	7.30	14.20	109.00	49.10	38.60	8.50	16.60	7.30	9.40		
22	6.25	6.50	2.00	6.75	12.10	116.00	53.30	30.90	8.50	21.10	8.50	9.40		
23	4.00	5.00	1.72	6.00	11.80	154.70	81.70	27.40	8.80	12.70	8.20	12.70		
24	2.25	4.25	1.44	6.25	11.20	121.00	85.30	28.10	9.40	11.20	7.90	16.60		
25	2.00	4.50	1.16	9.10	8.50	169.00	62.80	26.70	8.80	11.20	11.80	10.60		
26	1.72	12.10	0.88	13.60	7.90	94.65	71.80	25.30	9.10	10.60	8.20	8.50		
27	1.16	20.40	0.45	16.00	7.30	60.40	79.90	21.10	10.90	10.90	7.30	10.30		
28	1.58	11.20	0.42	11.20	6.00	54.80	101.30	13.60	12.10	10.30	7.90	14.20		
29	3.75	5.50	0.39	9.40	8.80	53.30	153.60	14.80	16.60	11.80		12.10		
30	3.00	7.00	0.48	7.90	7.90	43.50	132.00	13.60	21.10	14.80		11.50		
31		7.00		5.50	7.60		96.55		21.10	16.60		11.80		
Total	126.88	205.41	208.34	146.08	389.00	2246.20	2722.45	2461.10	338.50	431.00	293.65	312.65	9881.26	CMSDAY
Mean	4.23	6.63	6.94	4.71	12.55	74.87	87.82	82.04	10.92	13.90	10.49	10.09	27.07	CMS
Max	8.50	20.40	23.20	16.00	32.30	169.00	210.75	317.00	21.10	27.40	17.80	16.60	317.00	CMS
Min	1.16	1.86	0.39	0.33	3.75	10.00	31.60	13.60	7.90	10.00	4.75	0.00	0.00	CMS
Runoff	10.96	17.75	18.00	12.62	33.61	194.07	235.22	212.64	29.25	37.24	25.37	27.01	853.74	MCM

Momentary Peak 330.55 CMS. at 164.01 m. (MSL.) at 06.00 Hours , on Nov 4, 2008

Runoff Yield 3.03 Liters/Second/Square KM. Momentary Peak Yield 37.04 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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** +143.059 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 mean of 5 readings		
Period of Available Gage Records	1968 to date		
Rating Operation			
Period of Rating	1971 to date		
Rated by Float	-		
Rated by Current Meter	1971 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 18 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

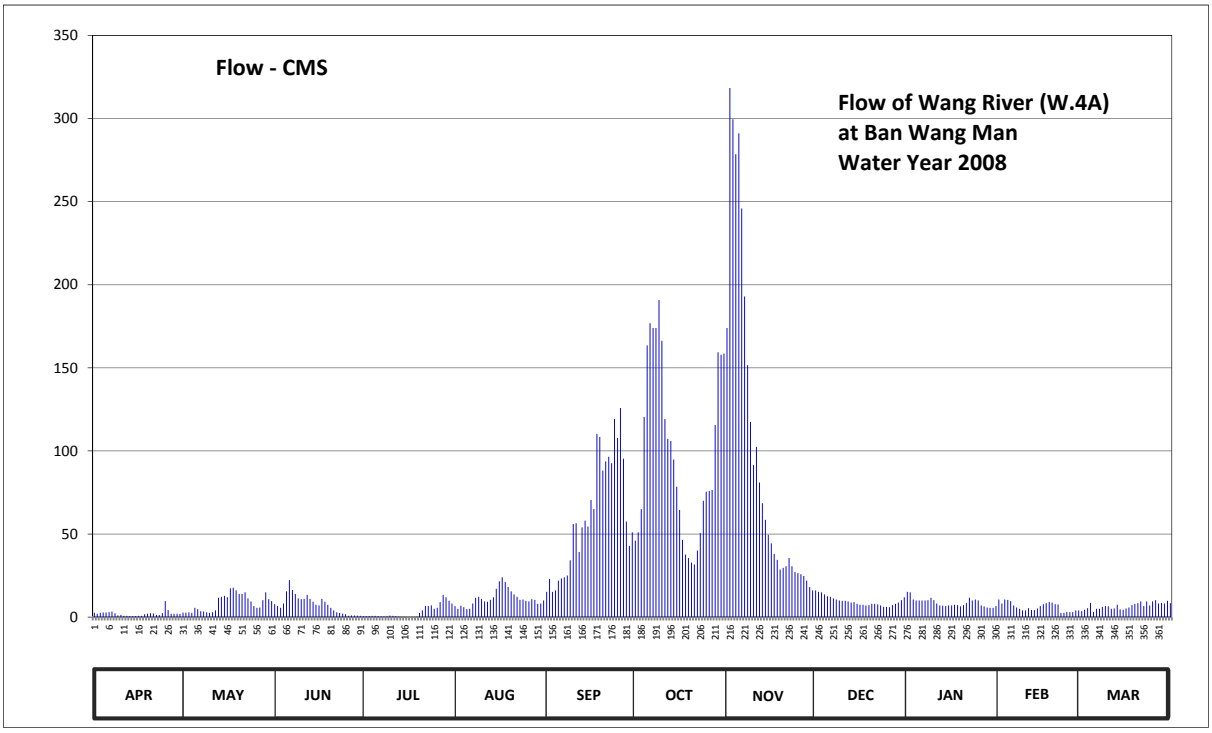
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	130.56	130.57	130.84	130.34	130.78	131.14	132.00	134.20	131.17	131.14	130.98	130.63	
2	130.50	130.57	130.78	130.34	130.70	131.37	132.10	135.87	131.14	131.13	130.86	130.67	
3	130.56	130.59	130.73	130.34	130.79	131.14	132.38	135.70	131.13	130.98	130.98	130.72	
4	130.58	130.56	130.86	130.35	130.75	131.17	133.39	135.49	131.09	130.95	130.97	130.88	
5	130.58	130.73	131.15	130.35	130.69	131.34	134.05	135.62	131.05	130.95	130.93	130.61	
6	130.60	130.69	131.35	130.33	130.70	131.38	134.24	135.14	131.04	130.95	130.80	130.70	
7	130.62	130.63	131.18	130.30	130.86	131.40	134.20	134.47	131.01	130.95	130.74	130.70	
8	130.53	130.62	131.10	130.30	131.02	131.43	134.20	133.88	130.98	130.96	130.70	130.76	
9	130.41	130.59	131.01	130.31	131.04	131.69	134.44	133.34	130.95	131.02	130.65	130.78	
10	130.43	130.56	130.99	130.39	131.00	132.20	134.09	132.90	130.94	130.96	130.65	130.77	
11	130.36	130.60	131.00	130.35	130.92	132.21	133.37	133.09	130.94	130.86	130.72	130.70	
12	130.35	130.65	131.08	130.31	130.91	131.83	133.17	132.70	130.92	130.80	130.66	130.71	
13	130.33	131.02	131.00	130.26	130.97	132.16	133.15	132.45	130.89	130.79	130.66	130.82	
14	130.34	131.04	130.91	130.23	131.03	132.24	132.96	132.25	130.90	130.78	130.71	130.68	
15	130.34	131.06	130.82	130.23	131.20	132.17	132.65	132.07	130.85	130.80	130.78	130.67	
16	130.35	131.03	130.80	130.20	131.33	132.49	132.37	131.96	130.82	130.80	130.84	130.71	
17	130.35	131.21	131.00	130.20	131.40	132.38	132.01	131.80	130.82	130.82	130.87	130.74	
18	130.47	131.22	130.91	130.20	131.32	133.22	131.79	131.70	130.80	130.81	130.90	130.81	
19	130.50	131.17	130.82	130.24	131.23	133.19	131.73	131.53	130.81	130.77	130.89	130.85	
20	130.53	131.10	130.73	130.55	131.15	132.84	131.65	131.56	130.85	130.81	130.84	130.87	
21	130.52	131.10	130.65	130.65	131.09	132.94	131.62	131.59	130.85	130.88	130.83	130.92	
22	130.43	131.13	130.59	130.78	131.04	132.99	131.85	131.73	130.83	131.02	130.55	130.78	
23	130.42	131.01	130.55	130.78	130.97	132.92	132.09	131.59	130.80	130.95	130.56	130.92	
24	130.54	130.92	130.51	130.80	130.98	133.37	132.48	131.49	130.76	130.98	130.61	130.80	
25	130.93	130.78	130.47	130.70	130.94	133.18	132.59	131.47	130.76	130.95	130.60	130.92	
26	130.66	130.73	130.36	130.73	130.92	133.48	132.60	131.45	130.75	130.80	130.60	130.96	
27	130.50	130.74	130.40	130.90	130.99	132.97	132.61	131.42	130.81	130.77	130.65	130.86	
28	130.50	130.96	130.39	131.08	130.97	132.23	133.31	131.34	130.85	130.74	130.65	130.88	
29	130.50	131.13	130.37	131.03	130.85	131.92	133.99	131.23	130.89	130.73		130.86	
30	130.49	130.99	130.35	130.94	130.86	132.10	133.97	131.17	130.96	130.73		130.94	
31		130.93		130.86	130.95		133.98		131.03	130.78		130.87	
Mean	130.49	130.86	130.79	130.50	130.98	132.24	132.94	132.74	130.92	130.88	130.76	130.79	
Max	130.93	131.22	131.35	131.08	131.40	133.48	134.44	135.87	131.17	131.14	130.98	130.96	135.87
Min	130.33	130.56	130.35	130.20	130.69	131.14	131.62	131.17	130.75	130.73	130.55	130.61	130.20

Annual Max Momentary Gage Height 135.94 m. (MSL.) , at 18.00 Hours , on Nov 2, 2008

Zero Gage at Bottom Elevation 130.00 m. (MSL.) , River Bed 129.66 m. (MSL.)

Left Bank Elevation 140.55 m. (MSL.) ,

Right Bank Elevation 139.20 m. (MSL.) , Drainage Are 10,439 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.60	2.70	7.80	0.70	6.60	15.20	46.00	174.00	16.10	15.20	10.60	3.60		
2	2.00	2.70	6.60	0.70	5.00	22.95	51.00	318.40	15.20	14.90	8.20	4.40		
3	2.60	2.90	5.60	0.70	6.80	15.20	65.00	299.50	14.90	10.60	10.60	5.40		
4	2.80	2.60	8.20	0.75	6.00	16.10	120.40	278.55	13.70	10.00	10.40	8.60		
5	2.80	5.60	15.50	0.75	4.80	21.90	163.50	291.10	12.50	10.00	9.60	3.20		
6	3.00	4.80	22.25	0.65	5.00	23.30	176.80	245.90	12.20	10.00	7.00	5.00		
7	3.40	3.60	16.40	0.50	8.20	24.00	174.00	192.90	11.30	10.00	5.80	5.00		
8	2.30	3.40	14.00	0.50	11.60	25.05	174.00	151.60	10.60	10.20	5.00	6.20		
9	1.10	2.90	11.30	0.55	12.20	34.15	190.80	117.40	10.00	11.60	4.00	6.60		
10	1.30	2.60	10.80	0.95	11.00	56.00	166.30	91.50	9.80	10.20	4.00	6.40		
11	0.80	3.00	11.00	0.75	9.40	56.50	119.20	102.40	9.80	8.20	5.40	5.00		
12	0.75	4.00	13.40	0.55	9.20	39.20	107.20	81.00	9.40	7.00	4.20	5.20		
13	0.65	11.60	11.00	0.30	10.40	54.00	106.00	68.50	8.80	6.80	4.20	7.40		
14	0.70	12.20	9.20	0.15	11.90	58.00	94.80	58.50	9.00	6.60	5.20	4.60		
15	0.70	12.80	7.40	0.15	17.00	54.50	78.50	49.50	8.00	7.00	6.60	4.40		
16	0.75	11.90	7.00	0.00	21.55	70.50	64.50	44.40	7.40	7.00	7.80	5.20		
17	0.75	17.35	11.00	0.00	24.00	65.00	46.50	38.00	7.40	7.40	8.40	5.80		
18	1.70	17.70	9.20	0.00	21.20	110.20	37.65	34.50	7.00	7.20	9.00	7.20		
19	2.00	16.10	7.40	0.20	18.05	108.40	35.55	28.55	7.20	6.40	8.80	8.00		
20	2.30	14.00	5.60	2.50	15.50	88.20	32.75	29.60	8.00	7.20	7.80	8.40		
21	2.20	14.00	4.00	4.00	13.70	93.70	31.70	30.65	8.00	8.60	7.60	9.40		
22	1.30	14.90	2.90	6.60	12.20	96.45	40.00	35.55	7.60	11.60	2.50	6.60		
23	1.20	11.30	2.50	6.60	10.40	92.60	50.50	30.65	7.00	10.00	2.60	9.40		
24	2.40	9.40	2.10	7.00	10.60	119.20	70.00	27.15	6.20	10.60	3.20	7.00		
25	9.60	6.60	1.70	5.00	9.80	107.80	75.50	26.45	6.20	10.00	3.00	9.40		
26	4.20	5.60	0.80	5.60	9.40	125.80	76.00	25.75	6.00	7.00	3.00	10.20		
27	2.00	5.80	1.00	9.00	10.80	95.35	76.50	24.70	7.20	6.40	4.00	8.20		
28	2.00	10.20	0.95	13.40	10.40	57.50	115.60	21.90	8.00	5.80	4.00	8.60		
29	2.00	14.90	0.85	11.90	8.00	42.80	159.30	18.05	8.80	5.60		8.20		
30	1.90	10.80	0.75	9.80	8.20	51.00	157.90	16.10	10.20	5.60		9.80		
31		9.60		8.20	10.00		158.60		11.90	6.60		8.40		
Total	63.80	267.55	228.20	98.45	348.90	1840.55	3062.05	2952.75	295.40	271.30	172.50	210.80	9812.25	CMSDAY
Mean	2.13	8.63	7.61	3.18	11.25	61.35	98.78	98.43	9.53	8.75	6.16	6.80	26.88	CMS
Max	9.60	17.70	22.25	13.40	24.00	125.80	190.80	318.40	16.10	15.20	10.60	10.20	318.40	CMS
Min	0.65	2.60	0.75	0.00	4.80	15.20	31.70	16.10	6.00	5.60	2.50	3.20	0.00	CMS
Runoff	5.51	23.12	19.72	8.51	30.14	159.02	264.56	255.12	25.52	23.44	14.90	18.21	847.78	MCM

Momentary Peak 326.80 CMS. at 135.94 m. (MSL.) at 18.00 Hours , on Nov 2, 2008

Runoff Yield 2.58 Liters/Second/Square KM. Momentary Peak Yield 31.31 Liters/Second/Square KM.

WATER YEAR : 2008

WANG RIVER BASIN

Wang River at Ban Don Mun , Lampang (W.10A)

Lat 18 - 31 - 16 N Long 99 - 37 - 52 E

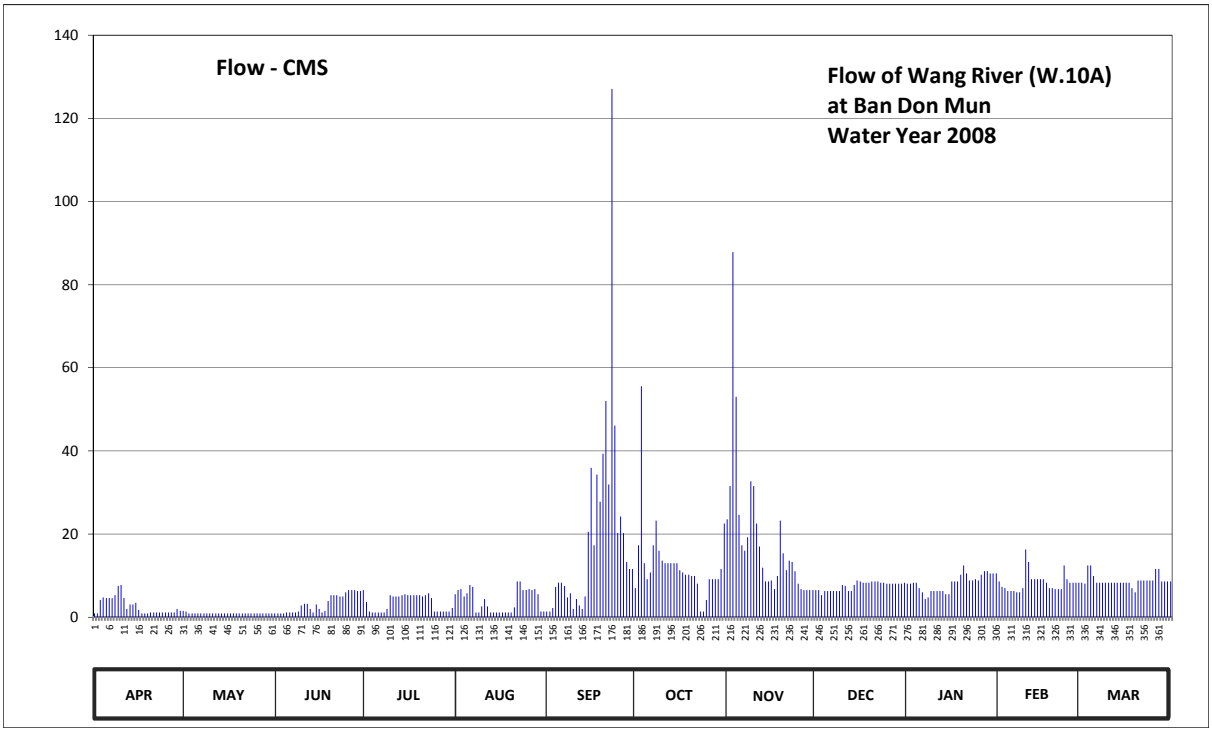
Location : on left bank at Ban Don Mun

	Ban Don Mun	**Amphoe** Mueang	**Changwat** Lampang
Drainge Area	2,798 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+259.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the bridge.		**Elevation** +270.290 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 mean of 5 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Float	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good.Stage-discharge relation defined by 31 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.01	259.04	259.01	259.26	259.22	259.03	259.28	259.83	259.26	259.32	259.34	259.33	
2	259.01	259.03	259.01	259.14	259.26	259.03	259.64	260.05	259.26	259.32	259.29	259.32	
3	259.16	259.01	259.01	259.03	259.27	259.07	260.58	261.18	259.21	259.33	259.28	259.48	
4	259.19	259.01	259.01	259.02	259.20	259.29	259.50	260.53	259.25	259.33	259.25	259.48	
5	259.18	259.01	259.02	259.02	259.23	259.33	259.36	259.86	259.25	259.28	259.25	259.39	
6	259.18	259.01	259.02	259.02	259.31	259.33	259.42	259.64	259.25	259.24	259.25	259.33	
7	259.18	259.01	259.02	259.02	259.29	259.30	259.64	259.60	259.25	259.17	259.24	259.33	
8	259.21	259.01	259.02	259.02	259.02	259.19	259.82	259.70	259.25	259.19	259.24	259.33	
9	259.30	259.01	259.03	259.06	259.02	259.23	259.60	260.08	259.25	259.25	259.28	259.33	
10	259.31	259.01	259.10	259.21	259.09	259.06	259.52	260.05	259.31	259.25	259.61	259.33	
11	259.18	259.01	259.12	259.20	259.17	259.17	259.50	259.80	259.30	259.25	259.51	259.33	
12	259.06	259.01	259.12	259.20	259.09	259.10	259.50	259.63	259.25	259.25	259.36	259.33	
13	259.11	259.01	259.06	259.20	259.02	259.06	259.50	259.46	259.25	259.25	259.36	259.33	
14	259.11	259.01	259.02	259.21	259.02	259.20	259.50	259.34	259.31	259.22	259.36	259.33	
15	259.13	259.01	259.11	259.22	259.02	259.74	259.50	259.34	259.35	259.22	259.36	259.33	
16	259.05	259.01	259.06	259.21	259.02	260.16	259.44	259.35	259.34	259.34	259.36	259.33	
17	259.01	259.01	259.02	259.21	259.02	259.64	259.42	259.27	259.33	259.34	259.33	259.33	
18	259.01	259.01	259.04	259.21	259.02	260.12	259.40	259.39	259.33	259.34	259.28	259.28	
19	259.01	259.01	259.15	259.21	259.02	259.95	259.40	259.82	259.33	259.40	259.28	259.24	
20	259.02	259.01	259.21	259.21	259.02	260.24	259.39	259.58	259.34	259.48	259.27	259.35	
21	259.02	259.01	259.21	259.20	259.08	260.51	259.39	259.44	259.34	259.41	259.27	259.35	
22	259.02	259.01	259.21	259.21	259.34	260.06	259.32	259.52	259.34	259.35	259.27	259.35	
23	259.02	259.01	259.20	259.23	259.34	261.80	259.03	259.51	259.33	259.35	259.48	259.35	
24	259.02	259.01	259.20	259.18	259.26	260.39	259.03	259.43	259.33	259.36	259.36	259.35	
25	259.02	259.01	259.24	259.03	259.26	259.73	259.16	259.32	259.32	259.35	259.33	259.35	
26	259.02	259.01	259.26	259.03	259.27	259.85	259.36	259.27	259.32	259.40	259.33	259.45	
27	259.02	259.01	259.26	259.03	259.26	259.73	259.36	259.26	259.32	259.43	259.33	259.45	
28	259.02	259.01	259.26	259.03	259.27	259.51	259.36	259.26	259.32	259.43	259.33	259.34	
29	259.06	259.01	259.25	259.03	259.22	259.45	259.36	259.26	259.32	259.41		259.34	
30	259.04	259.01	259.25	259.03	259.03	259.45	259.45	259.26	259.32	259.41		259.34	
31		259.01		259.07	259.03		259.80		259.33	259.41		259.34	
Mean	259.09	259.01	259.12	259.13	259.15	259.62	259.47	259.63	259.30	259.33	259.33	259.35	
Max	259.31	259.04	259.26	259.26	259.34	261.80	260.58	261.18	259.35	259.48	259.61	259.48	261.80
Min	259.01	259.01	259.01	259.02	259.02	259.03	259.03	259.26	259.21	259.17	259.24	259.24	259.01

Annual Max Momentary Gage Height	262.26	m. (MSL.) ,	at 13.00 Hours , on Sep 23, 2008		
Zero Gage at Bottom Elevation	259.00	m. (MSL.) ,	River Bed	257.57	m. (MSL.)
Left Bank Elevation	270.02	m. (MSL.) ,			
Right Bank Elevation	269.87	m. (MSL.) ,	Drainage Are	2,798	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.91	1.54	0.91	6.50	5.50	1.33	7.00	23.55	6.50	8.04	8.58	8.31		
2	0.91	1.33	0.91	3.68	6.50	1.33	17.28	31.50	6.50	8.04	7.25	8.04		
3	4.12	0.91	0.91	1.33	6.75	2.17	55.50	87.80	5.25	8.31	7.00	12.44		
4	4.78	0.91	0.91	1.12	5.00	7.25	13.00	53.00	6.25	8.31	6.25	12.44		
5	4.56	0.91	1.12	1.12	5.75	8.31	9.12	24.60	6.25	7.00	6.25	9.93		
6	4.56	0.91	1.12	1.12	7.77	8.31	10.76	17.28	6.25	6.00	6.25	8.31		
7	4.56	0.91	1.12	1.12	7.25	7.50	17.28	16.00	6.25	4.34	6.00	8.31		
8	5.25	0.91	1.12	1.12	1.12	4.78	23.20	19.20	6.25	4.78	6.00	8.31		
9	7.50	0.91	1.33	1.96	1.12	5.75	16.00	32.70	6.25	6.25	7.00	8.31		
10	7.77	0.91	2.80	5.25	2.59	1.96	13.60	31.50	7.77	6.25	16.32	8.31		
11	4.56	0.91	3.24	5.00	4.34	4.34	13.00	22.50	7.50	6.25	13.30	8.31		
12	1.96	0.91	3.24	5.00	2.59	2.80	13.00	16.96	6.25	6.25	9.12	8.31		
13	3.02	0.91	1.96	5.00	1.12	1.96	13.00	11.88	6.25	6.25	9.12	8.31		
14	3.02	0.91	1.12	5.25	1.12	5.00	13.00	8.58	7.77	5.50	9.12	8.31		
15	3.46	0.91	3.02	5.50	1.12	20.52	13.00	8.58	8.85	5.50	9.12	8.31		
16	1.75	0.91	1.96	5.25	1.12	35.90	11.32	8.85	8.58	8.58	9.12	8.31		
17	0.91	0.91	1.12	5.25	1.12	17.28	10.76	6.75	8.31	8.58	8.31	8.31		
18	0.91	0.91	1.54	5.25	1.12	34.30	10.20	9.93	8.31	8.58	7.00	7.00		
19	0.91	0.91	3.90	5.25	1.12	27.75	10.20	23.20	8.31	10.20	7.00	6.00		
20	1.12	0.91	5.25	5.25	1.12	39.30	9.93	15.40	8.58	12.44	6.75	8.85		
21	1.12	0.91	5.25	5.00	2.38	52.00	9.93	11.32	8.58	10.48	6.75	8.85		
22	1.12	0.91	5.25	5.25	8.58	31.90	8.04	13.60	8.58	8.85	6.75	8.85		
23	1.12	0.91	5.00	5.75	8.58	127.00	1.33	13.30	8.31	8.85	12.44	8.85		
24	1.12	0.91	5.00	4.56	6.50	46.05	1.33	11.04	8.31	9.12	9.12	8.85		
25	1.12	0.91	6.00	1.33	6.50	20.19	4.12	8.04	8.04	8.85	8.31	8.85		
26	1.12	0.91	6.50	1.33	6.75	24.25	9.12	6.75	8.04	10.20	8.31	11.60		
27	1.12	0.91	6.50	1.33	6.50	20.19	9.12	6.50	8.04	11.04	8.31	11.60		
28	1.12	0.91	6.50	1.33	6.75	13.30	9.12	6.50	8.04	11.04	8.31	8.58		
29	1.96	0.91	6.25	1.33	5.50	11.60	9.12	6.50	8.04	10.48		8.58		
30	1.54	0.91	6.25	1.33	1.33	11.60	11.60	6.50	8.04	10.48		8.58		
31		0.91		2.17	1.33		22.50		8.31	10.48		8.58		
Total	79.00	29.26	97.10	107.03	125.94	595.92	395.48	559.81	232.56	255.32	233.16	274.50	2985.08	CMSDAY
Mean	2.63	0.94	3.24	3.45	4.06	19.86	12.76	18.66	7.50	8.24	8.33	8.85	8.18	CMS
Max	7.77	1.54	6.50	6.50	8.58	127.00	55.50	87.80	8.85	12.44	16.32	12.44	127.00	CMS
Min	0.91	0.91	0.91	1.12	1.12	1.33	1.33	6.50	5.25	4.34	6.00	6.00	0.91	CMS
Runoff	6.83	2.53	8.39	9.25	10.88	51.49	34.17	48.37	20.09	22.06	20.15	23.72	257.91	MCM

Momentary Peak 161.30 CMS. at 262.26 m. (MSL.) at 13.00 Hours , on Sep 23, 2008

Runoff Yield 2.92 Liters/Second/Square KM. Momentary Peak Yield 57.65 Liters/Second/Square KM.

WATER YEAR : 2008

WANG RIVER BASIN

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

Lat 18 - 46 - 45 N Long 99 - 37 - 52 E

Location : on left bank at Ban Hai

Ban Hai **Amphoe** Chae Hom **Changwat** Lampang

Drainge Area	1,392 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+304.000 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 10.00 meters from the top staff gage. **Elevation** +310.113 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 mean of 5 readings
Period of Available Gage Records	1995 to date
Rating Operation	
Period of Rating	1995 to date
Rated by Float	-
Rated by Current Meter	1995 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair.The pumping station is located about 150 meters upstream from the gage site. Stage-discharge relation defined by 23 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

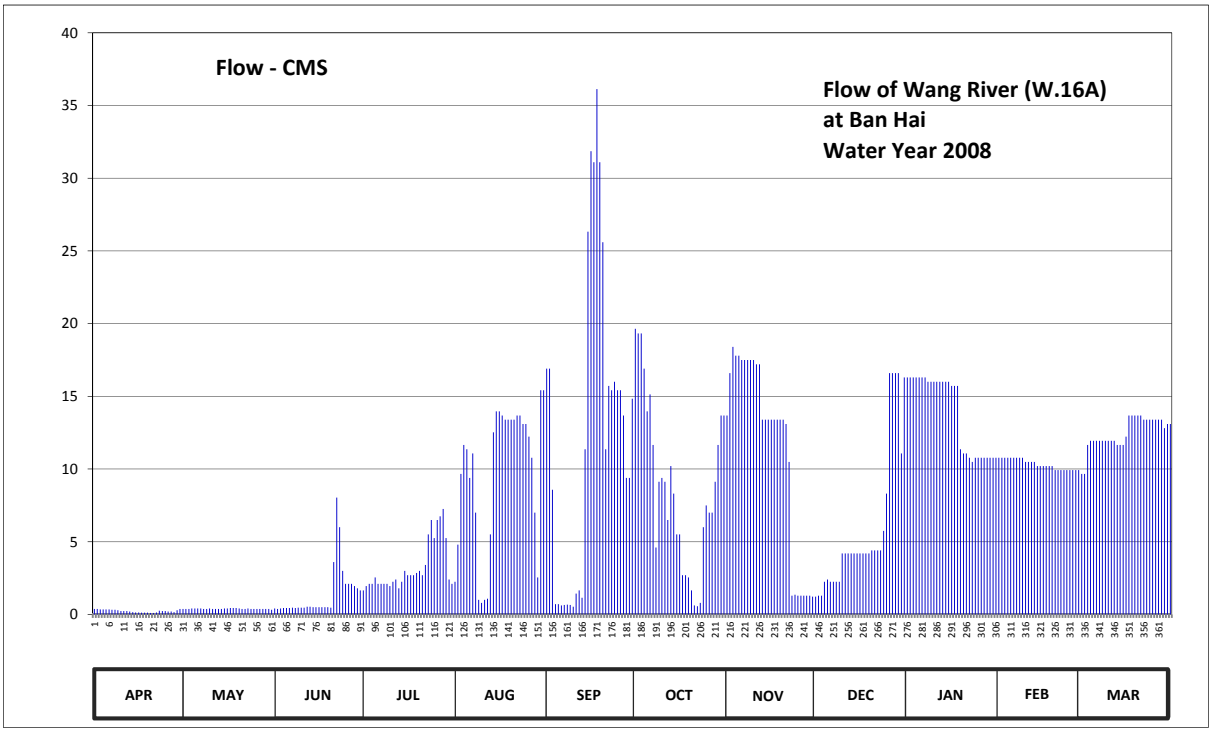
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	304.66	304.66	304.67	304.91	304.95	305.53	305.62	305.42	304.86	305.51	305.32	305.28	
2	304.66	304.66	304.66	304.93	305.09	305.53	305.61	305.52	304.87	305.51	305.32	305.28	
3	304.65	304.66	304.67	304.94	305.28	305.24	305.61	305.58	304.87	305.51	305.32	305.35	
4	304.65	304.67	304.68	304.94	305.35	304.77	305.53	305.56	304.95	305.51	305.32	305.36	
5	304.65	304.67	304.68	304.97	305.34	304.77	305.43	305.56	304.96	305.51	305.32	305.36	
6	304.65	304.67	304.68	304.94	305.27	304.74	305.47	305.55	304.95	305.51	305.32	305.36	
7	304.64	304.67	304.69	304.94	305.33	304.75	305.35	305.55	304.95	305.51	305.32	305.36	
8	304.64	304.66	304.68	304.94	305.18	304.76	305.08	305.55	304.95	305.50	305.32	305.36	
9	304.63	304.66	304.69	304.94	304.83	304.75	305.26	305.55	304.95	305.50	305.32	305.36	
10	304.61	304.67	304.69	304.93	304.80	304.71	305.27	305.55	305.06	305.50	305.31	305.36	
11	304.61	304.66	304.69	304.95	304.83	304.89	305.26	305.54	305.06	305.50	305.31	305.36	
12	304.61	304.66	304.71	304.96	304.84	304.91	305.16	305.54	305.06	305.50	305.31	305.36	
13	304.60	304.66	304.71	304.92	305.12	304.85	305.30	305.41	305.06	305.50	305.31	305.35	
14	304.58	304.66	304.70	304.95	305.38	305.34	305.23	305.41	305.06	305.50	305.30	305.35	
15	304.57	304.67	304.70	305.00	305.43	305.82	305.12	305.41	305.06	305.50	305.30	305.35	
16	304.57	304.67	304.70	304.98	305.43	305.97	305.12	305.41	305.06	305.49	305.30	305.37	
17	304.56	304.68	304.70	304.98	305.42	305.95	304.98	305.41	305.06	305.49	305.30	305.42	
18	304.56	304.68	304.70	304.98	305.41	306.08	304.98	305.41	305.06	305.49	305.30	305.42	
19	304.56	304.68	304.70	304.99	305.41	305.95	304.97	305.41	305.06	305.34	305.30	305.42	
20	304.55	304.67	304.69	305.00	305.41	305.80	304.91	305.41	305.07	305.33	305.29	305.42	
21	304.55	304.66	305.03	304.98	305.41	305.34	304.74	305.40	305.07	305.33	305.29	305.42	
22	304.57	304.66	305.22	305.02	305.42	305.49	304.72	305.31	305.07	305.32	305.29	305.41	
23	304.62	304.67	305.14	305.12	305.42	305.48	304.80	304.87	305.07	305.31	305.29	305.41	
24	304.61	304.66	305.00	305.16	305.40	305.50	305.14	304.88	305.13	305.32	305.29	305.41	
25	304.61	304.66	304.94	305.11	305.40	305.48	305.20	304.87	305.23	305.32	305.29	305.41	
26	304.60	304.66	304.94	305.16	305.37	305.48	305.18	304.87	305.52	305.32	305.29	305.41	
27	304.60	304.66	304.94	305.17	305.32	305.42	305.18	304.87	305.52	305.32	305.29	305.41	
28	304.58	304.66	304.93	305.19	305.18	305.27	305.26	304.87	305.52	305.32	305.29	305.41	
29	304.63	304.66	304.92	305.11	304.97	305.27	305.35	304.87	305.52	305.32		305.39	
30	304.66	304.66	304.91	304.96	305.48	305.46	305.42	304.86	305.33	305.32		305.40	
31		304.64		304.94	305.48		305.42		305.51	305.32		305.40	
Mean	304.61	304.66	304.79	305.00	305.26	305.31	305.22	305.31	305.11	305.43	305.30	305.38	
Max	304.66	304.68	305.22	305.19	305.48	306.08	305.62	305.58	305.52	305.51	305.32	305.42	306.08
Min	304.55	304.64	304.66	304.91	304.80	304.71	304.72	304.86	304.86	305.31	305.29	305.28	304.55

Annual Max Momentary Gage Height 306.17 m. (MSL.) , at 12.00 Hours , on Sep 18, 2008

Zero Gage at Bottom Elevation 304.00 m. (MSL.) , River Bed 302.40 m. (MSL.)

Left Bank Elevation 310.18 m. (MSL.) ,

Right Bank Elevation 310.09 m. (MSL.) , Drainage Are 1,392 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.38	0.38	0.41	1.65	2.25	16.90	19.64	13.68	1.22	16.30	10.78	9.66		
2	0.38	0.38	0.38	1.95	4.80	16.90	19.32	16.60	1.29	16.30	10.78	9.66		
3	0.35	0.38	0.41	2.10	9.66	8.58	19.32	18.40	1.29	16.30	10.78	11.65		
4	0.35	0.41	0.44	2.10	11.65	0.71	16.90	17.80	2.25	16.30	10.78	11.94		
5	0.35	0.41	0.44	2.55	11.36	0.71	13.97	17.80	2.40	16.30	10.78	11.94		
6	0.35	0.41	0.44	2.10	9.39	0.62	15.13	17.50	2.25	16.30	10.78	11.94		
7	0.32	0.41	0.47	2.10	11.07	0.65	11.65	17.50	2.25	16.30	10.78	11.94		
8	0.32	0.38	0.44	2.10	7.00	0.68	4.60	17.50	2.25	16.00	10.78	11.94		
9	0.29	0.38	0.47	2.10	1.01	0.65	9.12	17.50	2.25	16.00	10.78	11.94		
10	0.23	0.41	0.47	1.95	0.80	0.53	9.39	17.50	4.20	16.00	10.49	11.94		
11	0.23	0.38	0.47	2.25	1.01	1.43	9.12	17.20	4.20	16.00	10.49	11.94		
12	0.23	0.38	0.53	2.40	1.08	1.65	6.50	17.20	4.20	16.00	10.49	11.94		
13	0.20	0.38	0.53	1.80	5.50	1.15	10.20	13.39	4.20	16.00	10.49	11.65		
14	0.16	0.38	0.50	2.25	12.52	11.36	8.31	13.39	4.20	16.00	10.20	11.65		
15	0.14	0.41	0.50	3.00	13.97	26.32	5.50	13.39	4.20	16.00	10.20	11.65		
16	0.14	0.41	0.50	2.70	13.97	31.86	5.50	13.39	4.20	15.71	10.20	12.23		
17	0.12	0.44	0.50	2.70	13.68	31.10	2.70	13.39	4.20	15.71	10.20	13.68		
18	0.12	0.44	0.50	2.70	13.39	36.12	2.70	13.39	4.20	15.71	10.20	13.68		
19	0.12	0.44	0.50	2.85	13.39	31.10	2.55	13.39	4.20	11.36	10.20	13.68		
20	0.10	0.41	0.47	3.00	13.39	25.60	1.65	13.39	4.40	11.07	9.93	13.68		
21	0.10	0.38	3.60	2.70	13.39	11.36	0.62	13.10	4.40	11.07	9.93	13.68		
22	0.14	0.38	8.04	3.40	13.68	15.71	0.56	10.49	4.40	10.78	9.93	13.39		
23	0.26	0.41	6.00	5.50	13.68	15.42	0.80	1.29	4.40	10.49	9.93	13.39		
24	0.23	0.38	3.00	6.50	13.10	16.00	6.00	1.36	5.75	10.78	9.93	13.39		
25	0.23	0.38	2.10	5.25	13.10	15.42	7.50	1.29	8.31	10.78	9.93	13.39		
26	0.20	0.38	2.10	6.50	12.23	15.42	7.00	1.29	16.60	10.78	9.93	13.39		
27	0.20	0.38	2.10	6.75	10.78	13.68	7.00	1.29	16.60	10.78	9.93	13.39		
28	0.16	0.38	1.95	7.25	7.00	9.39	9.12	1.29	16.60	10.78	9.93	13.39		
29	0.29	0.38	1.80	5.25	2.55	9.39	11.65	1.29	16.60	10.78		12.81		
30	0.38	0.38	1.65	2.40	15.42	14.84	13.68	1.22	11.07	10.78		13.10		
31		0.32		2.10	15.42		13.68		16.30	10.78		13.10		
Total	7.07	12.17	41.71	99.95	301.24	381.25	271.38	347.21	184.88	430.24	289.55	386.75	2753.40	CMSDAY
Mean	0.24	0.39	1.39	3.22	9.72	12.71	8.75	11.57	5.96	13.88	10.34	12.48	7.54	CMS
Max	0.38	0.44	8.04	7.25	15.42	36.12	19.64	18.40	16.60	16.30	10.78	13.68	36.12	CMS
Min	0.10	0.32	0.38	1.65	0.80	0.53	0.56	1.22	1.22	10.49	9.93	9.66	0.10	CMS
Runoff	0.61	1.05	3.60	8.64	26.03	32.94	23.45	30.00	15.97	37.17	25.02	33.42	237.89	MCM

Momentary Peak 39.77 CMS. at 306.17 m. (MSL.) at 12.00 Hours , on Sep 18, 2008

Runoff Yield 5.42 Liters/Second/Square KM. Momentary Peak Yield 28.57 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	726 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+292.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	About 21 meters from the top staff gage.		**Elevation** +295.790 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1980 to date		
Rating Operation			
Period of Rating	1980 to date		
Rated by Float	-		
Rated by Current Meter	1980 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair.The local weir situated about 500 meters downstream from the gage site. Stage-discharge relation defined by 29 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

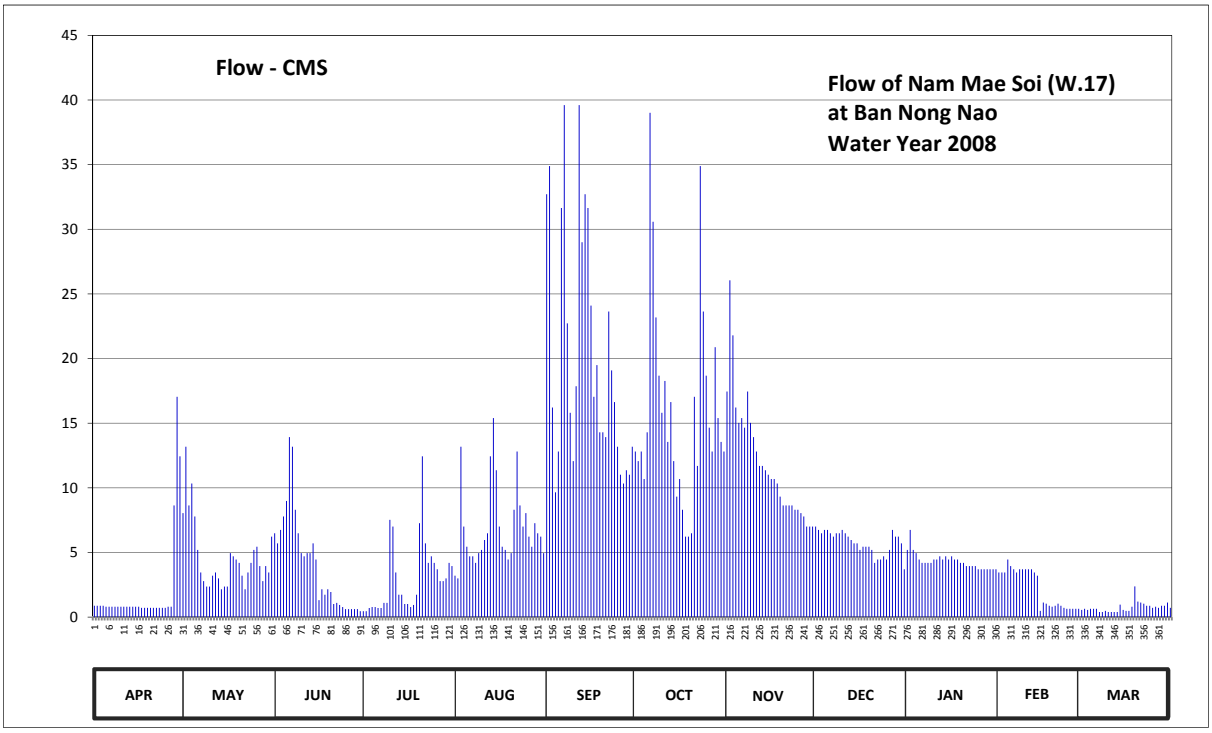
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	291.96	291.99	291.93	291.62	291.80	292.57	292.13	292.25	291.95	291.88	291.81	291.92	
2	291.96	292.14	291.90	291.62	291.79	292.61	292.11	292.44	291.94	291.94	291.81	291.93	
3	291.96	292.01	291.94	291.65	292.14	292.22	292.13	292.35	291.93	291.88	291.81	291.92	
4	291.96	292.06	291.98	291.66	291.95	292.04	292.07	292.22	291.94	291.87	291.85	291.93	
5	291.95	291.98	292.02	291.66	291.89	292.13	292.17	292.19	291.94	291.85	291.83	291.93	
6	291.95	291.88	292.16	291.65	291.86	292.55	292.68	292.20	291.93	291.84	291.82	291.93	
7	291.95	291.81	292.14	291.65	291.86	292.69	292.53	292.18	291.92	291.84	291.81	291.90	
8	291.95	291.78	292.00	291.70	291.84	292.37	292.38	292.25	291.93	291.84	291.82	291.90	
9	291.95	291.76	291.93	291.70	291.87	292.21	292.28	292.19	291.93	291.84	291.82	291.91	
10	291.95	291.76	291.87	291.97	291.88	292.11	292.21	292.16	291.94	291.85	291.82	291.90	
11	291.95	291.80	291.86	291.95	291.91	292.26	292.27	292.13	291.93	291.85	291.82	291.89	
12	291.95	291.81	291.87	291.81	291.93	292.69	292.15	292.10	291.92	291.86	291.82	291.90	
13	291.95	291.79	291.87	291.73	292.12	292.50	292.23	292.10	291.91	291.85	291.81	291.90	
14	291.95	291.75	291.90	291.73	292.20	292.57	292.11	292.09	291.90	291.86	291.80	291.97	
15	291.95	291.76	291.85	291.69	292.09	292.55	292.03	292.08	291.90	291.85	291.91	291.92	
16	291.95	291.76	291.71	291.69	291.95	292.40	292.07	292.07	291.88	291.86	291.99	291.91	
17	291.94	291.87	291.75	291.66	291.89	292.24	292.00	292.07	291.89	291.85	291.98	291.91	
18	291.94	291.86	291.73	291.68	291.88	292.30	291.92	292.06	291.89	291.85	291.96	291.95	
19	291.94	291.85	291.75	291.73	291.85	292.17	291.92	292.03	291.89	291.84	291.95	292.03	
20	291.94	291.84	291.74	291.96	291.87	292.17	291.93	292.01	291.88	291.84	291.96	292.00	
21	291.94	291.80	291.69	292.12	292.00	292.16	292.24	292.01	291.84	291.83	291.98	291.99	
22	291.94	291.75	291.70	291.90	292.13	292.39	292.10	292.01	291.85	291.83	291.96	291.98	
23	291.94	291.81	291.68	291.84	292.01	292.29	292.61	292.01	291.85	291.83	291.94	291.96	
24	291.94	291.84	291.66	291.86	291.95	292.23	292.39	292.00	291.86	291.83	291.93	291.96	
25	291.94	291.88	291.64	291.84	291.99	292.14	292.28	292.00	291.85	291.82	291.93	291.94	
26	291.95	291.89	291.64	291.82	291.92	292.08	292.18	291.99	291.88	291.82	291.93	291.95	
27	291.95	291.83	291.64	291.78	291.89	292.06	292.13	291.98	291.94	291.82	291.93	291.94	
28	292.01	291.78	291.64	291.78	291.96	292.09	292.33	291.95	291.92	291.82	291.93	291.96	
29	292.24	291.83	291.64	291.79	291.93	292.08	292.20	291.95	291.92	291.82		291.96	
30	292.12	291.81	291.62	291.84	291.92	292.14	292.15	291.95	291.90	291.82		291.99	
31		291.92		291.83	291.87		292.13		291.82	291.82		291.94	
Mean	291.97	291.85	291.81	291.77	291.94	292.30	292.20	292.10	291.90	291.85	291.88	291.94	
Max	292.24	292.14	292.16	292.12	292.20	292.69	292.68	292.44	291.95	291.94	291.99	292.03	292.69
Min	291.94	291.75	291.62	291.62	291.79	292.04	291.92	291.95	291.82	291.82	291.80	291.89	291.62

Annual Max Momentary Gage Height 293.31 m. (MSL.) , at 18.00 Hours , on Oct 6, 2008

Zero Gage at Bottom Elevation 292.00 m. (MSL.) , River Bed 291.08 m. (MSL.)

Left Bank Elevation 296.45 m. (MSL.) ,

Right Bank Elevation 296.44 m. (MSL.) , Drainage Are 726 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.88	8.04	6.48	0.46	3.20	32.71	12.81	17.45	7.00	5.20	3.45	0.56		
2	0.88	13.18	5.70	0.46	2.99	34.89	12.07	26.06	6.74	6.74	3.45	0.64		
3	0.88	8.64	6.74	0.70	13.18	16.22	12.81	21.80	6.48	5.20	3.45	0.56		
4	0.88	10.34	7.78	0.78	7.00	9.66	10.68	16.22	6.74	4.95	4.45	0.64		
5	0.80	7.78	8.98	0.78	5.45	12.81	14.29	15.03	6.74	4.45	3.95	0.64		
6	0.80	5.20	13.92	0.70	4.70	31.65	39.02	15.40	6.48	4.20	3.70	0.64		
7	0.80	3.45	13.18	0.70	4.70	39.61	30.59	14.66	6.22	4.20	3.45	0.40		
8	0.80	2.78	8.30	1.10	4.20	22.72	23.18	17.45	6.48	4.20	3.70	0.40		
9	0.80	2.36	6.48	1.10	4.95	15.81	18.68	15.03	6.48	4.20	3.70	0.48		
10	0.80	2.36	4.95	7.52	5.20	12.07	15.81	13.92	6.74	4.45	3.70	0.40		
11	0.80	3.20	4.70	7.00	5.96	17.86	18.27	12.81	6.48	4.45	3.70	0.39		
12	0.80	3.45	4.95	3.45	6.48	39.61	13.55	11.70	6.22	4.70	3.70	0.40		
13	0.80	2.99	4.95	1.73	12.44	29.00	16.63	11.70	5.96	4.45	3.45	0.40		
14	0.80	2.15	5.70	1.73	15.40	32.71	12.07	11.36	5.70	4.70	3.20	0.96		
15	0.80	2.36	4.45	1.02	11.36	31.65	9.32	11.02	5.70	4.45	0.48	0.56		
16	0.80	2.36	1.31	1.02	7.00	24.10	10.68	10.68	5.20	4.70	1.12	0.48		
17	0.72	4.95	2.15	0.78	5.45	17.04	8.30	10.68	5.45	4.45	1.04	0.48		
18	0.72	4.70	1.73	0.94	5.20	19.50	6.22	10.34	5.45	4.45	0.88	0.80		
19	0.72	4.45	2.15	1.73	4.45	14.29	6.22	9.32	5.45	4.20	0.80	2.37		
20	0.72	4.20	1.94	7.26	4.95	14.29	6.48	8.64	5.20	4.20	0.88	1.20		
21	0.72	3.20	1.02	12.44	8.30	13.92	17.04	8.64	4.20	3.95	1.04	1.12		
22	0.72	2.15	1.10	5.70	12.81	23.64	11.70	8.64	4.45	3.95	0.88	1.04		
23	0.72	3.45	0.94	4.20	8.64	19.09	34.89	8.64	4.45	3.95	0.72	0.88		
24	0.72	4.20	0.78	4.70	7.00	16.63	23.64	8.30	4.70	3.95	0.64	0.88		
25	0.72	5.20	0.62	4.20	8.04	13.18	18.68	8.30	4.45	3.70	0.64	0.72		
26	0.80	5.45	0.62	3.70	6.22	11.02	14.66	8.04	5.20	3.70	0.64	0.80		
27	0.80	3.95	0.62	2.78	5.45	10.34	12.81	7.78	6.74	3.70	0.64	0.72		
28	8.64	2.78	0.62	2.78	7.26	11.36	20.88	7.00	6.22	3.70	0.64	0.88		
29	17.04	3.95	0.62	2.99	6.48	11.02	15.40	7.00	6.22	3.70		0.88		
30	12.44	3.45	0.46	4.20	6.22	13.18	13.55	7.00	5.70	3.70		1.12		
31		6.22		3.95	4.95		12.81		3.70	3.70		0.72		
Total	59.32	142.94	123.94	92.60	215.63	611.58	493.74	360.61	178.94	134.24	62.09	23.16	2498.79	CMSDAY
Mean	1.98	4.61	4.13	2.99	6.96	20.39	15.93	12.02	5.77	4.33	2.22	0.75	6.85	CMS
Max	17.04	13.18	13.92	12.44	15.40	39.61	39.02	26.06	7.00	6.74	4.45	2.37	39.61	CMS
Min	0.72	2.15	0.46	0.46	2.99	9.66	6.22	7.00	3.70	3.70	0.48	0.39	0.39	CMS
Runoff	5.13	12.35	10.71	8.00	18.63	52.84	42.66	31.16	15.46	11.60	5.36	2.00	215.90	MCM

Momentary Peak 85.19 CMS. at 293.31 m. (MSL.) at 18.00 Hours , on Oct 6, 2008

Runoff Yield 9.43 Liters/Second/Square KM. Momentary Peak Yield 117.34 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	941 sq.km.
Type of Gage	Staff gage.
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** +238.130 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.
Period of Available Gage Records	1993 to date
Rating Operation	
Period of Rating	1993 to date
Rated by Float	-
Rated by Current Meter	1993 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair.Flow effected by the local weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 36 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

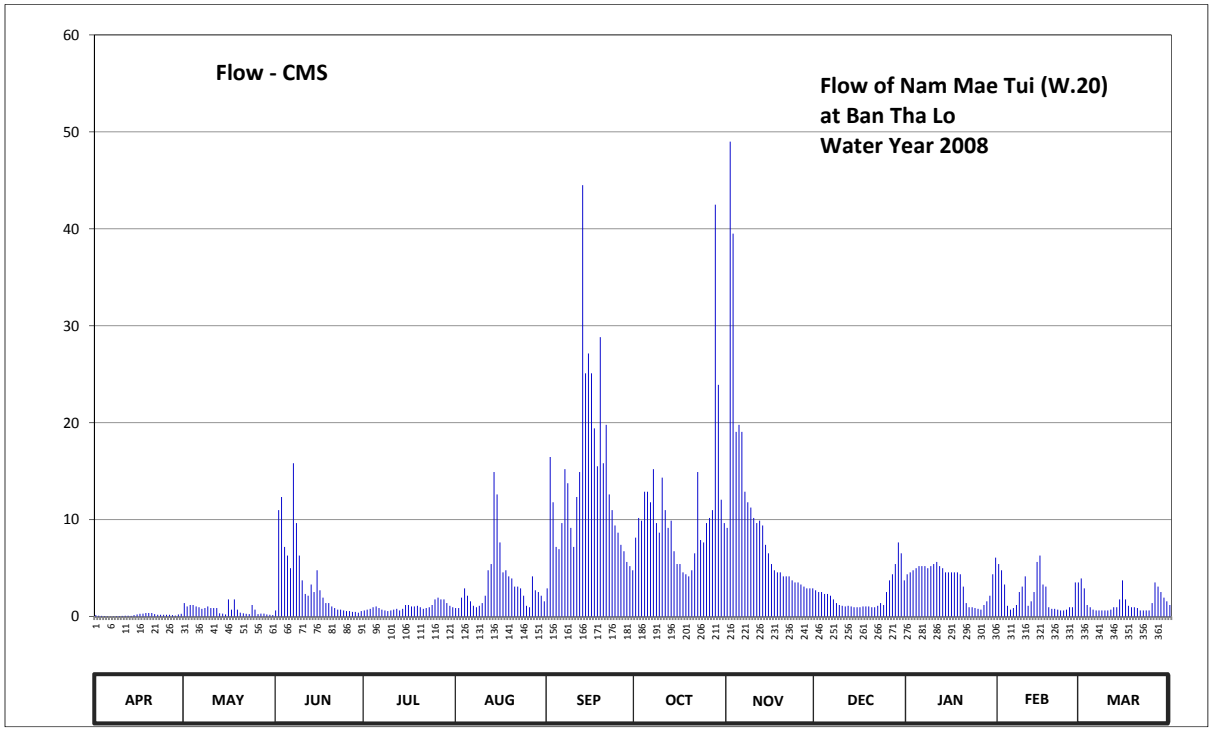
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	230.52	230.71	230.63	230.63	230.66	230.79	231.03	231.07	230.78	230.86	230.91	230.84	
2	230.49	230.68	231.14	230.64	230.66	231.33	231.11	232.09	230.77	230.87	230.88	230.79	
3	230.47	230.70	231.19	230.65	230.74	231.17	231.10	231.90	230.77	230.88	230.81	230.70	
4	230.45	230.70	230.99	230.67	230.79	230.99	231.21	231.41	230.76	230.89	230.69	230.67	
5	230.44	230.68	230.95	230.68	230.75	230.98	231.21	231.43	230.76	230.90	230.64	230.64	
6	230.43	230.67	230.89	230.66	230.72	231.09	231.17	231.41	230.75	230.90	230.66	230.63	
7	230.44	230.65	231.31	230.64	230.69	231.29	231.29	231.21	230.73	230.90	230.70	230.63	
8	230.46	230.66	231.09	230.63	230.67	231.24	231.09	231.17	230.71	230.89	230.77	230.63	
9	230.45	230.68	230.95	230.62	230.69	231.07	231.05	231.15	230.70	230.90	230.80	230.63	
10	230.47	230.66	230.83	230.63	230.71	230.99	231.26	231.11	230.69	230.91	230.85	230.63	
11	230.49	230.66	230.76	230.64	230.75	231.19	231.14	231.09	230.68	230.92	230.69	230.64	
12	230.49	230.66	230.75	230.65	230.88	231.28	231.07	231.10	230.69	230.90	230.72	230.67	
13	230.48	230.58	230.81	230.63	230.91	232.00	231.10	231.08	230.68	230.89	230.77	230.67	
14	230.52	230.57	230.77	230.65	231.28	231.57	230.97	231.00	230.67	230.87	230.92	230.73	
15	230.54	230.54	230.88	230.70	231.20	231.62	230.91	230.96	230.67	230.87	230.95	230.83	
16	230.56	230.73	230.78	230.70	231.01	231.57	230.91	230.91	230.67	230.87	230.81	230.73	
17	230.57	230.64	230.74	230.68	230.87	231.42	230.87	230.88	230.68	230.87	230.80	230.69	
18	230.59	230.73	230.71	230.68	230.88	231.30	230.86	230.87	230.68	230.87	230.67	230.67	
19	230.59	230.64	230.71	230.69	230.85	231.66	230.85	230.87	230.68	230.86	230.65	230.67	
20	230.59	230.60	230.68	230.67	230.84	231.31	230.88	230.85	230.67	230.80	230.65	230.66	
21	230.55	230.58	230.66	230.65	230.80	231.43	230.96	230.85	230.67	230.71	230.64	230.63	
22	230.53	230.56	230.64	230.66	230.80	231.20	231.28	230.85	230.69	230.67	230.63	230.63	
23	230.53	230.55	230.64	230.67	230.79	231.14	231.02	230.83	230.71	230.67	230.63	230.63	
24	230.53	230.70	230.63	230.70	230.75	231.08	231.01	230.82	230.70	230.66	230.64	230.63	
25	230.53	230.64	230.62	230.73	230.69	231.05	231.09	230.82	230.77	230.65	230.67	230.71	
26	230.53	230.55	230.62	230.74	230.67	231.00	231.11	230.81	230.83	230.64	230.67	230.82	
27	230.52	230.57	230.61	230.73	230.85	230.97	231.14	230.80	230.86	230.70	230.82	230.80	
28	230.50	230.57	230.61	230.73	230.78	230.92	231.96	230.79	230.91	230.72	230.82	230.77	
29	230.54	230.54	230.60	230.71	230.77	230.90	231.54	230.79	231.01	230.75		230.74	
30	230.56	230.53	230.62	230.69	230.75	230.88	231.18	230.79	230.96	230.86		230.72	
31		230.52		230.67	230.72		231.09		230.83	230.94		230.70	
Mean	230.51	230.63	230.79	230.67	230.80	231.21	231.11	231.06	230.75	230.83	230.74	230.69	
Max	230.59	230.73	231.31	230.74	231.28	232.00	231.96	232.09	231.01	230.94	230.95	230.84	232.09
Min	230.43	230.52	230.60	230.62	230.66	230.79	230.85	230.79	230.67	230.64	230.63	230.63	230.43

Annual Max Momentary Gage Height 232.42 m. (MSL.) , at 15.00 Hours , on Nov 2, 2008

Zero Gage at Bottom Elevation 230.42 m. (MSL.) , River Bed 230.09 m. (MSL.)

Left Bank Elevation 238.06 m. (MSL.) ,

Right Bank Elevation 238.08 m. (MSL.) , Drainage Are 941 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.16	1.39	0.64	0.64	0.88	2.91	8.15	9.15	2.72	4.36	5.42	3.94		
2	0.09	1.04	10.98	0.72	0.88	16.46	10.17	49.00	2.53	4.57	4.78	2.91		
3	0.07	1.20	12.33	0.80	1.96	11.79	9.90	39.50	2.53	4.78	3.31	1.20		
4	0.05	1.20	7.18	0.96	2.91	7.18	12.89	19.06	2.34	4.99	1.12	0.96		
5	0.04	1.04	6.30	1.04	2.15	6.96	12.89	19.78	2.34	5.20	0.72	0.72		
6	0.03	0.96	4.99	0.88	1.58	9.65	11.79	19.06	2.15	5.20	0.88	0.64		
7	0.04	0.80	15.82	0.72	1.12	15.21	15.21	12.89	1.77	5.20	1.20	0.64		
8	0.06	0.88	9.65	0.64	0.96	13.76	9.65	11.79	1.39	4.99	2.53	0.64		
9	0.05	1.04	6.30	0.56	1.12	9.15	8.65	11.25	1.20	5.20	3.10	0.64		
10	0.07	0.88	3.73	0.64	1.39	7.18	14.34	10.17	1.12	5.42	4.15	0.64		
11	0.09	0.88	2.34	0.72	2.15	12.33	10.98	9.65	1.04	5.64	1.12	0.72		
12	0.09	0.88	2.15	0.80	4.78	14.92	9.15	9.90	1.12	5.20	1.58	0.96		
13	0.08	0.34	3.31	0.64	5.42	44.50	9.90	9.40	1.04	4.99	2.53	0.96		
14	0.16	0.31	2.53	0.80	14.92	25.10	6.74	7.40	0.96	4.57	5.64	1.77		
15	0.22	0.22	4.78	1.20	12.60	27.14	5.42	6.52	0.96	4.57	6.30	3.73		
16	0.28	1.77	2.72	1.20	7.65	25.10	5.42	5.42	0.96	4.57	3.31	1.77		
17	0.31	0.72	1.96	1.04	4.57	19.42	4.57	4.78	1.04	4.57	3.10	1.12		
18	0.37	1.77	1.39	1.04	4.78	15.50	4.36	4.57	1.04	4.57	0.96	0.96		
19	0.37	0.72	1.39	1.12	4.15	28.82	4.15	4.57	1.04	4.36	0.80	0.96		
20	0.37	0.40	1.04	0.96	3.94	15.82	4.78	4.15	0.96	3.10	0.80	0.88		
21	0.25	0.34	0.88	0.80	3.10	19.78	6.52	4.15	0.96	1.39	0.72	0.64		
22	0.19	0.28	0.72	0.88	3.10	12.60	14.92	4.15	1.12	0.96	0.64	0.64		
23	0.19	0.25	0.72	0.96	2.91	10.98	7.90	3.73	1.39	0.96	0.64	0.64		
24	0.19	1.20	0.64	1.20	2.15	9.40	7.65	3.52	1.20	0.88	0.72	0.64		
25	0.19	0.72	0.56	1.77	1.12	8.65	9.65	3.52	2.53	0.80	0.96	1.39		
26	0.19	0.25	0.56	1.96	0.96	7.40	10.17	3.31	3.73	0.72	0.96	3.52		
27	0.16	0.31	0.48	1.77	4.15	6.74	10.98	3.10	4.36	1.20	3.52	3.10		
28	0.10	0.31	0.48	1.77	2.72	5.64	42.50	2.91	5.42	1.58	3.52	2.53		
29	0.22	0.22	0.40	1.39	2.53	5.20	23.90	2.91	7.65	2.15		1.96		
30	0.28	0.19	0.56	1.12	2.15	4.78	12.06	2.91	6.52	4.36		1.58		
31		0.16		0.96	1.58		9.65		3.73	6.08		1.20		
Total	4.96	22.67	107.53	31.70	106.38	420.07	335.01	302.22	68.86	117.13	65.03	44.60	1626.16	CMSDAY
Mean	0.17	0.73	3.58	1.02	3.43	14.00	10.81	10.07	2.22	3.78	2.32	1.44	4.46	CMS
Max	0.37	1.77	15.82	1.96	14.92	44.50	42.50	49.00	7.65	6.08	6.30	3.94	49.00	CMS
Min	0.03	0.16	0.40	0.56	0.88	2.91	4.15	2.91	0.96	0.72	0.64	0.64	0.03	CMS
Runoff	0.43	1.96	9.29	2.74	9.19	36.29	28.94	26.11	5.95	10.12	5.62	3.85	140.50	MCM

Momentary Peak 67.70 CMS. at 232.42 m. (MSL.) at 15.00 Hours , on Nov 2, 2008

Runoff Yield 4.73 Liters/Second/Square KM. Momentary Peak Yield 71.94 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	3,367 sq.km.		
Type of Gage	Staff gage.		
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings.		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Float	-		
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 37 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

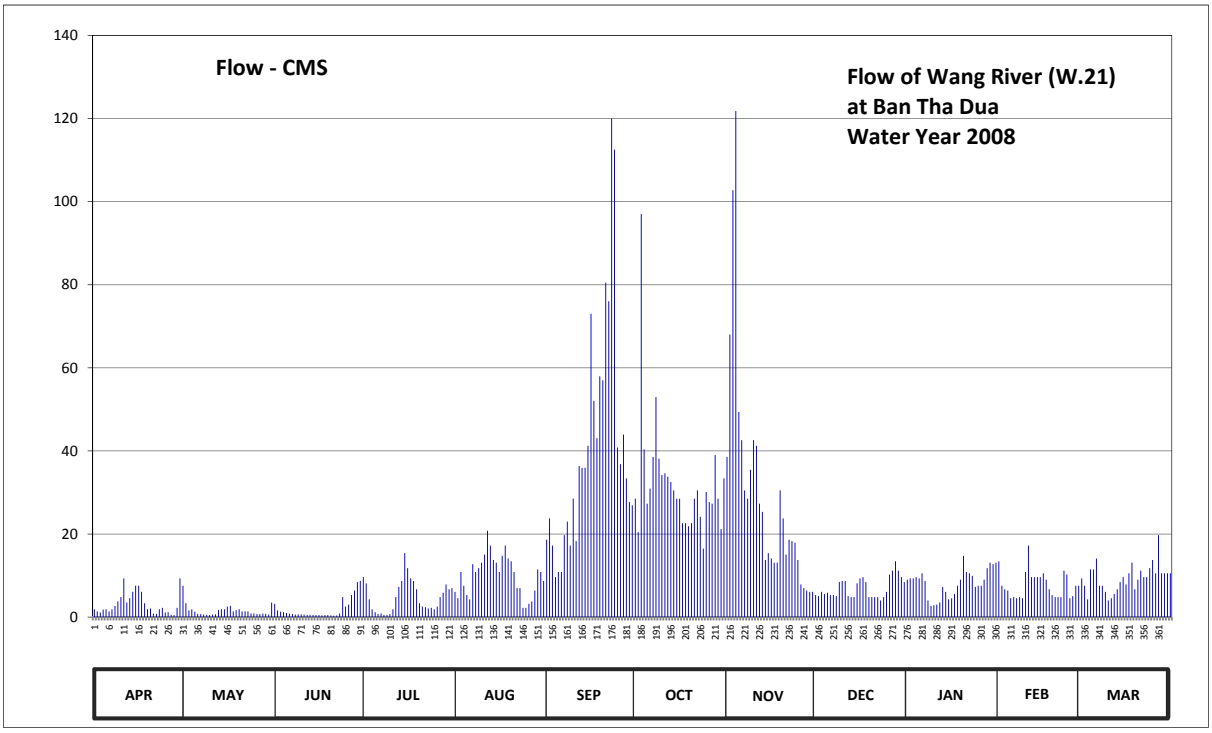
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	231.70	231.95	231.78	232.02	231.90	232.29	232.55	232.79	231.87	232.00	232.14	232.01	
2	231.65	231.79	231.67	231.97	231.84	232.43	232.34	233.43	231.86	232.01	231.95	231.95	
3	231.62	231.67	231.64	231.83	232.06	232.25	234.00	234.10	231.90	232.01	231.92	231.83	
4	231.69	231.70	231.63	231.70	231.95	232.02	232.83	234.43	231.88	232.02	231.91	232.08	
5	231.70	231.64	231.61	231.63	231.87	232.06	232.52	233.03	231.89	232.01	231.84	232.08	
6	231.65	231.58	231.59	231.57	231.83	232.06	232.61	232.88	231.87	232.05	231.85	232.16	
7	231.70	231.57	231.57	231.60	232.12	232.32	232.79	232.60	231.87	231.99	231.84	231.95	
8	231.75	231.55	231.55	231.54	232.06	232.41	233.11	232.55	231.86	231.82	231.85	231.95	
9	231.81	231.54	231.56	231.54	232.09	232.25	232.78	232.72	231.98	231.75	231.84	231.90	
10	231.85	231.53	231.56	231.57	232.13	232.55	232.69	232.88	231.99	231.76	232.06	231.82	
11	232.01	231.55	231.55	231.70	232.19	232.28	232.70	232.85	231.99	231.77	232.25	231.84	
12	231.80	231.56	231.54	231.85	232.35	232.74	232.68	232.52	231.86	231.80	232.02	231.88	
13	231.84	231.68	231.54	231.94	232.25	232.73	232.65	232.47	231.85	231.94	232.02	231.92	
14	231.90	231.70	231.54	231.99	232.15	232.73	232.60	232.15	231.85	231.90	232.02	231.98	
15	231.95	231.70	231.53	232.20	232.13	232.85	232.55	232.20	231.97	231.83	232.02	232.02	
16	231.95	231.74	231.53	232.09	232.06	233.53	232.55	232.16	232.01	231.84	232.05	231.96	
17	231.90	231.75	231.52	232.01	232.18	233.09	232.40	232.13	232.02	231.88	232.00	232.05	
18	231.79	231.65	231.53	231.99	232.25	232.89	232.40	232.13	231.98	231.95	231.92	232.13	
19	231.70	231.68	231.53	231.92	232.16	233.22	232.38	232.60	231.85	232.00	231.87	231.92	
20	231.71	231.70	231.52	231.79	232.14	233.20	232.40	232.43	231.85	232.18	231.85	232.00	
21	231.59	231.65	231.51	231.74	232.06	233.68	232.55	232.19	231.85	232.06	231.85	232.07	
22	231.58	231.65	231.52	231.73	231.93	233.59	232.60	232.29	231.85	232.05	231.85	232.02	
23	231.70	231.65	231.60	231.71	231.93	234.40	232.44	232.28	231.82	232.03	232.07	232.02	
24	231.72	231.60	231.85	231.72	231.72	234.27	232.23	232.27	231.85	231.94	232.04	232.09	
25	231.62	231.60	231.74	231.70	231.72	232.84	232.59	232.15	231.90	231.95	231.84	232.15	
26	231.63	231.57	231.77	231.74	231.78	232.75	232.53	231.96	232.04	231.95	231.86	232.05	
27	231.54	231.57	231.87	231.85	231.81	232.91	232.52	231.93	232.07	232.00	231.95	232.32	
28	231.53	231.59	231.91	231.89	231.91	232.67	232.80	231.91	232.14	232.09	231.95	232.05	
29	231.72	231.58	231.98	231.96	232.08	232.53	232.55	231.90	232.07	232.13		232.05	
30	232.01	231.55	231.99	231.92	232.06	232.51	232.36	231.90	232.02	232.12		232.05	
31		231.80		231.93	231.99		232.67		231.98	232.13		232.05	
Mean	231.74	231.65	231.64	231.82	232.02	232.80	232.62	232.53	231.93	231.97	231.95	232.01	
Max	232.01	231.95	231.99	232.20	232.35	234.40	234.00	234.43	232.14	232.18	232.25	232.32	234.43
Min	231.53	231.53	231.51	231.54	231.72	232.02	232.23	231.90	231.82	231.75	231.84	231.82	231.51

Annual Max Momentary Gage Height 234.60 m. (MSL.) , at 18.00 Hours , on Sep 23, 2008

Zero Gage at Bottom Elevation 232.00 m. (MSL.) , River Bed 230.66 m. (MSL.)

Left Bank Elevation 239.82 m. (MSL.) ,

Right Bank Elevation 240.63 m. (MSL.) , Drainage Are 3,367 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.90	7.55	3.18	9.62	6.10	18.64	28.50	38.56	5.32	9.00	13.42	9.31		
2	1.40	3.34	1.60	8.13	4.54	23.77	20.44	68.00	5.06	9.31	7.55	7.55		
3	1.10	1.60	1.30	4.28	10.86	17.20	97.00	102.75	6.10	9.31	6.68	4.28		
4	1.80	1.90	1.20	1.90	7.55	9.62	40.35	121.80	5.58	9.62	6.39	11.48		
5	1.90	1.30	1.00	1.20	5.32	10.86	27.30	49.35	5.84	9.31	4.54	11.48		
6	1.40	0.78	0.84	0.72	4.28	10.86	30.91	42.60	5.32	10.55	4.80	14.08		
7	1.90	0.72	0.72	0.90	12.76	19.72	38.56	30.50	5.32	8.71	4.54	7.55		
8	2.70	0.60	0.60	0.54	10.86	22.99	52.95	28.50	5.06	4.02	4.80	7.55		
9	3.76	0.54	0.66	0.54	11.79	17.20	38.12	35.48	8.42	2.70	4.54	6.10		
10	4.80	0.48	0.66	0.72	13.09	28.50	34.19	42.60	8.71	2.86	10.86	4.02		
11	9.31	0.60	0.60	1.90	15.07	18.28	34.60	41.25	8.71	3.02	17.20	4.54		
12	3.50	0.66	0.54	4.80	20.80	36.36	33.78	27.30	5.06	3.50	9.62	5.58		
13	4.54	1.70	0.54	7.26	17.20	35.92	32.55	25.33	4.80	7.26	9.62	6.68		
14	6.10	1.90	0.54	8.71	13.75	35.92	30.50	13.75	4.80	6.10	9.62	8.42		
15	7.55	1.90	0.48	15.40	13.09	41.25	28.50	15.40	8.13	4.28	9.62	9.62		
16	7.55	2.54	0.48	11.79	10.86	73.00	28.50	14.08	9.31	4.54	10.55	7.84		
17	6.10	2.70	0.42	9.31	14.74	52.05	22.60	13.09	9.62	5.58	9.00	10.55		
18	3.34	1.40	0.48	8.71	17.20	43.05	22.60	13.09	8.42	7.55	6.68	13.09		
19	1.90	1.70	0.48	6.68	14.08	57.95	21.88	30.50	4.80	9.00	5.32	6.68		
20	2.06	1.90	0.42	3.34	13.42	57.00	22.60	23.77	4.80	14.74	4.80	9.00		
21	0.84	1.40	0.36	2.54	10.86	80.50	28.50	15.07	4.80	10.86	4.80	11.17		
22	0.78	1.40	0.42	2.38	6.97	76.00	30.50	18.64	4.80	10.55	4.80	9.62		
23	1.90	1.40	0.90	2.06	6.97	120.00	24.16	18.28	4.02	9.93	11.17	9.62		
24	2.22	0.90	4.80	2.22	2.22	112.53	16.48	17.92	4.80	7.26	10.24	11.79		
25	1.10	0.90	2.54	1.90	2.22	40.80	30.10	13.75	6.10	7.55	4.54	13.75		
26	1.20	0.72	3.02	2.54	3.18	36.80	27.70	7.84	10.24	7.55	5.06	10.55		
27	0.54	0.72	5.32	4.80	3.76	43.95	27.30	6.97	11.17	9.00	7.55	19.72		
28	0.48	0.84	6.39	5.84	6.39	33.37	39.00	6.39	13.42	11.79	7.55	10.55		
29	2.22	0.78	8.42	7.84	11.48	27.70	28.50	6.10	11.17	13.09		10.55		
30	9.31	0.60	8.71	6.68	10.86	26.90	21.16	6.10	9.62	12.76		10.55		
31		3.50		6.97	8.71		33.37		8.42	13.09		10.55		
Total	95.20	48.97	57.62	152.22	310.98	1228.69	993.20	894.76	217.74	254.39	215.86	293.82	4763.45	CMSDAY
Mean	3.17	1.58	1.92	4.91	10.03	40.96	32.04	29.83	7.02	8.21	7.71	9.48	13.05	CMS
Max	9.31	7.55	8.71	15.40	20.80	120.00	97.00	121.80	13.42	14.74	17.20	19.72	121.80	CMS
Min	0.48	0.48	0.36	0.54	2.22	9.62	16.48	6.10	4.02	2.70	4.54	4.02	0.36	CMS
Runoff	8.23	4.23	4.98	13.15	26.87	106.16	85.81	77.31	18.81	21.98	18.65	25.39	411.56	MCM

Momentary Peak 132.00 CMS. at 234.60 m. (MSL.) at 18.00 Hours , on Sep 23, 2008

Runoff Yield 3.88 Liters/Second/Square KM. Momentary Peak Yield 39.20 Liters/Second/Square KM.

WATER YEAR : 2008

WANG RIVER BASIN

Nam Mae Chang at Ban Wang Phrao , Lampang (W.22)

Lat 18 - 08 - 35 N Long 99 - 24 - 48 E

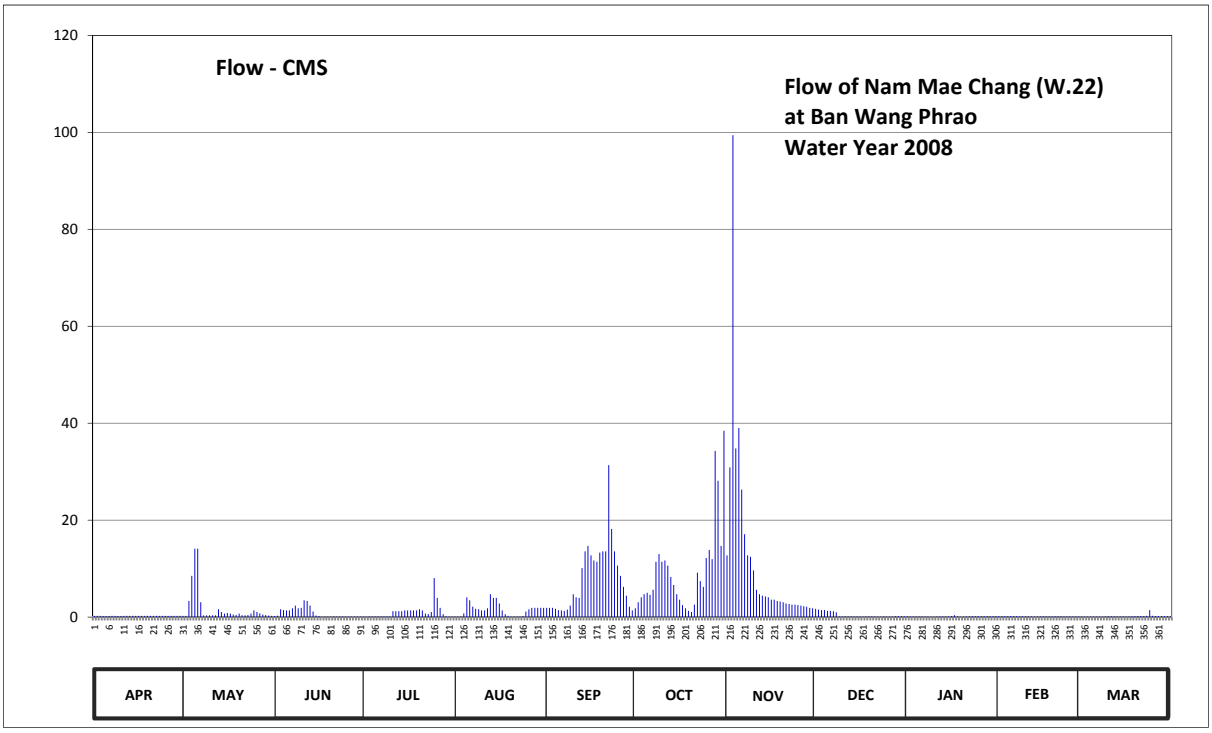
Location : on right bank at the bridge.

	Ban Wang Phrao	**Amphoe** Ko Kha	**Changwat** Lampang
Drainge 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** +221.226 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings.		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Float	-		
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 26 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	215.66	215.66	215.31	215.21	215.20	215.62	215.61	216.21	215.60	215.51	215.57	215.44	
2	215.66	215.66	215.33	215.21	215.20	215.62	215.72	216.68	215.58	215.50	215.57	215.43	
3	215.65	215.74	215.59	215.22	215.24	215.62	215.80	217.69	215.57	215.49	215.57	215.42	
4	215.64	216.04	215.57	215.22	215.47	215.60	215.84	216.76	215.57	215.48	215.56	215.40	
5	215.64	216.26	215.56	215.22	215.80	215.57	215.86	216.84	215.55	215.46	215.56	215.39	
6	215.64	216.26	215.56	215.22	215.75	215.56	215.83	216.58	215.55	215.44	215.56	215.38	
7	215.66	215.72	215.61	215.22	215.64	215.55	215.90	216.35	215.54	215.42	215.56	215.39	
8	215.65	215.36	215.66	215.22	215.60	215.58	216.16	216.21	215.51	215.37	215.55	215.43	
9	215.64	215.36	215.61	215.22	215.59	215.66	216.22	216.20	215.45	215.34	215.55	215.45	
10	215.64	215.36	215.62	215.22	215.56	215.84	216.16	216.09	215.48	215.33	215.55	215.56	
11	215.66	215.36	215.75	215.54	215.56	215.80	216.17	215.90	215.52	215.42	215.55	215.54	
12	215.66	215.36	215.74	215.54	215.61	215.79	216.13	215.84	215.50	215.48	215.49	215.52	
13	215.66	215.59	215.66	215.54	215.84	216.11	216.03	215.82	215.48	215.48	215.40	215.49	
14	215.66	215.52	215.53	215.54	215.79	216.24	215.95	215.81	215.46	215.47	215.50	215.48	
15	215.66	215.46	215.35	215.56	215.79	216.28	215.84	215.80	215.46	215.47	215.55	215.48	
16	215.66	215.49	215.31	215.56	215.70	216.21	215.76	215.76	215.43	215.62	215.55	215.48	
17	215.66	215.46	215.18	215.56	215.56	216.17	215.67	215.76	215.39	215.71	215.55	215.49	
18	215.66	215.42	215.21	215.56	215.43	216.16	215.61	215.74	215.47	215.54	215.47	215.55	
19	215.66	215.40	215.20	215.56	215.32	216.23	215.55	215.73	215.47	215.27	215.49	215.57	
20	215.66	215.46	215.20	215.59	215.21	216.24	215.52	215.72	215.47	215.42	215.51	215.62	
21	215.66	215.37	215.23	215.56	215.21	216.24	215.68	215.70	215.39	215.50	215.52	215.63	
22	215.66	215.36	215.21	215.46	215.20	216.69	216.07	215.69	215.39	215.52	215.51	215.62	
23	215.66	215.39	215.21	215.44	215.20	216.38	215.99	215.68	215.34	215.56	215.50	215.65	
24	215.66	215.46	215.22	215.52	215.31	216.24	215.93	215.68	215.44	215.56	215.48	215.83	
25	215.66	215.56	215.21	216.02	215.53	216.13	216.19	215.67	215.41	215.56	215.47	215.66	
26	215.66	215.52	215.21	215.79	215.59	216.04	216.25	215.66	215.37	215.59	215.46	215.62	
27	215.66	215.47	215.21	215.62	215.62	215.93	216.18	215.65	215.41	215.59	215.45	215.61	
28	215.66	215.42	215.21	215.43	215.62	215.82	216.75	215.64	215.57	215.58	215.44	215.59	
29	215.66	215.39	215.21	215.25	215.62	215.64	216.62	215.62	215.57	215.58		215.56	
30	215.66	215.35	215.21	215.20	215.62	215.56	216.28	215.61	215.57	215.57		215.56	
31		215.32		215.20	215.62		216.83		215.54	215.57		215.54	
Mean	215.66	215.53	215.39	215.43	215.52	215.94	216.00	216.00	215.49	215.50	215.52	215.53	
Max	215.66	216.26	215.75	216.02	215.84	216.69	216.83	217.69	215.60	215.71	215.57	215.83	217.69
Min	215.64	215.32	215.18	215.20	215.20	215.55	215.52	215.61	215.34	215.27	215.40	215.38	215.18

Annual Max Momentary Gage Height	217.78	m. (MSL.) ,	at 06.00 Hours , on Nov 3, 2008		
Zero Gage at Bottom Elevation	215.16	m. (MSL.) ,	River Bed	213.86	m. (MSL.)
Left Bank Elevation	221.15	m. (MSL.) ,			
Right Bank Elevation	221.21	m. (MSL.) ,	Drainage Are	1,549	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.26	0.26	0.23	0.11	0.10	1.92	1.81	12.73	1.70	0.15	0.18	0.12		
2	0.26	0.26	0.28	0.11	0.10	1.92	3.06	30.88	1.54	0.14	0.18	0.11		
3	0.25	3.32	1.62	0.12	0.14	1.92	4.10	99.42	1.46	0.14	0.18	0.11		
4	0.24	8.50	1.46	0.12	0.77	1.70	4.72	34.80	1.46	0.13	0.18	0.10		
5	0.24	14.13	1.38	0.12	4.10	1.46	5.03	39.00	1.30	0.12	0.18	0.10		
6	0.24	14.13	1.38	0.12	3.45	1.38	4.57	26.32	1.30	0.12	0.18	0.09		
7	0.26	3.06	1.81	0.12	2.14	1.30	5.65	17.08	1.22	0.11	0.18	0.10		
8	0.25	0.35	2.36	0.12	1.70	1.54	11.41	12.73	0.98	0.09	0.17	0.11		
9	0.24	0.35	1.81	0.12	1.62	2.36	13.01	12.45	0.12	0.08	0.17	0.12		
10	0.24	0.35	1.92	0.12	1.38	4.72	11.41	9.63	0.13	0.07	0.17	0.18		
11	0.26	0.35	3.45	1.22	1.38	4.10	11.67	5.65	0.15	0.11	0.17	0.16		
12	0.26	0.35	3.32	1.22	1.81	3.97	10.63	4.72	0.14	0.13	0.14	0.15		
13	0.26	1.62	2.36	1.22	4.72	10.11	8.28	4.41	0.13	0.13	0.10	0.14		
14	0.26	1.06	1.14	1.22	3.97	13.57	6.63	4.26	0.12	0.13	0.14	0.13		
15	0.26	0.72	0.33	1.38	3.97	14.69	4.72	4.10	0.12	0.13	0.17	0.13		
16	0.26	0.86	0.23	1.38	2.80	12.73	3.58	3.58	0.11	0.22	0.17	0.13		
17	0.26	0.72	0.08	1.38	1.38	11.67	2.47	3.58	0.10	0.38	0.17	0.14		
18	0.26	0.54	0.11	1.38	0.59	11.41	1.81	3.32	0.13	0.16	0.13	0.17		
19	0.26	0.45	0.10	1.38	0.25	13.29	1.30	3.19	0.13	0.05	0.14	0.18		
20	0.26	0.72	0.10	1.62	0.11	13.57	1.06	3.06	0.13	0.11	0.15	0.22		
21	0.26	0.38	0.13	1.38	0.11	13.57	2.58	2.80	0.10	0.14	0.15	0.23		
22	0.26	0.35	0.11	0.72	0.10	31.34	9.18	2.69	0.10	0.15	0.15	0.22		
23	0.26	0.43	0.11	0.63	0.10	18.17	7.41	2.58	0.08	0.18	0.14	0.25		
24	0.26	0.72	0.12	1.06	0.23	13.57	6.24	2.58	0.12	0.18	0.13	1.46		
25	0.26	1.38	0.11	8.05	1.14	10.63	12.19	2.47	0.10	0.18	0.13	0.26		
26	0.26	1.06	0.11	3.97	1.62	8.50	13.85	2.36	0.09	0.19	0.12	0.22		
27	0.26	0.77	0.11	1.92	1.92	6.24	11.93	2.25	0.10	0.19	0.12	0.21		
28	0.26	0.54	0.11	0.59	1.92	4.41	34.30	2.14	0.18	0.19	0.12	0.19		
29	0.26	0.43	0.11	0.15	1.92	2.14	28.12	1.92	0.18	0.19		0.18		
30	0.26	0.33	0.11	0.10	1.92	1.38	14.69	1.81	0.18	0.18		0.18		
31		0.25		0.10	1.92		38.45		0.16	0.18		0.16		
Total	7.68	58.74	26.60	33.25	49.38	239.28	295.86	358.51	13.86	4.65	4.31	6.25	1098.37	CMSDAY
Mean	0.26	1.89	0.89	1.07	1.59	7.98	9.54	11.95	0.45	0.15	0.15	0.20	3.01	CMS
Max	0.26	14.13	3.45	8.05	4.72	31.34	38.45	99.42	1.70	0.38	0.18	1.46	99.42	CMS
Min	0.24	0.25	0.08	0.10	0.10	1.30	1.06	1.81	0.08	0.05	0.10	0.09	0.05	CMS
Runoff	0.66	5.08	2.30	2.87	4.27	20.67	25.56	30.98	1.20	0.40	0.37	0.54	94.90	MCM

Momentary Peak 107.90 CMS. at 217.78 m. (MSL.) at 06.00 Hours , on Nov 3, 2008

Runoff Yield 1.94 Liters/Second/Square KM. Momentary Peak Yield 69.66 Liters/Second/Square KM.

WATER YEAR : 2008

WANG RIVER BASIN

Wang River at Ban Chiang Rai , Tak (W.23)

Lat 17 - 22 - 01 N Long 99 - 06 - 55 E

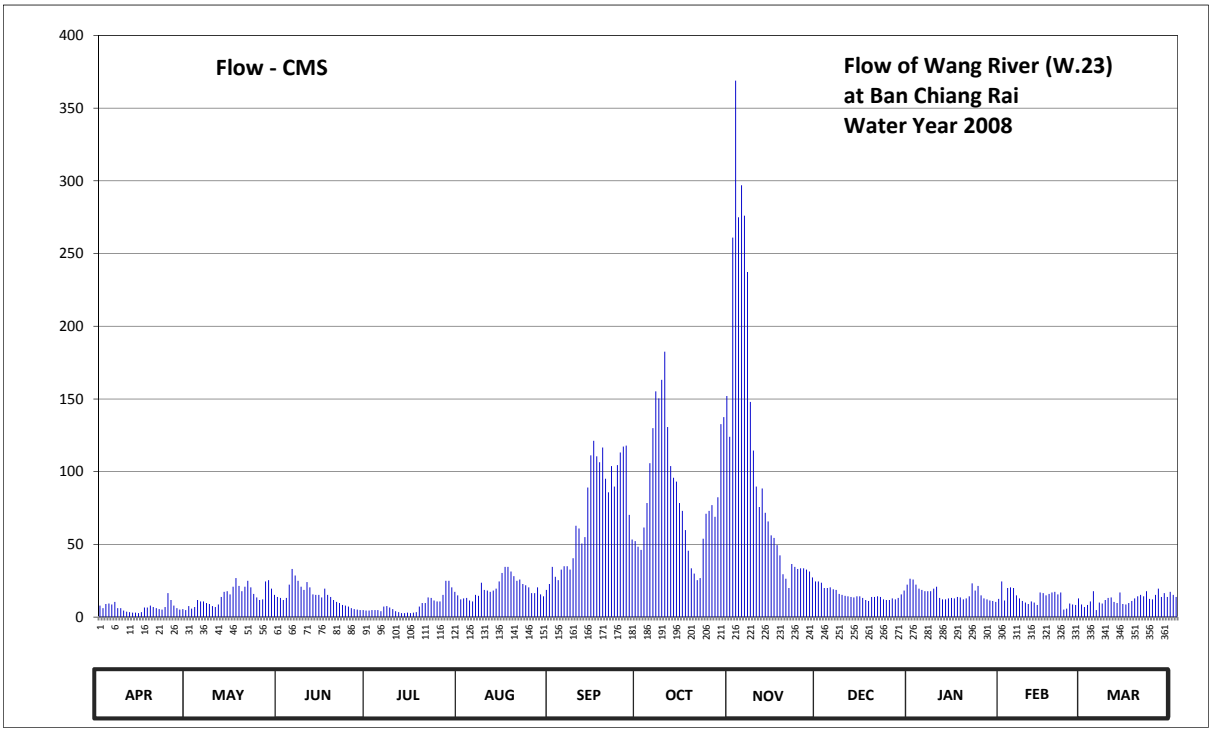
Location : on left bank at Amphoe Sam Ngao.

	Ban Chiang Rai	**Amphoe** Sam Ngao	**Changwat** Tak
Drainge Area	9,930 sq.km.		
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** +148.569 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 mean of 5 readings.		
Period of Available Gage Records	2001 to date		
Rating Operation			
Period of Rating	2001 to date		
Rated by Float	-		
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 18 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	141.97	141.96	142.12	141.87	142.09	142.61	142.84	145.72	142.37	142.42	142.07	141.98	
2	141.92	141.91	142.08	141.88	142.11	142.46	143.11	146.78	142.29	142.34	142.29	142.05	
3	142.00	141.94	142.12	141.88	142.12	142.41	143.37	145.86	142.29	142.28	142.30	142.24	
4	142.01	142.08	142.34	141.88	142.07	142.57	143.78	146.08	142.30	142.26	142.29	141.88	
5	141.99	142.05	142.58	141.86	142.05	142.62	144.14	145.87	142.27	142.24	142.17	142.03	
6	142.04	142.05	142.48	141.95	142.18	142.62	144.49	145.47	142.26	142.24	142.11	142.01	
7	141.92	142.02	142.40	141.96	142.16	142.57	144.43	144.40	142.20	142.24	142.06	142.08	
8	141.92	142.00	142.31	141.93	142.37	142.73	144.59	143.91	142.18	142.28	142.03	142.12	
9	141.87	141.96	142.26	141.90	142.26	143.13	144.83	143.54	142.16	142.31	142.00	142.13	
10	141.85	141.94	142.38	141.86	142.25	143.10	144.15	143.33	142.15	142.12	142.05	142.04	
11	141.84	141.99	142.30	141.84	142.23	142.92	143.75	143.52	142.14	142.09	142.03	142.02	
12	141.83	142.14	142.19	141.82	142.25	143.00	143.63	143.27	142.13	142.09	141.98	142.22	
13	141.83	142.23	142.18	141.82	142.28	143.53	143.59	143.18	142.15	142.11	142.22	142.00	
14	141.82	142.24	142.18	141.83	142.39	143.86	143.37	143.02	142.15	142.12	142.21	141.99	
15	141.84	142.19	142.13	141.82	142.52	144.01	143.29	142.99	142.12	142.11	142.17	142.02	
16	141.93	142.31	142.28	141.83	142.61	143.85	143.08	142.90	142.08	142.14	142.20	142.06	
17	141.93	142.44	142.18	141.84	142.61	143.79	142.83	142.77	142.06	142.13	142.22	142.11	
18	141.97	142.32	142.14	141.95	142.54	143.94	142.59	142.50	142.14	142.09	142.23	142.15	
19	141.94	142.24	142.08	142.02	142.47	143.62	142.51	142.43	142.14	142.11	142.19	142.18	
20	141.92	142.31	142.04	142.02	142.40	143.48	142.41	142.29	142.15	142.15	142.22	142.15	
21	141.90	142.40	142.02	142.13	142.42	143.75	142.44	142.65	142.14	142.36	141.89	142.24	
22	141.89	142.30	141.98	142.12	142.35	143.54	142.98	142.61	142.09	142.25	141.91	142.10	
23	141.94	142.20	141.97	142.07	142.33	143.76	143.26	142.58	142.08	142.32	142.01	142.09	
24	142.21	142.13	141.95	142.05	142.30	143.89	143.29	142.59	142.08	142.17	141.99	142.18	
25	142.08	142.08	141.92	142.05	142.21	143.95	143.35	142.59	142.11	142.11	141.98	142.28	
26	141.97	142.09	141.90	142.18	142.21	143.96	143.23	142.57	142.09	142.09	142.11	142.14	
27	141.92	142.39	141.89	142.40	142.30	143.25	143.43	142.54	142.12	142.07	141.99	142.21	
28	141.89	142.41	141.88	142.40	142.19	142.97	144.18	142.45	142.19	142.06	141.94	142.14	
29	141.90	142.28	141.88	142.30	142.15	142.95	144.25	142.39	142.25	142.04		142.23	
30	141.88	142.18	141.87	142.23	142.26	142.88	144.45	142.39	142.34	142.10		142.18	
31		142.14		142.17	142.35		144.05		142.43	142.39		142.14	
Mean	141.93	142.16	142.13	142.00	142.29	143.26	143.54	143.51	142.18	142.19	142.10	142.11	
Max	142.21	142.44	142.58	142.40	142.61	144.01	144.83	146.78	142.43	142.42	142.30	142.28	146.78
Min	141.82	141.91	141.87	141.82	142.05	142.41	142.41	142.29	142.06	142.04	141.89	141.88	141.82

Annual Max Momentary Gage Height	146.91	m. (MSL.) ,	at 06.00 Hours , on Nov 2, 2008		
Zero Gage at Bottom Elevation	141.29	m. (MSL.) ,	River Bed	138.99	m. (MSL.)
Left Bank Elevation	147.34	m. (MSL.) ,			
Right Bank Elevation	147.76	m. (MSL.) ,	Drainage Are	9,930	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.95	7.60	13.20	4.45	12.15	34.50	46.20	261.00	23.65	25.90	11.45	8.30		
2	6.20	5.85	11.80	4.80	12.85	27.70	61.60	368.90	20.05	22.30	20.05	10.75		
3	9.00	6.90	13.20	4.80	13.20	25.45	78.39	275.00	20.05	19.60	20.50	17.80		
4	9.35	11.80	22.30	4.80	11.45	32.65	105.86	297.00	20.50	18.70	20.05	4.80		
5	8.65	10.75	33.10	4.10	10.75	35.00	129.98	276.00	19.15	17.80	14.95	10.05		
6	10.40	10.75	28.60	7.25	15.30	35.00	155.20	237.30	18.70	17.80	12.85	9.35		
7	6.20	9.70	25.00	7.60	14.60	32.65	150.40	148.00	16.00	17.80	11.10	11.80		
8	6.20	9.00	20.95	6.55	23.65	40.50	163.20	114.57	15.30	19.60	10.05	13.20		
9	4.45	7.60	18.70	5.50	18.70	62.80	182.55	89.78	14.60	20.95	9.00	13.55		
10	3.75	6.90	24.10	4.10	18.25	61.00	130.65	75.71	14.25	13.20	10.75	10.40		
11	3.40	8.65	20.50	3.40	17.35	50.60	103.85	88.44	13.90	12.15	10.05	9.70		
12	3.05	13.90	15.65	2.70	18.25	55.00	95.81	71.69	13.55	12.15	8.30	16.90		
13	3.05	17.35	15.30	2.70	19.60	89.11	93.13	65.80	14.25	12.85	16.90	9.00		
14	2.70	17.80	15.30	3.05	24.55	111.22	78.39	56.20	14.25	13.20	16.45	8.65		
15	3.40	15.65	13.55	2.70	30.40	121.27	73.03	54.45	13.20	12.85	14.95	9.70		
16	6.55	20.95	19.60	3.05	34.50	110.55	59.80	49.50	11.80	13.90	16.00	11.10		
17	6.55	26.80	15.30	3.40	34.50	106.53	45.65	42.50	11.10	13.55	16.90	12.85		
18	7.95	21.40	13.90	7.25	31.30	116.58	33.55	29.50	13.90	12.15	17.35	14.25		
19	6.90	17.80	11.80	9.70	28.15	95.14	29.95	26.35	13.90	12.85	15.65	15.30		
20	6.20	20.95	10.40	9.70	25.00	85.76	25.45	20.05	14.25	14.25	16.90	14.25		
21	5.50	25.00	9.70	13.55	25.90	103.85	26.80	36.50	13.90	23.20	5.15	17.80		
22	5.15	20.50	8.30	13.20	22.75	89.78	53.90	34.50	12.15	18.25	5.85	12.50		
23	6.90	16.00	7.95	11.45	21.85	104.52	71.02	33.10	11.80	21.40	9.35	12.15		
24	16.45	13.55	7.25	10.75	20.50	113.23	73.03	33.55	11.80	14.95	8.65	15.30		
25	11.80	11.80	6.20	10.75	16.45	117.25	77.05	33.55	12.85	12.85	8.30	19.60		
26	7.95	12.15	5.50	15.30	16.45	117.92	69.01	32.65	12.15	12.15	12.85	13.90		
27	6.20	24.55	5.15	25.00	20.50	70.35	82.41	31.30	13.20	11.45	8.65	16.45		
28	5.15	25.45	4.80	25.00	15.65	53.35	132.66	27.25	15.65	11.10	6.90	13.90		
29	5.50	19.60	4.80	20.50	14.25	52.25	137.50	24.55	18.25	10.40		17.35		
30	4.80	15.30	4.45	17.35	18.70	48.40	152.00	24.55	22.30	12.50		15.30		
31		13.90		14.95	22.75		123.95		26.35	24.55		13.90		
Total	197.30	465.90	426.35	279.40	630.25	2199.91	2841.97	2959.24	486.75	496.35	355.90	399.85	11739.17	CMSDAY
Mean	6.58	15.03	14.21	9.01	20.33	73.33	91.68	98.64	15.70	16.01	12.71	12.90	32.16	CMS
Max	16.45	26.80	33.10	25.00	34.50	121.27	182.55	368.90	26.35	25.90	20.50	19.60	368.90	CMS
Min	2.70	5.85	4.45	2.70	10.75	25.45	25.45	20.05	11.10	10.40	5.15	4.80	2.70	CMS
Runoff	17.05	40.25	36.84	24.14	54.45	190.07	245.55	255.68	42.06	42.88	30.75	34.55	1014.26	MCM

Momentary Peak 383.65 CMS. at 146.91 m. (MSL.) at 06.00 Hours , on Nov 2, 2008

Runoff Yield 3.24 Liters/Second/Square KM. Momentary Peak Yield 38.64 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1979 to date
Rating Operation	
Period of Rating	1979 to date
Rated by Float	-
Rated by Current Meter	1979 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Mae yom weir situated about 76 kilometers above gage site. Stage-discharge relation defined by 108 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

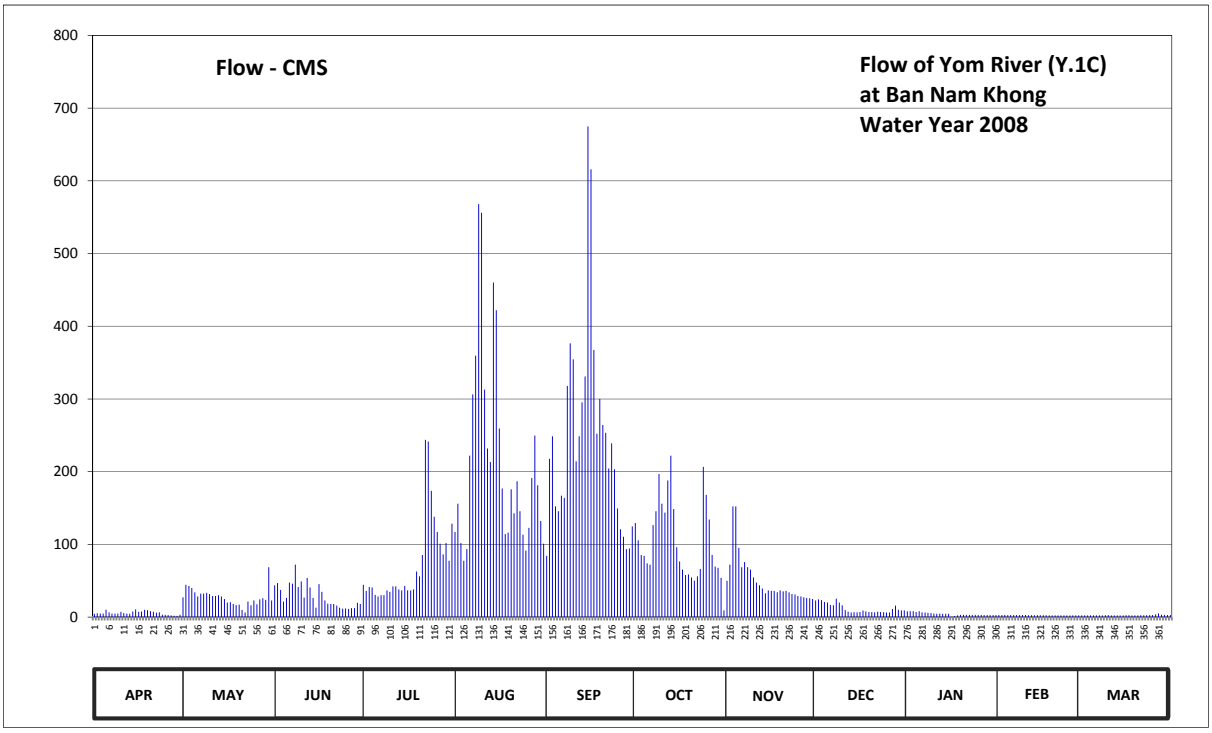
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	144.25	144.57	144.44	144.45	145.28	144.93	145.41	144.52	144.09	143.71	144.14	144.10	
2	144.28	144.45	144.48	144.33	145.69	146.26	145.16	144.79	144.12	143.72	144.14	144.09	
3	144.26	144.43	144.35	144.41	145.12	146.53	144.94	145.65	144.10	143.72	144.16	144.09	
4	144.26	144.39	144.06	144.40	144.85	145.65	144.93	145.65	144.05	143.68	144.15	144.09	
5	144.39	144.30	144.16	144.24	145.03	145.58	144.81	145.05	144.03	143.72	144.14	144.09	
6	144.32	144.20	144.49	144.20	146.30	145.80	144.79	144.75	143.96	143.65	144.14	144.09	
7	144.26	144.27	144.47	144.23	147.01	145.77	145.38	144.83	143.95	143.64	144.14	144.09	
8	144.26	144.27	144.79	144.23	147.42	147.10	145.58	144.75	144.14	143.62	144.14	144.09	
9	144.26	144.29	144.41	144.34	148.92	147.55	146.07	144.71	144.03	143.60	144.14	144.11	
10	144.33	144.26	144.51	144.31	148.84	147.38	145.69	144.58	143.95	143.57	144.15	144.13	
11	144.29	144.21	144.17	144.42	147.06	146.23	145.56	144.49	143.77	143.55	144.12	144.10	
12	144.26	144.21	144.57	144.42	146.39	146.53	145.99	144.44	143.70	143.57	144.11	144.10	
13	144.25	144.23	144.40	144.36	146.22	146.92	146.30	144.38	143.64	143.56	144.12	144.10	
14	144.34	144.20	144.16	144.34	148.18	147.20	145.61	144.28	143.67	143.55	144.12	144.09	
15	144.40	144.13	143.87	144.43	147.90	149.63	145.06	144.34	143.65	143.56	144.12	144.10	
16	144.33	144.03	144.46	144.34	146.62	149.24	144.84	144.33	143.68	143.66	144.11	144.11	
17	144.34	144.04	144.31	144.34	145.89	147.48	144.71	144.33	143.75	143.87	144.11	144.11	
18	144.39	143.99	144.09	144.36	145.25	146.56	144.62	144.30	143.71	144.08	144.10	144.10	
19	144.38	143.96	144.00	144.68	145.27	146.96	144.63	144.34	143.68	144.16	144.10	144.10	
20	144.35	143.97	143.99	144.60	145.88	146.66	144.58	144.32	143.66	144.18	144.10	144.10	
21	144.33	143.78	143.99	144.94	145.55	146.57	144.52	144.33	143.65	144.17	144.10	144.11	
22	144.31	143.64	143.94	146.49	145.98	146.14	144.60	144.30	143.70	144.17	144.10	144.11	
23	144.32	144.06	143.87	146.47	145.58	146.45	144.72	144.26	143.68	144.16	144.10	144.11	
24	144.19	143.95	143.83	145.86	145.24	146.13	146.16	144.25	143.66	144.17	144.10	144.13	
25	144.16	144.09	143.84	145.50	145.01	145.62	145.81	144.21	143.64	144.15	144.10	144.15	
26	144.13	143.98	143.82	145.28	145.34	145.32	145.46	144.20	143.64	144.16	144.10	144.22	
27	144.08	144.12	143.85	145.11	146.02	145.21	144.94	144.18	143.82	144.14	144.10	144.27	
28	143.99	144.15	143.85	144.95	146.54	145.03	144.76	144.16	143.94	144.14	144.10	144.20	
29	143.94	144.11	144.02	145.12	145.93	145.04	144.74	144.15	143.79	144.14		144.17	
30	144.20	144.75	143.99	144.85	145.44	145.36	144.57	144.13	143.76	144.14		144.15	
31		144.09		145.40	145.11		143.76		143.76	144.14		144.14	
Mean	144.26	144.17	144.17	144.75	146.16	146.43	145.12	144.50	143.82	143.87	144.12	144.12	
Max	144.40	144.75	144.79	146.49	148.92	149.63	146.30	145.65	144.14	144.18	144.16	144.27	149.63
Min	143.94	143.64	143.82	144.20	144.85	144.93	143.76	144.13	143.64	143.55	144.10	144.09	143.55

Annual Max Momentary Gage Height 150.22 m. (MSL.) , at 18.00 Hours , on Sep 15, 2008

Zero Gage at Bottom Elevation 143.50 m. (MSL.) , River Bed 140.70 m. (MSL.)

Left Bank Elevation 153.86 m. (MSL.) ,

Right Bank Elevation 153.84 m. (MSL.) , Drainage Are 7,749 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.50	27.29	43.74	44.50	117.10	84.37	129.45	49.88	22.82	7.80	2.82	2.50		
2	5.22	44.50	46.78	36.01	156.05	217.60	105.70	72.14	24.32	8.10	2.82	2.45		
3	4.74	42.98	37.35	41.46	101.90	248.60	85.26	152.25	23.30	8.10	2.98	2.45		
4	4.74	40.03	21.38	40.70	77.35	152.25	84.37	152.25	20.90	7.10	2.90	2.45		
5	10.02	34.00	26.36	30.64	93.42	145.60	73.87	95.30	19.94	8.10	2.82	2.45		
6	6.66	28.40	47.54	28.40	222.00	167.00	72.14	68.70	16.70	6.50	2.82	2.45		
7	4.74	32.32	46.02	30.08	306.30	164.00	126.60	75.61	16.25	6.30	2.82	2.45		
8	4.74	32.32	72.14	30.08	359.60	318.00	145.60	68.70	25.34	5.90	2.82	2.45		
9	4.74	33.44	41.46	36.68	568.00	376.50	196.70	65.26	19.94	5.50	2.82	2.58		
10	7.14	31.76	49.09	34.67	556.00	354.40	156.05	54.62	16.25	4.90	2.90	2.74		
11	5.46	28.96	26.87	42.22	312.80	214.30	143.70	47.54	9.60	4.50	2.66	2.50		
12	4.74	28.96	53.83	42.22	231.90	248.60	187.90	43.74	7.50	4.90	2.58	2.50		
13	4.50	30.08	40.70	38.02	213.20	295.40	222.00	39.36	6.30	4.70	2.66	2.50		
14	7.62	28.40	26.36	36.68	460.20	331.00	148.45	32.88	6.90	4.50	2.66	2.45		
15	10.50	24.83	12.95	42.98	422.00	674.80	96.24	36.68	6.50	4.70	2.66	2.50		
16	7.14	19.94	45.26	36.68	259.40	616.00	76.48	36.01	7.10	0.30	2.58	2.58		
17	7.62	20.42	34.67	36.68	176.90	367.40	65.26	36.01	9.00	1.35	2.58	2.58		
18	10.02	18.05	22.82	38.02	114.25	252.20	57.84	34.00	7.80	2.40	2.50	2.50		
19	9.54	16.70	18.50	62.76	116.15	300.20	58.66	36.68	7.10	2.98	2.50	2.50		
20	8.10	17.15	18.05	56.20	175.80	264.20	54.62	35.34	6.70	3.14	2.50	2.50		
21	7.14	9.90	18.05	85.26	142.75	253.40	49.88	36.01	6.50	3.06	2.50	2.58		
22	6.18	6.30	15.80	243.80	186.80	204.40	56.20	34.00	7.50	3.06	2.50	2.58		
23	6.66	21.38	12.95	241.40	145.60	239.00	66.12	31.76	7.10	2.98	2.50	2.58		
24	3.22	16.25	11.55	173.60	113.30	203.30	206.60	31.20	6.70	3.06	2.50	2.74		
25	2.98	22.82	11.90	138.00	91.54	149.40	168.10	28.96	6.30	2.90	2.50	2.90		
26	2.74	17.60	11.20	117.10	122.80	120.90	134.20	28.40	6.30	2.98	2.50	3.78		
27	2.40	24.32	12.25	100.95	191.20	110.45	85.26	27.38	11.20	2.82	2.50	4.98		
28	1.95	25.85	12.25	86.15	249.80	93.42	69.56	26.36	15.80	2.82	2.50	3.30		
29	1.70	23.81	19.46	101.90	181.30	94.36	67.84	25.85	10.20	2.82		3.06		
30	3.30	68.70	18.05	77.35	132.30	124.70	53.83	24.83	9.30	2.82		2.90		
31		22.82		128.50	100.95		9.30		9.30	2.82		2.82		
Total	170.75	840.28	875.33	2279.69	6698.66	7385.75	3253.78	1527.70	376.46	133.91	74.40	84.30	23701.01	CMSDAY
Mean	5.69	27.11	29.18	73.54	216.09	246.19	104.96	50.92	12.14	4.32	2.66	2.72	64.93	CMS
Max	10.50	68.70	72.14	243.80	568.00	674.80	222.00	152.25	25.34	8.10	2.98	4.98	674.80	CMS
Min	1.70	6.30	11.20	28.40	77.35	84.37	9.30	24.83	6.30	0.30	2.50	2.45	0.30	CMS
Runoff	14.75	72.60	75.63	196.97	578.76	638.13	281.13	131.99	32.53	11.57	6.43	7.28	2047.77	MCM

Momentary Peak 769.20 CMS. at 150.22 m. (MSL.) at 18.00 Hours , on Sep 15, 2008

Runoff Yield 8.38 Liters/Second/Square KM. Momentary Peak Yield 99.26 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 to date
Rated by Float	-
Rated by Current Meter	1967 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

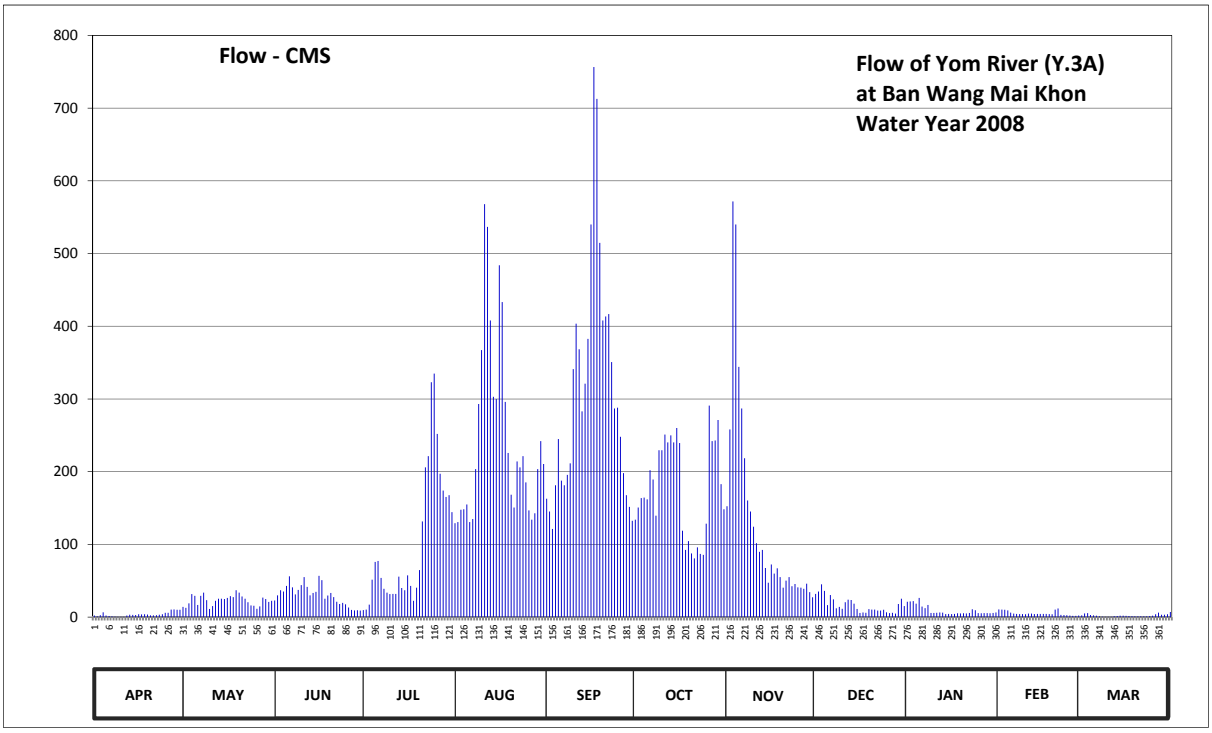
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	50.61	51.25	51.47	51.08	53.24	53.66	53.30	53.53	51.70	51.43	51.13	50.63	
2	50.50	51.22	51.65	51.12	53.26	53.44	53.51	54.76	51.78	51.44	51.12	50.85	
3	50.67	51.37	51.82	51.33	53.47	53.14	53.67	57.68	51.98	51.45	51.11	50.87	
4	50.93	51.69	51.78	52.09	53.48	53.89	53.68	57.40	51.80	51.36	51.06	50.68	
5	50.62	51.63	51.94	52.50	53.56	54.63	53.65	55.62	51.31	51.56	50.91	50.63	
6	50.56	51.32	52.17	52.52	53.26	53.97	54.15	55.05	51.66	51.26	50.84	50.60	
7	50.50	51.63	51.90	52.13	53.31	53.89	53.99	54.34	51.51	51.21	50.82	50.50	
8	50.46	51.74	51.68	51.86	54.17	54.07	53.37	53.63	51.20	51.32	50.81	50.46	
9	50.44	51.48	51.83	51.74	55.11	54.26	54.46	53.44	51.25	50.88	50.81	50.45	
10	50.44	51.16	51.96	51.69	55.83	55.59	54.46	53.18	51.17	50.88	50.80	50.45	
11	50.45	51.28	52.15	51.70	57.65	56.16	54.69	52.88	51.41	50.90	50.84	50.45	
12	50.61	51.46	51.91	51.70	57.37	55.84	54.58	52.71	51.50	50.92	50.84	50.54	
13	50.73	51.53	51.65	52.16	56.20	55.01	54.68	52.75	51.49	50.91	50.81	50.56	
14	50.70	51.53	51.73	51.88	55.21	55.39	54.58	52.36	51.36	50.81	50.82	50.59	
15	50.69	51.52	51.77	51.82	55.18	55.97	54.78	52.02	51.16	50.82	50.82	50.59	
16	50.80	51.56	52.18	52.19	56.89	57.40	54.57	52.44	50.89	50.81	50.82	50.58	
17	50.77	51.62	52.08	51.94	56.43	59.13	53.11	52.23	50.92	50.82	50.82	50.55	
18	50.79	51.59	51.53	51.46	55.14	58.81	52.75	52.35	50.90	50.86	50.81	50.53	
19	50.75	51.82	51.64	51.89	54.42	57.17	52.92	52.15	51.15	50.85	50.80	50.50	
20	50.65	51.74	51.73	52.31	53.73	56.20	52.68	51.89	51.12	50.86	51.12	50.50	
21	50.65	51.61	51.59	53.27	53.51	56.25	52.58	52.07	51.12	50.85	51.19	50.50	
22	50.66	51.53	51.43	54.20	54.29	56.28	52.80	52.15	51.05	50.89	50.70	50.51	
23	50.72	51.41	51.35	54.37	54.20	55.68	52.67	51.93	51.05	51.14	50.68	50.51	
24	50.79	51.30	51.39	55.41	54.37	55.05	52.65	51.99	51.10	51.07	50.66	50.55	
25	50.90	51.29	51.34	55.53	53.94	55.06	53.23	51.90	50.93	50.87	50.61	50.60	
26	50.90	51.17	51.23	54.70	53.46	54.66	55.09	51.89	50.87	50.86	50.57	50.80	
27	51.12	51.27	51.09	54.09	53.30	54.10	54.60	51.86	50.90	50.87	50.57	50.91	
28	51.13	51.57	51.06	53.80	53.41	53.72	54.61	52.00	50.84	50.87	50.61	50.73	
29	51.10	51.52	51.07	53.69	54.17	53.52	54.89	51.76	51.35	50.86		50.72	
30	51.11	51.42	51.05	53.72	54.60	53.28	53.91	51.58	51.53	50.88		50.79	
31		51.46		53.43	54.25		53.48		51.28	50.92		50.95	
Mean	50.73	51.47	51.64	52.69	54.53	55.17	53.81	53.05	51.27	51.01	50.84	50.62	
Max	51.13	51.82	52.18	55.53	57.65	59.13	55.09	57.68	51.98	51.56	51.19	50.95	59.13
Min	50.44	51.16	51.05	51.08	53.24	53.14	52.58	51.58	50.84	50.81	50.57	50.45	50.44

Annual Max Momentary Gage Height 59.36 m. (MSL.) , at 18.00 Hours , on Sep 17, 2008

Zero Gage at Bottom Elevation 51.00 m. (MSL.) , River Bed 46.85 m. (MSL.)

Left Bank Elevation 63.49 m. (MSL.) ,

Right Bank Elevation 61.65 m. (MSL.) , Drainage Are 13,331 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.10	14.00	22.80	9.60	129.20	162.80	134.00	152.40	32.00	21.20	10.60	2.30		
2	1.00	12.80	30.00	10.40	130.80	145.20	150.80	258.00	35.20	21.60	10.40	5.00		
3	2.70	18.80	37.00	17.20	147.60	121.20	163.60	571.60	45.00	22.00	10.20	5.40		
4	6.60	31.60	35.20	51.40	148.40	181.20	164.40	540.00	36.00	18.40	9.20	2.80		
5	2.20	29.20	43.00	76.00	154.80	245.00	162.00	344.20	16.40	26.40	6.20	2.30		
6	1.60	16.80	56.20	77.20	130.80	187.60	202.00	287.00	30.40	14.40	4.80	2.00		
7	1.00	29.20	41.00	53.80	134.80	181.20	189.20	218.60	24.40	12.40	4.40	1.00		
8	0.60	33.60	31.20	39.00	203.60	195.60	139.60	160.40	12.00	16.80	4.20	0.60		
9	0.40	23.20	37.50	33.60	293.00	211.40	229.40	145.20	14.00	5.60	4.20	0.50		
10	0.40	11.20	44.00	31.60	367.30	341.00	229.40	124.40	11.40	5.60	4.00	0.50		
11	0.50	15.20	55.00	32.00	568.00	403.60	251.00	101.60	20.40	6.00	4.80	0.50		
12	2.10	22.40	41.50	32.00	536.70	368.40	240.20	89.70	24.00	6.40	4.80	1.40		
13	3.30	25.20	30.00	55.60	408.00	283.00	250.00	92.50	23.60	6.20	4.20	1.60		
14	3.00	25.20	33.20	40.00	303.00	321.00	240.20	67.60	18.40	4.20	4.40	1.90		
15	2.90	24.80	34.80	37.00	300.00	382.70	260.00	47.20	11.20	4.40	4.40	1.90		
16	4.00	26.40	56.80	57.40	483.90	540.00	239.30	72.40	5.80	4.20	4.40	1.80		
17	3.70	28.80	50.80	43.00	433.30	756.43	118.80	59.80	6.40	4.40	4.40	1.50		
18	3.90	27.60	25.20	22.40	296.00	712.70	92.50	67.00	6.00	5.20	4.20	1.30		
19	3.50	37.00	29.60	40.50	225.80	514.70	104.40	55.00	11.00	5.00	4.00	1.00		
20	2.50	33.60	33.20	64.60	168.40	408.00	87.60	40.50	10.40	5.20	10.40	1.00		
21	2.50	28.40	27.60	131.60	150.80	413.50	80.80	50.20	10.40	5.00	11.80	1.00		
22	2.60	25.20	21.20	206.00	214.10	416.80	96.00	55.00	9.00	5.80	3.00	1.10		
23	3.20	20.40	18.00	221.30	206.00	350.80	86.90	42.50	9.00	10.80	2.80	1.10		
24	3.90	16.00	19.60	323.00	221.30	287.00	85.50	45.50	10.00	9.40	2.60	1.50		
25	6.00	15.60	17.60	335.00	185.20	288.00	128.40	41.00	6.60	5.40	2.10	2.00		
26	6.00	11.40	13.20	252.00	146.80	248.00	291.00	40.50	5.40	5.20	1.70	4.00		
27	10.40	14.80	9.80	197.20	134.00	198.00	242.00	39.00	6.00	5.40	1.70	6.20		
28	10.60	26.80	9.20	174.00	142.80	167.60	243.00	46.00	4.80	5.40	2.10	3.30		
29	10.00	24.80	9.40	165.20	203.60	151.60	271.00	34.40	18.00	5.20		3.20		
30	10.20	20.80	9.00	167.60	242.00	132.40	182.80	27.20	25.20	5.60		3.90		
31		22.40		144.40	210.50		148.40		15.20	6.40		7.00		
Total	113.40	713.20	922.60	3141.60	7620.50	9316.43	5504.20	3916.40	513.60	285.20	146.00	70.60	32263.73	CMSDAY
Mean	3.78	23.01	30.75	101.34	245.82	310.55	177.55	130.55	16.57	9.20	5.21	2.28	88.39	CMS
Max	10.60	37.00	56.80	335.00	568.00	756.43	291.00	571.60	45.00	26.40	11.80	7.00	756.43	CMS
Min	0.40	11.20	9.00	9.60	129.20	121.20	80.80	27.20	4.80	4.20	1.70	0.50	0.40	CMS
Runoff	9.80	61.62	79.71	271.43	658.41	804.94	475.56	338.38	44.38	24.64	12.61	6.10	2787.59	MCM

Momentary Peak 768.40 CMS. at 59.36 m. (MSL.) at 18.00 Hours , on Sep 17, 2008

Runoff Yield 6.63 Liters/Second/Square KM. Momentary Peak Yield 57.64 Liters/Second/Square KM.

WATER YEAR : 2007

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
Drainge Area	12,769 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+59.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near automatic gage building		**Elevation** +68.928 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1952 to date		
Rating Operation			
Period of Rating	1952 to date		
Rated by Float	-		
Rated by Current Meter	1952 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

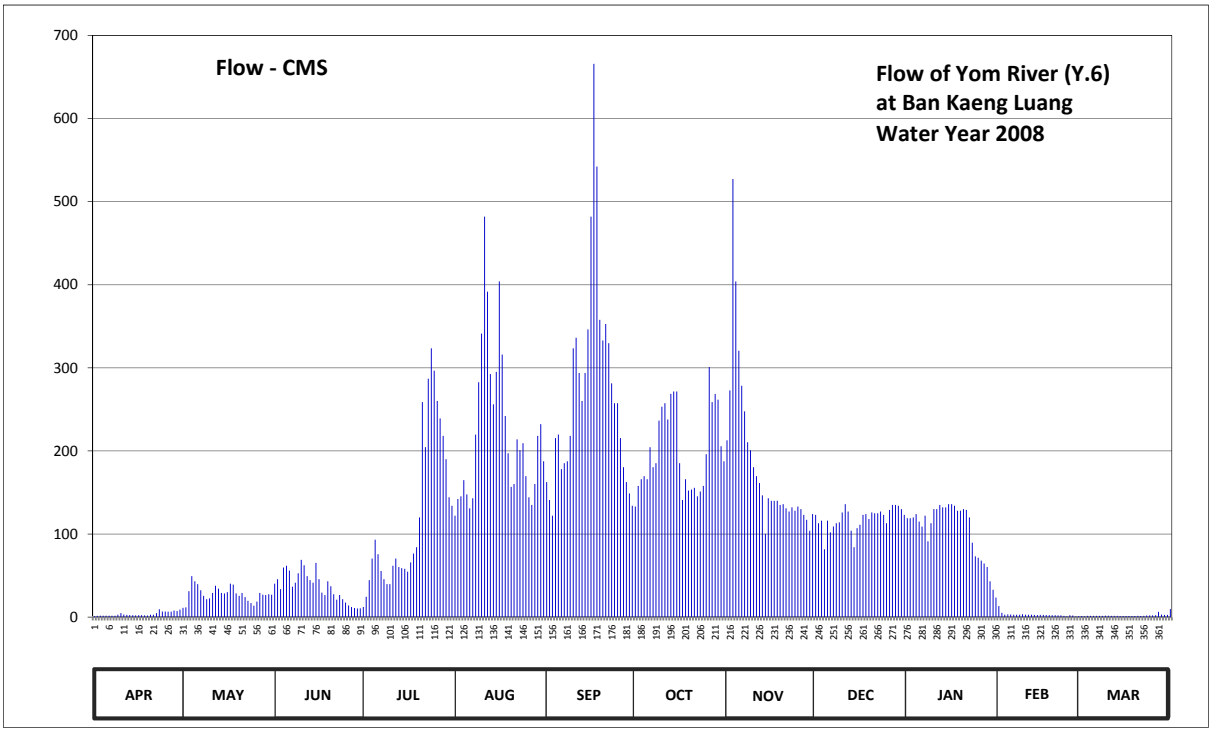
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	59.02	59.74	60.37	59.77	61.39	61.77	61.50	62.19	61.40	61.36	59.81	59.07	
2	59.09	59.76	60.46	60.09	61.59	61.58	61.73	62.62	61.30	61.36	59.51	58.99	
3	59.15	60.22	60.26	60.44	61.62	61.39	61.80	64.08	61.33	61.37	59.37	59.09	
4	59.16	60.52	60.68	60.83	61.79	62.21	61.83	63.45	60.96	61.41	59.41	59.11	
5	59.16	60.42	60.71	61.09	61.64	62.24	61.80	62.95	61.33	61.32	59.40	59.11	
6	59.15	60.36	60.63	60.89	61.48	61.90	62.12	62.66	61.19	61.26	59.38	59.10	
7	59.16	60.24	60.31	60.62	61.60	61.96	61.92	62.44	61.26	61.39	59.37	59.12	
8	59.16	60.11	60.39	60.46	62.24	61.98	61.96	62.17	61.30	61.07	59.37	59.09	
9	59.37	60.03	60.58	60.36	62.69	62.23	62.36	62.09	61.31	61.30	59.42	59.14	
10	59.49	60.05	60.81	60.36	63.08	62.97	62.48	61.92	61.43	61.47	59.38	59.15	
11	59.40	60.18	60.72	60.71	63.86	63.05	62.51	61.83	61.53	61.47	59.39	59.11	
12	59.35	60.33	60.52	60.83	63.38	62.77	62.37	61.76	61.44	61.52	59.37	59.11	
13	59.29	60.27	60.44	60.69	62.76	62.53	62.59	61.63	61.21	61.49	59.33	59.10	
14	59.26	60.18	60.39	60.67	62.50	62.77	62.61	61.17	60.99	61.49	59.30	59.07	
15	59.21	60.17	60.76	60.66	62.78	63.11	62.61	61.60	61.24	61.53	59.32	59.06	
16	59.24	60.20	60.46	60.61	63.45	63.86	61.96	61.57	61.28	61.53	59.33	59.07	
17	59.25	60.37	60.19	60.77	62.92	64.66	61.58	61.57	61.40	61.51	59.28	59.07	
18	59.21	60.35	60.13	60.90	62.40	64.15	61.80	61.57	61.41	61.45	59.26	59.07	
19	59.19	60.17	60.42	60.99	62.06	63.18	61.68	61.52	61.35	61.45	59.25	59.08	
20	59.38	60.11	60.32	61.37	61.72	63.03	61.69	61.53	61.43	61.47	59.24	59.09	
21	59.39	60.18	60.15	62.52	61.75	63.15	61.71	61.48	61.42	61.46	59.23	59.08	
22	59.49	60.08	60.02	62.12	62.20	63.01	61.62	61.44	61.42	61.37	59.22	59.11	
23	59.68	59.99	60.13	62.72	62.09	62.68	61.67	61.49	61.44	61.05	59.11	59.18	
24	59.59	59.91	60.03	62.97	62.16	62.51	61.73	61.45	61.40	60.86	59.00	59.23	
25	59.59	59.82	59.93	62.79	61.83	62.51	62.05	61.50	61.30	60.84	59.25	59.21	
26	59.58	59.96	59.83	62.53	61.61	62.21	62.82	61.47	61.46	60.80	59.20	59.25	
27	59.58	60.18	59.77	62.38	61.52	61.92	62.52	61.40	61.52	60.75	58.96	59.57	
28	59.63	60.14	59.73	62.23	61.75	61.77	62.59	61.34	61.52	60.69	59.02	59.40	
29	59.61	60.13	59.71	62.00	62.23	61.65	62.54	61.21	61.51	60.42		59.32	
30	59.67	60.15	59.72	61.61	62.33	61.51	62.13	61.41	61.47	60.25		59.32	
31		60.14		61.51	61.98		61.98		61.40	60.07		59.69	
Mean	59.35	60.14	60.29	61.24	62.21	62.54	62.07	61.88	61.35	61.19	59.30	59.17	
Max	59.68	60.52	60.81	62.97	63.86	64.66	62.82	64.08	61.53	61.53	59.81	59.69	64.66
Min	59.02	59.74	59.71	59.77	61.39	61.39	61.50	61.17	60.96	60.07	58.96	58.99	58.96

Annual Max Momentary Gage Height 64.80 m. (MSL.) , at 18.00 Hours , on Sep 17, 2008

Zero Gage at Bottom Elevation 59.00 m. (MSL.) , River Bed 57.37 m. (MSL.)

Left Bank Elevation 68.86 m. (MSL.) ,

Right Bank Elevation 68.95 m. (MSL.) , Drainage Are 12,769 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	11.20	40.20	12.10	122.00	162.55	133.00	212.80	123.00	119.00	13.35	1.35		
2	1.45	11.80	45.60	24.50	142.00	141.00	157.95	272.80	113.00	119.00	5.20	0.95		
3	1.75	31.20	33.60	44.40	145.30	122.00	166.00	527.20	116.00	120.00	2.85	1.45		
4	1.80	49.20	59.60	70.55	164.85	215.40	169.60	404.00	81.60	124.00	3.20	1.55		
5	1.80	43.20	61.70	93.10	147.60	219.60	166.00	320.50	116.00	115.00	3.00	1.55		
6	1.75	39.60	56.10	75.65	131.00	178.00	204.40	278.40	102.10	109.00	2.90	1.50		
7	1.80	32.40	36.60	55.40	143.00	185.20	180.40	247.60	109.00	122.00	2.85	1.60		
8	1.80	25.50	41.40	45.60	219.60	187.60	185.20	210.40	113.00	91.30	2.85	1.45		
9	2.85	21.50	52.80	39.60	282.60	218.20	236.40	200.80	114.00	113.00	3.40	1.70		
10	4.80	22.50	68.85	39.60	341.20	323.50	253.20	180.40	126.00	130.00	2.90	1.75		
11	3.00	29.00	62.40	61.70	482.00	336.25	257.40	169.60	136.00	130.00	2.95	1.55		
12	2.75	37.80	49.20	70.55	391.60	293.80	237.80	161.40	127.00	135.00	2.85	1.55		
13	2.45	34.20	44.40	60.30	292.40	260.20	268.60	146.45	104.00	132.00	2.65	1.50		
14	2.30	29.00	41.40	58.90	256.00	293.80	271.40	100.30	84.15	132.00	2.50	1.35		
15	2.05	28.50	65.20	58.20	295.20	346.15	271.40	143.00	107.00	136.00	2.60	1.30		
16	2.20	30.00	45.60	54.70	404.00	482.00	185.20	140.00	111.00	136.00	2.65	1.35		
17	2.25	40.20	29.50	65.90	316.00	665.90	141.00	140.00	123.00	134.00	2.40	1.35		
18	2.05	39.00	26.50	76.50	242.00	542.25	166.00	140.00	124.00	128.00	2.30	1.35		
19	1.95	28.50	43.20	84.15	197.20	357.70	152.20	135.00	118.00	128.00	2.25	1.40		
20	2.90	25.50	37.20	120.00	156.80	332.95	153.35	136.00	126.00	130.00	2.20	1.45		
21	2.95	29.00	27.50	258.80	160.25	352.75	155.65	131.00	125.00	129.00	2.15	1.40		
22	4.80	24.00	21.00	204.40	214.00	329.65	145.30	127.00	125.00	120.00	2.10	1.55		
23	9.40	19.65	26.50	286.80	200.80	281.20	151.05	132.00	127.00	89.50	1.55	1.90		
24	6.80	16.85	21.50	323.50	209.20	257.40	157.95	128.00	123.00	73.10	1.00	2.15		
25	6.80	13.70	17.55	296.60	169.60	257.40	196.00	133.00	113.00	71.40	2.25	2.05		
26	6.60	18.60	14.05	260.20	144.15	215.40	301.00	130.00	129.00	68.00	2.00	2.25		
27	6.60	29.00	12.10	239.20	135.00	180.40	258.80	123.00	135.00	64.50	0.80	6.40		
28	7.90	27.00	10.90	218.20	160.25	162.55	268.60	117.00	135.00	60.30	1.10	3.00		
29	7.30	26.50	10.30	190.00	218.20	148.75	261.60	104.00	134.00	43.20		2.60		
30	9.10	27.50	10.60	144.15	232.20	134.00	205.60	124.00	130.00	33.00		2.60		
31		27.00		134.00	187.60		187.60		123.00	23.50		9.70		
Total	113.05	868.60	1113.05	3767.25	6903.60	8183.55	6245.65	5515.65	3672.85	3258.80	80.80	64.60	39787.45	CMSDAY
Mean	3.77	28.02	37.10	121.52	222.70	272.78	201.47	183.86	118.48	105.12	2.89	2.08	109.01	CMS
Max	9.40	49.20	68.85	323.50	482.00	665.90	301.00	527.20	136.00	136.00	13.35	9.70	665.90	CMS
Min	1.10	11.20	10.30	12.10	122.00	122.00	133.00	100.30	81.60	23.50	0.80	0.95	0.80	CMS
Runoff	9.77	75.05	96.17	325.49	596.47	707.06	539.62	476.55	317.33	281.56	6.98	5.58	3437.64	MCM

Momentary Peak 703.00 CMS. at 64.80 m. (MSL.) at 18.00 Hours , on Sep 17, 2008

Runoff Yield 8.54 Liters/Second/Square KM. Momentary Peak Yield 55.05 Liters/Second/Square KM.

WATER YEAR : 2008

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

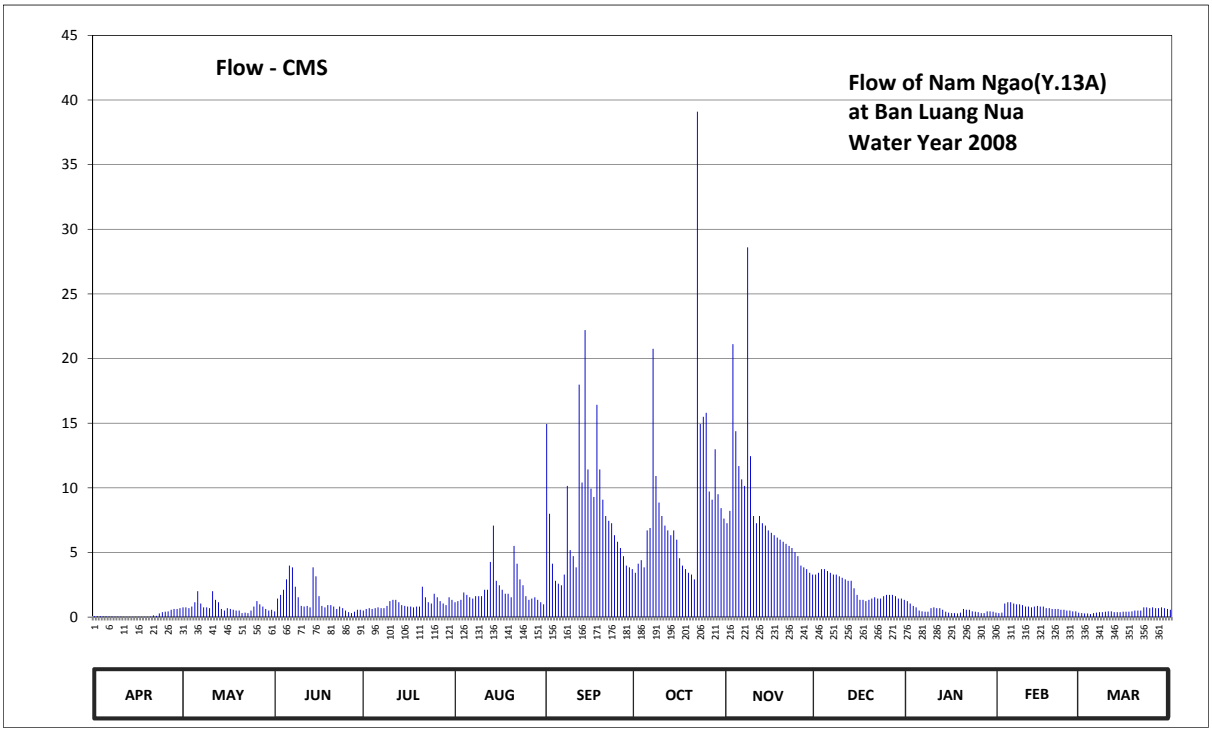
Ban Luang Nua **Amphoe** Ngao **Changwat** Lampang

Drainge Area	381 sq.km.
Type of Gage	Staff gage.
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1988 - 1995, 2001 to date
Rating Operation	
Period of Rating	1988 - 1995, 2001 to date
Rated by Float	-
Rated by Current Meter	1988 - 1995, 2001 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 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	268.37	268.55	268.50	268.51	268.61	269.38	268.82	269.06	268.81	268.62	268.46	268.46	
2	268.37	268.55	268.64	268.53	268.62	269.10	268.87	269.11	268.82	268.60	268.47	268.45	
3	268.37	268.54	268.67	268.54	268.63	268.87	268.89	269.57	268.84	268.57	268.60	268.45	
4	268.36	268.56	268.71	268.53	268.69	268.77	268.85	269.36	268.84	268.55	268.61	268.44	
5	268.36	268.61	268.78	268.54	268.67	268.75	269.03	269.26	268.83	268.51	268.61	268.46	
6	268.35	268.70	268.86	268.55	268.65	268.74	269.04	269.22	268.82	268.50	268.60	268.47	
7	268.35	268.60	268.85	268.54	268.64	268.81	269.56	269.20	268.81	268.49	268.59	268.48	
8	268.34	268.55	268.73	268.54	268.66	269.20	269.23	269.77	268.81	268.49	268.59	268.48	
9	268.34	268.55	268.65	268.57	268.66	268.94	269.14	269.29	268.80	268.54	268.58	268.49	
10	268.34	268.54	268.57	268.62	268.66	268.91	269.09	269.09	268.79	268.55	268.56	268.50	
11	268.33	268.70	268.56	268.63	268.71	268.85	269.05	269.06	268.78	268.54	268.56	268.50	
12	268.33	268.63	268.57	268.63	268.71	269.48	269.03	269.09	268.77	268.54	268.55	268.48	
13	268.33	268.61	268.55	268.61	268.88	269.21	269.01	269.06	268.77	268.52	268.56	268.48	
14	268.32	268.53	268.85	268.58	269.05	269.60	269.03	269.05	268.72	268.49	268.57	268.48	
15	268.32	268.51	268.80	268.57	268.77	269.25	268.99	269.03	268.67	268.47	268.56	268.49	
16	268.32	268.54	268.66	268.56	268.74	269.19	268.90	269.02	268.63	268.46	268.56	268.49	
17	268.33	268.53	268.57	268.56	268.71	269.16	268.86	269.01	268.63	268.46	268.54	268.49	
18	268.33	268.52	268.55	268.55	268.68	269.43	268.84	269.00	268.62	268.45	268.54	268.50	
19	268.33	268.51	268.58	268.56	268.68	269.25	268.82	268.99	268.63	268.47	268.53	268.51	
20	268.34	268.51	268.58	268.56	268.65	269.15	268.81	268.98	268.64	268.53	268.53	268.51	
21	268.41	268.46	268.56	268.73	268.96	269.09	268.78	268.97	268.65	268.52	268.53	268.51	
22	268.40	268.47	268.53	268.65	268.87	269.07	270.01	268.96	268.64	268.52	268.52	268.55	
23	268.45	268.46	268.56	268.61	268.78	269.06	269.38	268.95	268.64	268.50	268.52	268.55	
24	268.48	268.51	268.54	268.60	268.74	269.01	269.40	268.93	268.66	268.49	268.51	268.54	
25	268.49	268.56	268.51	268.68	268.66	268.98	269.41	268.91	268.67	268.48	268.51	268.55	
26	268.50	268.62	268.48	268.65	268.63	268.95	269.18	268.86	268.67	268.46	268.50	268.54	
27	268.52	268.59	268.46	268.62	268.64	268.91	269.15	268.85	268.67	268.46	268.50	268.54	
28	268.53	268.56	268.49	268.60	268.65	268.86	269.31	268.84	268.66	268.50	268.47	268.55	
29	268.53	268.53	268.52	268.58	268.63	268.85	269.17	268.82	268.64	268.50		268.54	
30	268.54	268.51	268.52	268.65	268.61	268.84	269.12	268.81	268.64	268.49		268.53	
31		268.52		268.63	268.59		269.08		268.63	268.47		268.52	
Mean	268.39	268.55	268.61	268.59	268.70	269.06	269.09	269.07	268.72	268.51	268.54	268.50	
Max	268.54	268.70	268.86	268.73	269.05	269.60	270.01	269.77	268.84	268.62	268.61	268.55	270.01
Min	268.32	268.46	268.46	268.51	268.59	268.74	268.78	268.81	268.62	268.45	268.46	268.44	268.32

Annual Max Momentary Gage Height	270.06	m. (MSL.) ,	at 06.00 Hours , on Oct 22, 2008		
Zero Gage at Bottom Elevation	268.30	m. (MSL.) ,	River Bed	267.24	m. (MSL.)
Left Bank Elevation	274.80	m. (MSL.) ,			
Right Bank Elevation	274.81	m. (MSL.) ,	Drainage Are	381	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.07	0.75	0.45	0.51	1.15	14.94	3.43	7.26	3.29	1.24	0.31	0.31		
2	0.07	0.75	1.43	0.63	1.24	8.00	4.13	8.22	3.43	1.05	0.35	0.28		
3	0.07	0.69	1.72	0.69	1.34	4.13	4.41	21.12	3.71	0.87	1.05	0.28		
4	0.06	0.81	2.12	0.63	1.91	2.81	3.85	14.38	3.71	0.75	1.15	0.24		
5	0.06	1.15	2.92	0.69	1.72	2.58	6.71	11.68	3.57	0.51	1.15	0.31		
6	0.05	2.00	3.99	0.75	1.53	2.46	6.89	10.66	3.43	0.45	1.05	0.35		
7	0.05	1.05	3.85	0.69	1.43	3.29	20.76	10.15	3.29	0.42	0.99	0.38		
8	0.04	0.75	2.35	0.69	1.62	10.15	10.92	28.60	3.29	0.42	0.99	0.38		
9	0.04	0.75	1.53	0.87	1.62	5.19	8.86	12.45	3.15	0.69	0.93	0.42		
10	0.04	0.69	0.87	1.24	1.62	4.71	7.82	7.82	3.04	0.75	0.81	0.45		
11	0.03	2.00	0.81	1.34	2.12	3.85	7.08	7.26	2.92	0.69	0.81	0.45		
12	0.03	1.34	0.87	1.34	2.12	17.98	6.71	7.82	2.81	0.69	0.75	0.38		
13	0.03	1.15	0.75	1.15	4.27	10.41	6.34	7.26	2.81	0.57	0.81	0.38		
14	0.02	0.63	3.85	0.93	7.08	22.20	6.71	7.08	2.23	0.42	0.87	0.38		
15	0.02	0.51	3.15	0.87	2.81	11.43	5.99	6.71	1.72	0.35	0.81	0.42		
16	0.02	0.69	1.62	0.81	2.46	9.94	4.55	6.52	1.34	0.31	0.81	0.42		
17	0.03	0.63	0.87	0.81	2.12	9.29	3.99	6.34	1.34	0.31	0.69	0.42		
18	0.03	0.57	0.75	0.75	1.81	16.43	3.71	6.15	1.24	0.28	0.69	0.45		
19	0.03	0.51	0.93	0.81	1.81	11.43	3.43	5.99	1.34	0.35	0.63	0.51		
20	0.04	0.51	0.93	0.81	1.53	9.08	3.29	5.83	1.43	0.63	0.63	0.51		
21	0.14	0.31	0.81	2.35	5.51	7.82	2.92	5.67	1.53	0.57	0.63	0.51		
22	0.10	0.35	0.63	1.53	4.13	7.45	39.10	5.51	1.43	0.57	0.57	0.75		
23	0.28	0.31	0.81	1.15	2.92	7.26	14.94	5.35	1.43	0.45	0.57	0.75		
24	0.38	0.51	0.69	1.05	2.46	6.34	15.50	5.03	1.62	0.42	0.51	0.69		
25	0.42	0.81	0.51	1.81	1.62	5.83	15.81	4.71	1.72	0.38	0.51	0.75		
26	0.45	1.24	0.38	1.53	1.34	5.35	9.72	3.99	1.72	0.31	0.45	0.69		
27	0.57	0.99	0.31	1.24	1.43	4.71	9.08	3.85	1.72	0.31	0.45	0.69		
28	0.63	0.81	0.42	1.05	1.53	3.99	12.98	3.71	1.62	0.45	0.35	0.75		
29	0.63	0.63	0.57	0.93	1.34	3.85	9.51	3.43	1.43	0.45		0.69		
30	0.69	0.51	0.57	1.53	1.15	3.71	8.43	3.29	1.43	0.42		0.63		
31		0.57		1.34	0.99		7.63		1.34	0.35		0.57		
Total	5.12	24.97	41.46	32.52	67.73	236.61	275.20	243.84	70.08	16.43	20.32	15.19	1049.47	CMSDAY
Mean	0.17	0.81	1.38	1.05	2.18	7.89	8.88	8.13	2.26	0.53	0.73	0.49	2.88	CMS
Max	0.69	2.00	3.99	2.35	7.08	22.20	39.10	28.60	3.71	1.24	1.15	0.75	39.10	CMS
Min	0.02	0.31	0.31	0.51	0.99	2.46	2.92	3.29	1.24	0.28	0.31	0.24	0.02	CMS
Runoff	0.44	2.16	3.58	2.81	5.85	20.44	23.78	21.07	6.05	1.42	1.76	1.31	90.67	MCM

Momentary Peak 41.60 CMS. at 270.06 m. (MSL.) at 06.00 Hours , on Oct 22, 2008

Runoff Yield 7.55 Liters/Second/Square KM. Momentary Peak Yield 109.19 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	12,100 sq.km.		
Type of Gage	Water - stage recorder.		
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	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1964 to date		
Rating Operation			
Period of Rating	1964 to date		
Rated by Float	-		
Rated by Current Meter	1964 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +66.890 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

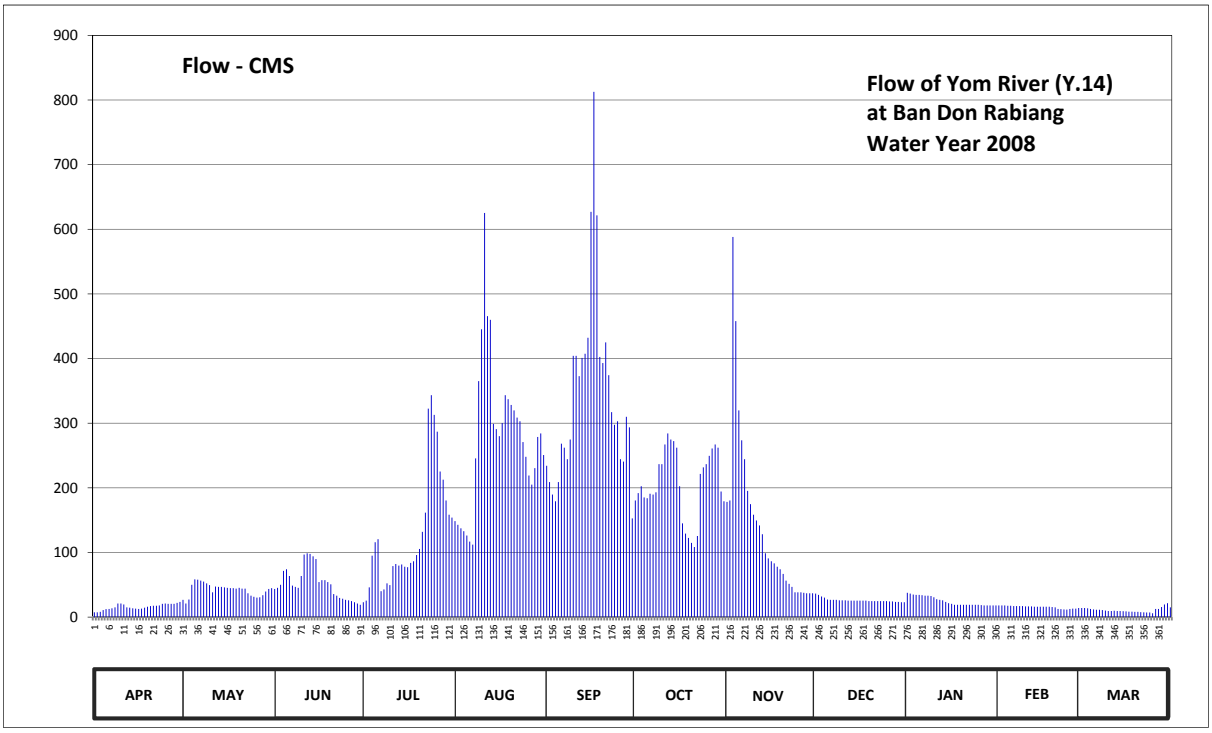
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.64	66.06	66.33	66.00	67.54	68.27	67.83	67.81	66.22	66.24	65.90	65.82	
2	65.64	65.96	66.36	66.04	67.49	68.07	67.93	67.83	66.19	66.22	65.90	65.82	
3	65.66	66.07	66.43	66.37	67.44	67.91	68.02	70.52	66.15	66.20	65.90	65.81	
4	65.74	66.43	66.72	67.00	67.40	67.82	67.87	69.82	66.12	66.19	65.89	65.79	
5	65.78	66.55	66.75	67.22	67.33	68.07	67.86	68.92	66.07	66.19	65.89	65.77	
6	65.79	66.54	66.62	67.27	67.23	68.54	67.92	68.58	66.06	66.18	65.88	65.75	
7	65.81	66.52	66.41	66.28	67.18	68.49	67.91	68.35	66.06	66.17	65.88	65.75	
8	65.84	66.50	66.38	66.32	68.36	68.35	67.94	67.96	66.06	66.17	65.88	65.74	
9	65.96	66.46	66.36	66.46	69.22	68.59	68.29	67.78	66.05	66.16	65.88	65.72	
10	65.96	66.42	66.62	66.42	69.74	69.47	68.29	67.63	66.05	66.13	65.87	65.70	
11	65.93	66.25	67.02	66.81	70.72	69.47	68.53	67.55	66.05	66.08	65.87	65.70	
12	65.84	66.39	67.04	66.85	69.86	69.27	68.66	67.48	66.04	66.06	65.87	65.71	
13	65.83	66.38	67.03	66.82	69.83	69.45	68.59	67.35	66.04	66.05	65.86	65.70	
14	65.81	66.38	66.99	66.84	68.77	69.49	68.57	67.04	66.04	66.01	65.86	65.70	
15	65.80	66.37	66.94	66.80	68.71	69.65	68.49	66.95	66.04	65.97	65.86	65.69	
16	65.79	66.36	66.49	66.79	68.63	70.73	68.02	66.90	66.04	65.95	65.86	65.68	
17	65.80	66.35	66.53	66.87	68.78	71.67	67.51	66.86	66.04	65.92	65.86	65.67	
18	65.83	66.35	66.53	66.90	69.08	70.70	67.36	66.80	66.04	65.92	65.86	65.67	
19	65.86	66.34	66.49	67.01	69.04	69.46	67.29	66.75	66.03	65.92	65.85	65.66	
20	65.88	66.36	66.44	67.11	68.98	69.40	67.21	66.66	66.03	65.92	65.84	65.66	
21	65.89	66.34	66.21	67.39	68.92	69.60	67.14	66.52	66.03	65.92	65.79	65.65	
22	65.89	66.34	66.17	67.66	68.84	69.28	67.32	66.45	66.03	65.92	65.78	65.64	
23	65.90	66.23	66.11	68.94	68.80	68.90	68.17	66.38	66.03	65.92	65.77	65.63	
24	65.95	66.17	66.09	69.08	68.56	68.76	68.25	66.25	66.03	65.92	65.76	65.63	
25	65.96	66.14	66.06	68.87	68.38	68.80	68.29	66.25	66.03	65.92	65.79	65.60	
26	65.95	66.12	66.05	68.68	68.15	68.35	68.39	66.25	66.02	65.91	65.80	65.79	
27	65.95	66.13	66.03	68.20	68.04	68.32	68.48	66.24	66.02	65.90	65.80	65.79	
28	65.95	66.18	66.00	68.10	68.24	68.85	68.53	66.23	66.01	65.90	65.82	65.85	
29	65.98	66.27	65.96	67.83	68.62	68.73	68.49	66.23	66.01	65.90		65.93	
30	66.01	66.33	65.92	67.63	68.66	67.58	67.95	66.23	66.00	65.90		65.97	
31		66.35		67.59	68.40		67.82		66.00	65.90		65.84	
Mean	65.85	66.31	66.44	67.23	68.55	69.00	68.03	67.29	66.05	66.02	65.85	65.74	
Max	66.01	66.55	67.04	69.08	70.72	71.67	68.66	70.52	66.22	66.24	65.90	65.97	71.67
Min	65.64	65.96	65.92	66.00	67.18	67.58	67.14	66.23	66.00	65.90	65.76	65.60	65.60

Annual Max Momentary Gage Height 71.70 m. (MSL.) , at 18.00 Hours , on Sep 17, 2008

Zero Gage at Bottom Elevation 65.10 m. (MSL.) , River Bed 62.58 m. (MSL.)

Left Bank Elevation 78.24 m. (MSL.) ,

Right Bank Elevation 66.88 m. (MSL.) , Drainage Are 12,100 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.40	26.60	43.45	23.00	148.40	234.20	180.45	178.15	36.30	37.60	18.00	14.00		
2	7.40	21.00	45.40	25.40	142.90	208.87	191.95	180.45	34.40	36.30	18.00	14.00		
3	8.10	27.20	50.10	46.05	137.40	189.65	202.53	588.20	32.00	35.00	18.00	13.50		
4	10.90	50.10	71.60	95.00	133.00	179.30	185.05	457.90	30.20	34.40	17.50	12.65		
5	12.30	58.50	74.00	115.90	126.35	208.87	183.90	319.80	27.20	34.40	17.50	11.95		
6	12.65	57.80	63.60	120.65	116.85	268.40	190.80	273.47	26.60	33.80	17.00	11.25		
7	13.50	56.40	48.70	40.20	112.10	262.07	189.65	244.33	26.60	33.20	17.00	11.25		
8	15.00	55.00	46.70	42.80	245.60	244.33	193.10	195.40	26.60	33.20	17.00	10.90		
9	21.00	52.20	45.40	52.20	365.10	274.73	236.73	174.80	26.00	32.60	17.00	10.20		
10	21.00	49.40	63.60	49.40	445.30	404.20	236.73	158.30	26.00	30.80	16.50	9.50		
11	19.50	38.25	96.90	78.85	625.20	404.20	267.13	149.50	26.00	27.80	16.50	9.50		
12	15.00	47.35	98.80	82.25	465.70	372.85	284.10	141.80	25.40	26.60	16.50	9.85		
13	14.50	46.70	97.85	79.70	459.85	401.00	274.73	128.25	25.40	26.00	16.00	9.50		
14	13.50	46.70	94.15	81.40	298.95	407.40	272.20	98.80	25.40	23.60	16.00	9.50		
15	13.00	46.05	89.90	78.00	290.85	432.25	262.07	90.75	25.40	21.50	16.00	9.15		
16	12.65	45.40	54.30	77.20	280.05	627.05	202.53	86.50	25.40	20.50	16.00	8.80		
17	13.00	44.75	57.10	83.95	300.30	812.70	145.10	83.10	25.40	19.00	16.00	8.45		
18	14.50	44.75	57.10	86.50	343.40	621.50	129.20	78.00	25.40	19.00	16.00	8.45		
19	16.00	44.10	54.30	95.95	337.20	402.60	122.55	74.00	24.80	19.00	15.50	8.10		
20	17.00	45.40	50.80	105.45	328.20	393.00	114.95	66.80	24.80	19.00	15.00	8.10		
21	17.50	44.10	35.65	132.05	319.80	425.00	108.30	56.40	24.80	19.00	12.65	7.75		
22	17.50	44.10	33.20	161.60	308.60	374.40	125.40	51.50	24.80	19.00	12.30	7.40		
23	18.00	36.95	29.60	322.60	303.00	317.00	221.53	46.70	24.80	19.00	11.95	7.05		
24	20.50	33.20	28.40	343.40	270.93	297.60	231.67	38.25	24.80	19.00	11.60	7.05		
25	21.00	31.40	26.60	312.80	248.13	303.00	236.73	38.25	24.80	19.00	12.65	6.00		
26	20.50	30.20	26.00	286.80	219.00	244.33	249.40	38.25	24.20	18.50	13.00	12.65		
27	20.50	30.80	24.80	225.33	205.07	240.53	260.80	37.60	24.20	18.00	13.00	12.65		
28	20.50	33.80	23.00	212.67	230.40	310.00	267.13	36.95	23.60	18.00	14.00	15.50		
29	22.00	39.55	21.00	180.45	278.70	293.55	262.07	36.95	23.60	18.00		19.50		
30	23.60	43.45	19.00	158.30	284.10	152.80	194.25	36.95	23.00	18.00		21.50		
31		44.75		153.90	250.67		179.30		23.00	18.00		15.00		
Total	479.50	1315.95	1571.00	3949.75	8621.10	10307.38	6402.03	4186.10	810.90	766.80	434.15	340.65	39185.31	CMSDAY
Mean	15.98	42.45	52.37	127.41	278.10	343.58	206.52	139.54	26.16	24.74	15.51	10.99	107.36	CMS
Max	23.60	58.50	98.80	343.40	625.20	812.70	284.10	588.20	36.30	37.60	18.00	21.50	812.70	CMS
Min	7.40	21.00	19.00	23.00	112.10	152.80	108.30	36.95	23.00	18.00	11.60	6.00	6.00	CMS
Runoff	41.43	113.70	135.73	341.26	744.86	890.56	553.14	361.68	70.06	66.25	37.51	29.43	3385.61	MCM

Momentary Peak 819.00 CMS. at 71.70 m. (MSL.) at 18.00 Hours , on Sep 17, 2008

Runoff Yield 8.87 Liters/Second/Square KM. Momentary Peak Yield 67.69 Liters/Second/Square KM.

WATER YEAR : 2008

YOM RIVER BASIN

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

Lat 16 - 45 - 26 N Long 100 - 07 - 15 E

Location : on right bank about 58 meters upstream from the old staff gage.

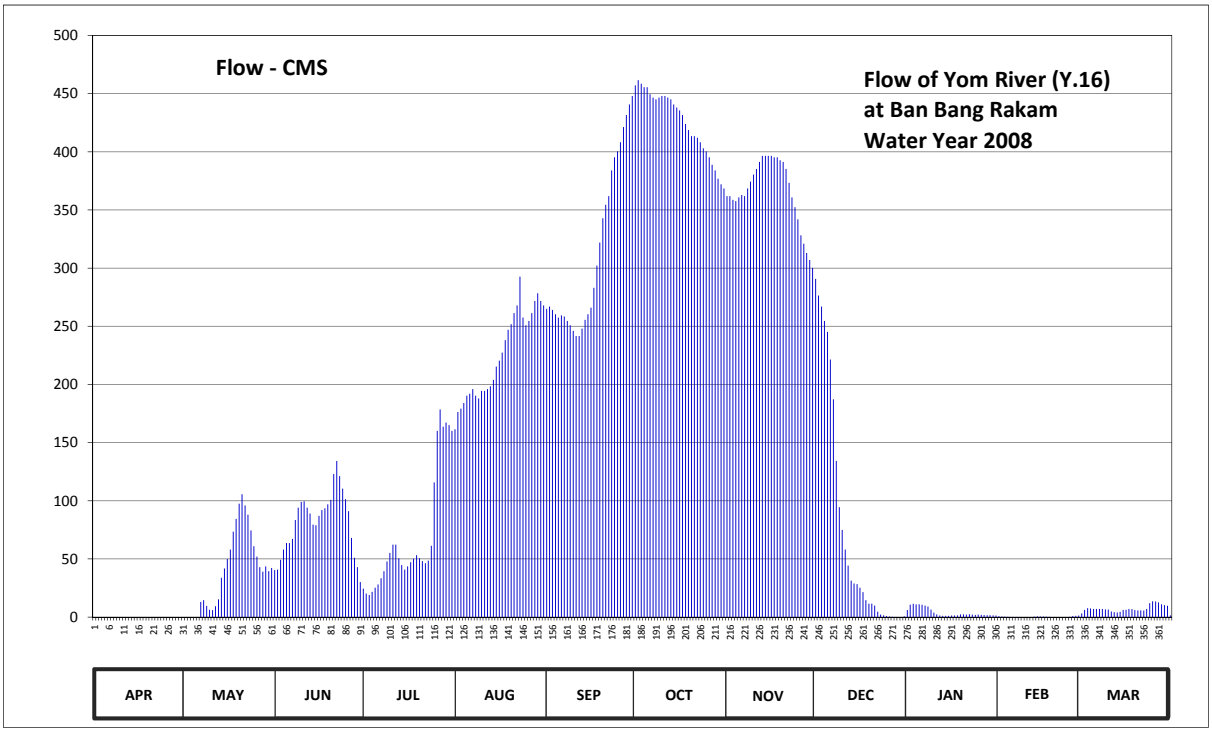
Ban Bang Rakam **Amphoe** Bang Rakam **Changwat** Phitsanulok

Drainge Area	20,201 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+31.630 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 13 meters from the top staff gage. **Elevation** +42.630 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 mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 , 1995 to date
Rated by Float	-
Rated by Current Meter	1967 , 1995 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +39.480 m.(MSL.) and is including overbank flow.
General Description	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.18	31.90	34.27	33.78	36.55	37.79	39.50	38.76	38.06	32.87	32.37	32.68	
2	32.21	31.90	34.28	33.61	36.75	37.81	39.53	38.76	37.91	33.18	32.30	32.88	
3	32.21	31.91	34.52	33.56	36.79	37.78	39.51	38.73	37.81	33.22	32.27	32.98	
4	32.09	31.90	34.75	33.67	36.85	37.74	39.49	38.72	37.68	33.20	32.24	32.96	
5	32.01	31.89	34.88	33.81	36.93	37.71	39.49	38.75	37.58	33.20	32.23	32.93	
6	31.98	32.16	34.88	33.90	36.95	37.73	39.45	38.77	37.31	33.17	32.23	32.93	
7	31.96	33.30	34.96	34.07	37.00	37.72	39.43	38.76	36.89	33.13	32.23	32.93	
8	31.95	33.38	35.29	34.24	36.93	37.68	39.42	38.82	36.16	33.07	32.23	32.93	
9	31.95	33.11	35.50	34.48	36.90	37.64	39.43	38.87	35.51	32.90	32.21	32.91	
10	31.93	32.89	35.60	34.68	36.98	37.59	39.44	38.92	35.12	32.72	32.21	32.90	
11	31.92	32.87	35.61	34.85	36.98	37.54	39.44	38.96	34.75	32.62	32.19	32.79	
12	31.92	33.09	35.50	34.85	37.00	37.54	39.43	39.01	34.38	32.46	32.20	32.75	
13	31.93	33.41	35.40	34.56	37.03	37.61	39.42	39.05	34.01	32.43	32.29	32.73	
14	31.93	34.08	35.21	34.39	37.10	37.69	39.39	39.05	33.93	32.43	32.33	32.77	
15	31.86	34.31	35.20	34.28	37.24	37.74	39.37	39.05	33.91	32.43	32.31	32.88	
16	31.91	34.54	35.36	34.36	37.30	37.80	39.35	39.05	33.81	32.48	32.30	32.89	
17	31.91	34.75	35.46	34.46	37.38	37.98	39.32	39.04	33.66	32.48	32.29	32.93	
18	31.90	35.09	35.49	34.55	37.50	38.18	39.26	39.04	33.38	32.50	32.26	32.92	
19	31.90	35.31	35.56	34.63	37.60	38.38	39.22	39.02	33.23	32.62	32.20	32.87	
20	31.90	35.57	35.63	34.56	37.65	38.58	39.18	39.01	33.23	32.62	32.18	32.85	
21	31.89	35.71	36.00	34.49	37.75	38.69	39.18	38.96	33.13	32.61	32.17	32.85	
22	31.89	35.54	36.16	34.44	37.82	38.76	39.17	38.86	32.78	32.63	32.18	32.84	
23	31.88	35.38	35.97	34.50	38.08	38.95	39.14	38.75	32.61	32.61	32.17	32.93	
24	31.88	35.11	35.79	34.83	37.71	39.04	39.10	38.67	32.51	32.59	32.17	33.25	
25	31.88	34.82	35.64	35.88	37.64	39.08	39.08	38.57	32.40	32.61	32.26	33.33	
26	31.87	34.60	35.44	36.53	37.68	39.14	39.04	38.44	32.31	32.57	32.40	33.32	
27	31.86	34.34	34.98	36.78	37.75	39.24	38.99	38.37	32.26	32.56	32.43	33.28	
28	31.85	34.23	34.57	36.58	37.86	39.32	38.95	38.29	32.23	32.53	32.48	33.20	
29	31.85	34.36	34.34	36.63	37.93	39.39	38.89	38.23	32.21	32.53		33.15	
30	31.87	34.24	33.97	36.60	37.86	39.44	38.85	38.16	32.17	32.51		33.12	
31		34.32		36.53	37.82		38.82		32.34	32.46		32.49	
Mean	31.94	33.87	35.21	34.81	37.33	38.24	39.27	38.78	34.36	32.71	32.26	32.94	
Max	32.21	35.71	36.16	36.78	38.08	39.44	39.53	39.05	38.06	33.22	32.48	33.33	39.53
Min	31.85	31.89	33.97	33.56	36.55	37.54	38.82	38.16	32.17	32.43	32.17	32.49	31.85

Annual Max Momentary Gage Height	39.53	m. (MSL.) ,	at 06.00 Hours , on Oct 2, 2008		
Zero Gage at Bottom Elevation	31.63	m. (MSL.) ,	River Bed	31.40	m. (MSL.)
Left Bank Elevation	42.31	m. (MSL.) ,			
Right Bank Elevation	39.47	m. (MSL.) ,	Drainage Are	20,201	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	40.45	24.50	161.50	265.05	457.00	361.80	290.70	6.05	0.85	3.20		
2	0.05	0.00	40.80	20.25	176.25	266.95	461.50	361.80	276.45	10.70	0.50	6.20		
3	0.05	0.00	49.20	19.00	179.25	264.10	458.50	358.65	266.95	11.40	0.35	7.70		
4	0.00	0.00	58.00	21.75	184.00	260.30	455.50	357.60	254.60	11.00	0.20	7.40		
5	0.00	0.00	63.60	25.30	190.40	257.45	455.50	360.75	245.20	11.00	0.15	6.95		
6	0.00	0.00	63.60	28.00	192.00	259.35	449.50	362.85	221.35	10.55	0.15	6.95		
7	0.00	13.00	67.20	33.45	196.00	258.40	446.50	361.80	187.20	9.95	0.15	6.95		
8	0.00	14.60	83.50	39.40	190.40	254.60	445.00	368.40	134.20	9.05	0.15	6.95		
9	0.00	9.65	94.00	47.80	188.00	250.80	446.50	374.40	94.50	6.50	0.05	6.65		
10	0.00	6.35	99.00	55.20	194.40	246.10	448.00	380.40	75.00	3.80	0.05	6.50		
11	0.00	6.05	99.60	62.25	194.40	241.60	448.00	385.20	58.00	2.30	0.00	4.85		
12	0.00	9.35	94.00	62.25	196.00	241.60	446.50	391.30	44.30	1.30	0.00	4.25		
13	0.00	15.25	89.00	50.60	198.40	247.95	445.00	396.50	31.35	1.15	0.45	3.95		
14	0.00	33.80	79.50	44.65	204.00	255.55	440.70	396.50	28.90	1.15	0.65	4.55		
15	0.00	41.85	79.00	40.80	215.40	260.30	438.10	396.50	28.30	1.15	0.55	6.20		
16	0.00	49.90	87.00	43.60	220.50	266.00	435.50	396.50	25.30	1.40	0.50	6.35		
17	0.00	58.00	92.00	47.10	227.30	283.10	431.60	395.20	21.50	1.40	0.45	6.95		
18	0.00	73.50	93.50	50.25	238.00	302.10	423.80	395.20	14.60	1.50	0.30	6.80		
19	0.00	84.50	97.00	53.20	247.00	322.00	418.60	392.60	11.60	2.30	0.00	6.05		
20	0.00	97.50	100.80	50.60	251.75	342.90	413.40	391.30	11.60	2.30	0.00	5.75		
21	0.00	105.60	123.00	48.15	261.25	354.45	413.40	385.20	9.95	2.15	0.00	5.75		
22	0.00	96.00	134.20	46.40	267.90	361.80	412.10	373.20	4.70	2.45	0.00	5.60		
23	0.00	88.00	121.20	48.50	292.60	384.00	408.20	360.75	2.15	2.15	0.00	6.95		
24	0.00	74.50	110.40	61.35	257.45	395.20	403.00	352.35	1.55	1.95	0.00	12.00		
25	0.00	60.90	101.40	115.80	250.80	400.40	400.40	341.85	1.00	2.15	0.30	13.60		
26	0.00	52.00	91.00	160.10	254.60	408.20	395.20	328.20	0.55	1.85	1.00	13.40		
27	0.00	42.90	68.10	178.50	261.25	421.20	388.80	321.00	0.30	1.80	1.15	12.60		
28	0.00	39.05	50.95	163.60	271.70	431.60	384.00	313.00	0.15	1.65	1.40	11.00		
29	0.00	43.60	42.90	167.25	278.35	440.70	376.80	307.00	0.05	1.65		10.25		
30	0.00	39.40	30.10	165.00	271.70	448.00	372.00	300.20	0.00	1.55		9.80		
31		42.20		160.10	267.90		368.40		0.70	1.30		1.45		
Total	0.10	1197.45	2444.00	2134.70	6980.45	9391.75	13187.00	10968.00	2342.70	126.60	9.35	223.55	49005.65	CMSDAY
Mean	0.00	38.63	81.47	68.86	225.18	313.06	425.39	365.60	75.57	4.08	0.33	7.21	134.26	CMS
Max	0.05	105.60	134.20	178.50	292.60	448.00	461.50	396.50	290.70	11.40	1.40	13.60	461.50	CMS
Min	0.00	0.00	30.10	19.00	161.50	241.60	368.40	300.20	0.00	1.15	0.00	1.45	0.00	CMS
Runoff	0.01	103.46	211.16	184.44	603.11	811.45	1139.36	947.64	202.41	10.94	0.81	19.31	4234.09	MCM

Momentary Peak 461.50 CMS. at 39.53 m. (MSL.) at 06.00 Hours , on Oct 2, 2008

Runoff Yield 6.65 Liters/Second/Square KM. Momentary Peak Yield 22.84 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +41.843 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 mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 , 1990 to date
Rated by Float	-
Rated by Current Meter	1967 , 1990 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

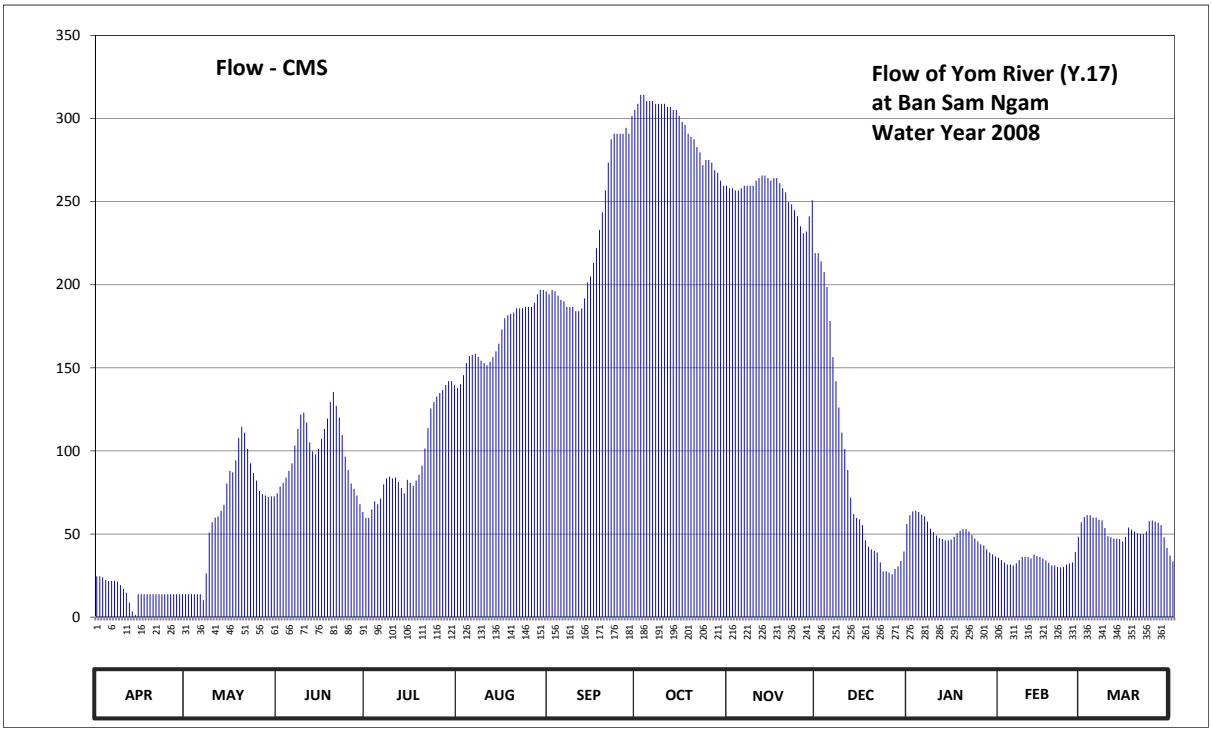
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.02	31.49	33.50	33.13	34.83	35.58	36.51	36.20	35.85	33.18	32.38	33.15	
2	32.02	31.49	33.59	33.13	34.87	35.61	36.54	36.20	35.80	33.24	32.33	33.18	
3	32.00	31.49	33.64	33.27	34.96	35.60	36.54	36.19	35.73	33.25	32.29	33.18	
4	31.92	31.49	33.71	33.39	35.07	35.57	36.52	36.19	35.63	33.23	32.29	33.14	
5	31.89	31.49	33.80	33.35	35.13	35.54	36.52	36.20	35.39	33.19	32.27	33.14	
6	31.89	31.49	33.90	33.43	35.14	35.53	36.52	36.21	35.12	33.16	32.31	33.10	
7	31.89	31.31	34.14	33.62	35.15	35.49	36.51	36.21	34.90	33.07	32.38	33.09	
8	31.87	32.09	34.36	33.70	35.12	35.49	36.51	36.21	34.62	32.95	32.44	32.96	
9	31.76	32.88	34.54	33.72	35.09	35.49	36.51	36.21	34.31	32.89	32.44	32.82	
10	31.65	33.06	34.56	33.70	35.07	35.46	36.51	36.23	34.09	32.83	32.44	32.80	
11	31.53	33.14	34.44	33.71	35.05	35.46	36.50	36.24	33.81	32.79	32.41	32.78	
12	31.24	33.16	34.18	33.65	35.08	35.48	36.50	36.25	33.44	32.77	32.49	32.78	
13	30.89	33.25	34.06	33.57	35.12	35.55	36.49	36.25	33.20	32.75	32.46	32.77	
14	30.73	33.34	34.02	33.50	35.17	35.66	36.49	36.24	33.13	32.75	32.44	32.73	
15	31.49	33.63	34.09	33.68	35.23	35.70	36.47	36.23	33.11	32.76	32.41	32.81	
16	31.49	33.80	34.23	33.64	35.33	35.79	36.45	36.24	33.01	32.81	32.37	32.97	
17	31.49	33.78	34.36	33.60	35.41	35.88	36.44	36.24	32.75	32.87	32.32	32.93	
18	31.49	33.94	34.49	33.67	35.43	35.99	36.41	36.22	32.64	32.91	32.27	32.90	
19	31.49	34.24	34.68	33.75	35.44	36.08	36.40	36.20	32.59	32.94	32.27	32.87	
20	31.49	34.39	34.79	33.87	35.45	36.19	36.39	36.18	32.56	32.94	32.24	32.86	
21	31.49	34.31	34.64	34.10	35.48	36.30	36.36	36.13	32.53	32.90	32.23	32.86	
22	31.49	34.09	34.50	34.37	35.48	36.39	36.34	36.12	32.33	32.84	32.24	32.90	
23	31.49	33.90	34.28	34.61	35.48	36.41	36.29	36.09	32.14	32.78	32.29	33.08	
24	31.49	33.77	33.99	34.68	35.49	36.41	36.31	36.06	32.14	32.73	32.31	33.09	
25	31.49	33.67	33.81	34.74	35.49	36.41	36.31	36.01	32.11	32.68	32.33	33.07	
26	31.49	33.53	33.63	34.78	35.49	36.41	36.30	35.97	32.07	32.66	32.54	33.05	
27	31.49	33.49	33.56	34.81	35.52	36.43	36.27	35.98	32.20	32.59	32.81	33.01	
28	31.49	33.47	33.47	34.86	35.58	36.41	36.26	36.06	32.25	32.53	33.06	32.80	
29	31.49	33.45	33.35	34.90	35.61	36.47	36.23	36.14	32.36	32.49		32.62	
30	31.49	33.46	33.23	34.90	35.61	36.49	36.21	35.85	32.55	32.45		32.47	
31		33.46		34.86	35.60		36.21		33.03	32.42		32.35	
Mean	31.57	33.08	34.05	33.96	35.29	35.91	36.41	36.16	33.46	32.85	32.39	32.91	
Max	32.02	34.39	34.79	34.90	35.61	36.49	36.54	36.25	35.85	33.25	33.06	33.18	36.54
Min	30.73	31.31	33.23	33.13	34.83	35.46	36.21	35.85	32.07	32.42	32.23	32.35	30.73

Annual Max Momentary Gage Height 36.54 m. (MSL.) , at 06.00 Hours , on Oct 2, 2008

Zero Gage at Bottom Elevation 31.49 m. (MSL.) , River Bed 30.05 m. (MSL.)

Left Bank Elevation 37.95 m. (MSL.) ,

Right Bank Elevation 38.20 m. (MSL.) , Drainage Are 22,034 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	24.50	13.80	74.50	59.55	137.80	194.30	308.80	258.00	219.00	61.30	34.40	60.25		
2	24.50	13.80	78.55	59.55	140.20	196.90	314.20	258.00	214.00	63.60	32.90	61.30		
3	24.00	13.80	80.80	64.80	145.60	196.00	314.20	256.80	207.70	64.00	31.70	61.30		
4	22.40	13.80	83.95	69.60	152.90	193.45	310.60	256.80	198.70	63.20	31.70	59.90		
5	21.80	13.80	88.00	68.00	157.10	190.90	310.60	258.00	178.15	61.65	31.10	59.90		
6	21.80	13.80	92.50	71.35	157.80	190.05	310.60	259.55	156.40	60.60	32.30	58.50		
7	21.80	10.20	103.30	79.90	158.50	186.65	308.80	259.55	142.00	57.45	34.40	58.15		
8	21.40	26.25	113.20	83.50	156.40	186.65	308.80	259.55	126.10	53.25	36.20	53.60		
9	19.20	50.80	122.00	84.40	154.30	186.65	308.80	259.55	110.95	51.15	36.20	48.70		
10	17.00	57.10	123.00	83.50	152.90	184.10	308.80	262.65	101.05	49.05	36.20	48.00		
11	14.60	59.90	117.00	83.95	151.50	184.10	307.00	264.20	88.45	47.65	35.30	47.30		
12	8.80	60.60	105.10	81.25	153.60	185.80	307.00	265.75	71.80	46.95	37.70	47.30		
13	3.35	64.00	99.70	77.65	156.40	191.75	305.20	265.75	62.00	46.25	36.80	46.95		
14	1.30	67.60	97.90	74.50	159.90	201.40	305.20	264.20	59.55	46.25	36.20	45.55		
15	13.80	80.35	101.05	82.60	164.55	205.00	301.60	262.65	58.85	46.60	35.30	48.35		
16	13.80	88.00	107.35	80.80	173.05	213.10	298.00	264.20	55.35	48.35	34.10	53.95		
17	13.80	87.10	113.20	79.00	179.85	222.00	296.20	264.20	46.25	50.45	32.60	52.55		
18	13.80	94.30	119.50	82.15	181.55	233.00	290.80	261.10	42.40	51.85	31.10	51.50		
19	13.80	107.80	129.40	85.75	182.40	243.60	289.00	258.00	40.70	52.90	31.10	50.45		
20	13.80	114.55	135.45	91.15	183.25	256.80	287.45	255.60	39.80	52.90	30.20	50.10		
21	13.80	110.95	127.20	101.50	185.80	273.50	282.80	249.60	38.90	51.50	29.90	50.10		
22	13.80	101.05	120.00	113.65	185.80	287.45	279.70	248.40	32.90	49.40	30.20	51.50		
23	13.80	92.50	109.60	125.55	185.80	290.80	271.95	244.80	27.50	47.30	31.70	57.80		
24	13.80	86.65	96.55	129.40	186.65	290.80	275.05	241.20	27.50	45.55	32.30	58.15		
25	13.80	82.15	88.45	132.70	186.65	290.80	275.05	235.20	26.75	43.80	32.90	57.45		
26	13.80	75.85	80.35	134.90	186.65	290.80	273.50	231.00	25.75	43.10	39.20	56.75		
27	13.80	74.05	77.20	136.60	189.20	294.40	268.85	232.00	29.00	40.70	48.35	55.35		
28	13.80	73.15	73.15	139.60	194.30	290.80	267.30	241.20	30.50	38.90	57.10	48.00		
29	13.80	72.25	68.00	142.00	196.90	301.60	262.65	250.80	33.80	37.70		41.70		
30	13.80	72.70	63.20	142.00	196.90	305.20	259.55	219.00	39.50	36.50		37.10		
31		72.70		139.60	196.00		259.55		56.05	35.60		33.50		
Total	467.25	1965.35	2989.15	2980.45	5290.20	6958.35	9067.60	7607.30	2587.35	1545.45	979.15	1611.00	44048.60	CMSDAY
Mean	15.58	63.40	99.64	96.14	170.65	231.95	292.50	253.58	83.46	49.85	34.97	51.97	120.68	CMS
Max	24.50	114.55	135.45	142.00	196.90	305.20	314.20	265.75	219.00	64.00	57.10	61.30	314.20	CMS
Min	1.30	10.20	63.20	59.55	137.80	184.10	259.55	219.00	25.75	35.60	29.90	33.50	1.30	CMS
Runoff	40.37	169.81	258.26	257.51	457.07	601.20	783.44	657.27	223.55	133.53	84.60	139.19	3805.80	MCM

Momentary Peak 314.20 CMS. at 36.54 m. (MSL.) at 06.00 Hours , on Oct 2, 2008

Runoff Yield 5.48 Liters/Second/Square KM. Momentary Peak Yield 14.26 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	5,394 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+181.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the automatic gage building.		**Elevation** +193.552 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1971 to date		
Rating Operation			
Period of Rating	1972 to date		
Rated by Float	-		
Rated by Current Meter	1972 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records very good. Mae yom weir situated about 15 kilometers above site. Stage-discharge relation defined by 85 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

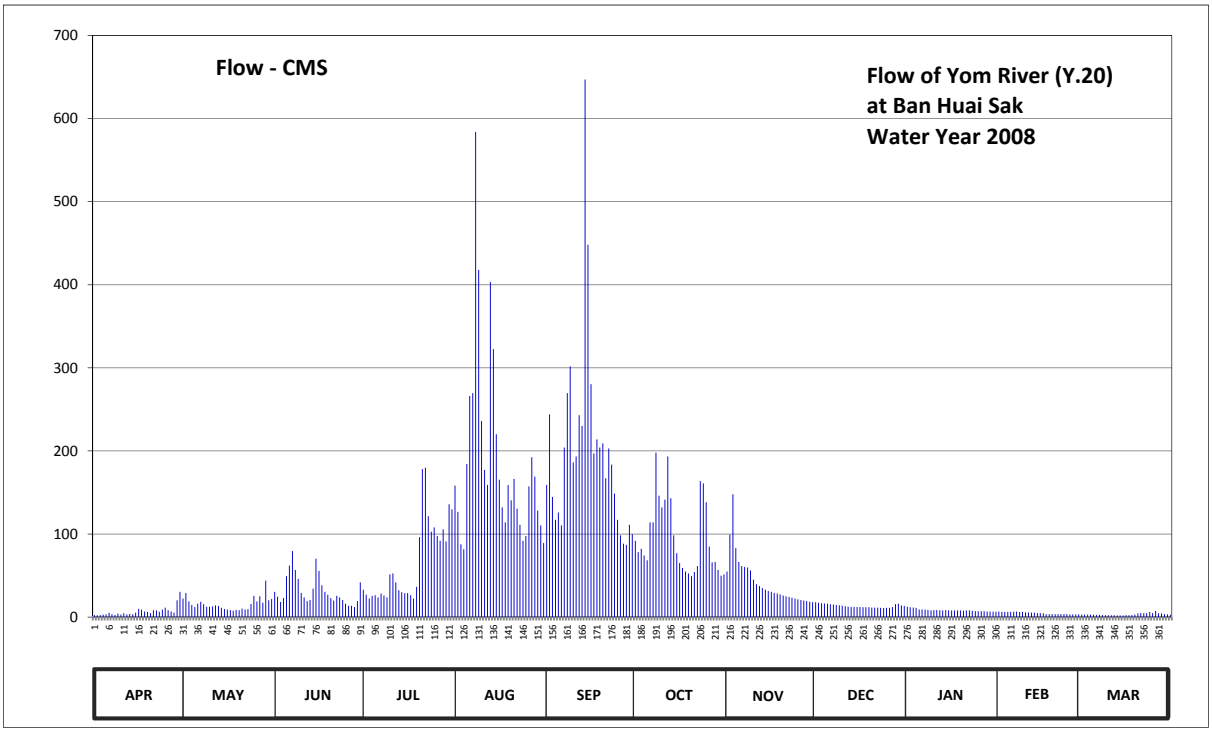
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	181.66	182.40	182.58	182.63	184.48	184.49	183.62	183.05	182.27	182.09	181.85	181.69	
2	181.65	182.55	182.45	182.50	184.09	185.38	183.42	183.72	182.25	182.06	181.84	181.69	
3	181.66	182.30	182.28	182.40	183.56	184.32	183.48	184.36	182.23	182.05	181.83	181.69	
4	181.69	182.16	182.41	182.47	183.47	183.96	183.36	183.49	182.22	182.03	181.83	181.69	
5	181.70	182.07	182.95	182.49	184.77	184.08	183.27	183.24	182.21	181.95	181.83	181.68	
6	181.78	182.21	183.17	182.43	185.60	183.87	183.92	183.16	182.19	181.95	181.84	181.67	
7	181.72	182.29	183.44	182.53	185.63	184.98	183.92	183.14	182.18	181.94	181.85	181.67	
8	181.67	182.19	183.08	182.48	187.52	185.63	184.92	183.13	182.16	181.93	181.82	181.66	
9	181.74	182.09	182.89	182.43	186.68	185.89	184.34	183.07	182.15	181.91	181.82	181.65	
10	181.69	182.09	182.55	182.99	185.30	184.79	184.16	182.87	182.13	181.92	181.81	181.65	
11	181.76	182.10	182.43	183.01	184.69	184.87	184.28	182.77	182.11	181.92	181.80	181.65	
12	181.70	182.14	182.31	182.81	184.49	185.37	184.87	182.72	182.09	181.91	181.79	181.65	
13	181.73	182.12	182.35	182.62	186.59	185.24	184.30	182.67	182.08	181.90	181.79	181.64	
14	181.71	182.03	182.66	182.57	186.05	187.78	183.71	182.63	182.08	181.92	181.77	181.64	
15	181.79	181.97	183.30	182.54	185.14	186.85	183.40	182.60	182.07	181.90	181.77	181.64	
16	181.98	181.94	183.06	182.55	184.56	185.72	183.22	182.58	182.07	181.90	181.76	181.66	
17	181.94	181.92	182.74	182.49	184.16	184.91	183.12	182.55	182.06	181.90	181.71	181.65	
18	181.85	181.89	182.58	182.40	183.92	185.08	183.05	182.53	182.06	181.90	181.71	181.66	
19	181.82	181.93	182.50	182.70	184.49	184.98	183.01	182.51	182.06	181.90	181.72	181.69	
20	181.77	181.91	182.41	183.68	184.27	185.03	182.95	182.48	182.05	181.89	181.71	181.75	
21	181.91	181.99	182.33	184.70	184.57	184.58	183.04	182.46	182.04	181.90	181.71	181.77	
22	181.90	181.94	182.47	184.72	184.14	184.97	183.16	182.44	182.04	181.90	181.72	181.77	
23	181.84	181.97	182.43	184.02	183.88	184.76	184.54	182.42	182.03	181.89	181.72	181.77	
24	181.94	182.20	182.35	183.77	183.62	184.37	184.51	182.40	182.02	181.87	181.72	181.82	
25	182.04	182.47	182.21	183.84	183.70	183.96	184.24	182.37	182.03	181.86	181.70	181.77	
26	181.91	182.30	182.13	183.70	184.47	183.71	183.52	182.35	182.03	181.86	181.70	181.87	
27	181.85	182.46	182.13	183.62	184.86	183.57	183.23	182.33	182.07	181.86	181.70	181.76	
28	181.79	182.25	182.07	183.81	184.60	183.55	183.24	182.31	182.19	181.85	181.70	181.75	
29	182.34	182.85	182.31	183.61	184.11	183.88	183.08	182.29	182.21	181.85		181.72	
30	182.58	182.34	182.81	184.21	183.87	183.73	182.96	182.27	182.14	181.84		181.70	
31		182.38		184.13	183.58		182.99		182.12	181.84		181.68	
Mean	181.84	182.18	182.58	183.12	184.67	184.81	183.64	182.76	182.12	181.92	181.77	181.70	
Max	182.58	182.85	183.44	184.72	187.52	187.78	184.92	184.36	182.27	182.09	181.85	181.87	187.78
Min	181.65	181.89	182.07	182.40	183.47	183.55	182.95	182.27	182.02	181.84	181.70	181.64	181.64

Annual Max Momentary Gage Height 188.97 m. (MSL.) , at 14.00 Hours , on Sep 14, 2008

Zero Gage at Bottom Elevation 181.00 m. (MSL.) , River Bed 179.41 m. (MSL.)

Left Bank Elevation 193.51 m. (MSL.) ,

Right Bank Elevation 193.66 m. (MSL.) , Drainage Are 5,394 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.48	22.40	30.50	32.87	158.20	159.10	91.86	54.95	17.90	12.56	6.80	3.02		
2	2.30	29.15	24.65	26.90	126.75	244.00	78.16	99.16	17.30	11.84	6.56	3.02		
3	2.48	18.80	18.20	22.40	87.68	144.60	82.24	147.80	16.70	11.60	6.32	3.02		
4	3.02	14.60	22.85	25.55	81.56	117.00	74.20	82.92	16.40	11.12	6.32	3.02		
5	3.20	12.08	49.30	26.45	184.30	126.00	68.35	66.40	16.10	9.20	6.32	2.84		
6	5.12	16.10	62.03	23.75	266.00	110.25	114.00	61.44	15.50	9.20	6.56	2.66		
7	3.68	18.50	79.52	28.25	269.60	204.00	114.00	60.26	15.20	8.96	6.80	2.66		
8	2.66	15.50	56.72	26.00	583.80	269.60	198.00	59.67	14.60	8.72	6.08	2.48		
9	4.16	12.56	46.06	23.75	417.80	301.70	146.20	56.13	14.30	8.24	6.08	2.30		
10	3.02	12.56	29.15	51.46	236.00	186.10	132.00	44.98	13.70	8.48	5.84	2.30		
11	4.64	12.80	23.75	52.59	177.10	193.30	141.40	39.73	13.10	8.48	5.60	2.30		
12	3.20	14.00	19.16	41.74	159.10	243.00	193.30	37.28	12.56	8.24	5.36	2.30		
13	3.92	13.40	20.60	32.38	403.40	230.00	143.00	34.83	12.32	8.00	5.36	2.12		
14	3.44	11.12	34.34	30.05	322.50	647.00	98.43	32.87	12.32	8.48	4.88	2.12		
15	5.36	9.68	70.30	28.70	220.00	448.00	76.80	31.40	12.08	8.00	4.88	2.12		
16	9.92	8.96	55.54	29.15	165.40	280.40	65.10	30.50	12.08	8.00	4.64	2.48		
17	8.96	8.48	38.26	26.45	132.00	197.00	59.08	29.15	11.84	8.00	3.44	2.30		
18	6.80	7.76	30.50	22.40	114.00	214.00	54.95	28.25	11.84	8.00	3.44	2.48		
19	6.08	8.72	26.90	36.30	159.10	204.00	52.59	27.35	11.84	8.00	3.68	3.02		
20	4.88	8.24	22.85	96.24	140.60	209.00	49.30	26.00	11.60	7.76	3.44	4.40		
21	8.24	10.16	19.88	178.00	166.30	167.20	54.36	25.10	11.36	8.00	3.44	4.88		
22	8.00	8.96	25.55	179.80	130.50	203.00	61.44	24.20	11.36	8.00	3.68	4.88		
23	6.56	9.68	23.75	121.50	111.00	183.40	163.60	23.30	11.12	7.76	3.68	4.88		
24	8.96	15.80	20.60	102.81	91.86	148.60	160.90	22.40	10.88	7.28	3.68	6.08		
25	11.36	25.55	16.10	108.00	97.70	117.00	138.20	21.32	11.12	7.04	3.20	4.88		
26	8.24	18.80	13.70	97.70	157.30	98.43	84.96	20.60	11.12	7.04	3.20	7.28		
27	6.80	25.10	13.70	91.86	192.40	88.36	65.75	19.88	12.08	7.04	3.20	4.64		
28	5.36	17.30	12.08	105.75	169.00	87.00	66.40	19.16	15.50	6.80	3.20	4.40		
29	20.24	43.90	19.16	91.13	128.25	111.00	56.72	18.50	16.10	6.80		3.68		
30	30.50	20.24	41.74	135.80	110.25	99.89	49.84	17.90	14.00	6.56		3.20		
31		21.68		129.75	89.04		51.46		13.40	6.56		2.84		
Total	203.58	492.58	967.44	2025.48	5848.49	6031.93	2986.59	1263.43	417.32	259.76	135.68	104.60	20736.88	CMSDAY
Mean	6.79	15.89	32.25	65.34	188.66	201.06	96.34	42.11	13.46	8.38	4.85	3.37	56.81	CMS
Max	30.50	43.90	79.52	179.80	583.80	647.00	198.00	147.80	17.90	12.56	6.80	7.28	647.00	CMS
Min	2.30	7.76	12.08	22.40	81.56	87.00	49.30	17.90	10.88	6.56	3.20	2.12	2.12	CMS
Runoff	17.59	42.56	83.59	175.00	505.31	521.16	258.04	109.16	36.06	22.44	11.72	9.04	1791.67	MCM

Momentary Peak 999.60 CMS. at 188.97 m. (MSL.) at 14.00 Hours , on Sep 14, 2008

Runoff Yield 10.53 Liters/Second/Square KM. Momentary Peak Yield 185.32 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	310 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 gage site. **Elevation** +5.063 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings
Period of Available Gage Records	1972 to date.
Rating Operation	
Period of Rating	1982 - 1986, 1989 -1996, 2001 to date.
Rated by Float	-
Rated by Current Meter	1982 - 1986, 1989 -1996, 2001 to date.
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 18 discharge measurements made in 2008.

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

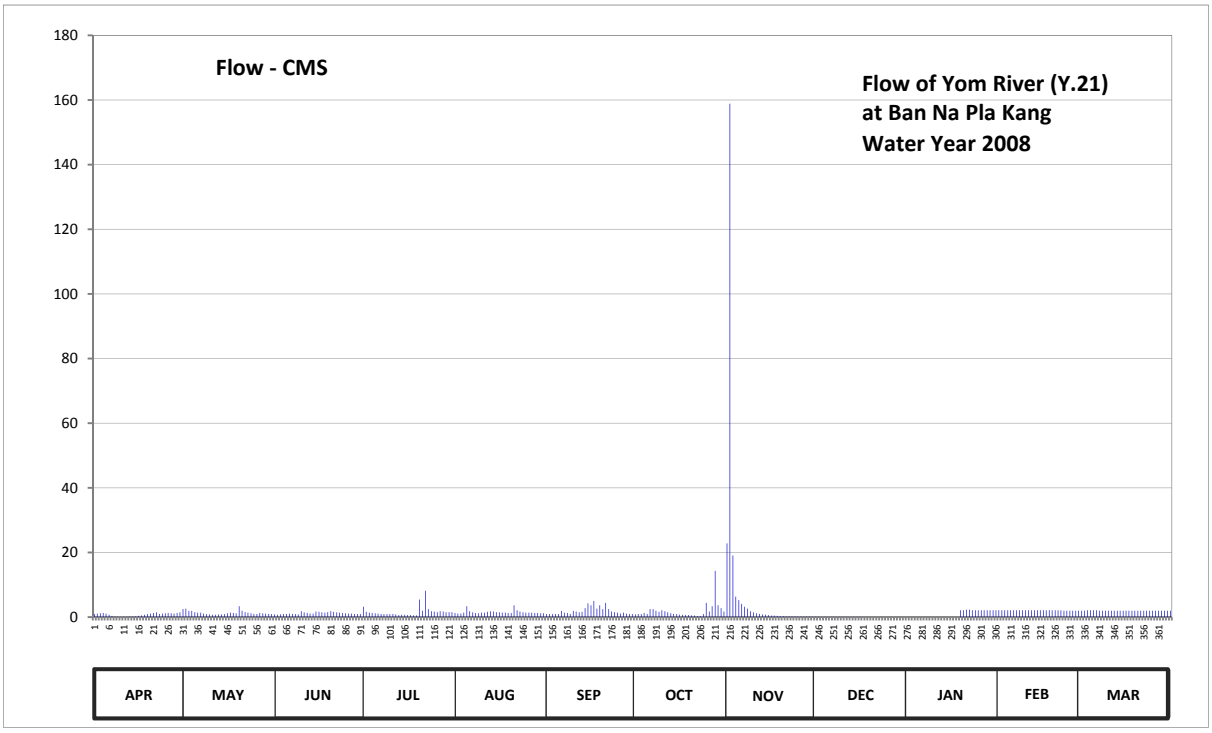
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.29	1.43	1.27	1.48	1.32	1.28	1.27	2.22	1.15	1.06	1.41	1.40	
2	1.30	1.44	1.26	1.36	1.30	1.28	1.28	3.82	1.14	1.06	1.41	1.40	
3	1.31	1.39	1.27	1.33	1.30	1.28	1.28	2.11	1.13	1.06	1.41	1.41	
4	1.32	1.39	1.28	1.32	1.33	1.28	1.32	1.66	1.13	1.06	1.41	1.41	
5	1.30	1.35	1.29	1.31	1.49	1.28	1.29	1.61	1.12	1.05	1.41	1.41	
6	1.26	1.33	1.30	1.30	1.38	1.39	1.43	1.54	1.13	1.05	1.41	1.41	
7	1.22	1.33	1.29	1.29	1.34	1.33	1.43	1.48	1.13	1.05	1.41	1.40	
8	1.18	1.30	1.28	1.28	1.32	1.32	1.40	1.44	1.13	1.05	1.41	1.40	
9	1.15	1.28	1.27	1.28	1.31	1.29	1.36	1.38	1.13	1.06	1.41	1.40	
10	1.13	1.27	1.38	1.28	1.33	1.39	1.41	1.34	1.13	1.06	1.41	1.40	
11	1.14	1.26	1.34	1.29	1.33	1.37	1.38	1.31	1.13	1.05	1.41	1.40	
12	1.16	1.26	1.32	1.27	1.36	1.34	1.34	1.29	1.13	1.04	1.41	1.40	
13	1.17	1.27	1.30	1.25	1.38	1.36	1.31	1.27	1.13	1.04	1.41	1.40	
14	1.18	1.27	1.30	1.26	1.37	1.45	1.29	1.26	1.13	1.01	1.41	1.40	
15	1.20	1.28	1.37	1.26	1.35	1.55	1.28	1.25	1.13	1.00	1.41	1.40	
16	1.22	1.31	1.36	1.25	1.34	1.51	1.26	1.23	1.13	1.00	1.41	1.40	
17	1.24	1.33	1.34	1.25	1.33	1.60	1.26	1.23	1.09	0.99	1.41	1.40	
18	1.26	1.32	1.33	1.24	1.33	1.44	1.25	1.22	1.08	1.09	1.41	1.40	
19	1.28	1.31	1.35	1.24	1.32	1.51	1.25	1.21	1.07	1.41	1.41	1.40	
20	1.30	1.49	1.38	1.62	1.32	1.43	1.24	1.21	1.06	1.41	1.41	1.40	
21	1.32	1.40	1.36	1.40	1.51	1.56	1.23	1.20	1.06	1.42	1.41	1.40	
22	1.34	1.35	1.34	1.74	1.41	1.43	1.21	1.20	1.06	1.42	1.41	1.40	
23	1.29	1.33	1.33	1.43	1.37	1.37	1.21	1.19	1.06	1.41	1.40	1.40	
24	1.30	1.31	1.32	1.38	1.34	1.35	1.28	1.19	1.05	1.41	1.40	1.40	
25	1.31	1.29	1.31	1.37	1.33	1.33	1.56	1.18	1.05	1.41	1.40	1.40	
26	1.32	1.29	1.30	1.35	1.33	1.30	1.37	1.18	1.10	1.41	1.40	1.40	
27	1.31	1.32	1.30	1.38	1.33	1.33	1.49	1.17	1.09	1.41	1.40	1.40	
28	1.30	1.31	1.29	1.37	1.32	1.30	1.96	1.17	1.09	1.41	1.40	1.40	
29	1.32	1.30	1.28	1.35	1.32	1.28	1.51	1.17	1.08	1.41		1.40	
30	1.34	1.29	1.29	1.35	1.31	1.28	1.45	1.16	1.08	1.41		1.40	
31		1.28		1.35	1.31		1.37		1.07	1.41		1.40	
Mean	1.26	1.33	1.31	1.34	1.35	1.37	1.35	1.43	1.10	1.20	1.41	1.40	
Max	1.34	1.49	1.38	1.74	1.51	1.60	1.96	3.82	1.15	1.42	1.41	1.41	3.82
Min	1.13	1.26	1.26	1.24	1.30	1.28	1.21	1.16	1.05	0.99	1.40	1.40	0.99

Annual Max Momentary Gage Height 3.93 m. (A.D.) , at 09.00 Hours , on Nov 2, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed -1.96 m. (A.D.)

Left Bank Elevation 4.29 m. (A.D.) ,

Right Bank Elevation 4.04 m. (A.D.) , Drainage Are 310 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.01	2.45	0.83	3.20	1.28	0.92	0.83	22.80	0.10	0.00	2.15	2.00		
2	1.10	2.60	0.74	1.64	1.10	0.92	0.92	158.90	0.08	0.00	2.15	2.00		
3	1.19	1.91	0.83	1.37	1.10	0.92	0.92	19.08	0.06	0.00	2.15	2.15		
4	1.28	1.91	0.92	1.28	1.37	0.92	1.28	6.35	0.06	0.00	2.15	2.15		
5	1.10	1.55	1.01	1.19	3.35	0.92	1.01	5.23	0.04	0.00	2.15	2.15		
6	0.74	1.37	1.10	1.10	1.82	1.91	2.45	4.10	0.06	0.00	2.15	2.15		
7	0.38	1.37	1.01	1.01	1.46	1.37	2.45	3.20	0.06	0.00	2.15	2.00		
8	0.16	1.10	0.92	0.92	1.28	1.28	2.00	2.60	0.06	0.00	2.15	2.00		
9	0.10	0.92	0.83	0.92	1.19	1.01	1.64	1.82	0.06	0.00	2.15	2.00		
10	0.06	0.83	1.82	0.92	1.37	1.91	2.15	1.46	0.06	0.00	2.15	2.00		
11	0.08	0.74	1.46	1.01	1.37	1.73	1.82	1.19	0.06	0.00	2.15	2.00		
12	0.12	0.74	1.28	0.83	1.64	1.46	1.46	1.01	0.06	0.00	2.15	2.00		
13	0.14	0.83	1.10	0.65	1.82	1.64	1.19	0.83	0.06	0.00	2.15	2.00		
14	0.16	0.83	1.10	0.74	1.73	2.75	1.01	0.74	0.06	0.00	2.15	2.00		
15	0.20	0.92	1.73	0.74	1.55	4.25	0.92	0.65	0.06	0.00	2.15	2.00		
16	0.38	1.19	1.64	0.65	1.46	3.65	0.74	0.47	0.06	0.00	2.15	2.00		
17	0.56	1.37	1.46	0.65	1.37	5.00	0.74	0.47	0.00	0.00	2.15	2.00		
18	0.74	1.28	1.37	0.56	1.37	2.60	0.65	0.38	0.00	0.00	2.15	2.00		
19	0.92	1.19	1.55	0.56	1.28	3.65	0.65	0.29	0.00	2.15	2.15	2.00		
20	1.10	3.35	1.82	5.45	1.28	2.45	0.56	0.29	0.00	2.15	2.15	2.00		
21	1.28	2.00	1.64	2.00	3.65	4.40	0.47	0.20	0.00	2.30	2.15	2.00		
22	1.46	1.55	1.46	8.15	2.15	2.45	0.29	0.20	0.00	2.30	2.15	2.00		
23	1.01	1.37	1.37	2.45	1.73	1.73	0.29	0.18	0.00	2.15	2.00	2.00		
24	1.10	1.19	1.28	1.82	1.46	1.55	0.92	0.18	0.00	2.15	2.00	2.00		
25	1.19	1.01	1.19	1.73	1.37	1.37	4.40	0.16	0.00	2.15	2.00	2.00		
26	1.28	1.01	1.10	1.55	1.37	1.10	1.73	0.16	0.00	2.15	2.00	2.00		
27	1.19	1.28	1.10	1.82	1.37	1.37	3.35	0.14	0.00	2.15	2.00	2.00		
28	1.10	1.19	1.01	1.73	1.28	1.10	14.30	0.14	0.00	2.15	2.00	2.00		
29	1.28	1.10	0.92	1.55	1.28	0.92	3.65	0.14	0.00	2.15		2.00		
30	1.46	1.01	1.01	1.55	1.19	0.92	2.75	0.12	0.00	2.15		2.00		
31		0.92		1.55	1.19		1.73		0.00	2.15		2.00		
Total	23.87	42.08	36.60	51.29	48.23	58.17	59.27	233.48	1.00	28.25	59.30	62.60	704.14	CMSDAY
Mean	0.80	1.36	1.22	1.65	1.56	1.94	1.91	7.78	0.03	0.91	2.12	2.02	1.93	CMS
Max	1.46	3.35	1.82	8.15	3.65	5.00	14.30	158.90	0.10	2.30	2.15	2.15	158.90	CMS
Min	0.06	0.74	0.74	0.56	1.10	0.92	0.29	0.12	0.00	0.00	2.00	2.00	0.00	CMS
Runoff	2.06	3.64	3.16	4.43	4.17	5.03	5.12	20.17	0.09	2.44	5.12	5.41	60.84	MCM

Momentary Peak 174.85 CMS. at 3.93 m. (A.D.) at 09.00 Hours , on Nov 2, 2008

Runoff Yield 6.22 Liters/Second/Square KM. Momentary Peak Yield 563.89 Liters/Second/Square KM.

WATER YEAR : 2008

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.

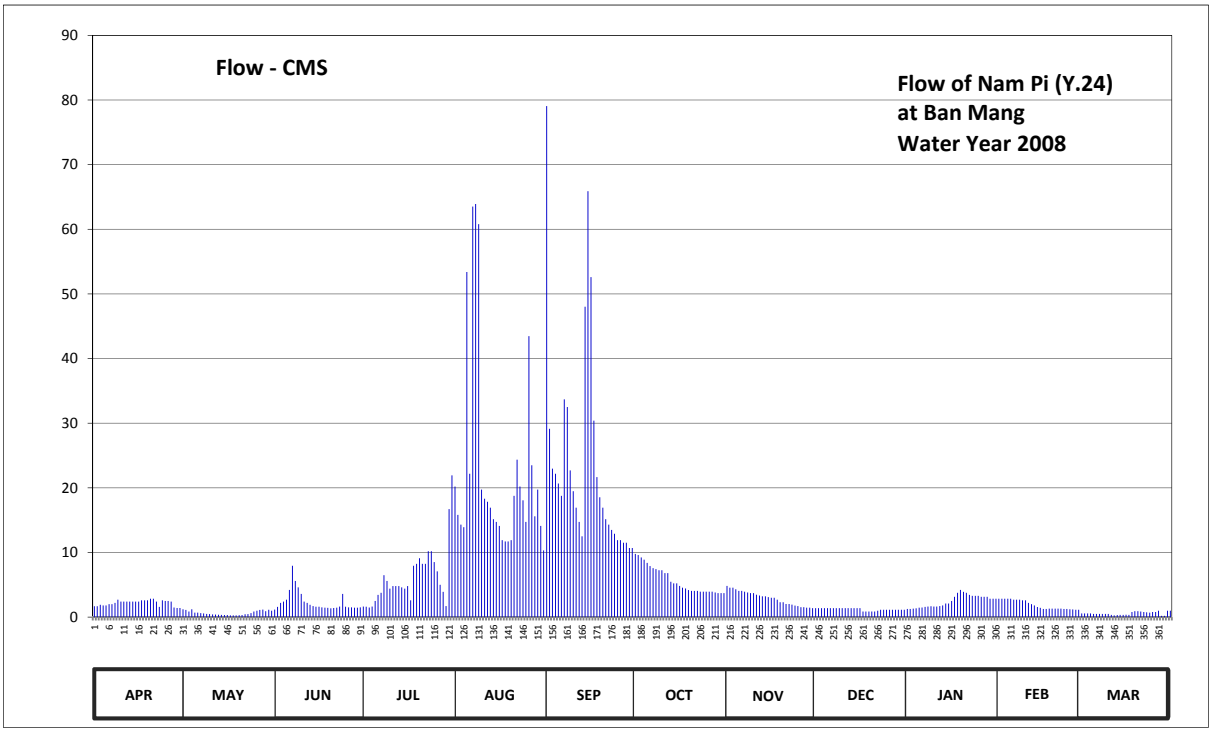
Ban Mang **Amphoe** Chiang Muan **Changwat** Phayao

Drainge 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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1977 to date
Rating Operation	
Period of Rating	1979 - 1986 , 1996 to date
Rated by Float	-
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 12 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	259.69	259.54	259.52	259.68	260.25	261.94	259.76	259.44	259.11	259.55	259.81	259.41	
2	259.69	259.50	259.66	259.67	260.06	260.58	259.75	259.42	259.11	259.55	259.81	259.41	
3	259.72	259.46	259.75	259.63	259.99	260.36	259.73	259.42	259.11	259.57	259.81	259.41	
4	259.71	259.54	259.77	259.68	259.97	260.33	259.71	259.40	259.11	259.59	259.81	259.41	
5	259.71	259.43	259.80	259.78	261.31	260.27	259.68	259.38	259.11	259.62	259.81	259.40	
6	259.73	259.43	259.90	259.85	260.33	260.19	259.65	259.38	259.11	259.63	259.80	259.40	
7	259.73	259.42	260.06	259.87	261.57	260.74	259.63	259.37	259.11	259.66	259.80	259.40	
8	259.75	259.41	259.97	260.01	261.58	260.70	259.62	259.36	259.11	259.68	259.80	259.40	
9	259.80	259.39	259.92	259.97	261.50	260.35	259.61	259.35	259.11	259.69	259.79	259.40	
10	259.77	259.37	259.86	259.91	260.23	260.22	259.61	259.35	259.11	259.68	259.79	259.40	
11	259.77	259.35	259.77	259.93	260.17	260.11	259.58	259.33	259.11	259.68	259.75	259.29	
12	259.77	259.33	259.75	259.93	260.15	260.01	259.58	259.32	259.11	259.70	259.73	259.23	
13	259.77	259.32	259.72	259.93	260.11	259.90	259.49	259.31	259.11	259.71	259.71	259.27	
14	259.77	259.29	259.70	259.92	260.03	261.17	259.47	259.31	259.11	259.74	259.65	259.29	
15	259.77	259.27	259.67	259.91	260.01	261.63	259.47	259.30	259.11	259.74	259.61	259.29	
16	259.77	259.26	259.67	259.93	259.98	261.29	259.44	259.29	259.11	259.78	259.55	259.31	
17	259.79	259.23	259.64	259.79	259.87	260.63	259.42	259.29	259.46	259.83	259.55	259.30	
18	259.79	259.22	259.62	260.06	259.86	260.31	259.41	259.26	259.46	259.87	259.57	259.45	
19	259.79	259.22	259.61	260.07	259.86	260.18	259.39	259.22	259.46	259.90	259.57	259.47	
20	259.81	259.24	259.59	260.10	259.87	260.11	259.38	259.22	259.46	259.88	259.57	259.47	
21	259.81	259.27	259.60	260.07	260.19	260.03	259.38	259.19	259.46	259.87	259.57	259.46	
22	259.77	259.36	259.62	260.07	260.41	259.99	259.38	259.19	259.48	259.85	259.57	259.45	
23	259.66	259.38	259.68	260.13	260.25	259.95	259.37	259.18	259.51	259.84	259.55	259.44	
24	259.79	259.42	259.86	260.13	260.16	259.92	259.37	259.16	259.51	259.84	259.55	259.43	
25	259.78	259.46	259.67	260.08	260.01	259.87	259.37	259.15	259.51	259.84	259.54	259.45	
26	259.78	259.48	259.64	260.03	261.04	259.87	259.37	259.13	259.51	259.83	259.53	259.45	
27	259.77	259.50	259.64	259.94	260.38	259.85	259.37	259.13	259.51	259.83	259.51	259.48	
28	259.63	259.52	259.62	259.88	260.05	259.85	259.36	259.12	259.51	259.83	259.51	259.14	
29	259.60	259.47	259.62	259.70	260.23	259.81	259.35	259.12	259.51	259.81		259.14	
30	259.60	259.51	259.64	260.10	259.98	259.81	259.35	259.11	259.51	259.81		259.48	
31		259.48		260.32	259.79		259.35		259.51	259.81		259.48	
Mean	259.74	259.39	259.72	259.94	260.30	260.33	259.50	259.27	259.29	259.75	259.66	259.38	
Max	259.81	259.54	260.06	260.32	261.58	261.94	259.76	259.44	259.51	259.90	259.81	259.48	261.94
Min	259.60	259.22	259.52	259.63	259.79	259.81	259.35	259.11	259.11	259.55	259.51	259.14	259.11

Annual Max Momentary Gage Height	262.77	m. (MSL.) ,	at 12.00 Hours , on Sep 1, 2008		
Zero Gage at Bottom Elevation	257.77	m. (MSL.) ,	River Bed	255.72	m. (MSL.) ,
Left Bank Elevation	266.25	m. (MSL.) ,			
Right Bank Elevation	266.69	m. (MSL.) ,	Drainage Are	590	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.67	1.22	1.16	1.64	20.20	79.06	9.78	4.82	1.38	1.25	2.85	0.56		
2	1.67	1.10	1.58	1.61	15.82	29.14	9.60	4.56	1.38	1.25	2.85	0.56		
3	1.90	0.86	2.20	1.49	14.30	22.96	9.24	4.56	1.38	1.31	2.85	0.56		
4	1.80	1.22	2.40	1.64	13.90	22.18	8.88	4.30	1.38	1.37	2.85	0.56		
5	1.80	0.68	2.70	2.50	53.39	20.68	8.38	4.06	1.38	1.46	2.85	0.50		
6	2.00	0.68	4.20	3.45	22.18	18.77	7.90	4.06	1.38	1.49	2.70	0.50		
7	2.00	0.62	7.94	3.75	63.53	33.70	7.58	3.94	1.38	1.58	2.70	0.50		
8	2.20	0.56	5.60	6.49	63.92	32.50	7.42	3.82	1.38	1.64	2.70	0.50		
9	2.70	0.49	4.60	5.60	60.80	22.70	7.26	3.70	1.38	1.67	2.60	0.50		
10	2.40	0.46	3.60	4.40	19.72	19.48	7.26	3.70	1.38	1.64	2.60	0.50		
11	2.40	0.43	2.40	4.80	18.31	16.93	6.80	3.46	1.38	1.64	2.20	0.34		
12	2.40	0.40	2.20	4.80	17.85	14.72	6.80	3.34	1.38	1.70	2.00	0.28		
13	2.40	0.38	1.90	4.80	16.93	12.50	5.47	3.22	1.38	1.80	1.80	0.32		
14	2.40	0.34	1.70	4.60	15.16	48.02	5.21	3.22	1.38	2.10	1.55	0.34		
15	2.40	0.32	1.61	4.40	14.72	65.90	5.21	3.10	1.38	2.10	1.43	0.34		
16	2.40	0.31	1.61	4.80	14.10	52.61	4.82	3.00	1.38	2.50	1.25	0.37		
17	2.60	0.28	1.52	2.60	11.90	30.40	4.56	3.00	0.86	3.15	1.25	0.35		
18	2.60	0.27	1.46	7.94	11.70	21.66	4.43	2.70	0.86	3.75	1.31	0.80		
19	2.60	0.27	1.43	8.23	11.70	18.54	4.18	2.30	0.86	4.20	1.31	0.92		
20	2.85	0.29	1.37	9.10	11.90	16.93	4.06	2.30	0.86	3.90	1.31	0.92		
21	2.85	0.32	1.40	8.23	18.77	15.16	4.06	2.02	0.86	3.75	1.31	0.86		
22	2.40	0.44	1.46	8.23	24.37	14.30	4.06	2.02	0.98	3.45	1.31	0.80		
23	1.58	0.47	1.64	10.21	20.20	13.50	3.94	1.94	1.13	3.30	1.25	0.74		
24	2.60	0.62	3.60	10.21	18.08	12.90	3.94	1.78	1.13	3.30	1.25	0.68		
25	2.50	0.86	1.61	8.52	14.72	11.90	3.94	1.70	1.13	3.30	1.22	0.80		
26	2.50	0.98	1.52	7.07	43.46	11.90	3.94	1.54	1.13	3.15	1.19	0.80		
27	2.40	1.10	1.52	5.00	23.48	11.50	3.94	1.54	1.13	3.15	1.13	0.98		
28	1.49	1.16	1.46	3.90	15.60	11.50	3.82	1.46	1.13	3.15	1.13	0.19		
29	1.40	0.92	1.46	1.70	19.72	10.70	3.70	1.46	1.13	2.85		0.19		
30	1.40	1.13	1.52	16.70	14.10	10.70	3.70	1.38	1.13	2.85		0.98		
31		0.98		21.92	10.32		3.70		1.13	2.85		0.98		
Total	66.31	20.16	70.37	190.33	714.85	723.44	177.58	88.00	37.53	76.60	52.75	18.22	2236.14	CMSDAY
Mean	2.21	0.65	2.35	6.14	23.06	24.11	5.73	2.93	1.21	2.47	1.88	0.59	6.13	CMS
Max	2.85	1.22	7.94	21.92	63.92	79.06	9.78	4.82	1.38	4.20	2.85	0.98	79.06	CMS
Min	1.40	0.27	1.16	1.49	10.32	10.70	3.70	1.38	0.86	1.25	1.13	0.19	0.19	CMS
Runoff	5.73	1.74	6.08	16.44	61.76	62.51	15.34	7.60	3.24	6.62	4.56	1.57	193.20	MCM

Momentary Peak 118.00 CMS. at 262.77 m. (MSL.) at 12.00 Hours , on Sep 1, 2008

Runoff Yield 10.38 Liters/Second/Square KM. Momentary Peak Yield 200.00 Liters/Second/Square KM.

WATER YEAR : 2008

YOM RIVER BASIN

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

Lat 17 - 19 - 37 N Long 99 - 27 - 42 E

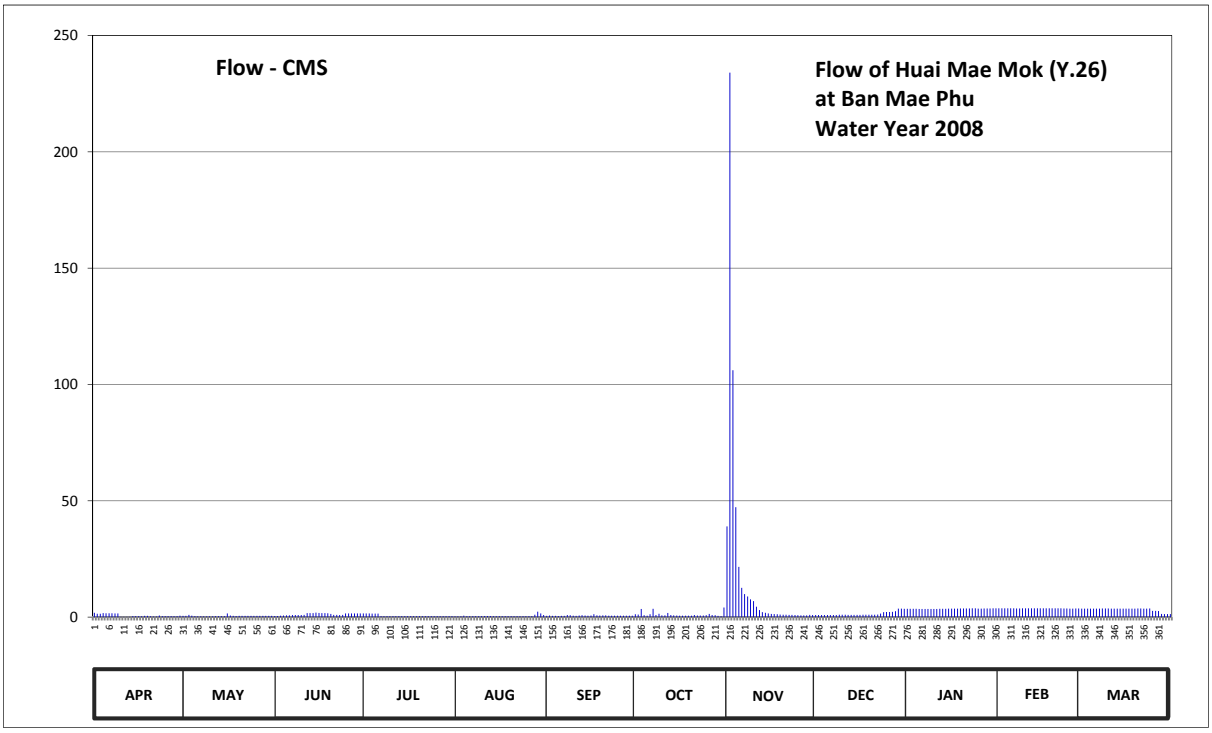
Location : on left bank downstream from Ban Mae Phu Tambon Wiang Mok.

	Ban Mae Phu	**Amphoe** Thoen	**Changwat** Lampang
Drainge 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** +108.388 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 mean of 5 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1979 to date		
Rated by Float	-		
Rated by Current Meter	1979 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 19 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	101.37	100.96	100.94	101.31	100.88	100.98	101.24	103.45	101.15	101.72	101.75	101.73	
2	101.29	100.96	100.94	101.31	100.88	101.03	101.22	106.31	101.15	101.72	101.75	101.73	
3	101.29	101.19	101.00	101.31	100.88	100.97	101.70	104.74	101.14	101.72	101.76	101.73	
4	101.34	101.01	101.05	101.30	101.01	100.96	101.10	103.65	101.14	101.71	101.76	101.73	
5	101.33	100.90	101.06	101.30	100.90	100.95	101.02	102.92	101.14	101.70	101.76	101.73	
6	101.33	100.88	101.06	101.30	100.91	100.97	101.25	102.52	101.13	101.70	101.75	101.73	
7	101.33	100.87	101.14	100.92	100.91	100.96	101.71	102.36	101.13	101.70	101.74	101.73	
8	101.32	100.87	101.15	100.92	100.90	101.13	101.15	102.29	101.16	101.70	101.74	101.74	
9	101.32	100.87	101.15	100.92	100.89	101.12	101.29	102.21	101.20	101.70	101.75	101.74	
10	100.71	100.87	101.14	100.91	100.89	101.00	101.07	102.14	101.20	101.70	101.75	101.74	
11	100.71	100.88	101.19	100.91	100.94	100.96	101.07	101.86	101.20	101.70	101.76	101.73	
12	100.71	100.91	101.34	100.89	100.94	101.04	101.36	101.60	101.18	101.72	101.76	101.73	
13	100.71	100.91	101.34	100.89	100.93	101.12	101.13	101.42	101.18	101.72	101.76	101.73	
14	100.91	100.90	101.34	100.89	100.92	101.03	101.09	101.37	101.19	101.72	101.76	101.73	
15	100.90	100.89	101.38	100.89	100.91	101.01	101.03	101.32	101.19	101.73	101.76	101.73	
16	100.89	101.31	101.35	100.89	100.89	101.04	101.02	101.28	101.19	101.73	101.75	101.73	
17	100.88	101.05	101.34	100.89	100.89	101.24	101.02	101.26	101.21	101.73	101.75	101.73	
18	100.97	100.98	101.34	100.89	100.89	101.08	101.01	101.24	101.21	101.73	101.75	101.73	
19	100.97	100.94	101.33	100.89	100.89	101.04	101.01	101.22	101.20	101.74	101.75	101.73	
20	100.86	100.98	101.28	100.89	100.89	101.08	101.01	101.21	101.20	101.74	101.75	101.74	
21	100.84	100.97	101.18	100.91	100.92	101.07	101.14	101.20	101.20	101.74	101.75	101.74	
22	100.84	100.96	101.17	100.91	100.91	101.02	101.05	101.19	101.22	101.74	101.75	101.73	
23	101.04	100.97	101.16	100.91	100.90	101.01	101.04	101.19	101.30	101.75	101.74	101.73	
24	100.90	100.97	101.19	100.90	100.90	101.00	101.03	101.16	101.43	101.75	101.74	101.74	
25	100.92	100.97	101.31	100.90	100.89	101.00	101.10	101.10	101.44	101.73	101.73	101.54	
26	100.90	100.97	101.31	100.90	100.89	101.00	101.28	101.08	101.44	101.73	101.73	101.53	
27	100.92	100.97	101.31	100.90	100.92	101.00	101.14	101.08	101.45	101.74	101.74	101.52	
28	100.89	100.96	101.31	100.90	101.21	101.01	101.10	101.08	101.51	101.74	101.74	101.28	
29	100.89	100.96	101.31	100.90	101.46	101.01	100.96	101.18	101.73	101.74		101.26	
30	100.99	100.96	101.31	100.90	101.32	101.00	100.92	101.14	101.73	101.75		101.26	
31		100.96		100.90	101.16		101.82		101.72	101.75		101.26	
Mean	101.01	100.96	101.21	100.98	100.96	101.03	101.16	101.93	101.28	101.73	101.75	101.65	
Max	101.37	101.31	101.38	101.31	101.46	101.24	101.82	106.31	101.73	101.75	101.76	101.74	106.31
Min	100.71	100.87	100.94	100.89	100.88	100.95	100.92	101.08	101.13	101.70	101.73	101.26	100.71

Annual Max Momentary Gage Height	106.49	m. (MSL.) ,	at 06.00 Hours , on Nov 2, 2008		
Zero Gage at Bottom Elevation	100.38	m. (MSL.) ,	River Bed	100.15	m. (MSL.)
Left Bank Elevation	108.25	m. (MSL.) ,			
Right Bank Elevation	106.87	m. (MSL.) ,	Drainage Are	784	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.85	0.52	0.48	1.55	0.36	0.56	1.20	39.00	0.90	3.60	3.75	3.65		
2	1.45	0.52	0.48	1.55	0.36	0.66	1.10	234.00	0.90	3.60	3.75	3.65		
3	1.45	0.98	0.60	1.55	0.36	0.54	3.50	106.10	0.88	3.60	3.80	3.65		
4	1.70	0.62	0.70	1.50	0.62	0.52	0.80	47.25	0.88	3.55	3.80	3.65		
5	1.65	0.40	0.72	1.50	0.40	0.50	0.64	21.60	0.88	3.50	3.80	3.65		
6	1.65	0.36	0.72	1.50	0.42	0.54	1.25	12.60	0.86	3.50	3.75	3.65		
7	1.65	0.34	0.88	0.44	0.42	0.52	3.55	9.90	0.86	3.50	3.70	3.65		
8	1.60	0.34	0.90	0.44	0.40	0.86	0.90	8.85	0.92	3.50	3.70	3.70		
9	1.60	0.34	0.90	0.44	0.38	0.84	1.45	7.65	1.00	3.50	3.75	3.70		
10	0.11	0.34	0.88	0.42	0.38	0.60	0.74	6.90	1.00	3.50	3.75	3.70		
11	0.11	0.36	0.98	0.42	0.48	0.52	0.74	4.45	1.00	3.50	3.80	3.65		
12	0.11	0.42	1.70	0.38	0.48	0.68	1.80	3.00	0.96	3.60	3.80	3.65		
13	0.11	0.42	1.70	0.38	0.46	0.84	0.86	2.10	0.96	3.60	3.80	3.65		
14	0.42	0.40	1.70	0.38	0.44	0.66	0.78	1.85	0.98	3.60	3.80	3.65		
15	0.40	0.38	1.90	0.38	0.42	0.62	0.66	1.60	0.98	3.65	3.80	3.65		
16	0.38	1.55	1.75	0.38	0.38	0.68	0.64	1.40	0.98	3.65	3.75	3.65		
17	0.36	0.70	1.70	0.38	0.38	1.20	0.64	1.30	1.05	3.65	3.75	3.65		
18	0.54	0.56	1.70	0.38	0.38	0.76	0.62	1.20	1.05	3.65	3.75	3.65		
19	0.54	0.48	1.65	0.38	0.38	0.68	0.62	1.10	1.00	3.70	3.75	3.65		
20	0.32	0.56	1.40	0.38	0.38	0.76	0.62	1.05	1.00	3.70	3.75	3.70		
21	0.28	0.54	0.96	0.42	0.44	0.74	0.88	1.00	1.00	3.70	3.75	3.70		
22	0.28	0.52	0.94	0.42	0.42	0.64	0.70	0.98	1.10	3.70	3.75	3.65		
23	0.68	0.54	0.92	0.42	0.40	0.62	0.68	0.98	1.50	3.75	3.70	3.65		
24	0.40	0.54	0.98	0.40	0.40	0.60	0.66	0.92	2.15	3.75	3.70	3.70		
25	0.44	0.54	1.55	0.40	0.38	0.60	0.80	0.80	2.20	3.65	3.65	2.70		
26	0.40	0.54	1.55	0.40	0.38	0.60	1.40	0.76	2.20	3.65	3.65	2.65		
27	0.44	0.54	1.55	0.40	0.44	0.60	0.88	0.76	2.25	3.70	3.70	2.60		
28	0.38	0.52	1.55	0.40	1.05	0.62	0.80	0.76	2.55	3.70	3.70	1.40		
29	0.38	0.52	1.55	0.40	2.30	0.62	0.52	0.96	3.65	3.70		1.30		
30	0.58	0.52	1.55	0.40	1.60	0.60	0.44	0.88	3.65	3.75		1.30		
31		0.52		0.40	0.92		4.15		3.60	3.75		1.30		
Total	22.26	16.43	36.54	19.19	17.01	19.78	35.02	521.70	44.89	112.45	104.90	101.15	1051.32	CMSDAY
Mean	0.74	0.53	1.22	0.62	0.55	0.66	1.13	17.39	1.45	3.63	3.75	3.26	2.88	CMS
Max	1.85	1.55	1.90	1.55	2.30	1.20	4.15	234.00	3.65	3.75	3.80	3.70	234.00	CMS
Min	0.11	0.34	0.48	0.38	0.36	0.50	0.44	0.76	0.86	3.50	3.65	1.30	0.11	CMS
Runoff	1.92	1.42	3.16	1.66	1.47	1.71	3.03	45.07	3.88	9.72	9.06	8.74	90.83	MCM

Momentary Peak 252.45 CMS. at 106.49 m. (MSL.) at 06.00 Hours , on Nov 2, 2008

Runoff Yield 3.67 Liters/Second/Square KM. Momentary Peak Yield 322.00 Liters/Second/Square KM.

WATER YEAR : 2008

Yom RIVER BASIN

Huai Mae Hu at Ban Mae Hu , Sukhothai (Y.29)

Lat 17 - 42 - 09 N Long 99 - 44 - 25 E

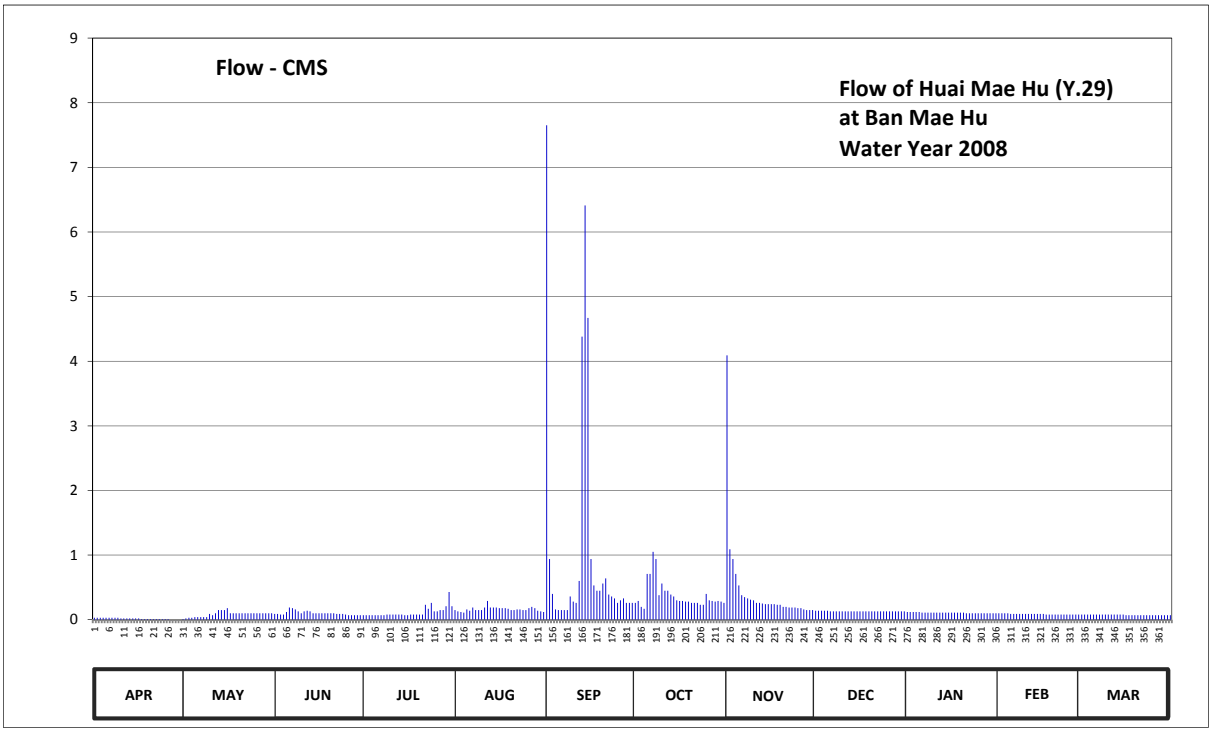
Location : on left bank at Ban Mae Hu.

	Ban Mae Hu		**Amphoe** Si Satchanalai	**Changwat** Sukhothai	
Drainge Area	57 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 gage site.			**Elevation**	+5.000 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings				
Period of Available Gage Records	1983 to date				
Rating Operation					
Period of Rating	1983 to date				
Rated by Float	-				
Rated by Current Meter	1983 to date				
Stability of Channel Regimes	Stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 8 discharge measurements made in 2008.				

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.20	0.13	0.37	0.30	0.50	1.90	0.65	1.44	0.48	0.44	0.39	0.35	
2	0.20	0.15	0.37	0.30	0.45	0.93	0.67	0.97	0.48	0.44	0.39	0.35	
3	0.19	0.18	0.35	0.31	0.43	0.76	0.59	0.93	0.48	0.43	0.39	0.35	
4	0.19	0.20	0.35	0.31	0.42	0.51	0.54	0.87	0.47	0.43	0.39	0.35	
5	0.19	0.23	0.44	0.31	0.52	0.50	0.87	0.82	0.47	0.43	0.38	0.35	
6	0.19	0.23	0.57	0.31	0.47	0.49	0.87	0.74	0.46	0.42	0.38	0.35	
7	0.18	0.23	0.56	0.32	0.58	0.49	0.96	0.72	0.46	0.42	0.38	0.35	
8	0.18	0.23	0.52	0.32	0.50	0.50	0.93	0.70	0.46	0.42	0.38	0.35	
9	0.18	0.23	0.45	0.33	0.50	0.73	0.74	0.69	0.45	0.42	0.38	0.35	
10	0.17	0.38	0.40	0.34	0.50	0.66	0.83	0.68	0.45	0.42	0.38	0.35	
11	0.17	0.30	0.45	0.35	0.58	0.65	0.80	0.65	0.45	0.41	0.37	0.35	
12	0.17	0.39	0.47	0.33	0.67	0.84	0.80	0.65	0.45	0.41	0.37	0.33	
13	0.16	0.50	0.45	0.34	0.57	1.48	0.75	0.64	0.45	0.41	0.37	0.33	
14	0.16	0.50	0.40	0.33	0.57	1.75	0.73	0.63	0.45	0.41	0.36	0.33	
15	0.15	0.50	0.40	0.32	0.57	1.52	0.68	0.63	0.45	0.41	0.36	0.33	
16	0.15	0.55	0.40	0.32	0.56	0.93	0.67	0.63	0.45	0.41	0.36	0.32	
17	0.14	0.40	0.40	0.33	0.56	0.82	0.67	0.63	0.45	0.41	0.35	0.32	
18	0.14	0.40	0.39	0.34	0.55	0.80	0.66	0.62	0.45	0.41	0.35	0.32	
19	0.14	0.40	0.39	0.34	0.54	0.80	0.66	0.62	0.45	0.41	0.35	0.32	
20	0.14	0.40	0.39	0.34	0.50	0.83	0.65	0.60	0.45	0.41	0.35	0.32	
21	0.13	0.40	0.39	0.35	0.50	0.85	0.65	0.59	0.45	0.40	0.35	0.31	
22	0.13	0.40	0.37	0.62	0.51	0.75	0.65	0.58	0.45	0.40	0.35	0.31	
23	0.13	0.40	0.37	0.53	0.52	0.73	0.62	0.58	0.45	0.40	0.35	0.31	
24	0.12	0.40	0.36	0.65	0.50	0.70	0.62	0.57	0.45	0.40	0.35	0.31	
25	0.12	0.40	0.34	0.45	0.50	0.65	0.76	0.56	0.45	0.40	0.35	0.31	
26	0.12	0.40	0.32	0.45	0.55	0.68	0.68	0.55	0.45	0.40	0.35	0.31	
27	0.11	0.40	0.32	0.50	0.60	0.70	0.67	0.52	0.45	0.40	0.35	0.31	
28	0.11	0.40	0.31	0.50	0.55	0.65	0.66	0.50	0.45	0.40	0.35	0.31	
29	0.10	0.40	0.31	0.61	0.47	0.65	0.67	0.49	0.45	0.40		0.31	
30	0.10	0.40	0.30	0.78	0.45	0.65	0.66	0.49	0.45	0.40		0.31	
31		0.40		0.61	0.44		0.65		0.45	0.40		0.31	
Mean	0.15	0.35	0.40	0.40	0.52	0.83	0.71	0.68	0.46	0.41	0.37	0.33	
Max	0.20	0.55	0.57	0.78	0.67	1.90	0.96	1.44	0.48	0.44	0.39	0.35	1.90
Min	0.10	0.13	0.30	0.30	0.42	0.49	0.54	0.49	0.45	0.40	0.35	0.31	0.10

Annual Max Momentary Gage Height	2.30	m. (A.D.) ,	at 06.00 Hours , on Sep 15, 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	-0.23	m. (A.D.)
Left Bank Elevation	2.97	m. (A.D.) ,			
Right Bank Elevation	2.57	m. (A.D.) ,	Drainage Are	57	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.03	0.01	0.09	0.07	0.15	7.65	0.26	4.09	0.14	0.12	0.10	0.08		
2	0.03	0.02	0.09	0.07	0.13	0.94	0.29	1.09	0.14	0.12	0.10	0.08		
3	0.03	0.03	0.08	0.07	0.12	0.40	0.20	0.94	0.14	0.12	0.10	0.08		
4	0.03	0.03	0.08	0.07	0.11	0.16	0.17	0.71	0.14	0.12	0.10	0.08		
5	0.03	0.04	0.12	0.07	0.16	0.15	0.71	0.53	0.14	0.12	0.09	0.08		
6	0.03	0.04	0.19	0.07	0.14	0.15	0.71	0.38	0.13	0.11	0.09	0.08		
7	0.03	0.04	0.18	0.07	0.19	0.15	1.05	0.35	0.13	0.11	0.09	0.08		
8	0.03	0.04	0.16	0.07	0.15	0.15	0.94	0.33	0.13	0.11	0.09	0.08		
9	0.03	0.04	0.13	0.08	0.15	0.36	0.38	0.31	0.13	0.11	0.09	0.08		
10	0.02	0.09	0.10	0.08	0.15	0.28	0.56	0.30	0.13	0.11	0.09	0.08		
11	0.02	0.07	0.13	0.08	0.19	0.26	0.45	0.26	0.13	0.11	0.09	0.08		
12	0.02	0.10	0.14	0.08	0.29	0.60	0.45	0.26	0.13	0.11	0.09	0.08		
13	0.02	0.15	0.13	0.08	0.19	4.38	0.39	0.25	0.13	0.11	0.09	0.08		
14	0.02	0.15	0.10	0.08	0.19	6.41	0.36	0.24	0.13	0.11	0.09	0.08		
15	0.02	0.15	0.10	0.07	0.19	4.67	0.30	0.24	0.13	0.11	0.09	0.08		
16	0.02	0.18	0.10	0.07	0.18	0.94	0.29	0.24	0.13	0.11	0.09	0.07		
17	0.01	0.10	0.10	0.08	0.18	0.53	0.29	0.24	0.13	0.11	0.08	0.07		
18	0.01	0.10	0.10	0.08	0.18	0.45	0.28	0.23	0.13	0.11	0.08	0.07		
19	0.01	0.10	0.10	0.08	0.17	0.45	0.28	0.23	0.13	0.11	0.08	0.07		
20	0.01	0.10	0.10	0.08	0.15	0.56	0.26	0.20	0.13	0.11	0.08	0.07		
21	0.01	0.10	0.10	0.08	0.15	0.64	0.26	0.20	0.13	0.10	0.08	0.07		
22	0.01	0.10	0.09	0.23	0.16	0.39	0.26	0.19	0.13	0.10	0.08	0.07		
23	0.01	0.10	0.09	0.17	0.16	0.36	0.23	0.19	0.13	0.10	0.08	0.07		
24	0.01	0.10	0.09	0.26	0.15	0.33	0.23	0.19	0.13	0.10	0.08	0.07		
25	0.01	0.10	0.08	0.13	0.15	0.26	0.40	0.18	0.13	0.10	0.08	0.07		
26	0.01	0.10	0.07	0.13	0.18	0.30	0.30	0.18	0.13	0.10	0.08	0.07		
27	0.00	0.10	0.07	0.15	0.20	0.33	0.29	0.16	0.13	0.10	0.08	0.07		
28	0.00	0.10	0.07	0.15	0.18	0.26	0.28	0.15	0.13	0.10	0.08	0.07		
29	0.00	0.10	0.07	0.21	0.14	0.26	0.29	0.15	0.13	0.10		0.07		
30	0.00	0.10	0.07	0.43	0.13	0.26	0.28	0.15	0.13	0.10		0.07		
31		0.10		0.21	0.12		0.26		0.13	0.10		0.07		
Total	0.51	2.68	3.12	3.65	5.08	33.03	11.70	13.16	4.08	3.35	2.44	2.32	85.12	CMSDAY
Mean	0.02	0.09	0.10	0.12	0.16	1.10	0.38	0.44	0.13	0.11	0.09	0.07	0.23	CMS
Max	0.03	0.18	0.19	0.43	0.29	7.65	1.05	4.09	0.14	0.12	0.10	0.08	7.65	CMS
Min	0.00	0.01	0.07	0.07	0.11	0.15	0.17	0.15	0.13	0.10	0.08	0.07	0.00	CMS
Runoff	0.04	0.23	0.27	0.32	0.44	2.85	1.01	1.14	0.35	0.29	0.21	0.20	7.35	MCM

Momentary Peak 11.15 CMS. at 2.30 m. (A.D.) at 06.00 Hours , on Sep 15, 2008

Runoff Yield 4.09 Liters/Second/Square KM. Momentary Peak Yield 195.61 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1983 to date
Rated by Float	-
Rated by Current Meter	1983 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The carcass of the bridge is near the gage site. Stage-discharge relation defined by 26 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

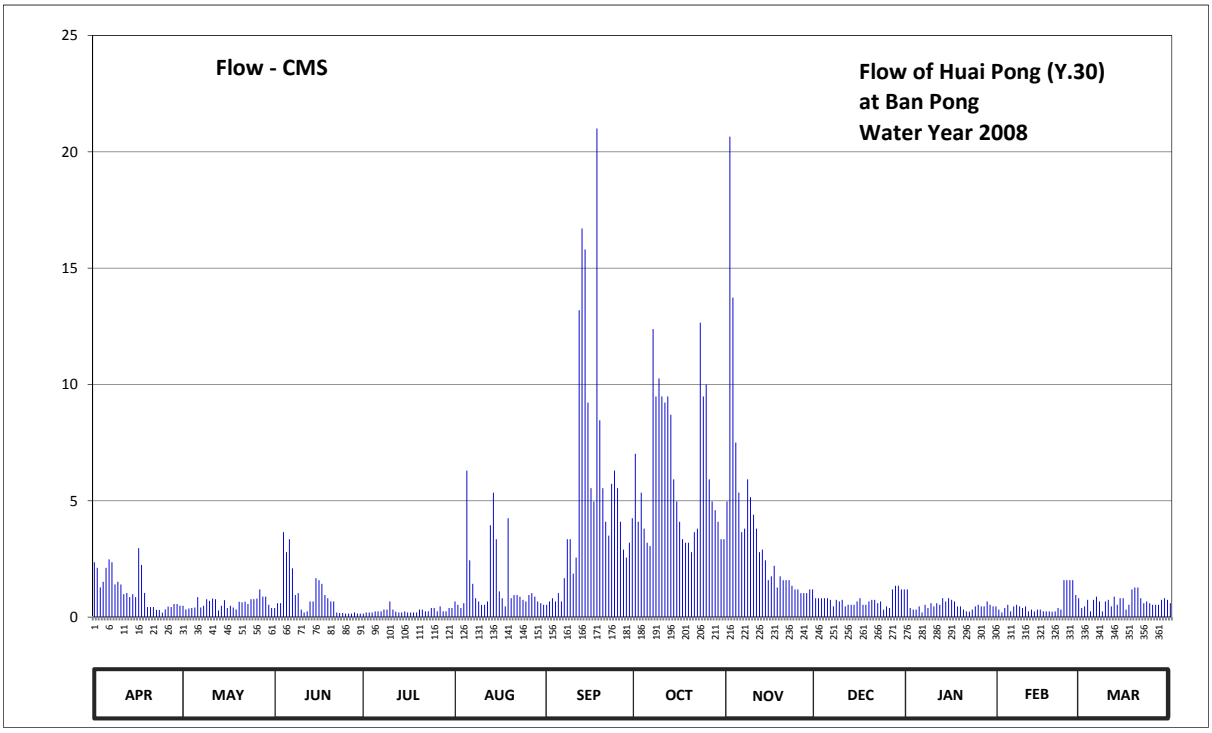
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	266.38	266.11	265.92	265.86	265.96	265.94	266.43	266.33	265.98	266.03	265.91	265.92	
2	266.36	266.04	265.95	265.88	265.94	265.96	266.28	266.91	265.98	265.92	265.88	265.93	
3	266.28	266.06	265.95	265.88	265.92	265.98	266.35	266.69	265.98	265.91	265.92	265.97	
4	266.31	266.07	266.25	265.88	265.95	265.96	266.26	266.45	265.98	265.91	265.94	265.90	
5	266.36	266.08	266.19	265.90	266.40	266.01	266.22	266.35	265.98	265.93	265.90	265.97	
6	266.39	266.21	266.23	265.90	266.16	265.96	266.21	266.25	265.97	265.88	265.93	265.99	
7	266.38	266.08	266.13	265.90	266.06	266.09	266.64	266.26	265.93	265.94	265.94	265.96	
8	266.30	266.11	266.00	265.91	265.98	266.23	266.53	266.38	265.97	265.92	265.93	265.90	
9	266.31	266.19	266.01	265.91	265.96	266.23	266.56	266.34	265.96	265.95	265.92	265.96	
10	266.30	266.17	265.91	265.96	265.94	266.11	266.53	266.30	265.97	265.93	265.93	265.97	
11	266.23	266.20	265.88	265.91	265.94	266.17	266.52	266.26	265.93	265.95	265.90	265.93	
12	266.24	266.19	265.90	265.89	265.96	266.67	266.53	266.19	265.94	265.94	265.91	265.99	
13	266.21	266.02	265.96	265.88	266.27	266.79	266.50	266.20	265.94	265.98	265.90	265.94	
14	266.23	266.11	265.96	265.88	266.35	266.76	266.38	266.16	265.94	265.96	265.91	265.98	
15	266.21	266.18	266.09	265.90	266.23	266.52	266.33	266.08	265.96	265.98	265.91	265.98	
16	266.42	266.07	266.08	265.88	266.02	266.36	266.28	266.10	265.98	265.97	265.90	265.91	
17	266.37	266.11	266.06	265.88	265.98	266.33	266.23	266.14	265.94	265.96	265.90	265.94	
18	266.24	266.08	266.00	265.88	265.93	266.92	266.22	266.04	265.94	265.93	265.90	266.03	
19	266.09	266.04	265.98	265.88	266.29	266.49	266.22	266.10	265.96	265.93	265.89	266.04	
20	266.09	266.16	265.96	265.91	265.98	266.36	266.19	266.08	265.97	265.91	265.90	266.04	
21	266.09	266.15	265.96	265.91	266.00	266.28	266.25	266.08	265.97	265.90	265.92	265.98	
22	266.03	266.16	265.88	265.90	266.00	266.24	266.26	266.08	265.95	265.89	265.91	265.95	
23	266.03	266.13	265.87	265.90	265.99	266.37	266.65	266.05	265.96	265.91	266.08	265.96	
24	265.96	266.19	265.87	265.92	265.97	266.40	266.53	266.03	265.91	265.93	266.08	265.95	
25	266.04	266.19	265.86	265.92	265.96	266.36	266.55	266.03	265.93	265.94	266.08	265.94	
26	266.10	266.20	265.86	265.90	266.00	266.28	266.38	266.01	265.92	265.93	266.08	265.94	
27	266.09	266.03	265.86	265.93	266.01	266.20	266.33	266.01	266.03	265.93	266.00	265.94	
28	266.13	265.99	265.88	265.90	265.99	266.17	266.31	266.01	266.05	265.96	265.98	265.97	
29	266.13	265.99	265.86	265.90	265.96	266.22	266.28	266.03	266.05	265.94		265.98	
30	266.11	265.94	265.86	265.92	265.95	266.29	266.23	266.03	266.03	265.93		265.97	
31		265.92		265.92	265.94		266.23		266.03	265.93		265.95	
Mean	266.21	266.10	265.97	265.90	266.03	266.29	266.37	266.20	265.97	265.94	265.94	265.96	
Max	266.42	266.21	266.25	265.96	266.40	266.92	266.65	266.91	266.05	266.03	266.08	266.04	266.92
Min	265.96	265.92	265.86	265.86	265.92	265.94	266.19	266.01	265.91	265.88	265.88	265.90	265.86

Annual Max Momentary Gage Height 267.30 m. (MSL.) , at 12.00 Hours , on Sep 18, 2008

Zero Gage at Bottom Elevation 265.63 m. (MSL.) , River Bed 265.62 m. (MSL.)

Left Bank Elevation 273.91 m. (MSL.) ,

Right Bank Elevation 273.87 m. (MSL.) , Drainage Are 325 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.36	0.49	0.39	0.15	0.67	0.53	7.02	4.97	0.81	1.19	0.32	0.39		
2	2.12	0.33	0.60	0.20	0.53	0.67	4.10	20.65	0.81	0.39	0.20	0.46		
3	1.28	0.37	0.60	0.20	0.39	0.81	5.35	13.73	0.81	0.32	0.39	0.74		
4	1.52	0.39	3.65	0.20	0.60	0.67	3.80	7.50	0.81	0.32	0.53	0.25		
5	2.12	0.41	2.79	0.25	6.30	1.03	3.20	5.35	0.81	0.46	0.25	0.74		
6	2.48	0.86	3.35	0.25	2.44	0.67	3.05	3.65	0.74	0.20	0.46	0.88		
7	2.36	0.41	2.10	0.25	1.43	1.67	12.38	3.80	0.46	0.53	0.53	0.67		
8	1.40	0.49	0.95	0.32	0.81	3.35	9.48	5.92	0.74	0.39	0.46	0.25		
9	1.52	0.77	1.03	0.32	0.67	3.35	10.26	5.16	0.67	0.60	0.39	0.67		
10	1.40	0.70	0.32	0.67	0.53	1.87	9.48	4.40	0.74	0.46	0.46	0.74		
11	0.98	0.80	0.20	0.32	0.53	2.56	9.22	3.80	0.46	0.60	0.25	0.46		
12	1.04	0.77	0.25	0.23	0.67	13.19	9.48	2.79	0.53	0.53	0.32	0.88		
13	0.86	0.29	0.67	0.20	3.95	16.70	8.70	2.90	0.53	0.81	0.25	0.53		
14	0.98	0.49	0.67	0.20	5.35	15.80	5.92	2.44	0.53	0.67	0.32	0.81		
15	0.86	0.73	1.67	0.25	3.35	9.22	4.97	1.59	0.67	0.81	0.32	0.81		
16	2.96	0.39	1.59	0.20	1.11	5.54	4.10	1.75	0.81	0.74	0.25	0.32		
17	2.24	0.49	1.43	0.20	0.81	4.97	3.35	2.21	0.53	0.67	0.25	0.53		
18	1.04	0.41	0.95	0.20	0.46	21.00	3.20	1.27	0.53	0.46	0.25	1.19		
19	0.43	0.33	0.81	0.20	4.25	8.46	3.20	1.75	0.67	0.46	0.23	1.27		
20	0.43	0.66	0.67	0.32	0.81	5.54	2.79	1.59	0.74	0.32	0.25	1.27		
21	0.43	0.63	0.67	0.32	0.95	4.10	3.65	1.59	0.74	0.25	0.39	0.81		
22	0.31	0.66	0.20	0.25	0.95	3.50	3.80	1.59	0.60	0.23	0.32	0.60		
23	0.31	0.56	0.18	0.25	0.88	5.73	12.65	1.35	0.67	0.32	1.59	0.67		
24	0.19	0.77	0.18	0.39	0.74	6.30	9.48	1.19	0.32	0.46	1.59	0.60		
25	0.33	0.77	0.15	0.39	0.67	5.54	10.00	1.19	0.46	0.53	1.59	0.53		
26	0.45	0.80	0.15	0.25	0.95	4.10	5.92	1.03	0.39	0.46	1.59	0.53		
27	0.43	1.19	0.15	0.46	1.03	2.90	4.97	1.03	1.19	0.46	0.95	0.53		
28	0.56	0.88	0.20	0.25	0.88	2.56	4.59	1.03	1.35	0.67	0.81	0.74		
29	0.56	0.88	0.15	0.25	0.67	3.20	4.10	1.19	1.35	0.53		0.81		
30	0.49	0.53	0.15	0.39	0.60	4.25	3.35	1.19	1.19	0.46		0.74		
31		0.39		0.39	0.53		3.35		1.19	0.46		0.60		
Total	34.44	18.64	26.87	8.72	44.51	159.78	188.91	109.60	22.85	15.76	15.51	21.02	666.61	CMSDAY
Mean	1.15	0.60	0.90	0.28	1.44	5.33	6.09	3.65	0.74	0.51	0.55	0.68	1.83	CMS
Max	2.96	1.19	3.65	0.67	6.30	21.00	12.65	20.65	1.35	1.19	1.59	1.27	21.00	CMS
Min	0.19	0.29	0.15	0.15	0.39	0.53	2.79	1.03	0.32	0.20	0.20	0.25	0.15	CMS
Runoff	2.98	1.61	2.32	0.75	3.85	13.80	16.32	9.47	1.97	1.36	1.34	1.82	57.60	MCM

Momentary Peak 35.80 CMS. at 267.30 m. (MSL.) at 12.00 Hours , on Sep 18, 2008

Runoff Yield 5.62 Liters/Second/Square KM. Momentary Peak Yield 110.15 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	1,981 sq.km.
Type of Gage	Staff gage.
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the islet about 200 meters dowmstream from the gage site. Stage-discharge relation defined by 12 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

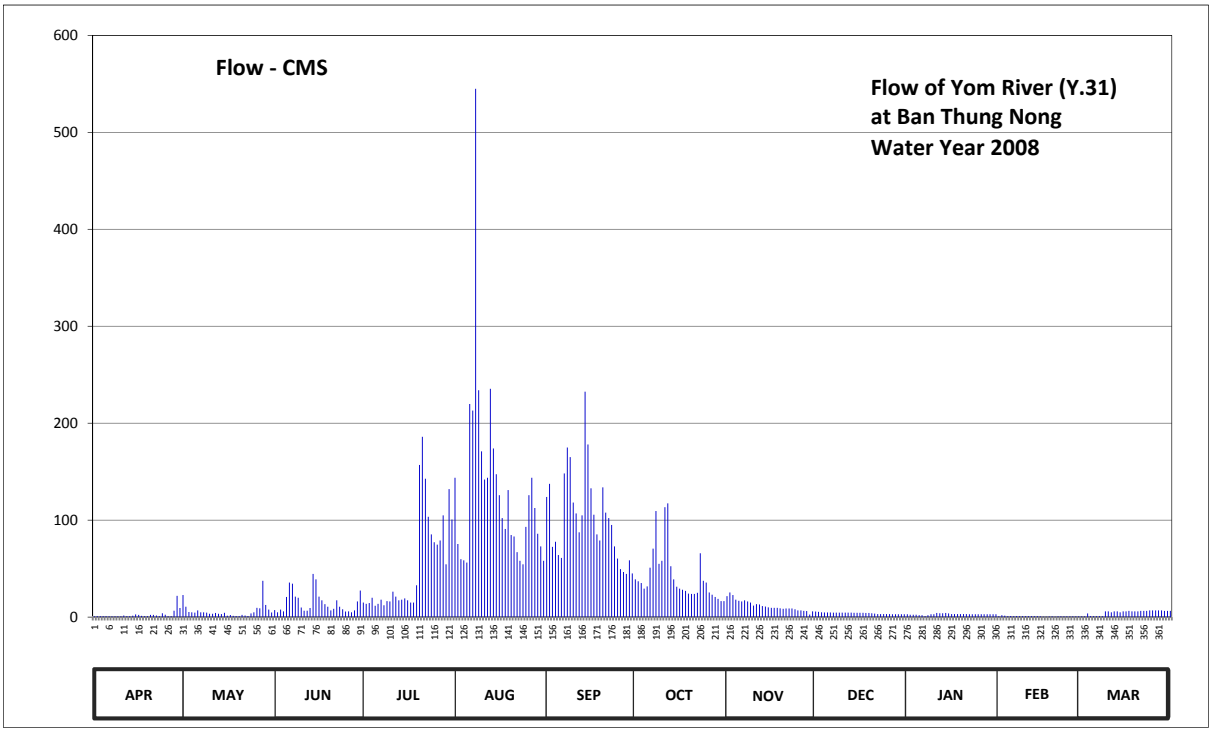
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	257.72	258.67	258.21	258.47	260.63	260.41	259.07	258.64	258.14	258.00	257.80	257.70	
2	257.78	258.34	258.10	258.44	259.74	260.56	259.03	258.74	258.12	257.95	257.90	257.70	
3	257.78	258.11	258.23	258.46	259.48	259.69	258.99	258.67	258.10	257.95	257.85	258.04	
4	257.78	258.10	258.15	258.60	259.46	259.78	258.84	258.55	258.09	257.95	257.80	257.80	
5	257.78	258.08	258.62	258.38	259.42	259.55	258.90	258.52	258.09	257.90	257.81	257.80	
6	257.74	258.20	259.00	258.44	261.32	259.50	259.32	258.50	258.09	257.90	257.80	257.80	
7	257.71	258.10	258.97	258.55	261.27	260.68	259.66	258.53	258.08	257.80	257.81	257.80	
8	257.72	258.10	258.63	258.40	262.70	260.95	260.23	258.50	258.08	257.90	257.80	257.80	
9	257.71	258.08	258.60	258.51	261.42	260.85	259.40	258.47	258.08	258.00	257.80	258.15	
10	257.72	258.02	258.31	258.50	260.91	260.34	259.45	258.39	258.08	258.00	257.80	258.15	
11	257.87	258.02	258.18	258.76	260.61	260.20	260.28	258.43	258.08	258.06	257.80	258.10	
12	257.78	258.06	258.18	258.63	260.63	259.92	260.33	258.42	258.08	258.05	257.80	258.15	
13	257.76	258.02	258.29	258.53	261.43	260.17	259.35	258.37	258.08	258.05	257.80	258.15	
14	257.86	258.01	259.19	258.55	260.94	261.41	259.07	258.35	258.07	258.06	257.80	258.10	
15	257.98	258.07	259.07	258.58	260.67	260.98	258.89	258.32	258.07	258.04	257.70	258.15	
16	257.94	257.85	258.63	258.53	260.43	260.51	258.84	258.30	258.07	258.01	257.60	258.15	
17	257.84	257.92	258.53	258.47	260.13	260.18	258.81	258.30	258.07	258.01	257.60	258.17	
18	257.79	257.83	258.43	258.47	259.97	259.89	258.78	258.30	258.06	258.01	257.67	258.15	
19	257.79	257.82	258.34	258.93	260.49	259.80	258.71	258.28	258.06	258.01	257.70	258.15	
20	257.94	257.80	258.20	260.77	259.88	260.52	258.70	258.26	258.05	258.01	257.60	258.15	
21	257.94	257.94	258.26	261.05	259.86	260.21	258.70	258.27	258.03	258.01	257.70	258.17	
22	257.87	257.88	258.53	260.62	259.60	260.13	258.73	258.27	258.01	258.00	257.75	258.17	
23	257.79	257.82	258.34	260.15	259.45	260.03	259.58	258.27	258.01	258.00	257.70	258.17	
24	258.05	258.04	258.24	259.89	259.39	259.70	259.04	258.24	258.01	258.00	257.70	258.20	
25	257.95	258.10	258.14	259.77	260.00	259.49	259.00	258.20	258.01	258.00	257.70	258.20	
26	257.80	258.30	258.15	259.73	260.43	259.29	258.74	258.20	258.01	257.99	257.70	258.20	
27	257.80	258.28	258.10	259.80	260.63	259.23	258.68	258.17	258.00	257.99	257.70	258.20	
28	258.18	259.04	258.20	260.17	260.27	259.19	258.62	258.16	258.00	257.99	257.70	258.20	
29	258.65	258.41	258.50	259.39	259.90	259.46	258.57	257.96	258.00	258.00		258.17	
30	258.29	258.23	258.79	260.50	259.70	259.20	258.51	258.15	258.00	258.00		258.17	
31		258.09		260.11	259.45		258.51		258.00	257.99		258.17	
Mean	257.88	258.11	258.44	259.17	260.33	260.06	259.08	258.36	258.06	257.99	257.75	258.07	
Max	258.65	259.04	259.19	261.05	262.70	261.41	260.33	258.74	258.14	258.06	257.90	258.20	262.70
Min	257.71	257.80	258.10	258.38	259.39	259.19	258.51	257.96	258.00	257.80	257.60	257.70	257.60

Annual Max Momentary Gage Height 263.00 m. (MSL.) , at 06.00 Hours , on Aug 8, 2008

Zero Gage at Bottom Elevation 257.00 m. (MSL.) , River Bed 253.46 m. (MSL.)

Left Bank Elevation 267.38 m. (MSL.) ,

Right Bank Elevation 267.29 m. (MSL.) , Drainage Are 1,981 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.80	22.73	7.26	14.93	143.70	123.90	38.89	21.56	5.80	3.00	1.00	0.75		
2	0.95	10.64	5.00	13.76	75.40	137.40	37.01	25.46	5.40	2.45	1.90	0.75		
3	0.95	5.20	7.78	14.54	59.80	72.40	35.21	22.73	5.00	2.45	1.45	3.80		
4	0.95	5.00	6.00	20.00	58.60	77.80	29.36	18.05	4.80	2.45	1.00	1.00		
5	0.95	4.60	20.78	11.68	56.20	64.00	31.70	16.88	4.80	1.90	1.09	1.00		
6	0.85	7.00	35.60	13.76	219.80	61.00	51.00	16.10	4.80	1.90	1.00	1.00		
7	0.78	5.00	34.43	18.05	213.10	148.20	70.60	17.27	4.60	1.00	1.09	1.00		
8	0.80	5.00	21.17	12.20	545.00	175.00	109.40	16.10	4.60	1.90	1.00	1.00		
9	0.78	4.60	20.00	16.49	234.00	165.00	55.00	14.93	4.60	3.00	1.00	6.00		
10	0.80	3.40	9.86	16.10	171.00	118.20	58.00	11.94	4.60	3.00	1.00	6.00		
11	1.63	3.40	6.60	26.24	141.90	107.00	113.40	13.37	4.60	4.20	1.00	5.00		
12	0.95	4.20	6.60	21.17	143.70	87.40	117.40	12.98	4.60	4.00	1.00	6.00		
13	0.90	3.40	9.34	17.27	235.50	104.90	52.50	11.42	4.60	4.00	1.00	6.00		
14	1.54	3.20	44.53	18.05	174.00	232.50	38.89	10.90	4.40	4.20	1.00	5.00		
15	2.78	4.40	38.89	19.22	147.30	178.00	31.31	10.12	4.40	3.80	0.75	6.00		
16	2.34	1.45	21.17	17.27	125.70	132.90	29.36	9.60	4.40	3.20	0.50	6.00		
17	1.36	2.12	17.27	14.93	102.10	105.60	28.19	9.60	4.40	3.20	0.50	6.40		
18	0.98	1.27	13.37	14.93	90.90	85.30	27.02	9.60	4.20	3.20	0.68	6.00		
19	0.98	1.18	10.64	32.87	131.10	79.00	24.29	9.08	4.20	3.20	0.75	6.00		
20	2.34	1.00	7.00	157.00	84.60	133.80	23.90	8.56	4.00	3.20	0.50	6.00		
21	2.34	2.34	8.56	186.00	83.20	107.80	23.90	8.82	3.60	3.20	0.75	6.40		
22	1.63	1.72	17.27	142.80	67.00	102.10	25.07	8.82	3.20	3.00	0.88	6.40		
23	0.98	1.18	10.64	103.50	58.00	95.10	65.80	8.82	3.20	3.00	0.75	6.40		
24	4.00	3.80	8.04	85.30	54.50	73.00	37.48	8.04	3.20	3.00	0.75	7.00		
25	2.45	5.00	5.80	77.20	93.00	60.40	35.60	7.00	3.20	3.00	0.75	7.00		
26	1.00	9.60	6.00	74.80	125.70	49.50	25.46	7.00	3.20	2.89	0.75	7.00		
27	1.00	9.08	5.00	79.00	143.70	46.50	23.12	6.40	3.00	2.89	0.75	7.00		
28	6.60	37.48	7.00	104.90	112.60	44.53	20.78	6.20	3.00	2.89	0.75	7.00		
29	21.95	12.59	16.10	54.50	86.00	58.60	18.83	2.56	3.00	3.00		6.40		
30	9.34	7.78	27.41	132.00	73.00	45.00	16.49	6.00	3.00	3.00		6.40		
31		4.80		100.70	58.00		16.49		3.00	2.89		6.40		
Total	75.70	194.16	455.11	1631.16	4108.10	3071.83	1311.45	355.91	127.40	92.01	25.34	154.10	11602.27	CMSDAY
Mean	2.52	6.26	15.17	52.62	132.52	102.39	42.30	11.86	4.11	2.97	0.91	4.97	31.79	CMS
Max	21.95	37.48	44.53	186.00	545.00	232.50	117.40	25.46	5.80	4.20	1.90	7.00	545.00	CMS
Min	0.78	1.00	5.00	11.68	54.50	44.53	16.49	2.56	3.00	1.00	0.50	0.75	0.50	CMS
Runoff	6.54	16.78	39.32	140.93	354.94	265.41	113.31	30.75	11.01	7.95	2.19	13.31	1002.44	MCM

Momentary Peak 660.00 CMS. at 263.00 m. (MSL.) at 06.00 Hours , on Aug 8, 2008

Runoff Yield 16.05 Liters/Second/Square KM. Momentary Peak Yield 333.17 Liters/Second/Square KM.

WATER YEAR : 2008

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.

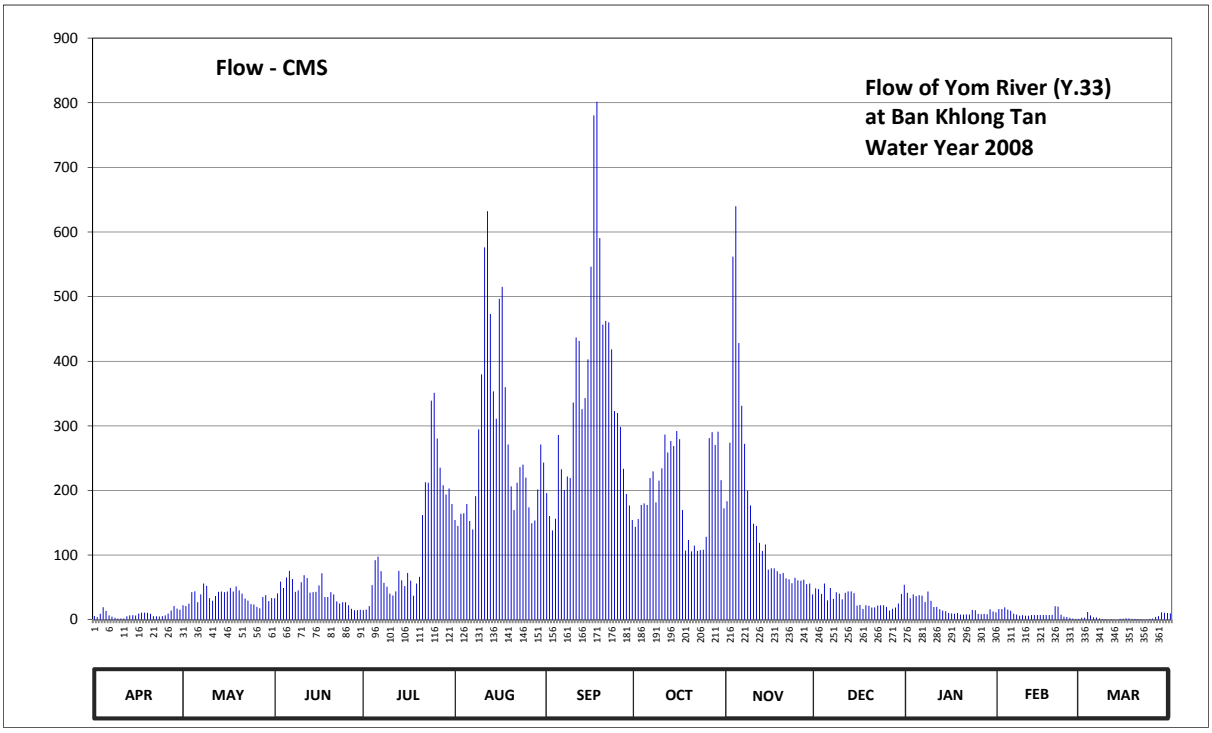
Ban Khlong Tan **Amphoe** Si Samrong **Changwat** Sukhothai

Drainge 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 mean of 5 readings
Period of Available Gage Records	1990 to date
Rating Operation	
Period of Rating	1990 to date
Rated by Float	-
Rated by Current Meter	1990 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the temporary weir about 500 meters dowmstream from the gage site. Stage-discharge relation defined by 16 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	46.69	47.26	47.53	47.03	49.69	50.25	49.54	50.09	47.89	47.74	47.08	46.55	
2	46.60	47.23	47.72	47.06	49.56	49.78	49.71	51.20	47.87	47.53	47.08	46.56	
3	46.84	47.32	48.10	47.23	49.83	49.46	50.02	53.83	47.70	47.68	47.17	46.93	
4	47.18	47.77	47.90	47.99	49.84	49.72	50.05	54.43	48.04	47.61	47.06	46.74	
5	46.99	47.80	48.23	48.73	50.04	51.33	50.02	52.71	47.45	47.65	47.00	46.59	
6	46.74	47.38	48.43	48.82	49.67	50.71	50.54	51.81	47.90	47.63	46.84	46.58	
7	46.64	47.68	48.18	48.42	49.48	50.31	50.67	51.18	47.51	47.39	46.80	46.51	
8	46.55	48.04	47.78	48.06	50.19	50.57	50.07	50.30	47.76	47.79	46.72	46.46	
9	46.49	47.97	47.83	47.94	51.43	50.54	50.49	50.01	47.71	47.43	46.75	46.44	
10	46.50	47.53	48.08	47.71	52.27	51.86	50.73	49.61	47.49	47.19	46.72	46.42	
11	46.50	47.43	48.30	47.64	53.94	52.79	51.34	49.56	47.74	47.20	46.72	46.44	
12	46.66	47.62	48.21	47.80	54.37	52.74	51.03	49.16	47.80	47.07	46.77	46.42	
13	46.74	47.78	47.75	48.43	53.12	51.76	51.23	48.96	47.80	47.01	46.77	46.37	
14	46.75	47.79	47.77	48.14	52.03	51.93	51.14	49.12	47.73	46.97	46.77	46.48	
15	46.73	47.77	47.78	47.96	51.61	52.48	51.40	48.47	47.25	46.88	46.77	46.48	
16	46.85	47.79	47.98	48.37	53.32	53.71	51.26	48.51	47.27	46.86	46.77	46.52	
17	46.90	47.90	48.36	48.13	53.47	55.46	49.91	48.51	47.09	46.84	46.77	46.50	
18	46.90	47.79	47.58	47.63	52.09	55.61	48.97	48.42	47.26	46.88	46.76	46.47	
19	46.89	47.95	47.58	48.04	51.17	54.05	49.23	48.34	47.24	46.80	46.78	46.47	
20	46.84	47.83	47.77	48.25	50.38	52.97	48.95	48.37	47.16	46.80	47.22	46.45	
21	46.68	47.71	47.68	49.80	49.91	53.02	49.09	48.20	47.17	46.81	47.21	46.44	
22	46.66	47.52	47.41	50.46	50.45	53.00	48.96	48.17	47.25	46.80	46.79	46.42	
23	46.65	47.44	47.33	50.45	50.75	52.62	48.98	48.05	47.26	47.04	46.64	46.43	
24	46.68	47.30	47.38	51.89	50.80	51.73	48.99	48.22	47.26	47.02	46.61	46.47	
25	46.74	47.29	47.38	52.01	50.55	51.70	49.31	48.14	47.20	46.83	46.55	46.49	
26	46.85	47.20	47.26	51.27	49.97	51.47	51.28	48.13	47.01	46.82	46.49	46.62	
27	47.01	47.12	47.10	50.74	49.62	50.72	51.38	48.16	47.10	46.83	46.47	46.68	
28	47.23	47.58	47.02	50.40	49.68	50.23	51.16	48.02	47.16	46.82	46.47	46.92	
29	47.11	47.65	47.03	50.22	50.32	50.01	51.39	48.04	47.33	47.07		46.89	
30	47.05	47.42	47.05	50.34	51.17	49.69	50.50	47.68	47.70	46.96		46.88	
31		47.54		50.04	50.84		49.95		48.00	46.92		46.86	
Mean	46.79	47.59	47.72	48.94	51.02	51.74	50.24	49.45	47.49	47.12	46.81	46.56	
Max	47.23	48.04	48.43	52.01	54.37	55.61	51.40	54.43	48.04	47.79	47.22	46.93	55.61
Min	46.49	47.12	47.02	47.03	49.48	49.46	48.95	47.68	47.01	46.80	46.47	46.37	46.37

Annual Max Momentary Gage Height	55.93	m. (MSL.) ,	at 06.00 Hours , on Sep 18, 2008		
Zero Gage at Bottom Elevation	45.82	m. (MSL.) ,	River Bed	54.33	m. (MSL.)
Left Bank Elevation	66.17	m. (MSL.) ,			
Right Bank Elevation	66.16	m. (MSL.) ,	Drainage Are	13,948	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.80	22.40	33.20	14.90	154.30	196.00	143.80	183.20	48.50	41.60	16.40	3.00		
2	4.00	21.20	40.80	15.80	145.20	160.60	155.70	274.00	47.50	33.20	16.40	3.20		
3	9.20	24.80	59.00	21.20	164.10	138.20	177.60	561.90	40.00	39.20	19.10	11.90		
4	19.40	42.80	49.00	53.50	164.80	156.40	180.00	639.90	56.00	36.40	15.80	6.80		
5	13.70	44.00	65.50	92.13	179.20	285.70	177.60	428.10	30.00	38.00	14.00	3.80		
6	6.80	27.20	75.50	97.75	152.90	232.80	219.20	331.00	49.00	37.20	9.20	3.60		
7	4.80	39.20	63.00	75.00	139.60	200.80	229.60	272.20	32.40	27.60	8.00	2.20		
8	3.00	56.00	43.20	57.00	191.20	221.60	181.60	200.00	42.40	43.60	6.40	1.20		
9	1.80	52.50	45.50	51.00	294.70	219.20	215.20	176.80	40.40	29.20	7.00	0.80		
10	2.00	33.20	58.00	40.40	379.70	336.00	234.40	148.70	31.60	19.70	6.40	0.40		
11	2.00	29.20	69.00	37.60	576.20	436.90	286.60	145.20	41.60	20.00	6.40	0.80		
12	5.20	36.80	64.50	44.00	632.10	431.40	258.70	119.00	44.00	16.10	7.40	0.40		
13	6.80	43.20	42.00	75.50	473.20	326.00	276.70	106.50	44.00	14.30	7.40	0.00		
14	7.00	43.60	42.80	61.00	353.30	343.00	268.60	116.50	41.20	13.10	7.40	1.60		
15	6.60	42.80	43.20	52.00	311.00	402.80	292.00	77.50	22.00	10.40	7.40	1.60		
16	9.50	43.60	53.00	72.50	496.40	546.30	279.40	79.50	22.80	9.80	7.40	2.40		
17	11.00	49.00	72.00	60.50	515.10	780.40	169.70	79.50	16.70	9.20	7.40	2.00		
18	11.00	43.60	35.20	37.20	359.90	801.40	107.13	75.00	22.40	10.40	7.20	1.40		
19	10.70	51.50	35.20	56.00	271.30	590.50	123.38	71.00	21.60	8.00	7.60	1.40		
20	9.20	45.50	42.80	66.50	206.40	456.70	105.88	72.50	18.80	8.00	20.80	1.00		
21	5.60	40.40	39.20	162.00	169.70	462.20	114.63	64.00	19.10	8.30	20.40	0.80		
22	5.20	32.80	28.40	212.80	212.00	460.00	106.50	62.50	22.00	8.00	7.80	0.40		
23	5.00	29.60	25.20	212.00	236.00	418.20	107.75	56.50	22.40	15.20	4.80	0.60		
24	5.60	24.00	27.20	339.00	240.00	323.00	108.38	65.00	22.40	14.60	4.20	1.40		
25	6.80	23.60	27.20	351.10	220.00	320.00	128.38	61.00	20.00	8.90	3.00	1.80		
26	9.50	20.00	22.40	280.30	173.90	298.30	281.20	60.50	14.30	8.60	1.80	4.40		
27	14.30	17.60	17.00	235.20	149.40	233.60	290.20	62.00	17.00	8.90	1.40	5.60		
28	21.20	35.20	14.60	208.00	153.60	194.40	270.40	55.00	18.80	8.60	1.40	11.60		
29	17.30	38.00	14.90	193.60	201.60	176.80	291.10	56.00	25.20	16.10		10.70		
30	15.50	28.80	15.50	203.20	271.30	154.30	216.00	39.20	40.00	12.80		10.40		
31		33.60		179.20	243.20		172.50		54.00	11.60		9.80		
Total	255.50	1115.70	1264.00	3657.88	8431.30	10303.50	6169.83	4739.70	988.10	586.60	249.90	107.00	37869.01	CMSDAY
Mean	8.52	35.99	42.13	118.00	271.98	343.45	199.03	157.99	31.87	18.92	8.93	3.45	103.75	CMS
Max	21.20	56.00	75.50	351.10	632.10	801.40	292.00	639.90	56.00	43.60	20.80	11.90	801.40	CMS
Min	1.80	17.60	14.60	14.90	139.60	138.20	105.88	39.20	14.30	8.00	1.40	0.00	0.00	CMS
Runoff	22.08	96.40	109.21	316.04	728.46	890.22	533.07	409.51	85.37	50.68	21.59	9.24	3271.88	MCM

Momentary Peak 846.20 CMS. at 55.93 m. (MSL.) at 06.00 Hours , on Sep 18, 2008

Runoff Yield 7.44 Liters/Second/Square KM. Momentary Peak Yield 60.67 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	336 sq.km.
Type of Gage	Staff gage.
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** +161.734 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 mean of 5 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the temporary weir about 300 meters dowmstream from the gage site. Stage-discharge relation defined by 36 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

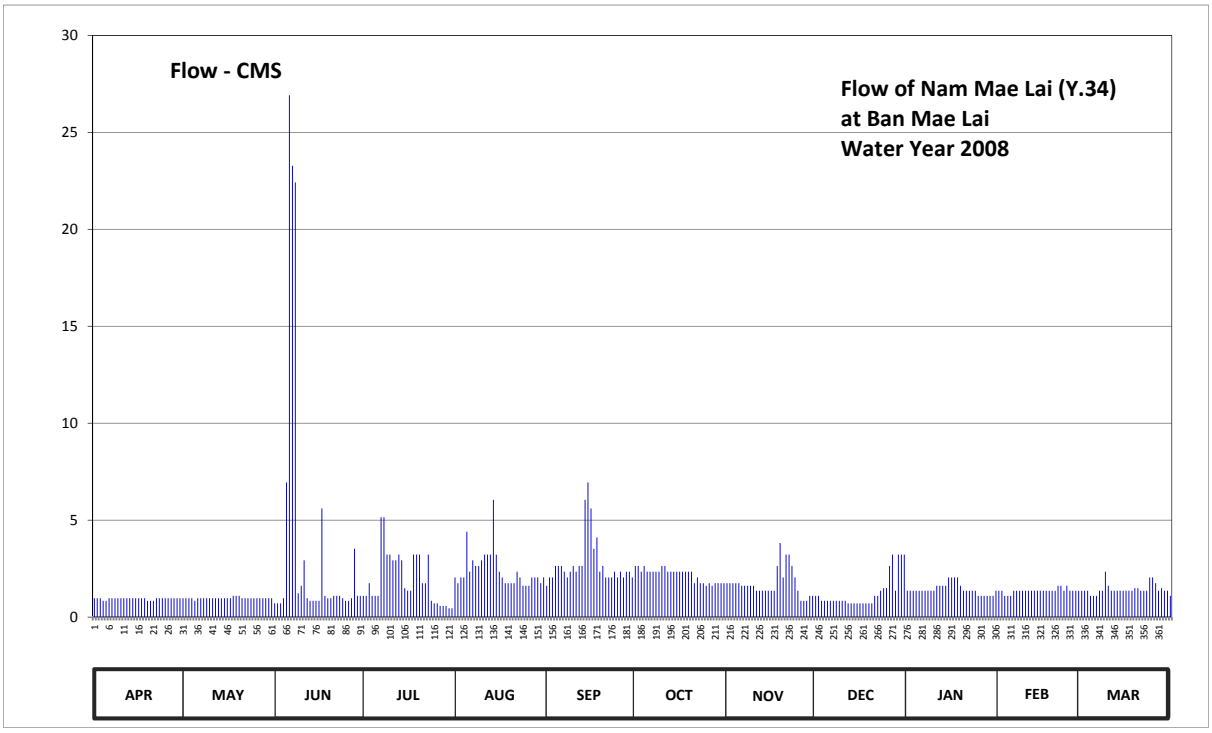
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	159.14	159.14	159.12	159.15	159.21	159.19	159.23	159.20	159.15	159.17	159.17	159.17	
2	159.14	159.14	159.12	159.15	159.20	159.21	159.23	159.20	159.15	159.17	159.17	159.17	
3	159.14	159.14	159.12	159.20	159.21	159.21	159.22	159.20	159.13	159.17	159.15	159.17	
4	159.13	159.14	159.14	159.15	159.21	159.23	159.23	159.20	159.13	159.17	159.15	159.15	
5	159.13	159.13	159.35	159.15	159.29	159.23	159.22	159.20	159.13	159.17	159.15	159.15	
6	159.14	159.14	159.62	159.15	159.22	159.23	159.22	159.19	159.13	159.17	159.17	159.15	
7	159.14	159.14	159.58	159.31	159.24	159.22	159.22	159.19	159.13	159.17	159.17	159.17	
8	159.14	159.14	159.57	159.31	159.23	159.21	159.22	159.19	159.13	159.17	159.17	159.17	
9	159.14	159.14	159.16	159.25	159.23	159.22	159.22	159.19	159.13	159.17	159.17	159.22	
10	159.14	159.14	159.19	159.25	159.24	159.23	159.23	159.19	159.13	159.17	159.17	159.19	
11	159.14	159.14	159.24	159.24	159.25	159.22	159.23	159.17	159.13	159.19	159.17	159.17	
12	159.14	159.14	159.14	159.24	159.25	159.23	159.22	159.17	159.12	159.19	159.17	159.17	
13	159.14	159.14	159.13	159.25	159.25	159.23	159.22	159.17	159.12	159.19	159.17	159.17	
14	159.14	159.14	159.13	159.24	159.33	159.33	159.22	159.17	159.12	159.19	159.17	159.17	
15	159.14	159.14	159.13	159.18	159.25	159.35	159.22	159.17	159.12	159.21	159.17	159.17	
16	159.14	159.14	159.13	159.17	159.22	159.32	159.22	159.17	159.12	159.21	159.17	159.17	
17	159.14	159.14	159.32	159.17	159.21	159.26	159.22	159.17	159.12	159.21	159.17	159.17	
18	159.14	159.15	159.15	159.25	159.20	159.28	159.22	159.23	159.12	159.21	159.17	159.17	
19	159.13	159.15	159.14	159.25	159.20	159.22	159.22	159.27	159.12	159.19	159.17	159.18	
20	159.13	159.15	159.14	159.25	159.20	159.23	159.22	159.21	159.12	159.17	159.17	159.18	
21	159.13	159.14	159.15	159.20	159.20	159.21	159.20	159.25	159.15	159.17	159.19	159.17	
22	159.14	159.14	159.15	159.20	159.22	159.21	159.21	159.25	159.15	159.17	159.19	159.17	
23	159.14	159.14	159.15	159.25	159.21	159.21	159.20	159.23	159.17	159.17	159.17	159.17	
24	159.14	159.14	159.14	159.13	159.19	159.22	159.20	159.21	159.18	159.17	159.19	159.21	
25	159.14	159.14	159.13	159.12	159.19	159.21	159.19	159.17	159.18	159.15	159.17	159.21	
26	159.14	159.14	159.13	159.12	159.19	159.22	159.20	159.13	159.23	159.15	159.17	159.20	
27	159.14	159.14	159.14	159.11	159.21	159.21	159.19	159.13	159.25	159.15	159.17	159.17	
28	159.14	159.14	159.26	159.11	159.21	159.22	159.20	159.13	159.17	159.15	159.17	159.18	
29	159.14	159.14	159.15	159.11	159.21	159.22	159.20	159.15	159.25	159.15		159.17	
30	159.14	159.14	159.15	159.10	159.20	159.21	159.20	159.15	159.25	159.15		159.17	
31		159.14		159.10	159.21		159.20		159.25	159.17		159.15	
Mean	159.14	159.14	159.21	159.19	159.22	159.23	159.21	159.19	159.15	159.17	159.17	159.17	
Max	159.14	159.15	159.62	159.31	159.33	159.35	159.23	159.27	159.25	159.21	159.19	159.22	159.62
Min	159.13	159.13	159.12	159.10	159.19	159.19	159.19	159.13	159.12	159.15	159.15	159.15	159.10

Annual Max Momentary Gage Height 159.63 m. (MSL.) , at 06.00 Hours , on Jun 6, 2008

Zero Gage at Bottom Elevation 157.27 m. (MSL.) , River Bed 157.81 m. (MSL.)

Left Bank Elevation 167.46 m. (MSL.) ,

Right Bank Elevation 167.47 m. (MSL.) , Drainage Are 336 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.97	0.97	0.71	1.10	2.05	1.62	2.64	1.75	1.10	1.36	1.36	1.36		
2	0.97	0.97	0.71	1.10	1.75	2.05	2.64	1.75	1.10	1.36	1.36	1.36		
3	0.97	0.97	0.71	1.75	2.05	2.05	2.34	1.75	0.84	1.36	1.10	1.36		
4	0.84	0.97	0.97	1.10	2.05	2.64	2.64	1.75	0.84	1.36	1.10	1.10		
5	0.84	0.84	6.95	1.10	4.41	2.64	2.34	1.75	0.84	1.36	1.10	1.10		
6	0.97	0.97	26.92	1.10	2.34	2.64	2.34	1.62	0.84	1.36	1.36	1.10		
7	0.97	0.97	23.28	5.15	2.93	2.34	2.34	1.62	0.84	1.36	1.36	1.36		
8	0.97	0.97	22.42	5.15	2.64	2.05	2.34	1.62	0.84	1.36	1.36	1.36		
9	0.97	0.97	1.23	3.23	2.64	2.34	2.34	1.62	0.84	1.36	1.36	2.34		
10	0.97	0.97	1.62	3.23	2.93	2.64	2.64	1.62	0.84	1.36	1.36	1.62		
11	0.97	0.97	2.93	2.93	3.23	2.34	2.64	1.36	0.84	1.62	1.36	1.36		
12	0.97	0.97	0.97	2.93	3.23	2.64	2.34	1.36	0.71	1.62	1.36	1.36		
13	0.97	0.97	0.84	3.23	3.23	2.64	2.34	1.36	0.71	1.62	1.36	1.36		
14	0.97	0.97	0.84	2.93	6.05	6.05	2.34	1.36	0.71	1.62	1.36	1.36		
15	0.97	0.97	0.84	1.49	3.23	6.95	2.34	1.36	0.71	2.05	1.36	1.36		
16	0.97	0.97	0.84	1.36	2.34	5.60	2.34	1.36	0.71	2.05	1.36	1.36		
17	0.97	0.97	5.60	1.36	2.05	3.52	2.34	1.36	0.71	2.05	1.36	1.36		
18	0.97	1.10	1.10	3.23	1.75	4.11	2.34	2.64	0.71	2.05	1.36	1.36		
19	0.84	1.10	0.97	3.23	1.75	2.34	2.34	3.82	0.71	1.62	1.36	1.49		
20	0.84	1.10	0.97	3.23	1.75	2.64	2.34	2.05	0.71	1.36	1.36	1.49		
21	0.84	0.97	1.10	1.75	1.75	2.05	1.75	3.23	1.10	1.36	1.62	1.36		
22	0.97	0.97	1.10	1.75	2.34	2.05	2.05	3.23	1.10	1.36	1.62	1.36		
23	0.97	0.97	1.10	3.23	2.05	2.05	1.75	2.64	1.36	1.36	1.36	1.36		
24	0.97	0.97	0.97	0.84	1.62	2.34	1.75	2.05	1.49	1.36	1.62	2.05		
25	0.97	0.97	0.84	0.71	1.62	2.05	1.62	1.36	1.49	1.10	1.36	2.05		
26	0.97	0.97	0.84	0.71	1.62	2.34	1.75	0.84	2.64	1.10	1.36	1.75		
27	0.97	0.97	0.97	0.58	2.05	2.05	1.62	0.84	3.23	1.10	1.36	1.36		
28	0.97	0.97	3.52	0.58	2.05	2.34	1.75	0.84	1.36	1.10	1.36	1.49		
29	0.97	0.97	1.10	0.58	2.05	2.34	1.75	1.10	3.23	1.10		1.36		
30	0.97	0.97	1.10	0.45	1.75	2.05	1.75	1.10	3.23	1.10		1.36		
31		0.97		0.45	2.05		1.75		3.23	1.36		1.10		
Total	28.45	30.33	114.06	61.56	75.35	83.50	67.59	52.11	39.61	44.66	38.08	44.52	679.82	CMSDAY
Mean	0.95	0.98	3.80	1.99	2.43	2.78	2.18	1.74	1.28	1.44	1.36	1.44	1.86	CMS
Max	0.97	1.10	26.92	5.15	6.05	6.95	2.64	3.82	3.23	2.05	1.62	2.34	26.92	CMS
Min	0.84	0.84	0.71	0.45	1.62	1.62	1.62	0.84	0.71	1.10	1.10	1.10	0.45	CMS
Runoff	2.46	2.62	9.85	5.32	6.51	7.21	5.84	4.50	3.42	3.86	3.29	3.85	58.74	MCM

Momentary Peak 27.88 CMS. at 159.63 m. (MSL.) at 06.00 Hours , on Jun 6, 2008

Runoff Yield 5.54 Liters/Second/Square KM. Momentary Peak Yield 82.98 Liters/Second/Square KM.

WATER YEAR : 2008

YOM RIVER BASIN

Nam Khuan at Ban Pa Kha , Phayao (Y.36)

Lat 19 - 09 - 24 N Long 100 - 19 - 36 E

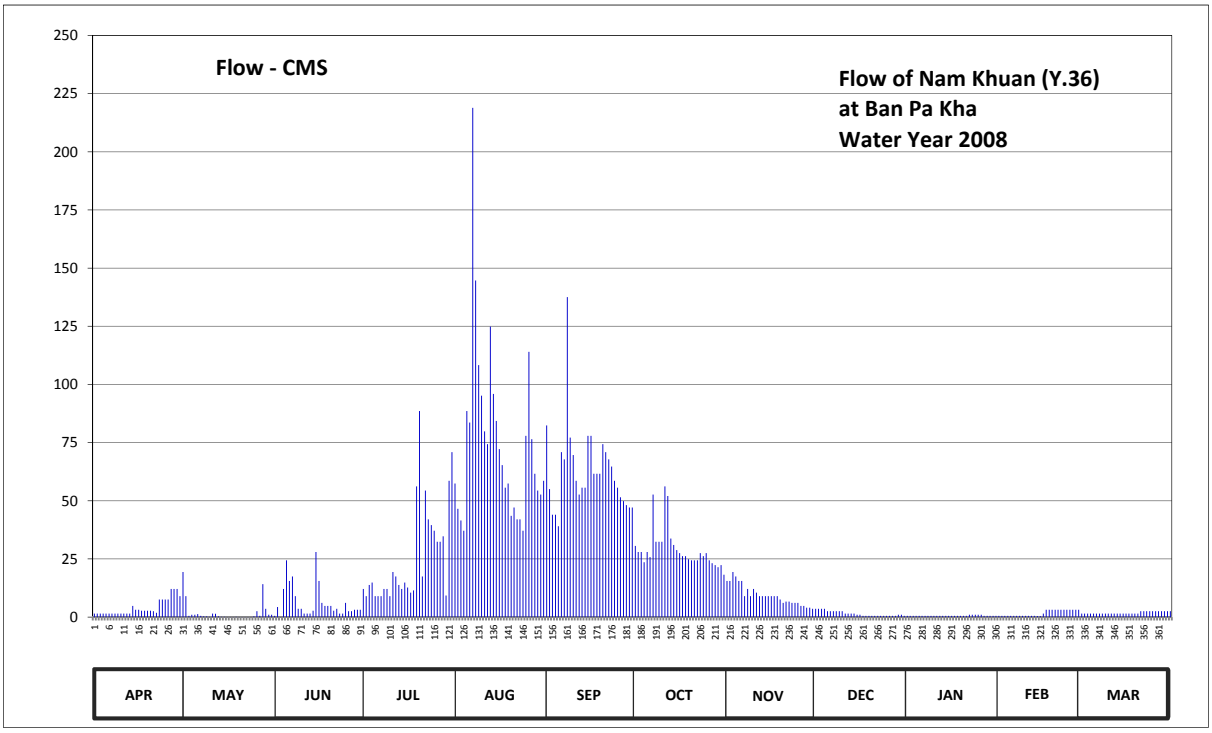
Location : on left bank at the bridge.

	Ban Pa Kha	**Amphoe** Pong	**Changwat** Phayao
Drainge Area	853 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+298.586 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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Float	-		
Rated by Current Meter	1998 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 islet at the gage site.		
	Stage-discharge relation defined by 12 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	300.29	300.89	300.19	300.69	301.67	302.06	301.15	300.79	300.39	300.19	300.19	300.29	
2	300.29	300.59	300.42	300.59	301.48	301.63	301.09	300.79	300.39	300.19	300.19	300.29	
3	300.29	300.19	300.04	300.74	301.38	301.43	301.09	300.89	300.39	300.19	300.19	300.29	
4	300.29	300.24	300.69	300.77	301.29	301.43	300.99	300.84	300.39	300.19	300.19	300.29	
5	300.29	300.24	301.01	300.59	302.15	301.33	301.09	300.79	300.34	300.19	300.19	300.29	
6	300.29	300.27	300.79	300.59	302.08	301.89	301.04	300.79	300.34	300.19	300.19	300.29	
7	300.29	300.19	300.84	300.59	303.59	301.84	301.59	300.59	300.34	300.19	300.19	300.29	
8	300.29	300.15	300.59	300.69	302.83	302.75	301.19	300.69	300.34	300.19	300.19	300.29	
9	300.29	300.15	300.39	300.69	302.41	301.98	301.19	300.59	300.34	300.19	300.19	300.29	
10	300.29	300.09	300.39	300.59	302.24	301.87	301.19	300.69	300.34	300.19	300.19	300.29	
11	300.29	300.29	300.29	300.89	302.02	301.69	301.65	300.64	300.29	300.19	300.19	300.29	
12	300.29	300.28	300.29	300.84	301.94	301.59	301.58	300.59	300.29	300.19	300.19	300.29	
13	300.29	300.14	300.29	300.74	302.61	301.64	301.22	300.59	300.29	300.19	300.19	300.29	
14	300.44	300.10	300.35	300.69	302.25	301.64	301.16	300.59	300.29	300.19	300.18	300.29	
15	300.37	300.08	301.09	300.77	302.09	301.99	301.11	300.59	300.24	300.19	300.18	300.29	
16	300.37	300.06	300.79	300.71	301.91	301.99	301.08	300.59	300.24	300.19	300.29	300.29	
17	300.35	300.05	300.49	300.64	301.80	301.74	301.05	300.59	300.19	300.19	300.37	300.29	
18	300.35	300.05	300.44	300.67	301.64	301.74	301.05	300.59	300.19	300.19	300.37	300.29	
19	300.35	300.07	300.44	301.65	301.67	301.74	301.02	300.54	300.19	300.19	300.37	300.29	
20	300.35	300.05	300.44	302.15	301.42	301.94	301.01	300.49	300.19	300.19	300.37	300.29	
21	300.34	300.05	300.35	300.84	301.49	301.89	301.01	300.51	300.19	300.19	300.37	300.34	
22	300.31	300.04	300.39	301.62	301.39	301.84	301.01	300.51	300.19	300.24	300.37	300.34	
23	300.54	300.04	300.29	301.39	301.39	301.79	301.08	300.49	300.19	300.24	300.37	300.34	
24	300.54	300.04	300.29	301.34	301.29	301.69	301.05	300.49	300.19	300.24	300.37	300.34	
25	300.54	300.14	300.49	301.29	301.99	301.64	301.08	300.49	300.19	300.24	300.37	300.34	
26	300.54	300.34	300.34	301.19	302.48	301.57	301.01	300.44	300.19	300.24	300.37	300.34	
27	300.69	300.19	300.34	301.19	301.97	301.54	300.98	300.44	300.19	300.19	300.37	300.34	
28	300.69	300.75	300.37	301.24	301.74	301.51	300.96	300.41	300.19	300.19	300.37	300.34	
29	300.69	300.39	300.37	300.60	301.62	301.49	300.94	300.41	300.24	300.19		300.34	
30	300.59	300.24	300.37	301.69	301.59	301.49	300.96	300.39	300.24	300.19		300.34	
31		300.24		301.89	301.69		300.86		300.19	300.19		300.34	
Mean	300.39	300.21	300.46	300.99	301.91	301.75	301.11	300.59	300.26	300.20	300.27	300.31	
Max	300.69	300.89	301.09	302.15	303.59	302.75	301.65	300.89	300.39	300.24	300.37	300.34	303.59
Min	300.29	300.04	300.04	300.59	301.29	301.33	300.86	300.39	300.19	300.19	300.18	300.29	300.04

Annual Max Momentary Gage Height	305.29	m. (MSL.) ,	at 18.00 Hours , on Aug 7, 2008		
Zero Gage at Bottom Elevation	298.59	m. (MSL.) ,	River Bed	298.68	m. (MSL.)
Left Bank Elevation	307.38	m. (MSL.) ,			
Right Bank Elevation	307.41	m. (MSL.) ,	Drainage Are	853	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.54	19.41	0.54	12.09	57.40	82.38	30.60	15.55	3.59	0.54	0.54	1.54		
2	1.54	9.01	4.32	9.01	46.58	55.00	27.96	15.55	3.59	0.54	0.54	1.54		
3	1.54	0.54	0.06	13.80	41.52	44.03	27.96	19.41	3.59	0.54	0.54	1.54		
4	1.54	1.01	12.09	14.85	37.12	44.03	23.58	17.46	3.59	0.54	0.54	1.54		
5	1.54	1.01	24.44	9.01	88.55	39.07	27.96	15.55	2.51	0.54	0.54	1.54		
6	1.54	1.33	15.55	9.01	83.64	70.88	25.76	15.55	2.51	0.54	0.54	1.54		
7	1.54	0.54	17.46	9.01	218.90	67.78	52.64	9.01	2.51	0.54	0.54	1.54		
8	1.54	0.37	9.01	12.09	144.70	137.50	32.36	12.09	2.51	0.54	0.54	1.54		
9	1.54	0.37	3.59	12.09	108.31	77.18	32.36	9.01	2.51	0.54	0.54	1.54		
10	1.54	0.14	3.59	9.01	95.20	69.64	32.36	12.09	2.51	0.54	0.54	1.54		
11	1.54	1.54	1.54	19.41	79.86	58.60	56.20	10.54	1.54	0.54	0.54	1.54		
12	1.54	1.44	1.54	17.46	74.34	52.64	52.08	9.01	1.54	0.54	0.54	1.54		
13	1.54	0.32	1.54	13.80	124.90	55.60	33.76	9.01	1.54	0.54	0.54	1.54		
14	4.84	0.15	2.73	12.09	95.95	55.60	31.04	9.01	1.54	0.54	0.49	1.54		
15	3.16	0.12	27.96	14.85	84.27	77.89	28.84	9.01	1.01	0.54	0.49	1.54		
16	3.16	0.09	15.55	12.75	72.21	77.89	27.52	9.01	1.01	0.54	1.54	1.54		
17	2.73	0.08	6.14	10.54	65.30	61.64	26.20	9.01	0.54	0.54	3.16	1.54		
18	2.73	0.08	4.84	11.47	55.60	61.64	26.20	9.01	0.54	0.54	3.16	1.54		
19	2.73	0.11	4.84	56.20	57.40	61.64	24.88	7.56	0.54	0.54	3.16	1.54		
20	2.73	0.08	4.84	88.55	43.52	74.34	24.44	6.14	0.54	0.54	3.16	1.54		
21	2.51	0.08	2.73	17.46	47.09	70.88	24.44	6.69	0.54	0.54	3.16	2.51		
22	1.87	0.06	3.59	54.40	42.01	67.78	24.44	6.69	0.54	1.01	3.16	2.51		
23	7.56	0.06	1.54	42.01	42.01	64.69	27.52	6.14	0.54	1.01	3.16	2.51		
24	7.56	0.06	1.54	39.56	37.12	58.60	26.20	6.14	0.54	1.01	3.16	2.51		
25	7.56	0.32	6.14	37.12	77.89	55.60	27.52	6.14	0.54	1.01	3.16	2.51		
26	7.56	2.51	2.51	32.36	113.98	51.52	24.44	4.84	0.54	1.01	3.16	2.51		
27	12.09	0.54	2.51	32.36	76.47	49.84	23.16	4.84	0.54	0.54	3.16	2.51		
28	12.09	14.15	3.16	34.72	61.64	48.16	22.32	4.06	0.54	0.54	3.16	2.51		
29	12.09	3.59	3.16	9.30	54.40	47.09	21.48	4.06	1.01	0.54		2.51		
30	9.01	1.01	3.16	58.60	52.64	47.09	22.32	3.59	1.01	0.54		2.51		
31		1.01		70.88	58.60		18.24		0.54	0.54		2.51		
Total	122.00	61.13	192.21	795.86	2339.12	1886.22	906.78	281.77	46.64	19.09	47.46	58.41	6756.69	CMSDAY
Mean	4.07	1.97	6.41	25.67	75.46	62.87	29.25	9.39	1.50	0.62	1.69	1.88	18.51	CMS
Max	12.09	19.41	27.96	88.55	218.90	137.50	56.20	19.41	3.59	1.01	3.16	2.51	218.90	CMS
Min	1.54	0.06	0.06	9.01	37.12	39.07	18.24	3.59	0.54	0.54	0.49	1.54	0.06	CMS
Runoff	10.54	5.28	16.61	68.76	202.10	162.97	78.35	24.34	4.03	1.65	4.10	5.05	583.78	MCM

Momentary Peak 414.80 CMS. at 305.29 m. (MSL.) at 18.00 Hours , on Aug 7, 2008

Runoff Yield 21.70 Liters/Second/Square KM. Momentary Peak Yield 486.28 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	10,305 sq.km.
Type of Gage	Staff gage.
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Float	-
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 good. The weir situated about 1 kilometer downstream from the gage site. Stage-discharge relation defined by 36 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

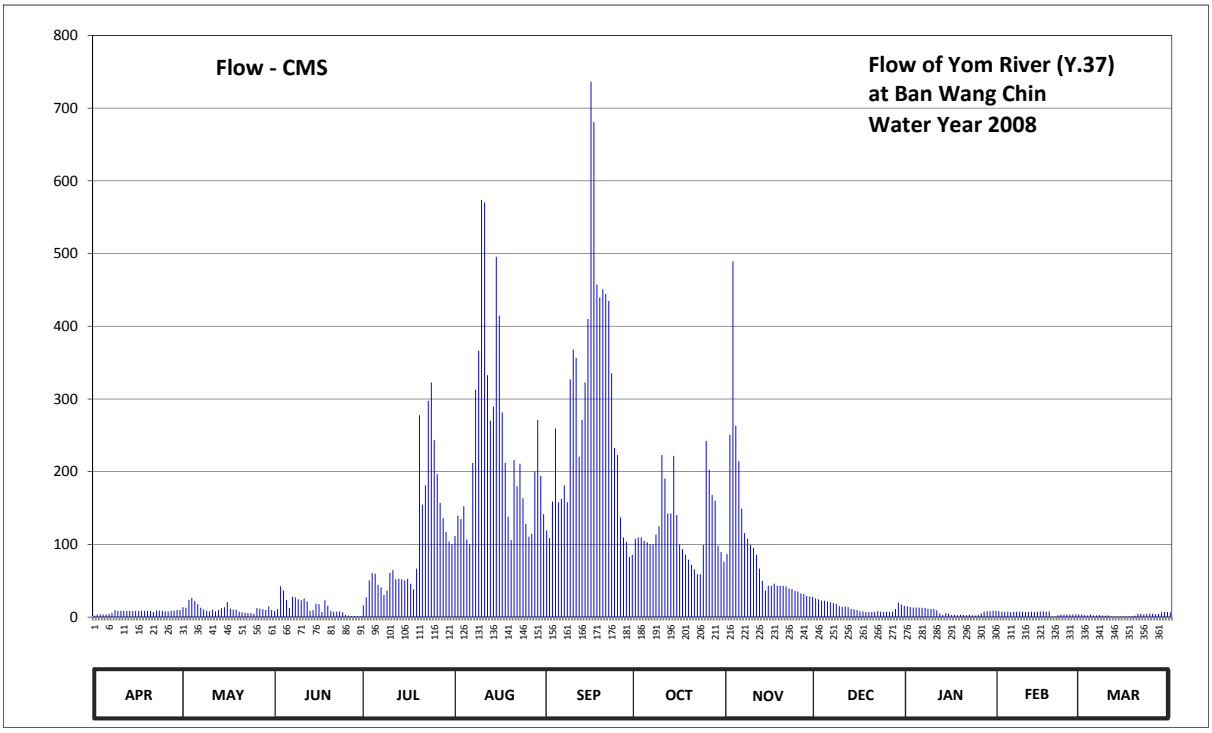
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	94.53	94.77	94.69	94.55	95.75	95.83	95.71	95.49	94.73	94.52	94.33	94.58	
2	94.59	94.76	94.73	94.75	96.02	95.72	95.73	96.98	94.71	94.50	94.31	94.56	
3	94.59	94.91	95.11	95.08	95.98	96.20	95.73	98.62	94.68	94.48	94.30	94.55	
4	94.58	94.94	95.05	95.20	96.14	97.05	95.68	97.08	94.68	94.48	94.31	94.58	
5	94.59	94.89	94.91	95.19	95.70	96.19	95.66	96.68	94.66	94.47	94.28	94.55	
6	94.61	94.83	94.75	95.00	95.63	96.23	95.63	96.11	94.64	94.47	94.29	94.55	
7	94.64	94.76	94.96	94.95	96.66	96.40	95.63	95.79	94.62	94.46	94.30	94.56	
8	94.71	94.72	94.95	94.80	97.45	96.19	95.77	95.71	94.60	94.43	94.31	94.55	
9	94.69	94.70	94.92	94.89	97.83	97.55	95.89	95.62	94.52	94.42	94.31	94.53	
10	94.69	94.68	94.90	95.20	99.14	97.84	96.75	95.58	94.50	94.42	94.30	94.55	
11	94.69	94.72	94.93	95.25	99.12	97.76	96.48	95.48	94.51	94.36	94.30	94.48	
12	94.69	94.68	94.88	95.10	97.59	96.73	96.05	95.27	94.49	94.22	94.31	94.45	
13	94.69	94.71	94.69	95.11	97.13	97.14	96.05	95.07	94.42	94.12	94.30	94.43	
14	94.69	94.75	94.71	95.10	97.28	97.52	96.74	94.89	94.41	94.23	94.31	94.41	
15	94.69	94.77	94.84	95.08	98.66	98.12	96.03	94.98	94.38	94.21	94.32	94.43	
16	94.69	94.87	94.83	95.11	98.15	100.07	95.63	94.98	94.33	94.12	94.32	94.48	
17	94.69	94.74	94.66	95.02	97.22	99.76	95.56	95.02	94.32	94.13	94.31	94.49	
18	94.69	94.72	94.90	94.91	96.66	98.42	95.48	94.98	94.30	94.11	94.32	94.48	
19	94.69	94.72	94.80	95.27	96.01	98.31	95.41	94.98	94.30	94.14	94.39	94.53	
20	94.69	94.67	94.69	97.19	95.69	98.38	95.33	94.98	94.29	94.12	94.41	94.61	
21	94.66	94.65	94.67	96.16	96.69	98.34	95.26	94.97	94.30	94.11	94.56	94.61	
22	94.70	94.64	94.67	96.40	96.39	98.28	95.18	94.93	94.33	94.14	94.58	94.59	
23	94.70	94.63	94.68	97.34	96.65	97.61	95.18	94.92	94.31	94.11	94.58	94.60	
24	94.69	94.63	94.65	97.52	96.24	96.83	95.62	94.88	94.29	94.08	94.58	94.61	
25	94.68	94.61	94.57	96.92	95.92	96.75	96.91	94.87	94.30	94.13	94.58	94.61	
26	94.68	94.75	94.54	96.53	95.74	96.00	96.58	94.83	94.30	94.22	94.58	94.60	
27	94.69	94.74	94.51	96.18	95.78	95.73	96.28	94.82	94.31	94.31	94.60	94.61	
28	94.70	94.73	94.51	95.99	96.56	95.67	96.21	94.78	94.42	94.33	94.59	94.65	
29	94.71	94.71	94.50	95.81	97.14	95.45	95.61	94.77	94.63	94.33		94.66	
30	94.71	94.79	94.48	95.67	96.51	95.48	95.52	94.76	94.58	94.35		94.66	
31		94.71		95.63	96.04		95.38		94.53	94.34		94.65	
Mean	94.67	94.74	94.76	95.58	96.76	97.12	95.83	95.43	94.46	94.29	94.39	94.55	
Max	94.71	94.94	95.11	97.52	99.14	100.07	96.91	98.62	94.73	94.52	94.60	94.66	100.07
Min	94.53	94.61	94.48	94.55	95.63	95.45	95.18	94.76	94.29	94.08	94.28	94.41	94.08

Annual Max Momentary Gage Height 100.23 m. (MSL.) , at 15.00 Hours , on Sep 16, 2008

Zero Gage at Bottom Elevation 92.28 m. (MSL.) , River Bed 91.43 m. (MSL.)

Left Bank Elevation 105.32 m. (MSL.) ,

Right Bank Elevation 106.40 m. (MSL.) , Drainage Are 10,305 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.90	13.55	8.50	16.15	111.60	119.28	107.76	86.64	25.78	14.86	8.16	3.40		
2	3.70	12.90	10.95	27.10	139.20	108.72	109.68	250.60	24.46	14.00	7.52	2.80		
3	3.70	23.85	42.50	50.50	134.80	159.00	109.68	489.20	22.70	13.28	7.20	2.50		
4	3.40	26.40	36.50	60.67	152.40	259.50	104.88	263.40	22.70	13.28	7.52	3.40		
5	3.70	22.25	23.85	59.80	106.80	157.90	102.96	214.60	21.60	12.92	6.66	2.50		
6	4.50	17.75	12.25	44.50	100.08	162.30	100.08	149.10	20.50	12.92	6.93	2.50		
7	6.00	12.90	28.10	40.90	212.20	181.00	100.08	115.44	19.40	12.56	7.20	2.80		
8	9.65	10.30	27.25	30.40	313.00	157.90	113.52	107.76	18.30	11.48	7.52	2.50		
9	8.50	9.00	24.70	36.61	366.50	327.00	125.04	99.12	14.86	11.12	7.52	1.90		
10	8.50	8.00	23.00	60.67	573.80	368.00	223.00	95.28	14.00	11.12	7.20	2.50		
11	8.50	10.30	25.55	65.00	570.40	356.40	190.60	85.68	14.43	9.12	7.20	0.90		
12	8.50	8.00	21.50	52.00	332.60	220.60	142.50	66.73	13.64	5.04	7.52	0.75		
13	8.50	9.65	8.50	52.87	269.90	271.20	142.50	49.75	11.12	2.82	7.20	0.65		
14	8.50	12.25	9.65	52.00	289.40	322.80	221.80	36.61	10.76	5.31	7.52	0.55		
15	8.50	13.55	18.50	50.50	495.60	410.00	140.30	43.06	9.76	4.77	7.84	0.65		
16	8.50	20.75	17.75	52.87	414.50	736.60	100.08	43.06	8.16	2.82	7.84	0.90		
17	8.50	11.60	7.00	46.00	281.60	680.80	93.36	46.00	7.84	3.03	7.52	0.95		
18	8.50	10.30	23.00	38.02	212.20	457.20	85.68	43.06	7.20	2.61	7.84	0.90		
19	8.50	10.30	15.50	66.73	138.10	439.60	78.96	43.06	7.20	3.24	0.45	1.90		
20	8.50	7.50	8.50	277.70	105.84	450.80	71.93	43.06	6.93	2.82	0.55	4.50		
21	7.00	6.50	7.50	154.60	215.80	444.40	65.87	42.34	7.20	2.61	2.80	4.50		
22	9.00	6.00	7.50	181.00	179.90	434.80	58.93	39.46	8.16	3.24	3.40	3.70		
23	9.00	5.50	8.00	297.60	211.00	335.40	58.93	38.74	7.52	2.61	3.40	4.00		
24	8.50	5.50	6.50	322.80	163.40	232.60	99.12	35.92	6.93	2.12	3.40	4.50		
25	8.00	4.50	3.10	243.40	128.20	223.00	242.20	35.23	7.20	3.03	3.40	4.50		
26	8.00	12.25	2.20	196.60	110.64	137.00	202.60	32.47	7.20	5.04	3.40	4.00		
27	8.50	11.60	1.30	156.80	114.48	109.68	167.80	31.78	7.52	7.52	4.00	4.50		
28	9.00	10.95	1.30	135.90	200.20	103.92	160.10	29.08	11.12	8.16	3.70	6.50		
29	9.65	9.65	1.00	117.36	271.20	82.80	98.16	28.42	19.95	8.16		7.00		
30	9.65	14.85	0.90	103.92	194.20	85.68	89.52	27.76	17.44	8.80		7.00		
31		9.65		100.08	141.40		76.27		15.29	8.48		6.50		
Total	224.85	368.05	432.35	3191.05	7250.94	8535.88	3783.89	2712.41	416.87	228.89	162.41	96.15	27403.74	CMSDAY
Mean	7.50	11.87	14.41	102.94	233.90	284.53	122.06	90.41	13.45	7.38	5.80	3.10	75.08	CMS
Max	9.65	26.40	42.50	322.80	573.80	736.60	242.20	489.20	25.78	14.86	8.16	7.00	736.60	CMS
Min	1.90	4.50	0.90	16.15	100.08	82.80	58.93	27.76	6.93	2.12	0.45	0.55	0.45	CMS
Runoff	19.43	31.80	37.36	275.71	626.48	737.50	326.93	234.35	36.02	19.78	14.03	8.31	2367.68	MCM

Momentary Peak 765.40 CMS. at 100.23 m. (MSL.) at 15.00 Hours , on Sep 16, 2008

Runoff Yield 7.29 Liters/Second/Square KM. Momentary Peak Yield 74.27 Liters/Second/Square KM.

WATER YEAR : 2008

YOM RIVER BASIN

Nam Mae Kham Mi at Ban Mae Kham Mi Tamnak Tham , Phrae (Y.38)

Lat 18 - 15 - 54 N Long 100 - 14 - 28 E

Location : on right bank at the bridge on road.

Ban Mae Kham Mi Tamnak Tham **Amphoe** Nong Muang Khai **Changwat** Phrae

Drainge Area	425 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+170.100 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 15 meters from the top staff gage. **Elevation** +173.100 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 mean of 5 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Float	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. The islet situated of the gage site. Stage-discharge relation defined by 35 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

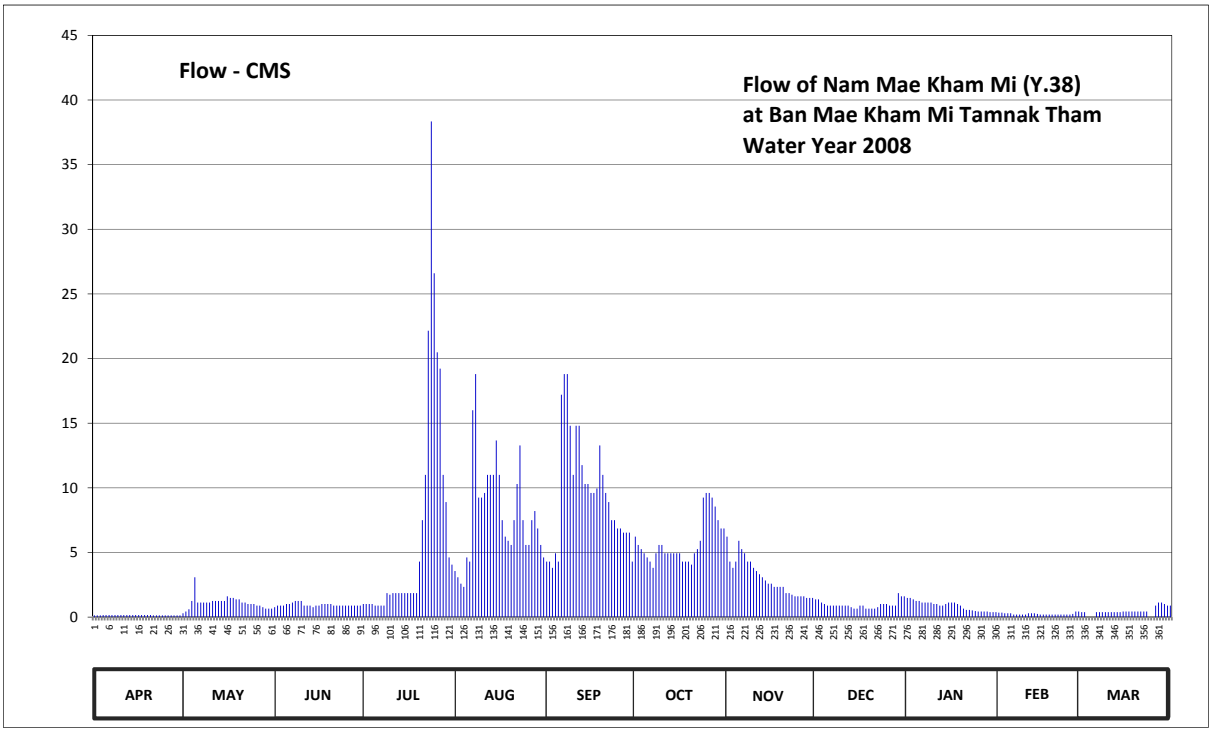
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	172.07	172.12	172.21	172.23	172.37	172.40	172.46	172.46	172.26	172.27	172.13	172.14	
2	172.07	172.15	172.22	172.23	172.35	172.40	172.44	172.40	172.26	172.27	172.13	172.14	
3	172.07	172.19	172.22	172.23	172.33	172.38	172.43	172.38	172.24	172.26	172.12	171.72	
4	172.08	172.25	172.22	172.23	172.32	172.42	172.42	172.40	172.23	172.25	172.12	171.72	
5	172.08	172.35	172.23	172.22	172.41	172.40	172.41	172.45	172.22	172.25	172.12	171.72	
6	172.08	172.24	172.23	172.22	172.40	172.76	172.40	172.43	172.22	172.24	172.10	172.14	
7	172.08	172.24	172.24	172.22	172.73	172.80	172.38	172.42	172.22	172.24	172.10	172.14	
8	172.08	172.24	172.25	172.22	172.80	172.80	172.42	172.40	172.22	172.24	172.10	172.14	
9	172.08	172.24	172.25	172.30	172.55	172.70	172.44	172.40	172.22	172.24	172.10	172.14	
10	172.08	172.24	172.25	172.29	172.55	172.60	172.44	172.38	172.22	172.23	172.10	172.14	
11	172.08	172.25	172.22	172.30	172.56	172.70	172.42	172.37	172.22	172.23	172.12	172.14	
12	172.08	172.25	172.22	172.30	172.60	172.70	172.42	172.36	172.22	172.22	172.12	172.14	
13	172.08	172.25	172.22	172.30	172.60	172.62	172.42	172.35	172.21	172.22	172.12	172.14	
14	172.08	172.25	172.21	172.30	172.60	172.58	172.42	172.34	172.20	172.23	172.11	172.14	
15	172.08	172.25	172.22	172.30	172.67	172.58	172.42	172.33	172.20	172.24	172.10	172.15	
16	172.08	172.28	172.22	172.30	172.60	172.56	172.42	172.33	172.22	172.24	172.10	172.15	
17	172.08	172.27	172.23	172.30	172.50	172.56	172.40	172.32	172.22	172.24	172.10	172.15	
18	172.08	172.27	172.23	172.30	172.46	172.57	172.40	172.32	172.20	172.23	172.10	172.15	
19	172.08	172.26	172.23	172.30	172.45	172.66	172.40	172.32	172.20	172.22	172.10	172.15	
20	172.08	172.26	172.23	172.40	172.44	172.60	172.39	172.32	172.20	172.20	172.10	172.15	
21	172.07	172.24	172.22	172.50	172.50	172.56	172.42	172.30	172.20	172.18	172.10	172.15	
22	172.07	172.24	172.22	172.60	172.58	172.54	172.43	172.30	172.21	172.18	172.10	172.15	
23	172.07	172.23	172.22	172.88	172.66	172.50	172.45	172.29	172.23	172.17	172.10	172.15	
24	172.07	172.23	172.22	173.22	172.50	172.50	172.55	172.28	172.23	172.16	172.10	171.75	
25	172.07	172.23	172.22	172.98	172.44	172.48	172.56	172.28	172.23	172.15	172.10	171.75	
26	172.07	172.22	172.22	172.84	172.44	172.48	172.56	172.28	172.22	172.15	172.11	172.22	
27	172.07	172.22	172.22	172.81	172.50	172.47	172.55	172.28	172.22	172.15	172.15	172.24	
28	172.07	172.21	172.22	172.60	172.52	172.47	172.53	172.27	172.22	172.15	172.15	172.24	
29	172.07	172.20	172.22	172.54	172.48	172.47	172.50	172.27	172.30	172.14		172.23	
30	172.07	172.20	172.22	172.41	172.44	172.40	172.48	172.27	172.28	172.14		172.22	
31		172.20		172.39	172.41		172.48		172.28	172.14		172.22	
Mean	172.08	172.23	172.22	172.43	172.51	172.56	172.45	172.34	172.23	172.21	172.11	172.09	
Max	172.08	172.35	172.25	173.22	172.80	172.80	172.56	172.46	172.30	172.27	172.15	172.24	173.22
Min	172.07	172.12	172.21	172.22	172.32	172.38	172.38	172.27	172.20	172.14	172.10	171.72	171.72

Annual Max Momentary Gage Height 173.40 m. (MSL.) , at 06.00 Hours , on Jul 24, 2008

Zero Gage at Bottom Elevation 170.10 m. (MSL.) , River Bed 172.00 m. (MSL.)

Left Bank Elevation 180.08 m. (MSL.) ,

Right Bank Elevation 180.09 m. (MSL.) , Drainage Are 425 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.14	0.29	0.77	1.01	3.57	4.30	6.22	6.22	1.37	1.49	0.34	0.38		
2	0.14	0.43	0.89	1.01	3.08	4.30	5.58	4.30	1.37	1.49	0.34	0.38		
3	0.14	0.61	0.89	1.01	2.59	3.81	5.26	3.81	1.13	1.37	0.29	0.00		
4	0.16	1.25	0.89	1.01	2.34	4.94	4.94	4.30	1.01	1.25	0.29	0.00		
5	0.16	3.08	1.01	0.89	4.62	4.30	4.62	5.90	0.89	1.25	0.29	0.00		
6	0.16	1.13	1.01	0.89	4.30	17.20	4.30	5.26	0.89	1.13	0.20	0.38		
7	0.16	1.13	1.13	0.89	16.00	18.80	3.81	4.94	0.89	1.13	0.20	0.38		
8	0.16	1.13	1.25	0.89	18.80	18.80	4.94	4.30	0.89	1.13	0.20	0.38		
9	0.16	1.13	1.25	1.85	9.25	14.80	5.58	4.30	0.89	1.13	0.20	0.38		
10	0.16	1.13	1.25	1.73	9.25	11.00	5.58	3.81	0.89	1.01	0.20	0.38		
11	0.16	1.25	0.89	1.85	9.60	14.80	4.94	3.57	0.89	1.01	0.29	0.38		
12	0.16	1.25	0.89	1.85	11.00	14.80	4.94	3.32	0.89	0.89	0.29	0.38		
13	0.16	1.25	0.89	1.85	11.00	11.76	4.94	3.08	0.77	0.89	0.29	0.38		
14	0.16	1.25	0.77	1.85	11.00	10.30	4.94	2.83	0.65	1.01	0.25	0.38		
15	0.16	1.25	0.89	1.85	13.66	10.30	4.94	2.59	0.65	1.13	0.20	0.43		
16	0.16	1.61	0.89	1.85	11.00	9.60	4.94	2.59	0.89	1.13	0.20	0.43		
17	0.16	1.49	1.01	1.85	7.50	9.60	4.30	2.34	0.89	1.13	0.20	0.43		
18	0.16	1.49	1.01	1.85	6.22	9.95	4.30	2.34	0.65	1.01	0.20	0.43		
19	0.16	1.37	1.01	1.85	5.90	13.28	4.30	2.34	0.65	0.89	0.20	0.43		
20	0.16	1.37	1.01	4.30	5.58	11.00	4.06	2.34	0.65	0.65	0.20	0.43		
21	0.14	1.13	0.89	7.50	7.50	9.60	4.94	1.85	0.65	0.56	0.20	0.43		
22	0.14	1.13	0.89	11.00	10.30	8.90	5.26	1.85	0.77	0.56	0.20	0.43		
23	0.14	1.01	0.89	22.16	13.28	7.50	5.90	1.73	1.01	0.52	0.20	0.43		
24	0.14	1.01	0.89	38.34	7.50	7.50	9.25	1.61	1.01	0.47	0.20	0.00		
25	0.14	1.01	0.89	26.60	5.58	6.86	9.60	1.61	1.01	0.43	0.20	0.00		
26	0.14	0.89	0.89	20.48	5.58	6.86	9.60	1.61	0.89	0.43	0.25	0.89		
27	0.14	0.89	0.89	19.22	7.50	6.54	9.25	1.61	0.89	0.43	0.43	1.13		
28	0.14	0.77	0.89	11.00	8.20	6.54	8.55	1.49	0.89	0.43	0.43	1.13		
29	0.14	0.65	0.89	8.90	6.86	6.54	7.50	1.49	1.85	0.38		1.01		
30	0.14	0.65	0.89	4.62	5.58	4.30	6.86	1.49	1.61	0.38		0.89		
31		0.65		4.06	4.62		6.86		1.61	0.38		0.89		
Total	4.54	34.68	28.50	206.01	248.76	288.78	181.00	90.82	29.99	27.09	6.98	13.99	1161.14	CMSDAY
Mean	0.15	1.12	0.95	6.65	8.02	9.63	5.84	3.03	0.97	0.87	0.25	0.45	3.18	CMS
Max	0.16	3.08	1.25	38.34	18.80	18.80	9.60	6.22	1.85	1.49	0.43	1.13	38.34	CMS
Min	0.14	0.29	0.77	0.89	2.34	3.81	3.81	1.49	0.65	0.38	0.20	0.00	0.00	CMS
Runoff	0.39	3.00	2.46	17.80	21.49	24.95	15.64	7.85	2.59	2.34	0.60	1.21	100.32	MCM

Momentary Peak 48.00 CMS. at 173.40 m. (MSL.) at 06.00 Hours , on Jul 24, 2008

Runoff Yield 7.49 Liters/Second/Square KM. Momentary Peak Yield 112.94 Liters/Second/Square KM.

WATER YEAR : 2008

NAN RIVER BASIN

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

Lat 18 - 46 - 26 N Long 100 - 46 - 56 E

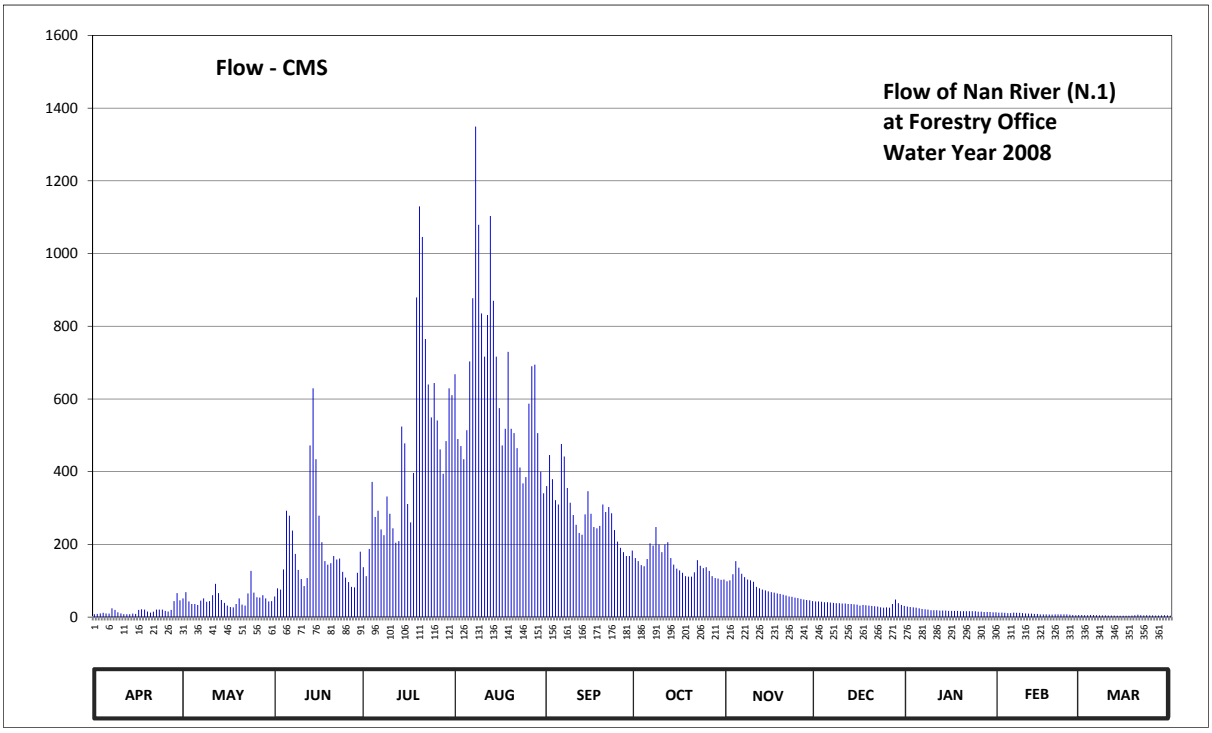
Location : on right bank in front of Forestry Office.

	Ban Forestry Office	**Amphoe** Mueang	**Changwat** Nan
Drainge Area	4,560 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+192.200 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On west side of automatic gage building.		**Elevation** +199.868 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1922 - 1956 , 1962 to date		
Rating Operation			
Period of Rating	1954 - 1956 , 1979 to date		
Rated by Float	-		
Rated by Current Meter	1954 - 1956 , 1979 to date		
Stability of Channel Regimes	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 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.30	192.78	192.83	193.48	196.40	194.87	193.66	193.18	192.70	192.55	192.36	192.25	
2	192.31	192.93	193.02	193.29	195.55	195.32	193.60	193.20	192.70	192.54	192.36	192.24	
3	192.33	192.70	192.99	193.83	195.45	194.97	193.52	193.33	192.69	192.53	192.35	192.24	
4	192.35	192.63	193.43	194.93	195.26	194.65	193.50	193.60	192.68	192.52	192.34	192.25	
5	192.33	192.63	194.48	194.38	195.67	194.58	193.64	193.47	192.68	192.50	192.34	192.25	
6	192.32	192.60	194.40	194.48	196.56	195.48	193.93	193.34	192.67	192.48	192.36	192.24	
7	192.50	192.72	194.15	194.17	197.33	195.30	193.89	193.27	192.66	192.47	192.35	192.23	
8	192.45	192.78	193.74	194.07	199.27	194.84	194.21	193.22	192.65	192.46	192.35	192.23	
9	192.37	192.69	193.42	194.71	198.18	194.61	193.91	193.20	192.65	192.44	192.34	192.23	
10	192.33	192.71	193.23	194.43	197.15	194.41	193.77	193.17	192.64	192.44	192.33	192.22	
11	192.30	192.86	193.07	194.19	196.62	194.25	193.91	193.05	192.64	192.44	192.32	192.22	
12	192.30	193.12	193.25	193.94	197.13	194.11	193.95	193.02	192.63	192.43	192.32	192.22	
13	192.30	192.91	195.46	193.97	198.28	194.08	193.66	192.99	192.63	192.43	192.31	192.21	
14	192.32	192.74	196.22	195.72	197.30	194.42	193.53	192.97	192.62	192.43	192.31	192.21	
15	192.31	192.66	195.26	195.49	196.62	194.79	193.45	192.95	192.61	192.42	192.29	192.21	
16	192.45	192.58	194.40	194.59	195.96	194.43	193.41	192.93	192.58	192.42	192.29	192.21	
17	192.47	192.54	193.95	194.29	195.46	194.21	193.36	192.92	192.60	192.42	192.29	192.21	
18	192.46	192.53	193.60	195.06	195.69	194.19	193.29	192.90	192.59	192.42	192.28	192.22	
19	192.40	192.63	193.53	197.34	196.68	194.23	193.28	192.89	192.58	192.41	192.28	192.24	
20	192.36	192.78	193.56	198.39	195.69	194.58	193.28	192.87	192.57	192.41	192.29	192.27	
21	192.39	192.61	193.70	198.04	195.63	194.46	193.37	192.85	192.56	192.41	192.29	192.24	
22	192.46	192.58	193.63	196.84	195.42	194.54	193.62	192.83	192.55	192.41	192.29	192.23	
23	192.46	192.90	193.65	196.27	195.14	194.44	193.51	192.82	192.53	192.41	192.29	192.24	
24	192.46	193.40	193.38	195.84	194.91	194.16	193.46	192.80	192.52	192.41	192.29	192.23	
25	192.42	192.92	193.26	196.29	195.00	193.96	193.48	192.79	192.53	192.39	192.27	192.23	
26	192.40	192.81	193.16	195.80	196.02	193.85	193.40	192.77	192.52	192.39	192.25	192.22	
27	192.45	192.80	193.05	195.40	196.50	193.77	193.29	192.75	192.63	192.38	192.24	192.22	
28	192.71	192.86	193.04	195.05	196.52	193.70	193.25	192.74	192.75	192.38	192.25	192.23	
29	192.91	192.78	193.36	195.52	195.63	193.70	193.24	192.73	192.65	192.38		192.24	
30	192.73	192.70	193.78	196.22	195.08	193.80	193.21	192.71	192.60	192.37		192.23	
31		192.71		196.13	194.76		193.22		192.57	192.37		192.21	
Mean	192.42	192.76	193.73	195.23	196.22	194.42	193.54	193.01	192.62	192.43	192.31	192.23	
Max	192.91	193.40	196.22	198.39	199.27	195.48	194.21	193.60	192.75	192.55	192.36	192.27	199.27
Min	192.30	192.53	192.83	193.29	194.76	193.70	193.21	192.71	192.52	192.37	192.24	192.21	192.21

Annual Max Momentary Gage Height	199.39	m. (MSL.) ,	at 11.00 Hours , on Aug 8, 2008		
Zero Gage at Bottom Elevation	192.20	m. (MSL.) ,	River Bed	188.37	m. (MSL.)
Left Bank Elevation	203.91	m. (MSL.) ,			
Right Bank Elevation	203.80	m. (MSL.) ,	Drainage Are	4,560	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.00	51.40	56.95	137.40	668.00	360.60	162.40	98.60	43.00	28.80	12.50	5.65		
2	8.75	68.60	79.40	112.70	490.00	445.80	154.00	101.00	43.00	27.90	12.50	5.18		
3	10.25	43.00	75.80	187.50	470.50	379.30	142.80	117.90	42.03	27.00	11.75	5.18		
4	11.75	36.21	130.90	371.70	434.40	321.50	140.00	154.00	41.06	26.10	11.00	5.65		
5	10.25	36.21	292.60	275.60	514.00	309.60	159.60	136.10	41.06	24.30	11.00	5.65		
6	9.50	33.30	279.00	292.60	703.20	476.20	202.80	119.20	40.09	22.54	12.50	5.18		
7	24.30	45.10	238.00	241.20	876.90	442.00	196.50	110.10	39.12	21.66	11.75	4.71		
8	19.90	51.40	174.00	225.20	1349.20	355.20	247.60	103.60	38.15	20.78	11.75	4.71		
9	13.25	42.03	129.60	331.80	1079.20	314.70	199.60	101.00	38.15	19.02	11.00	4.71		
10	10.25	44.05	104.90	284.10	835.50	280.70	178.50	97.40	37.18	19.02	10.25	4.24		
11	8.00	60.40	85.40	244.40	716.40	254.00	199.60	83.00	37.18	19.02	9.50	4.24		
12	8.00	91.40	107.50	204.40	830.90	231.60	206.00	79.40	36.21	18.14	9.50	4.24		
13	8.00	66.20	472.40	209.20	1103.20	226.80	162.40	75.80	36.21	18.14	8.75	3.77		
14	9.50	47.20	629.20	524.20	870.00	282.40	144.20	73.40	35.24	18.14	8.75	3.77		
15	8.75	39.12	434.40	478.10	716.40	346.20	133.50	71.00	34.27	17.26	7.53	3.77		
16	19.90	31.50	279.00	311.30	574.60	284.10	128.30	68.60	31.50	17.26	7.53	3.77		
17	21.66	27.90	206.00	260.40	472.40	247.60	121.80	67.40	33.30	17.26	7.53	3.77		
18	20.78	27.00	154.00	396.40	518.00	244.40	112.70	65.00	32.40	17.26	7.06	4.24		
19	15.50	36.21	144.20	879.20	729.60	250.80	111.40	63.85	31.50	16.38	7.06	5.18		
20	12.50	51.40	148.40	1129.60	518.00	309.60	111.40	61.55	30.60	16.38	7.53	6.59		
21	14.75	34.27	168.00	1045.60	506.00	289.20	123.10	59.25	29.70	16.38	7.53	5.18		
22	20.78	31.50	158.20	764.80	464.80	302.80	156.80	56.95	28.80	16.38	7.53	4.71		
23	20.78	65.00	161.00	639.70	411.60	285.80	141.40	55.80	27.00	16.38	7.53	5.18		
24	20.78	127.00	124.40	549.40	367.90	239.60	134.80	53.50	26.10	16.38	7.53	4.71		
25	17.26	67.40	108.80	643.90	385.00	207.60	137.40	52.45	27.00	14.75	6.59	4.71		
26	15.50	54.65	96.20	541.00	587.20	190.50	127.00	50.35	26.10	14.75	5.65	4.24		
27	19.90	53.50	83.00	461.00	690.00	178.50	112.70	48.25	36.21	14.00	5.18	4.24		
28	44.05	60.40	81.80	394.50	694.40	168.00	107.50	47.20	48.25	14.00	5.65	4.71		
29	66.20	51.40	121.80	484.00	506.00	168.00	106.20	46.15	38.15	14.00		5.18		
30	46.15	43.00	180.00	629.20	400.20	183.00	102.30	44.05	33.30	13.25		4.71		
31		44.05		610.30	340.80		103.60		30.60	13.25		3.77		
Total	544.94	1561.80	5504.85	13860.40	19824.30	8576.10	4567.90	2361.85	1092.46	575.88	249.93	145.54	58865.95	CMSDAY
Mean	18.16	50.38	183.50	447.11	639.49	285.87	147.35	78.73	35.24	18.58	8.93	4.69	161.28	CMS
Max	66.20	127.00	629.20	1129.60	1349.20	476.20	247.60	154.00	48.25	28.80	12.50	6.59	1349.20	CMS
Min	8.00	27.00	56.95	112.70	340.80	168.00	102.30	44.05	26.10	13.25	5.18	3.77	3.77	CMS
Runoff	47.08	134.94	475.62	1197.54	1712.82	740.98	394.67	204.06	94.39	49.76	21.59	12.57	5086.02	MCM

Momentary Peak 1380.40 CMS. at 199.39 m. (MSL.) at 11.00 Hours , on Aug 8, 2008

Runoff Yield 35.37 Liters/Second/Square KM. Momentary Peak Yield 302.72 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1993 to date
Rating Operation	
Period of Rating	1993 to date
Rated by Float	-
Rated by Current Meter	1993 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 29 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

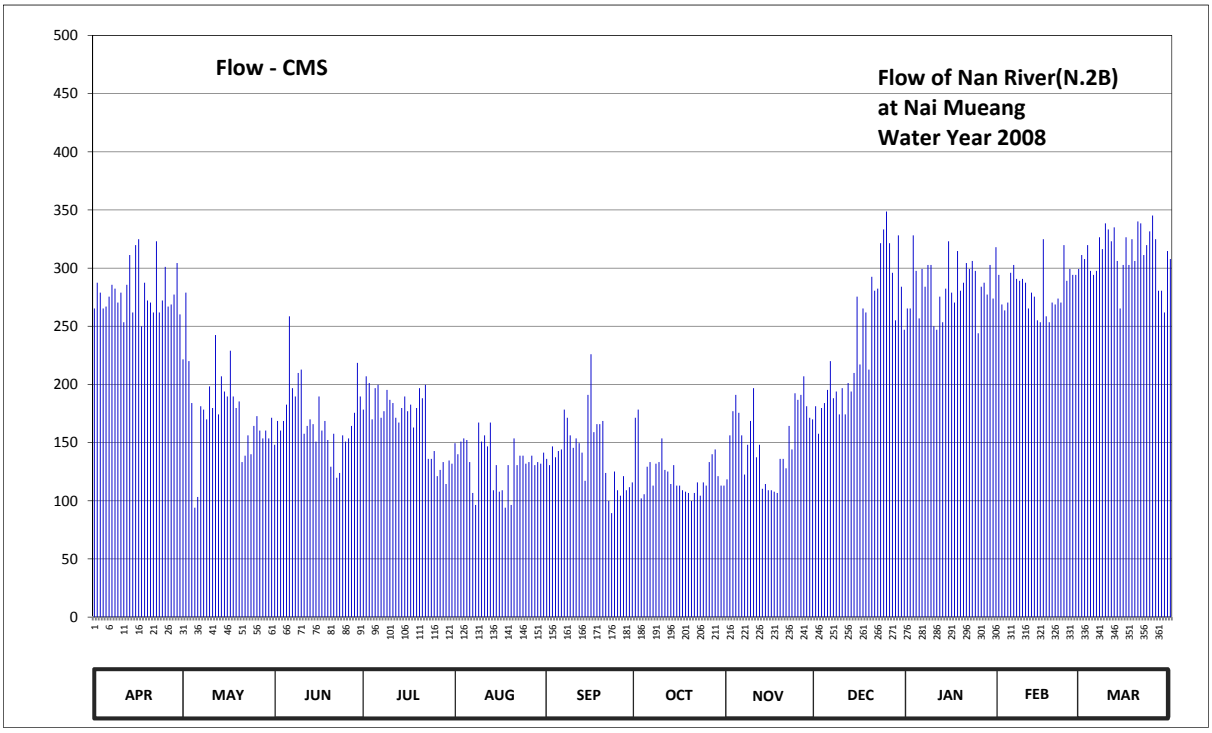
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	54.09	53.81	53.29	53.51	53.30	53.20	53.46	53.07	53.53	54.09	54.26	54.36	
2	54.22	54.17	53.44	53.71	53.23	53.16	53.51	53.35	53.36	54.09	54.11	54.34	
3	54.17	53.80	53.38	53.67	53.31	53.28	52.94	53.50	53.52	54.46	54.08	54.41	
4	54.09	53.55	53.44	53.45	53.33	53.21	52.97	53.60	53.55	54.28	54.12	54.28	
5	54.10	52.87	53.54	53.64	53.32	53.25	53.15	53.49	53.63	54.04	54.27	54.26	
6	54.15	52.95	54.05	53.66	53.18	53.26	53.18	53.35	53.80	54.29	54.31	54.28	
7	54.21	53.53	53.64	53.46	52.98	53.51	53.03	53.10	53.58	54.20	54.24	54.45	
8	54.19	53.51	53.59	53.50	52.89	53.46	53.17	53.29	53.62	54.31	54.23	54.39	
9	54.12	53.45	53.73	53.63	53.43	53.35	53.18	53.44	53.48	54.31	54.24	54.52	
10	54.17	53.65	53.75	53.57	53.31	53.27	53.33	53.64	53.64	54.00	54.22	54.49	
11	54.02	53.52	53.36	53.55	53.35	53.33	53.13	53.21	53.48	53.98	54.09	54.43	
12	54.21	53.95	53.41	53.46	53.28	53.30	53.12	53.29	53.67	54.15	54.17	54.50	
13	54.36	53.48	53.45	53.43	53.43	53.24	53.04	53.01	53.62	54.02	54.15	54.33	
14	54.07	53.71	53.42	53.52	53.00	53.06	53.16	53.04	53.73	54.19	54.03	54.09	
15	54.41	53.62	53.31	53.59	53.16	53.60	53.03	53.00	54.15	54.43	54.02	54.31	
16	54.44	53.59	53.59	53.50	52.99	53.84	53.03	53.00	53.78	54.17	54.44	54.45	
17	54.00	53.86	53.38	53.54	53.00	53.37	53.00	52.99	54.09	54.12	54.05	54.31	
18	54.22	53.59	53.44	53.40	52.87	53.42	52.99	52.98	54.07	54.38	54.02	54.44	
19	54.13	53.52	53.32	53.52	53.16	53.42	52.98	53.20	53.75	54.18	54.12	54.33	
20	54.12	53.56	53.15	53.64	52.89	53.44	52.92	53.20	54.25	54.22	54.11	54.53	
21	54.07	53.18	53.36	53.58	53.33	53.11	52.98	53.14	54.18	54.32	54.14	54.52	
22	54.43	53.22	53.08	53.66	53.16	52.92	53.05	53.41	54.19	54.29	54.12	54.36	
23	54.07	53.35	53.11	53.20	53.22	52.83	52.96	53.26	54.42	54.33	54.41	54.41	
24	54.13	53.23	53.35	53.20	53.22	53.12	53.05	53.61	54.49	54.28	54.23	54.48	
25	54.30	53.41	53.31	53.25	53.17	53.00	53.03	53.57	54.58	53.96	54.29	54.56	
26	54.10	53.47	53.33	53.09	53.18	52.96	53.18	53.60	54.42	54.20	54.26	54.44	
27	54.11	53.38	53.41	53.13	53.22	53.09	53.23	53.71	54.27	54.22	54.26	54.18	
28	54.16	53.33	53.49	53.18	53.16	53.00	53.26	53.53	54.03	54.16	54.29	54.18	
29	54.32	53.38	53.79	53.04	53.18	53.02	53.09	53.46	54.46	54.31		54.07	
30	54.06	53.33	53.59	53.19	53.17	53.05	53.03	53.45	54.20	54.14		54.38	
31		53.46		53.17	53.24		53.03		53.98	54.40		54.34	
Mean	54.17	53.50	53.45	53.44	53.18	53.24	53.10	53.32	53.92	54.21	54.19	54.37	
Max	54.44	54.17	54.05	53.71	53.43	53.84	53.51	53.71	54.58	54.46	54.44	54.56	54.58
Min	54.00	52.87	53.08	53.04	52.87	52.83	52.92	52.98	53.36	53.96	54.02	54.07	52.83

Annual Max Momentary Gage Height 55.37 m. (MSL.) , at 06.00 Hours , on Mar 7, 2009

Zero Gage at Bottom Elevation 52.30 m. (MSL.) , River Bed 48.38 m. (MSL.)

Left Bank Elevation 58.50 m. (MSL.) ,

Right Bank Elevation 60.90 m. (MSL.) , Drainage Are 16,865 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	265.30	221.50	148.15	178.40	149.50	136.00	171.40	118.45	181.20	265.30	294.20	311.20		
2	287.40	278.90	168.60	206.95	140.05	130.60	178.40	156.25	157.60	265.30	268.70	307.80		
3	278.90	220.00	160.30	201.15	150.85	146.80	102.10	177.00	179.80	328.20	263.60	319.70		
4	265.30	184.00	168.60	170.00	153.55	137.35	105.55	191.00	184.00	297.60	270.40	297.60		
5	267.00	94.05	182.60	196.80	152.20	142.75	129.25	175.60	195.35	256.80	295.90	294.20		
6	275.50	103.25	258.50	199.70	133.30	144.10	133.30	156.25	220.00	299.30	302.70	297.60		
7	285.70	181.20	196.80	171.40	106.70	178.40	113.05	122.50	188.20	284.00	290.80	326.50		
8	282.30	178.40	189.60	177.00	96.35	171.40	131.95	148.15	193.90	302.70	289.10	316.30		
9	270.40	170.00	209.85	195.35	167.20	156.25	133.30	168.60	174.20	302.70	290.80	338.40		
10	278.90	198.25	212.75	186.80	150.85	145.45	153.55	196.80	196.80	250.00	287.40	333.30		
11	253.40	179.80	157.60	184.00	156.25	153.55	126.55	137.35	174.20	247.00	265.30	323.10		
12	285.70	242.50	164.40	171.40	146.80	149.50	125.20	148.15	201.15	275.50	278.90	335.00		
13	311.20	174.20	170.00	167.20	167.20	141.40	114.40	110.35	193.90	253.40	275.50	306.10		
14	261.90	206.95	165.80	179.80	109.00	117.10	130.60	114.40	209.85	282.30	255.10	265.30		
15	319.70	193.90	150.85	189.60	130.60	191.00	113.05	109.00	275.50	323.10	253.40	302.70		
16	324.80	189.60	189.60	177.00	107.85	226.00	113.05	109.00	217.10	278.90	324.80	326.50		
17	250.00	229.00	160.30	182.60	109.00	158.95	109.00	107.85	265.30	270.40	258.50	302.70		
18	287.40	189.60	168.60	163.00	94.05	165.80	107.85	106.70	261.90	314.60	253.40	324.80		
19	272.10	179.80	152.20	179.80	130.60	165.80	106.70	136.00	212.75	280.60	270.40	306.10		
20	270.40	185.40	129.25	196.80	96.35	168.60	99.80	136.00	292.50	287.40	268.70	340.10		
21	261.90	133.30	157.60	188.20	153.55	123.85	106.70	127.90	280.60	304.40	273.80	338.40		
22	323.10	138.70	119.80	199.70	130.60	99.80	115.75	164.40	282.30	299.30	270.40	311.20		
23	261.90	156.25	123.85	136.00	138.70	89.45	104.40	144.10	321.40	306.10	319.70	319.70		
24	272.10	140.05	156.25	136.00	138.70	125.20	115.75	192.45	333.30	297.60	289.10	331.60		
25	301.00	164.40	150.85	142.75	131.95	109.00	113.05	186.80	348.60	244.00	299.30	345.20		
26	267.00	172.80	153.55	121.15	133.30	104.40	133.30	191.00	321.40	284.00	294.20	324.80		
27	268.70	160.30	164.40	126.55	138.70	121.15	140.05	206.95	295.90	287.40	294.20	280.60		
28	277.20	153.55	175.60	133.30	130.60	109.00	144.10	181.20	255.10	277.20	299.30	280.60		
29	304.40	160.30	218.55	114.40	133.30	111.70	121.15	171.40	328.20	302.70		261.90		
30	260.20	153.55	189.60	134.65	131.95	115.75	113.05	170.00	284.00	273.80		314.60		
31		171.40		131.95	141.40		113.05		247.00	318.00		307.80		
Total	8390.80	5504.90	5114.40	5239.40	4151.00	4236.10	3818.40	4561.60	7473.00	8859.60	7897.60	9691.40	74938.20	CMSDAY
Mean	279.69	177.58	170.48	169.01	133.90	141.20	123.17	152.05	241.06	285.79	282.06	312.63	205.31	CMS
Max	324.80	278.90	258.50	206.95	167.20	226.00	178.40	206.95	348.60	328.20	324.80	345.20	348.60	CMS
Min	250.00	94.05	119.80	114.40	94.05	89.45	99.80	106.70	157.60	244.00	253.40	261.90	89.45	CMS
Runoff	724.97	475.62	441.88	452.68	358.65	366.00	329.91	394.12	645.67	765.47	682.35	837.34	6474.66	MCM

Momentary Peak 502.70 CMS. at 55.37 m. (MSL.) at 06.00 Hours , on Mar 7, 2009

Runoff Yield 12.17 Liters/Second/Square KM. Momentary Peak Yield 29.81 Liters/Second/Square KM.

WATER YEAR : 2008

NAN RIVER BASIN

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

Lat 16 - 49 - 19 N Long 100 - 15 - 49 E

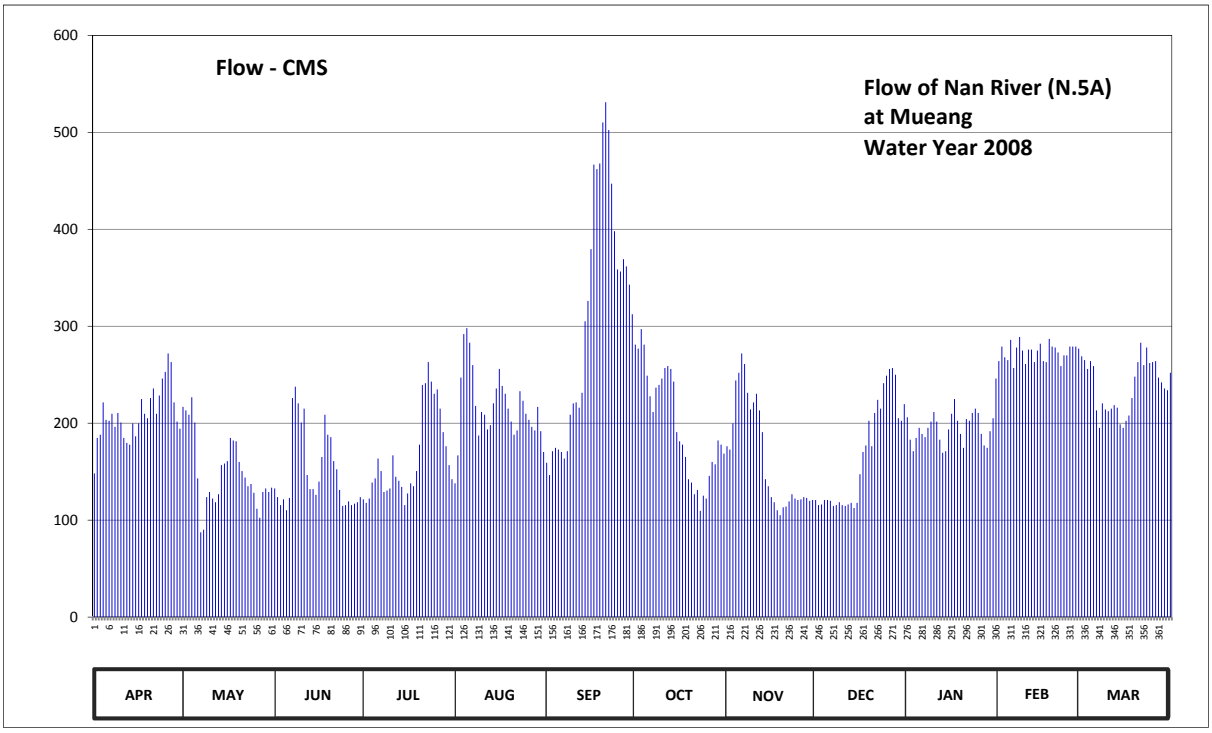
Location : on right bank near the Post Office and about 1 kilometer upstream from gaging station N.5

	Ban Nai Mueang	**Amphoe** Mueang	**Changwat** Phitsanulok
Drainge 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** +44.790 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1963 to date		
Rating Operation			
Period of Rating	1966 to date		
Rated by Float	-		
Rated by Current Meter	1966 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Naresuan Dam.		
	Stage-discharge relation defined by 19 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.32	37.11	36.13	35.98	36.20	36.45	37.78	36.65	35.97	36.99	37.61	37.66	
2	36.75	37.07	36.01	35.93	36.54	36.30	37.74	36.61	35.90	36.73	37.76	37.62	
3	36.79	37.02	35.90	35.99	37.44	36.59	37.94	36.92	35.91	36.59	37.65	37.53	
4	37.16	37.22	35.98	36.21	37.89	36.63	37.78	37.41	35.97	36.75	37.62	37.61	
5	36.96	36.93	35.83	36.26	37.95	36.61	37.46	37.49	35.97	36.87	37.83	37.56	
6	36.95	36.26	36.00	36.50	37.80	36.58	37.23	37.69	35.96	36.80	37.54	37.07	
7	37.03	35.50	37.21	36.35	37.57	36.50	37.05	37.58	35.89	36.76	37.75	36.87	
8	36.88	35.54	37.34	36.08	37.12	36.59	37.33	37.27	35.90	36.87	37.86	37.15	
9	37.04	36.01	37.15	36.10	36.78	37.02	37.36	37.08	35.94	36.94	37.72	37.08	
10	36.93	36.08	36.93	36.13	37.05	37.15	37.43	37.16	35.90	37.05	37.58	37.06	
11	36.75	35.99	37.09	36.54	37.02	37.16	37.54	37.26	35.89	36.94	37.73	37.09	
12	36.69	35.94	36.30	36.28	36.85	37.10	37.56	37.07	35.91	36.73	37.73	37.13	
13	36.67	36.05	36.12	36.23	36.90	37.27	37.53	36.82	35.93	36.57	37.60	37.10	
14	36.92	36.42	36.12	36.15	37.15	38.02	37.40	36.25	35.86	36.59	37.72	36.91	
15	36.77	36.44	36.04	35.90	37.32	38.22	36.82	36.16	35.93	36.85	37.79	36.87	
16	36.92	36.47	36.22	36.06	37.53	38.73	36.71	36.01	36.31	37.03	37.61	36.95	
17	37.20	36.75	36.52	36.20	37.35	39.51	36.67	35.94	36.58	37.20	37.60	37.01	
18	37.03	36.72	37.02	36.16	37.26	39.47	36.52	35.83	36.66	36.95	37.84	37.21	
19	36.98	36.71	36.79	36.35	37.09	39.52	36.25	35.76	36.95	36.80	37.76	37.45	
20	37.21	36.46	36.76	36.67	36.94	39.89	36.21	35.87	36.65	36.63	37.75	37.60	
21	37.32	36.35	36.47	37.36	36.79	40.07	36.05	35.88	37.04	36.97	37.70	37.80	
22	37.03	36.27	36.37	37.38	36.84	39.82	36.11	35.95	37.19	36.95	37.56	37.57	
23	37.24	36.16	36.11	37.60	37.29	39.34	35.82	36.05	37.09	37.04	37.67	37.75	
24	37.43	36.19	35.89	37.40	37.18	38.90	36.03	35.99	37.38	37.09	37.67	37.59	
25	37.50	36.07	35.90	37.26	37.03	38.53	35.99	35.97	37.46	37.04	37.76	37.60	
26	37.69	35.85	35.95	37.31	36.96	38.51	36.29	35.98	37.53	36.80	37.76	37.61	
27	37.60	35.72	35.90	37.09	36.88	38.63	36.46	36.01	37.54	36.66	37.76	37.44	
28	37.16	36.08	35.92	36.82	36.84	38.56	36.43	36.00	37.47	36.63	37.74	37.39	
29	36.94	36.13	35.94	36.65	37.11	38.38	36.72	35.96	36.98	36.83		37.32	
30	36.86	36.08	36.01	36.42	36.83	38.09	36.67	35.97	36.95	36.98		37.30	
31		36.14		36.25	36.58		36.56		37.14	37.43		37.49	
Mean	37.02	36.31	36.33	36.50	37.10	38.00	36.89	36.49	36.51	36.87	37.70	37.34	
Max	37.69	37.22	37.34	37.60	37.95	40.07	37.94	37.69	37.54	37.43	37.86	37.80	40.07
Min	36.32	35.50	35.83	35.90	36.20	36.30	35.82	35.76	35.86	36.57	37.54	36.87	35.50

Annual Max Momentary Gage Height	40.18	m. (MSL.) ,	at 11.00 Hours , on Sep 21, 2008		
Zero Gage at Bottom Elevation	34.50	m. (MSL.) ,	River Bed	33.49	m. (MSL.)
Left Bank Elevation	45.04	m. (MSL.) ,			
Right Bank Elevation	45.11	m. (MSL.) ,	Drainage Are	25,039	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	148.20	216.90	132.75	121.50	138.00	159.25	281.00	176.25	120.75	206.10	264.00	269.00		
2	184.75	213.30	123.75	117.75	166.90	146.50	277.00	172.85	115.50	183.05	279.00	265.00		
3	188.15	208.80	115.50	122.25	247.00	171.15	297.00	199.80	116.25	171.15	268.00	256.00		
4	221.40	226.80	121.50	138.85	292.00	174.55	281.00	244.00	120.75	184.75	265.00	264.00		
5	203.40	200.70	110.25	143.10	298.00	172.85	249.00	252.00	120.75	195.30	286.00	259.00		
6	202.50	143.10	123.00	163.50	283.00	170.30	227.70	272.00	120.00	189.00	257.00	213.30		
7	209.70	87.50	225.90	150.75	260.00	163.50	211.50	261.00	114.75	185.60	278.00	195.30		
8	196.20	90.10	237.60	129.00	217.80	171.15	236.70	231.30	115.50	195.30	289.00	220.50		
9	210.60	123.75	220.50	130.50	187.30	208.80	239.40	214.20	118.50	201.60	275.00	214.20		
10	200.70	129.00	200.70	132.75	211.50	220.50	246.00	221.40	115.50	211.50	261.00	212.40		
11	184.75	122.25	215.10	166.90	208.80	221.40	257.00	230.40	114.75	201.60	276.00	215.10		
12	179.65	118.50	146.50	144.80	193.50	216.00	259.00	213.30	116.25	183.05	276.00	218.70		
13	177.95	126.75	132.00	140.55	198.00	231.30	256.00	190.80	117.75	169.45	263.00	216.00		
14	199.80	156.70	132.00	134.25	220.50	305.10	243.00	142.25	112.50	171.15	275.00	198.90		
15	186.45	158.40	126.00	115.50	235.80	326.10	190.80	135.00	117.75	193.50	282.00	195.30		
16	199.80	160.95	139.70	127.50	256.00	379.65	181.35	123.75	147.35	209.70	264.00	202.50		
17	225.00	184.75	165.20	138.00	238.50	466.65	177.95	118.50	170.30	225.00	263.00	207.90		
18	209.70	182.20	208.80	135.00	230.40	462.05	165.20	110.25	177.10	202.50	287.00	225.90		
19	205.20	181.35	188.15	150.75	215.10	467.80	142.25	105.20	202.50	189.00	279.00	248.00		
20	225.90	160.10	185.60	177.95	201.60	510.35	138.85	113.25	176.25	174.55	278.00	263.00		
21	235.80	150.75	160.95	239.40	188.15	531.05	126.75	114.00	210.60	204.30	273.00	283.00		
22	209.70	143.95	152.45	241.20	192.60	502.30	131.25	119.25	224.10	202.50	259.00	260.00		
23	228.60	135.00	131.25	263.00	233.10	447.10	109.50	126.75	215.10	210.60	270.00	278.00		
24	246.00	137.25	114.75	243.00	223.20	398.00	125.25	122.25	241.20	215.10	270.00	262.00		
25	253.00	128.25	115.50	230.40	209.70	358.65	122.25	120.75	249.00	210.60	279.00	263.00		
26	272.00	111.75	119.25	234.90	203.40	356.55	145.65	121.50	256.00	189.00	279.00	264.00		
27	263.00	102.40	115.50	215.10	196.20	369.15	160.10	123.75	257.00	177.10	279.00	247.00		
28	221.40	129.00	117.00	190.80	192.60	361.80	157.55	123.00	250.00	174.55	277.00	242.10		
29	201.60	132.75	118.50	176.25	216.90	342.90	182.20	120.00	205.20	191.70		235.80		
30	194.40	129.00	123.75	156.70	191.70	312.45	177.95	120.75	202.50	205.20		234.00		
31		133.50		142.25	170.30		168.60		219.60	246.00		252.00		
Total	6285.30	4625.50	4519.40	5114.15	6717.55	9324.90	6164.75	4939.50	5161.05	6069.50	7651.00	7380.90	73953.50	CMSDAY
Mean	209.51	149.21	150.65	164.97	216.70	310.83	198.86	164.65	166.49	195.79	273.25	238.09	202.61	CMS
Max	272.00	226.80	237.60	263.00	298.00	531.05	297.00	272.00	257.00	246.00	289.00	283.00	531.05	CMS
Min	148.20	87.50	110.25	115.50	138.00	146.50	109.50	105.20	112.50	169.45	257.00	195.30	87.50	CMS
Runoff	543.05	399.64	390.48	441.86	580.40	805.67	532.63	426.77	445.91	524.40	661.05	637.71	6389.58	MCM

Momentary Peak 543.70 CMS. at 40.18 m. (MSL.) at 11.00 Hours , on Sep 21, 2008

Runoff Yield 8.09 Liters/Second/Square KM. Momentary Peak Yield 21.71 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 Phitthaya Khom School. **Elevation** +37.323 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2000 to date
Rating Operation	
Period of Rating	2000 to date
Rated by Float	-
Rated by Current Meter	2000 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 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

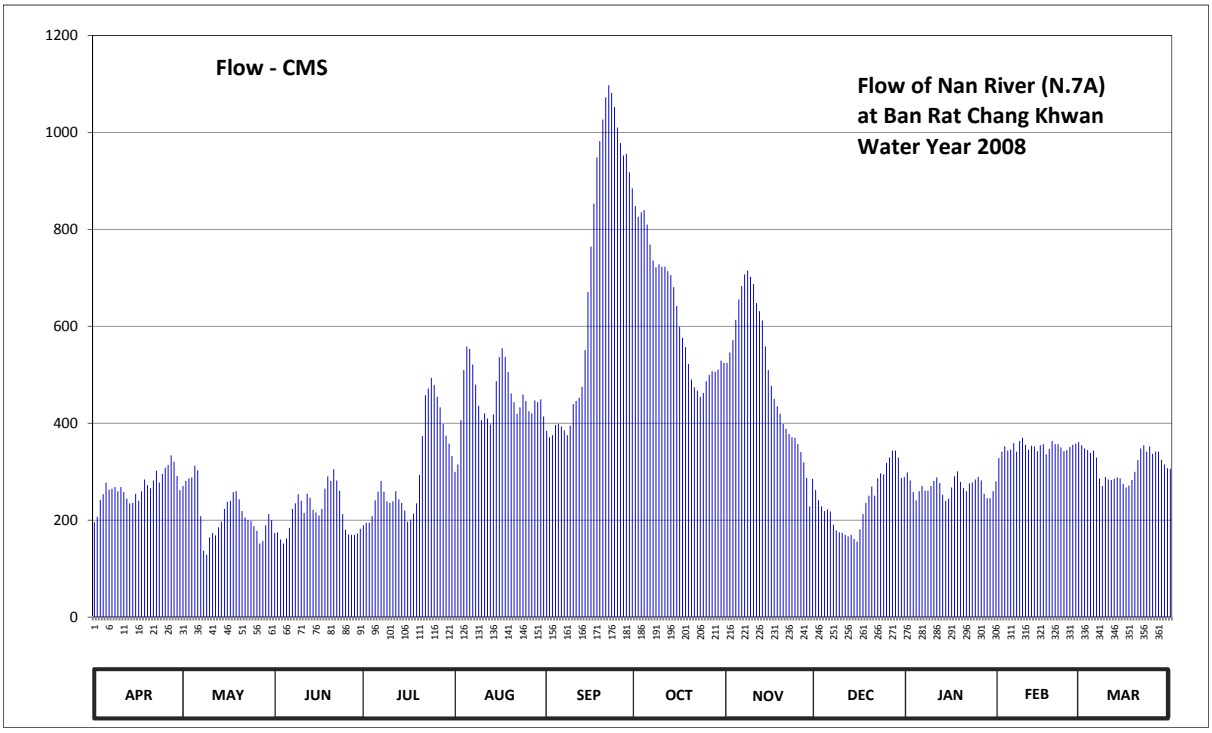
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.16	28.87	27.95	28.10	29.15	29.92	33.66	31.17	28.79	29.14	29.41	29.65	
2	28.27	28.97	27.96	28.15	29.29	29.80	33.52	31.35	28.59	28.98	29.53	29.59	
3	28.60	29.02	27.82	28.15	30.12	29.84	33.58	31.56	28.47	28.75	29.63	29.56	
4	28.71	29.04	27.74	28.28	31.04	30.03	33.61	31.91	28.38	28.59	29.55	29.51	
5	28.94	29.27	27.84	28.59	31.45	30.05	33.41	32.26	28.41	28.77	29.57	29.55	
6	28.80	29.18	28.05	28.76	31.41	30.00	33.13	32.48	28.37	28.87	29.69	29.42	
7	28.82	28.28	28.42	28.97	31.14	29.93	32.89	32.67	28.11	28.78	29.53	29.02	
8	28.85	27.60	28.53	28.76	30.78	29.84	32.78	32.73	28.00	28.78	29.73	28.87	
9	28.77	27.52	28.71	28.57	30.39	30.02	32.83	32.63	27.96	28.87	29.79	29.05	
10	28.85	27.86	28.58	28.54	30.12	30.42	32.79	32.51	27.95	28.97	29.66	29.00	
11	28.75	27.95	28.34	28.57	30.25	30.48	32.79	32.20	27.91	29.04	29.57	28.99	
12	28.62	27.90	28.72	28.77	30.15	30.54	32.72	32.06	27.88	28.93	29.64	29.01	
13	28.53	28.06	28.64	28.61	30.04	30.74	32.66	31.90	27.91	28.70	29.63	29.04	
14	28.54	28.17	28.40	28.54	30.23	31.39	32.46	31.45	27.83	28.58	29.54	29.02	
15	28.72	28.42	28.35	28.39	30.84	32.38	32.15	31.04	27.78	28.62	29.65	28.91	
16	28.58	28.56	28.29	28.17	31.27	33.10	31.79	30.76	28.02	28.84	29.67	28.84	
17	28.77	28.58	28.42	28.21	31.42	33.69	31.60	30.52	28.32	29.06	29.48	28.88	
18	29.00	28.75	28.82	28.33	31.27	34.24	31.44	30.38	28.54	29.16	29.58	28.99	
19	28.89	28.77	29.06	28.53	31.01	34.42	31.15	30.24	28.68	28.95	29.73	29.15	
20	28.83	28.61	28.97	29.09	30.62	34.64	30.87	30.05	28.86	28.83	29.67	29.37	
21	28.98	28.38	29.20	29.82	30.46	34.85	30.73	29.96	28.68	28.77	29.67	29.59	
22	29.17	28.25	28.98	30.59	30.24	34.96	30.67	29.86	29.02	28.92	29.61	29.65	
23	28.94	28.20	28.78	30.71	30.36	34.89	30.56	29.80	29.12	28.94	29.54	29.53	
24	29.11	28.18	28.32	30.90	30.60	34.76	30.63	29.79	29.10	29.00	29.56	29.63	
25	29.23	28.08	28.01	30.77	30.48	34.56	30.84	29.67	29.32	29.05	29.62	29.49	
26	29.28	27.99	27.92	30.56	30.29	34.40	30.95	29.52	29.42	28.98	29.66	29.53	
27	29.46	27.74	27.91	30.36	30.25	34.26	31.02	29.33	29.55	28.72	29.68	29.53	
28	29.34	27.79	27.91	30.05	30.49	34.28	31.01	29.03	29.55	28.63	29.71	29.38	
29	29.07	28.10	27.94	29.83	30.46	34.07	31.05	28.47	29.42	28.63		29.29	
30	28.79	28.32	28.03	29.68	30.51	33.88	31.21	29.01	29.03	28.77		29.22	
31		28.20		29.45	30.19		31.17		29.05	28.96		29.21	
Mean	28.85	28.34	28.35	29.12	30.53	32.35	31.99	30.88	28.58	28.86	29.62	29.27	
Max	29.46	29.27	29.20	30.90	31.45	34.96	33.66	32.73	29.55	29.16	29.79	29.65	34.96
Min	28.16	27.52	27.74	28.10	29.15	29.80	30.56	28.47	27.78	28.58	29.41	28.84	27.52

Annual Max Momentary Gage Height 34.96 m. (MSL.) , at 06.00 Hours , on Sep 22, 2008

Zero Gage at Bottom Elevation 26.00 m. (MSL.) , River Bed 24.99 m. (MSL.)

Left Bank Elevation 36.77 m. (MSL.) ,

Right Bank Elevation 37.26 m. (MSL.) , Drainage Are 27,897 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	195.80	270.35	173.75	189.50	299.75	384.20	847.90	524.55	261.95	298.70	328.10	354.50		
2	207.35	280.85	174.80	194.75	314.90	371.00	826.00	546.00	240.95	281.90	341.30	347.90		
3	242.00	286.10	160.10	194.75	406.20	375.40	835.00	571.20	228.35	257.75	352.30	344.60		
4	253.55	288.20	151.70	208.40	509.60	396.30	839.65	613.20	218.90	240.95	343.50	339.10		
5	277.70	312.70	162.20	240.95	558.00	398.50	809.50	655.50	222.05	259.85	345.70	343.50		
6	263.00	302.90	184.25	258.80	553.20	393.00	768.85	683.00	217.85	270.35	358.90	329.20		
7	265.10	208.40	223.10	280.85	521.10	385.30	735.70	707.10	190.55	260.90	341.30	286.10		
8	268.25	137.00	234.65	258.80	479.70	375.40	721.40	714.90	179.00	260.90	363.30	270.35		
9	259.85	128.60	253.55	238.85	435.90	395.20	727.90	701.90	174.80	270.35	369.90	289.25		
10	268.25	164.30	239.90	235.70	406.20	439.20	722.70	686.75	173.75	280.85	355.60	284.00		
11	257.75	173.75	214.70	238.85	420.50	445.80	722.70	648.00	169.55	288.20	345.70	282.95		
12	244.10	168.50	254.60	259.85	409.50	452.40	713.60	631.20	166.40	276.65	353.40	285.05		
13	234.65	185.30	246.20	243.05	397.40	475.10	705.80	612.00	169.55	252.50	352.30	288.20		
14	235.70	196.85	221.00	235.70	418.30	550.80	680.50	558.00	161.15	239.90	342.40	286.10		
15	254.60	223.10	215.75	219.95	486.60	670.50	642.00	509.60	155.90	244.10	354.50	274.55		
16	239.90	237.80	209.45	196.85	536.40	764.50	598.80	477.40	181.10	267.20	356.70	267.20		
17	259.85	239.90	223.10	201.05	554.40	852.85	576.00	450.20	212.60	290.30	335.80	271.40		
18	284.00	257.75	265.10	213.65	536.40	948.40	556.80	434.80	235.70	300.80	346.80	282.95		
19	272.45	259.85	290.30	234.65	506.15	982.00	522.25	419.40	250.40	278.75	363.30	299.75		
20	266.15	243.05	280.85	293.45	461.30	1026.60	490.05	398.50	269.30	266.15	356.70	323.70		
21	281.90	218.90	305.00	373.20	443.60	1072.25	473.95	388.60	250.40	259.85	356.70	347.90		
22	301.85	205.25	281.90	457.90	419.40	1097.00	467.05	377.60	286.10	275.60	350.10	354.50		
23	277.70	200.00	260.90	471.65	432.60	1081.25	454.60	371.00	296.60	277.70	342.40	341.30		
24	295.55	197.90	212.60	493.50	459.00	1052.40	462.45	369.90	294.50	284.00	344.60	352.30		
25	308.30	187.40	180.05	478.55	445.80	1010.00	486.60	356.70	318.20	289.25	351.20	336.90		
26	313.80	177.95	170.60	454.60	424.90	978.00	499.25	340.20	329.20	281.90	355.60	341.30		
27	333.60	151.70	169.55	432.60	420.50	952.10	507.30	319.30	343.50	254.60	357.80	341.30		
28	320.40	156.95	169.55	398.50	446.90	955.80	506.15	287.15	343.50	245.15	361.10	324.80		
29	291.35	189.50	172.70	374.30	443.60	917.60	510.75	228.35	329.20	245.15		314.90		
30	261.95	212.60	182.15	357.80	449.10	884.60	529.20	285.05	287.15	259.85		307.20		
31		200.00		332.50	413.90		524.55		289.25	279.80		306.10		
Total	8036.40	6663.40	6484.05	9263.50	14010.80	21083.45	19464.95	14867.05	7447.40	8339.90	9827.00	9718.85	135206.75	CMSDAY
Mean	267.88	214.95	216.13	298.82	451.96	702.78	627.90	495.57	240.24	269.03	350.96	313.51	370.43	CMS
Max	333.60	312.70	305.00	493.50	558.00	1097.00	847.90	714.90	343.50	300.80	369.90	354.50	1097.00	CMS
Min	195.80	128.60	151.70	189.50	299.75	371.00	454.60	228.35	155.90	239.90	328.10	267.20	128.60	CMS
Runoff	694.34	575.72	560.22	800.37	1210.53	1821.61	1681.77	1284.51	643.46	720.57	849.05	839.71	11681.86	MCM

Momentary Peak 1097.00 CMS. at 34.96 m. (MSL.) at 06.00 Hours , on Sep 22, 2008

Runoff Yield 13.28 Liters/Second/Square KM. Momentary Peak Yield 39.32 Liters/Second/Square KM.

WATER YEAR : 2008

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.
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, 12.00, and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	2000 to date
Rating Operation	
Period of Rating	2000 to date
Rated by Float	-
Rated by Current Meter	2000 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 19 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

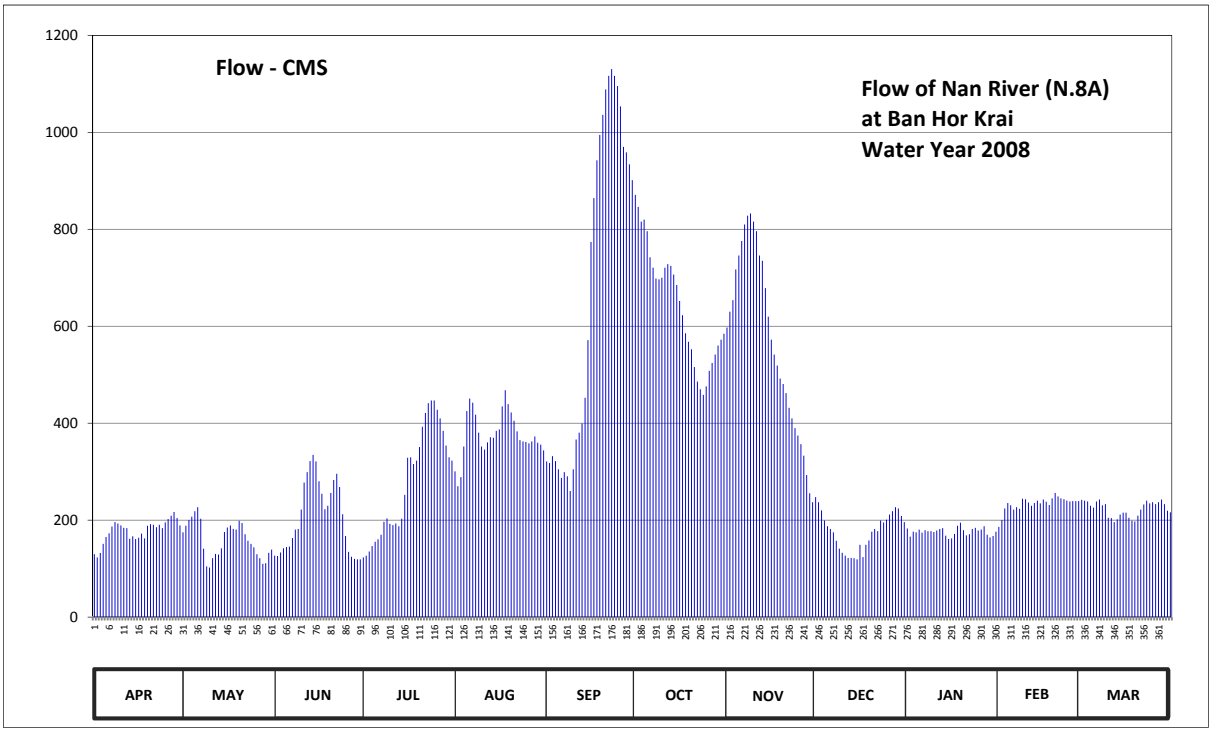
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.53	23.20	22.48	22.42	24.82	25.06	29.40	27.85	24.18	23.31	23.36	24.11	
2	22.42	23.39	22.47	22.48	24.46	25.02	29.29	28.09	24.05	23.07	23.56	24.09	
3	22.57	23.56	22.59	22.62	24.68	25.19	29.15	28.25	23.84	23.22	23.89	24.07	
4	22.86	23.66	22.72	22.79	25.41	25.07	29.17	28.64	23.55	23.20	24.03	23.96	
5	23.06	23.82	22.76	22.92	26.18	24.87	29.05	28.80	23.38	23.28	23.97	23.91	
6	23.17	23.92	22.78	22.99	26.45	24.66	28.78	28.95	23.30	23.19	23.86	24.07	
7	23.37	23.60	23.03	23.13	26.36	24.80	28.66	29.12	23.20	23.26	23.92	24.12	
8	23.50	22.71	23.28	23.51	26.10	24.70	28.53	29.21	22.95	23.23	23.88	23.97	
9	23.46	22.11	23.30	23.61	25.71	24.34	28.52	29.23	22.71	23.23	24.14	24.00	
10	23.40	22.07	23.86	23.45	25.41	24.87	28.54	29.15	22.58	23.21	24.13	23.63	
11	23.33	22.39	24.55	23.41	25.34	25.56	28.66	29.05	22.48	23.25	24.04	23.62	
12	23.32	22.54	24.80	23.46	25.50	25.71	28.70	28.80	22.40	23.30	23.96	23.50	
13	23.01	22.52	25.07	23.38	25.61	25.91	28.68	28.74	22.40	23.32	24.03	23.58	
14	23.08	22.72	25.22	23.60	25.60	26.47	28.58	28.41	22.39	23.10	24.09	23.72	
15	23.00	23.21	25.06	24.24	25.75	27.62	28.45	28.02	22.35	23.00	24.02	23.78	
16	23.04	23.34	24.58	25.15	25.78	28.94	28.24	27.63	22.83	23.02	24.12	23.78	
17	23.16	23.40	24.27	25.16	26.28	29.37	28.04	27.35	22.43	23.15	24.06	23.63	
18	23.02	23.30	23.87	25.00	26.63	29.66	27.75	27.14	22.83	23.39	23.98	23.54	
19	23.39	23.28	23.96	25.08	26.33	29.84	27.59	26.87	22.96	23.48	24.15	23.52	
20	23.44	23.54	24.29	25.40	26.15	29.96	27.45	26.76	23.22	23.26	24.29	23.69	
21	23.42	23.47	24.61	25.84	25.97	30.11	27.11	26.57	23.30	23.11	24.20	23.86	
22	23.35	23.14	24.76	26.14	25.74	30.19	26.81	26.25	23.23	23.14	24.15	23.99	
23	23.42	22.95	24.44	26.35	25.55	30.23	26.65	26.02	23.55	23.30	24.13	24.09	
24	23.32	22.86	23.73	26.41	25.52	30.19	26.53	25.81	23.49	23.33	24.09	24.02	
25	23.49	22.75	23.09	26.41	25.51	30.13	26.71	25.65	23.57	23.25	24.07	24.05	
26	23.59	22.53	22.61	26.21	25.48	30.01	27.03	25.46	23.72	23.28	24.08	24.00	
27	23.69	22.39	22.44	26.02	25.52	29.76	27.19	25.20	23.82	23.38	24.08	24.05	
28	23.80	22.20	22.37	25.75	25.63	29.72	27.35	24.73	23.92	23.13	24.08	24.12	
29	23.62	22.22	22.35	25.43	25.49	29.63	27.52	24.28	23.89	23.05		24.00	
30	23.40	22.58	22.35	25.16	25.45	29.51	27.63	24.05	23.68	23.09		23.83	
31		22.68		25.08	25.32		27.74		23.50	23.22		23.79	
Mean	23.24	22.97	23.59	24.47	25.67	27.57	28.05	27.34	23.22	23.22	24.01	23.87	
Max	23.80	23.92	25.22	26.41	26.63	30.23	29.40	29.23	24.18	23.48	24.29	24.12	30.23
Min	22.42	22.07	22.35	22.42	24.46	24.34	26.53	24.05	22.35	23.00	23.36	23.50	22.07

Annual Max Momentary Gage Height 30.23 m. (MSL.) , at 06.00 Hours , on Sep 23, 2008

Zero Gage at Bottom Elevation 20.00 m. (MSL.) , River Bed 19.79 m. (MSL.)

Left Bank Elevation 31.28 m. (MSL.) ,

Right Bank Elevation 31.73 m. (MSL.) , Drainage Are 31,472 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	129.80	175.00	126.80	123.20	300.70	321.10	871.00	597.50	247.40	182.70	186.20	241.80		
2	123.20	188.30	126.20	126.80	270.10	317.70	846.30	630.00	237.00	165.90	200.20	240.20		
3	132.20	200.20	133.40	135.30	288.80	332.10	816.00	653.70	220.20	176.40	224.20	238.60		
4	151.20	207.20	141.80	146.40	352.00	321.90	820.00	717.20	199.50	175.00	235.40	229.80		
5	165.20	218.60	144.40	155.40	425.10	305.00	796.00	746.00	187.60	180.60	230.60	225.80		
6	172.90	226.60	145.70	160.30	450.80	287.10	742.40	776.00	182.00	174.30	221.80	238.60		
7	186.90	203.00	163.10	170.10	442.20	299.00	720.80	810.00	175.00	179.20	226.60	242.60		
8	196.00	141.10	180.60	196.70	417.50	290.50	698.50	828.20	157.50	177.10	223.40	230.60		
9	193.20	104.60	182.00	203.70	380.40	260.20	696.80	832.70	141.10	177.10	244.20	233.00		
10	189.00	102.20	221.80	192.50	352.00	305.00	700.10	816.00	132.80	175.70	243.40	205.10		
11	184.10	121.40	277.70	189.70	345.60	366.20	720.80	796.00	126.80	178.50	236.20	204.40		
12	183.40	130.40	299.00	193.20	360.50	380.40	728.00	746.00	122.00	182.00	229.80	196.00		
13	161.70	129.20	321.90	187.60	371.00	399.40	724.40	735.20	122.00	183.40	235.40	201.60		
14	166.60	141.80	334.80	203.00	370.00	452.60	706.70	678.70	121.40	168.00	240.20	211.40		
15	161.00	175.70	321.10	252.20	384.30	571.20	685.30	619.90	119.00	161.00	234.60	215.60		
16	163.80	184.80	280.30	328.70	387.10	774.00	652.20	572.30	149.10	162.40	242.60	215.60		
17	172.20	189.00	254.60	329.60	434.60	864.30	622.80	541.50	123.80	171.50	237.80	205.10		
18	162.40	182.00	222.60	316.00	468.00	942.50	585.50	519.00	149.10	188.30	231.40	198.80		
19	188.30	180.60	229.80	322.80	439.30	994.80	567.90	492.00	158.20	194.60	245.00	197.40		
20	191.80	198.80	256.20	351.00	422.20	1036.20	552.50	481.00	176.40	179.20	256.20	209.30		
21	190.40	193.90	282.90	392.80	405.10	1088.50	516.00	462.10	182.00	168.70	249.00	221.80		
22	185.50	170.80	295.60	421.30	383.30	1116.50	486.00	431.70	177.10	170.80	245.00	232.20		
23	190.40	157.50	268.40	441.30	365.20	1130.50	470.00	409.90	199.50	182.00	243.40	240.20		
24	183.40	151.20	212.10	446.90	362.40	1116.50	458.40	389.90	195.30	184.10	240.20	234.60		
25	195.30	143.80	167.30	446.90	361.50	1095.50	476.00	374.70	200.90	178.50	238.60	237.00		
26	202.30	129.80	134.70	427.90	358.60	1053.50	508.00	356.70	211.40	180.60	239.40	233.00		
27	209.30	121.40	124.40	409.90	362.40	970.00	524.00	333.00	218.60	187.60	239.40	237.00		
28	217.00	110.00	120.20	384.30	372.80	959.00	541.50	293.00	226.60	170.10	239.40	242.60		
29	204.40	111.20	119.00	353.90	359.60	934.20	560.20	255.40	224.20	164.50		233.00		
30	189.00	132.80	119.00	329.60	355.80	901.30	572.30	237.00	208.60	167.30		219.40		
31		139.20		322.80	343.80		584.40		196.00	176.40		216.30		
Total	5341.90	4962.10	6207.40	8661.80	11692.70	20186.70	19950.80	17132.30	5488.10	5463.50	6559.60	6928.40	118575.30	CMSDAY
Mean	178.06	160.07	206.91	279.41	377.18	672.89	643.57	571.08	177.04	176.24	234.27	223.50	324.86	CMS
Max	217.00	226.60	334.80	446.90	468.00	1130.50	871.00	832.70	247.40	194.60	256.20	242.60	1130.50	CMS
Min	123.20	102.20	119.00	123.20	270.10	260.20	458.40	237.00	119.00	161.00	186.20	196.00	102.20	CMS
Runoff	461.54	428.73	536.32	748.38	1010.25	1744.13	1723.75	1480.23	474.17	472.05	566.75	598.61	10244.91	MCM

Momentary Peak 1130.50 CMS. at 30.23 m. (MSL.) at 06.00 Hours , on Sep 23, 2008

Runoff Yield 10.32 Liters/Second/Square KM. Momentary Peak Yield 35.92 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	30,328 sq.km.
Type of Gage	Water - stage recorder.
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	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1969 to date
Rating Operation	
Period of Rating	1974 - 1979, 1991 to date
Rated by Float	-
Rated by Current Meter	1974 - 1982, 1987, 1991 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by Naresuan Dam. Stage-discharge relation defined by 6 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

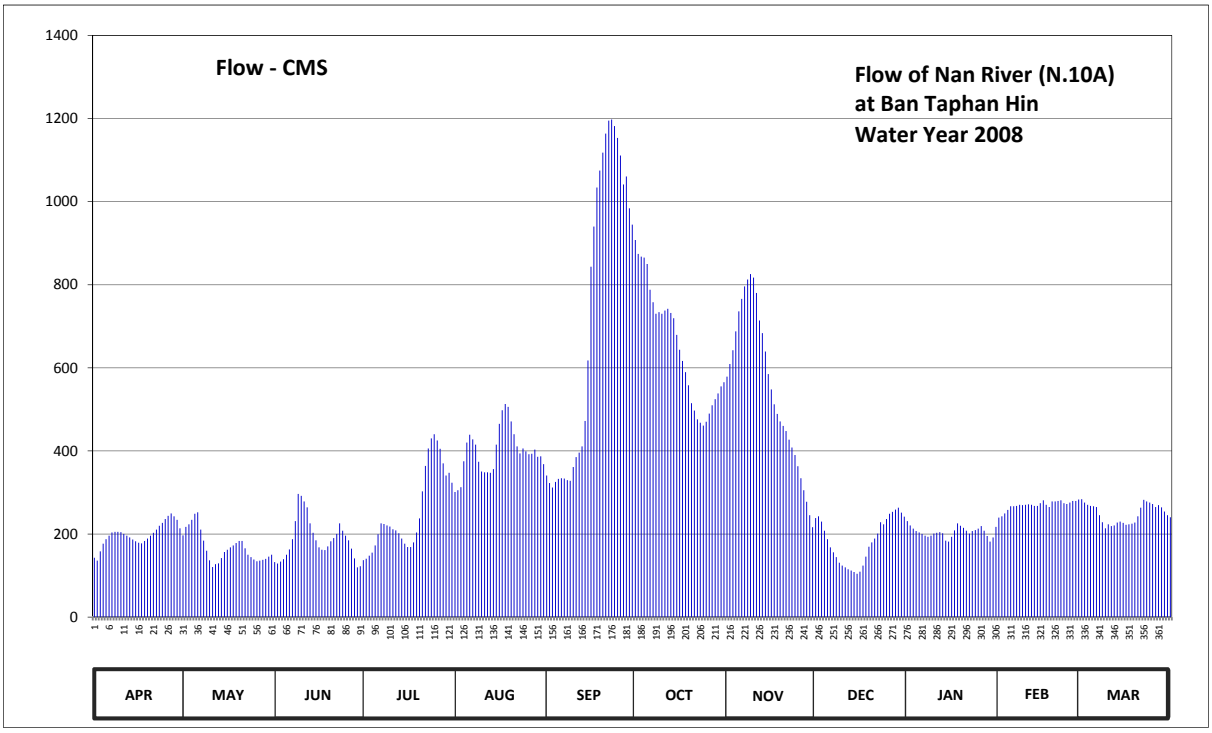
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	23.94	24.61	23.79	23.86	25.80	26.24	30.46	28.54	25.10	25.01	25.11	25.61	
2	23.84	24.85	23.74	23.91	25.85	26.04	30.31	28.79	25.15	24.89	25.15	25.52	
3	24.14	24.92	23.81	24.01	25.93	25.92	30.28	29.05	25.00	24.80	25.23	25.46	
4	24.37	25.05	23.89	24.10	26.59	26.07	30.27	29.37	24.74	24.73	25.32	25.43	
5	24.50	25.22	24.04	24.32	27.04	26.15	30.20	29.65	24.50	24.69	25.42	25.42	
6	24.60	25.26	24.20	24.64	27.23	26.17	29.91	29.80	24.26	24.65	25.42	25.40	
7	24.69	24.77	24.50	24.95	27.12	26.16	29.76	29.95	24.11	24.60	25.43	25.18	
8	24.71	24.46	25.01	24.93	26.99	26.12	29.62	30.03	23.96	24.57	25.46	24.98	
9	24.71	24.16	25.75	24.89	26.58	26.10	29.64	30.09	23.77	24.60	25.45	24.81	
10	24.70	23.85	25.70	24.86	26.34	26.45	29.62	30.05	23.67	24.66	25.46	24.92	
11	24.65	23.62	25.55	24.78	26.32	26.69	29.66	29.87	23.61	24.68	25.47	24.87	
12	24.60	23.72	25.39	24.75	26.32	26.80	29.68	29.53	23.54	24.70	25.46	24.89	
13	24.55	23.75	24.95	24.67	26.31	26.95	29.63	29.34	23.49	24.67	25.43	24.97	
14	24.49	23.93	24.68	24.52	26.40	27.56	29.56	29.03	23.44	24.46	25.43	25.00	
15	24.44	24.12	24.47	24.37	26.99	28.86	29.31	28.59	23.37	24.43	25.50	24.96	
16	24.40	24.19	24.26	24.27	27.49	30.17	29.06	28.29	23.45	24.57	25.58	24.91	
17	24.38	24.26	24.19	24.27	27.82	30.60	28.85	27.96	23.67	24.75	25.46	24.92	
18	24.45	24.32	24.18	24.41	27.97	31.00	28.63	27.73	23.98	24.95	25.40	24.94	
19	24.52	24.39	24.29	24.69	27.90	31.17	28.37	27.55	24.28	24.88	25.55	24.97	
20	24.60	24.45	24.44	25.09	27.55	31.35	27.99	27.44	24.41	24.82	25.55	25.15	
21	24.68	24.45	24.53	25.82	27.24	31.53	27.81	27.32	24.52	24.74	25.56	25.38	
22	24.77	24.23	24.65	26.48	26.95	31.65	27.60	27.11	24.66	24.66	25.58	25.59	
23	24.88	24.04	24.95	26.90	26.78	31.66	27.52	26.92	24.98	24.73	25.50	25.55	
24	24.96	23.96	24.74	27.14	26.90	31.60	27.45	26.74	24.92	24.76	25.48	25.52	
25	25.07	23.88	24.60	27.24	26.83	31.49	27.54	26.47	25.07	24.80	25.52	25.48	
26	25.16	23.82	24.47	27.09	26.76	31.32	27.74	26.17	25.22	24.87	25.56	25.40	
27	25.23	23.84	24.22	26.89	26.77	31.03	27.94	25.85	25.27	24.74	25.56	25.45	
28	25.15	23.87	23.92	26.54	26.87	31.11	28.08	25.54	25.33	24.59	25.60	25.39	
29	25.05	23.90	23.61	26.24	26.70	30.79	28.21	25.18	25.38	24.43		25.28	
30	24.81	23.98	23.65	26.31	26.71	30.62	28.35	24.84	25.25	24.55		25.18	
31		24.04		26.05	26.52		28.43		25.14	24.85		25.12	
Mean	24.63	24.26	24.47	25.26	26.82	28.85	28.95	28.09	24.43	24.70	25.45	25.21	
Max	25.23	25.26	25.75	27.24	27.97	31.66	30.46	30.09	25.38	25.01	25.60	25.61	31.66
Min	23.84	23.62	23.61	23.86	25.80	25.92	27.45	24.84	23.37	24.43	25.11	24.81	23.37

Annual Max Momentary Gage Height 31.67 m. (MSL.) , at 06.00 Hours , on Sep 23, 2008

Zero Gage at Bottom Elevation 22.28 m. (MSL.) , River Bed 19.06 m. (MSL.)

Left Bank Elevation 33.10 m. (MSL.) ,

Right Bank Elevation 33.12 m. (MSL.) , Drainage Are 30,328 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	142.80	196.85	132.30	137.20	301.00	340.80	907.80	578.65	238.50	230.85	239.35	283.90		
2	135.80	217.25	128.80	140.70	305.50	322.60	874.20	609.28	242.75	220.65	242.75	275.80		
3	158.20	223.20	133.70	147.80	312.70	311.80	867.60	642.13	230.00	213.00	249.70	270.40		
4	176.60	234.25	139.30	155.00	375.00	325.30	865.40	687.73	207.90	207.05	257.80	267.70		
5	187.50	248.80	150.20	172.60	420.00	332.50	850.00	736.00	187.50	203.65	266.80	266.80		
6	196.00	252.40	163.00	199.40	439.00	334.30	788.00	766.00	167.80	200.25	266.80	265.00		
7	203.65	210.45	187.50	225.75	428.00	333.40	758.00	796.00	155.80	196.00	267.70	245.30		
8	205.35	184.10	230.85	224.05	415.00	329.80	730.00	812.60	144.20	193.45	270.40	228.30		
9	205.35	159.80	296.50	220.65	374.00	328.00	734.00	825.80	130.90	196.00	269.50	213.85		
10	204.50	136.50	292.00	218.10	350.30	361.00	730.00	817.00	123.90	201.10	270.40	223.20		
11	200.25	120.40	278.50	211.30	348.40	385.00	738.00	780.00	119.70	202.80	271.30	218.95		
12	196.00	127.40	264.10	208.75	348.40	396.00	742.00	714.10	115.15	204.50	270.40	220.65		
13	191.75	129.50	225.75	201.95	347.45	411.00	732.00	683.45	111.94	201.95	267.70	227.45		
14	186.65	142.10	202.80	189.20	356.00	472.00	719.20	639.28	108.73	184.10	267.70	230.00		
15	182.40	156.60	184.95	176.60	415.00	617.85	679.18	584.78	104.24	181.55	274.00	226.60		
16	179.00	162.20	167.80	168.60	465.00	843.40	643.55	548.03	109.38	193.45	281.20	222.35		
17	177.40	167.80	162.20	168.60	498.00	940.00	616.63	512.00	123.90	208.75	270.40	223.20		
18	183.25	172.60	161.40	179.85	513.00	1034.00	589.68	489.00	145.60	225.75	265.00	224.90		
19	189.20	178.20	170.20	203.65	506.00	1074.80	557.83	471.00	169.40	219.80	278.50	227.45		
20	196.00	183.25	182.40	237.65	471.00	1118.00	515.00	460.00	179.85	214.70	278.50	242.75		
21	202.80	183.25	190.05	302.80	440.00	1163.80	497.00	448.00	189.20	207.90	279.40	263.20		
22	210.45	165.40	200.25	364.00	411.00	1195.00	476.00	427.00	201.10	201.10	281.20	282.10		
23	219.80	150.20	225.75	406.00	394.00	1197.60	468.00	408.00	228.30	207.05	274.00	278.50		
24	226.60	144.20	207.90	430.00	406.00	1182.00	461.00	390.00	223.20	209.60	272.20	275.80		
25	235.95	138.60	196.00	440.00	399.00	1153.40	470.00	363.00	235.95	213.00	275.80	272.20		
26	243.60	134.40	184.95	425.00	392.00	1110.80	490.00	334.30	248.80	218.95	279.40	265.00		
27	249.70	135.80	164.60	405.00	393.00	1041.20	510.00	305.50	253.30	207.90	279.40	269.50		
28	242.75	137.90	141.40	370.00	403.00	1060.40	524.40	277.60	258.70	195.15	283.00	264.10		
29	234.25	140.00	119.70	340.80	386.00	983.70	538.23	245.30	263.20	181.55		254.20		
30	213.85	145.60	122.50	347.45	387.00	944.60	555.38	216.40	251.50	191.75		245.30		
31		150.20		323.50	368.00		565.18		241.90	217.25		240.20		
Total	5977.40	5229.20	5607.35	7941.95	12367.75	21644.05	20193.26	16567.93	5712.29	6350.55	7550.30	7714.65	122856.68	CMSDAY
Mean	199.25	168.68	186.91	256.19	398.96	721.47	651.40	552.26	184.27	204.86	269.65	248.86	336.59	CMS
Max	249.70	252.40	296.50	440.00	513.00	1197.60	907.80	825.80	263.20	230.85	283.00	283.90	1197.60	CMS
Min	135.80	120.40	119.70	137.20	301.00	311.80	461.00	216.40	104.24	181.55	239.35	213.85	104.24	CMS
Runoff	516.45	451.80	484.48	686.18	1068.57	1870.05	1744.70	1431.47	493.54	548.69	652.35	666.55	10614.82	MCM

Momentary Peak 1200.20 CMS. at 31.67 m. (MSL.) at 06.00 Hours , on Sep 23, 2008

Runoff Yield 11.10 Liters/Second/Square KM. Momentary Peak Yield 39.57 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1966 to date
Rating Operation	
Period of Rating	1966 to date
Rated by Float	-
Rated by Current Meter	1966 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Sirikit Dam reservoir about 6 kilometers above gage site. Stage-discharge relation defined by 18 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

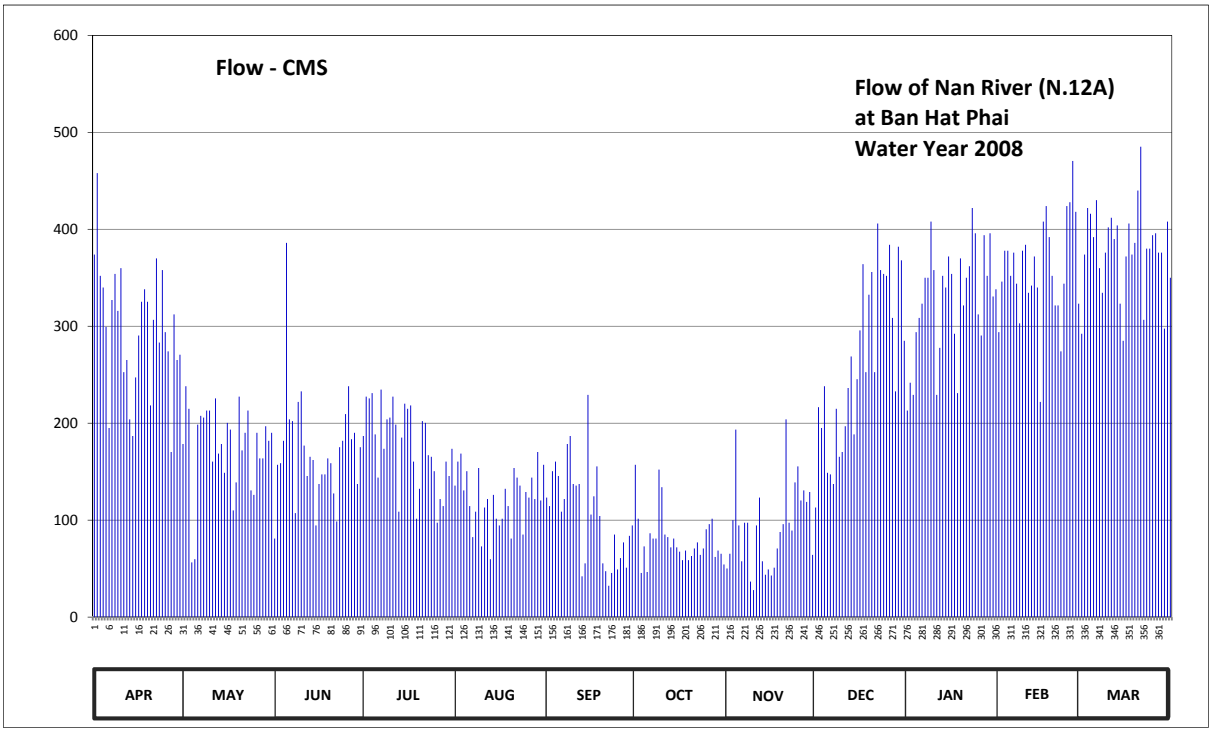
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	72.57	71.50	70.86	71.55	71.24	71.16	71.37	70.59	71.09	71.70	72.15	72.14	
2	72.99	71.84	71.37	71.78	71.39	71.10	71.01	70.73	71.72	71.86	72.43	72.57	
3	72.46	71.71	71.38	71.77	71.44	71.33	70.54	71.00	71.60	71.79	72.59	72.81	
4	72.40	70.65	71.52	71.80	71.21	71.39	70.80	71.59	71.84	72.15	72.59	72.78	
5	72.18	70.68	72.63	71.56	71.33	71.30	70.55	70.96	71.32	72.23	72.46	72.66	
6	71.60	71.62	71.65	71.29	71.10	71.06	70.90	70.66	71.31	72.31	72.58	72.85	
7	72.33	71.67	71.64	71.82	70.87	71.15	70.86	70.98	71.25	72.45	72.42	72.50	
8	72.47	71.66	71.05	71.47	71.06	71.50	70.86	70.98	71.71	72.45	72.20	72.37	
9	72.27	71.70	71.75	71.65	71.35	71.55	71.34	70.44	71.42	72.74	72.59	72.58	
10	72.50	71.70	71.81	71.66	70.80	71.25	71.23	70.32	71.45	72.49	72.62	72.71	
11	71.92	71.39	71.49	71.78	71.09	71.24	70.89	70.96	71.61	71.79	72.37	72.76	
12	71.99	71.77	71.30	71.62	71.15	71.25	70.87	71.16	71.83	72.06	72.41	72.65	
13	71.65	71.44	71.42	71.06	70.68	70.50	70.79	70.66	72.01	72.46	72.56	72.72	
14	71.55	71.50	71.40	71.54	71.18	70.64	70.86	70.52	71.56	72.40	72.40	72.31	
15	71.89	71.32	70.96	71.74	71.01	71.79	70.79	70.58	71.88	72.56	71.75	72.10	
16	72.13	71.63	71.25	71.71	70.96	71.04	70.75	70.51	72.16	72.47	72.74	72.56	
17	72.32	71.59	71.31	71.73	71.01	71.17	70.67	70.60	72.52	72.14	72.82	72.73	
18	72.39	71.07	71.31	71.39	71.22	71.36	70.76	70.78	71.92	71.80	72.66	72.57	
19	72.32	71.26	71.41	71.01	71.10	71.03	70.67	70.91	72.36	72.55	72.46	72.63	
20	71.73	71.78	71.38	71.22	70.86	70.64	70.71	70.97	72.48	72.30	72.30	72.90	
21	72.22	71.46	71.19	71.64	71.35	70.56	70.78	71.65	71.92	72.45	72.30	73.12	
22	72.55	71.57	70.99	71.63	71.29	70.39	70.83	70.98	72.73	72.51	72.04	72.22	
23	72.09	71.70	71.48	71.43	71.24	70.54	70.72	70.92	72.49	72.81	72.42	72.60	
24	72.49	71.21	71.52	71.42	70.89	70.89	70.78	71.26	72.47	72.68	72.82	72.60	
25	72.15	71.18	71.68	71.33	71.20	70.58	70.93	71.36	72.46	72.25	72.84	72.67	
26	72.04	71.57	71.84	70.98	71.16	70.69	70.97	71.14	72.62	72.13	73.05	72.68	
27	71.45	71.41	71.53	71.15	71.29	70.83	71.01	71.21	72.23	72.67	72.79	72.58	
28	72.25	71.41	71.57	71.10	71.15	70.60	70.70	71.13	71.81	72.46	72.31	72.58	
29	71.99	71.61	71.25	71.39	71.45	70.88	70.76	71.20	72.61	72.68		72.17	
30	72.02	71.52	71.48	71.30	71.14	70.96	70.73	70.72	72.54	72.35		72.74	
31		71.57		71.47	71.37		70.63		72.10	72.39		72.45	
Mean	72.16	71.47	71.45	71.48	71.15	71.01	70.84	70.92	71.97	72.33	72.49	72.59	
Max	72.99	71.84	72.63	71.82	71.45	71.79	71.37	71.65	72.73	72.81	73.05	73.12	73.12
Min	71.45	70.65	70.86	70.98	70.68	70.39	70.54	70.32	71.09	71.70	71.75	72.10	70.32

Annual Max Momentary Gage Height 74.46 m. (MSL.) , at 18.00 Hours , on Feb 26, 2008

Zero Gage at Bottom Elevation 69.00 m. (MSL.) , River Bed 67.31 m. (MSL.)

Left Bank Elevation 82.62 m. (MSL.) ,

Right Bank Elevation 84.73 m. (MSL.) , Drainage Are 15,579 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	374.00	178.50	81.10	186.75	135.60	123.20	157.05	50.10	113.05	213.00	294.00	292.20		
2	458.00	238.20	157.05	227.40	160.35	114.50	101.45	65.30	216.60	241.80	346.00	374.00		
3	352.00	214.80	158.70	225.60	168.60	150.45	45.60	100.00	195.00	229.20	378.00	422.00		
4	340.00	56.50	181.80	231.00	130.65	160.35	73.00	193.35	238.20	294.00	378.00	416.00		
5	299.40	59.80	386.00	188.40	150.45	145.50	46.50	94.60	148.80	308.55	352.00	392.00		
6	195.00	198.60	204.00	143.85	114.50	108.70	86.50	57.60	147.15	323.35	376.00	430.00		
7	327.05	207.60	202.20	234.60	82.45	121.75	81.10	97.30	137.25	350.00	344.00	360.00		
8	354.00	205.80	107.25	173.55	108.70	178.50	81.10	97.30	214.80	350.00	303.00	334.45		
9	315.95	213.00	222.00	204.00	153.75	186.75	152.10	36.60	165.30	408.00	378.00	376.00		
10	360.00	213.00	232.80	205.80	73.00	137.25	133.95	27.80	170.25	358.00	384.00	402.00		
11	252.60	160.35	176.85	227.40	113.05	135.60	85.15	94.60	196.80	229.20	334.45	412.00		
12	265.20	225.60	145.50	198.60	121.75	137.25	82.45	123.20	236.40	277.80	342.00	390.00		
13	204.00	168.60	165.30	108.70	59.80	42.00	71.90	57.60	268.80	352.00	372.00	404.00		
14	186.75	178.50	162.00	185.10	126.10	55.40	81.10	43.80	188.40	340.00	340.00	323.35		
15	247.20	148.80	94.60	220.20	101.45	229.20	71.90	49.20	245.40	372.00	222.00	285.00		
16	290.40	200.40	137.25	214.80	94.60	105.80	67.50	42.90	295.80	354.00	408.00	372.00		
17	325.20	193.35	147.15	218.40	101.45	124.65	58.70	51.00	364.00	292.20	424.00	406.00		
18	338.15	110.15	147.15	160.35	132.30	155.40	68.60	70.80	252.60	231.00	392.00	374.00		
19	325.20	138.90	163.65	101.45	114.50	104.35	58.70	87.85	332.60	370.00	352.00	386.00		
20	218.40	227.40	158.70	132.30	81.10	55.40	63.10	95.95	356.00	321.50	321.50	440.00		
21	306.70	171.90	127.55	202.20	153.75	47.40	70.80	204.00	252.60	350.00	321.50	485.20		
22	370.00	190.05	98.65	200.40	143.85	32.35	77.05	97.30	406.00	362.00	274.20	306.70		
23	283.20	213.00	175.20	166.95	135.60	45.60	64.20	89.20	358.00	422.00	344.00	380.00		
24	358.00	130.65	181.80	165.30	85.15	85.15	70.80	138.90	354.00	396.00	424.00	380.00		
25	294.00	126.10	209.40	150.45	129.00	49.20	90.55	155.40	352.00	312.25	428.00	394.00		
26	274.20	190.05	238.20	97.30	123.20	60.90	95.95	120.30	384.00	290.40	470.50	396.00		
27	170.25	163.65	183.45	121.75	143.85	77.05	101.45	130.65	308.55	394.00	418.00	376.00		
28	312.25	163.65	190.05	114.50	121.75	51.00	62.00	118.85	232.80	352.00	323.35	376.00		
29	265.20	196.80	137.25	160.35	170.25	83.80	68.60	129.00	382.00	396.00		297.60		
30	270.60	181.80	175.20	145.50	120.30	94.60	65.30	64.20	368.00	330.75		408.00		
31		190.05		173.55	157.05		54.30		285.00	338.15		350.00		
Total	8932.90	5455.55	5147.80	5486.50	3807.90	3199.05	2488.45	2784.65	8166.15	10159.15	10044.50	11740.50	77413.10	CMSDAY
Mean	297.76	175.99	171.59	176.98	122.84	106.64	80.27	92.82	263.42	327.71	358.73	378.73	212.09	CMS
Max	458.00	238.20	386.00	234.60	170.25	229.20	157.05	204.00	406.00	422.00	470.50	485.20	485.20	CMS
Min	170.25	56.50	81.10	97.30	59.80	32.35	45.60	27.80	113.05	213.00	222.00	285.00	27.80	CMS
Runoff	771.80	471.36	444.77	474.03	329.00	276.40	215.00	240.59	705.56	877.75	867.84	1014.38	6688.49	MCM

Momentary Peak 801.00 CMS. at 74.46 m. (MSL.) at 18.00 Hours , on Feb 26, 2008

Runoff Yield 13.61 Liters/Second/Square KM. Momentary Peak Yield 51.42 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	8,706 sq.km.		
Type of Gage	Water - stage recorder.		
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** +192.690 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Float	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 20 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

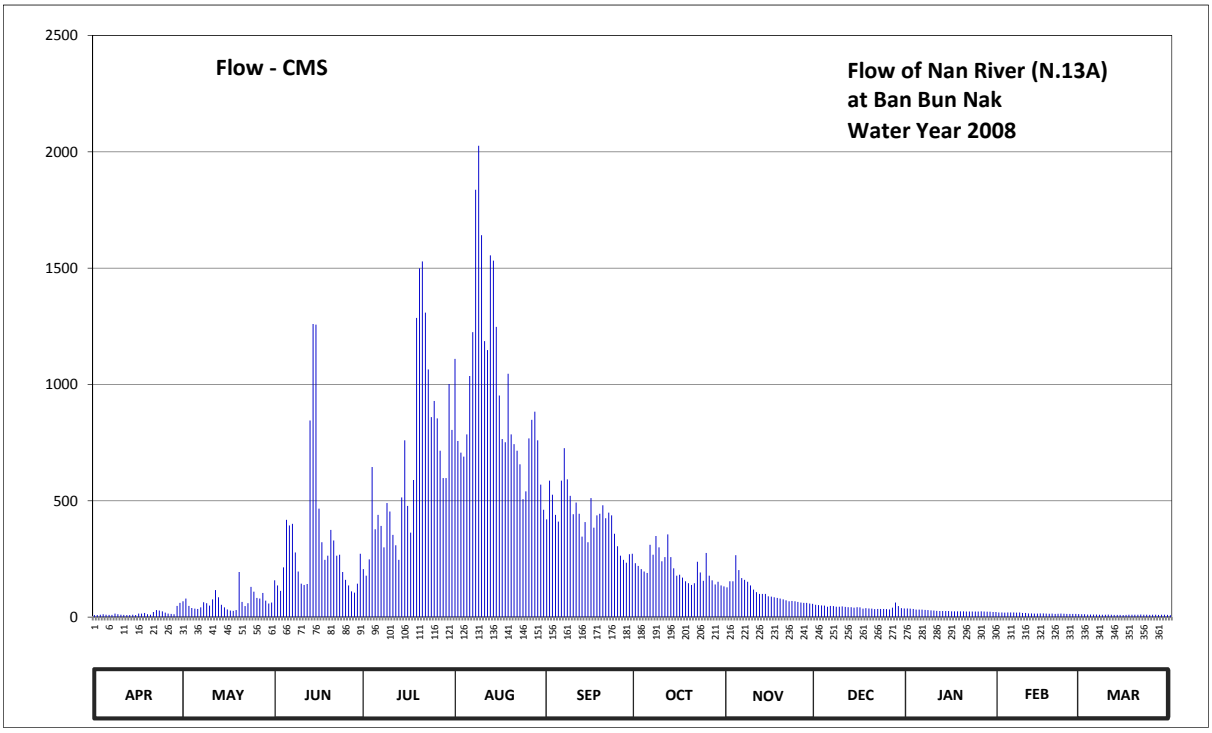
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.88	178.48	179.00	179.24	182.68	180.21	179.37	178.85	178.36	178.22	178.05	177.94	
2	177.88	178.56	178.89	179.10	181.49	180.88	179.31	178.98	178.35	178.21	178.05	177.94	
3	177.90	178.32	178.77	179.45	181.31	180.65	179.24	178.98	178.34	178.20	178.04	177.92	
4	177.94	178.24	179.28	181.09	181.25	180.29	179.19	179.54	178.33	178.17	178.05	177.92	
5	177.91	178.21	180.20	180.03	181.59	180.17	179.16	179.22	178.29	178.17	178.05	177.92	
6	177.89	178.20	180.10	180.29	182.45	180.88	179.75	179.05	178.32	178.17	178.05	177.92	
7	177.89	178.26	180.13	180.09	183.04	181.38	179.55	179.01	178.31	178.16	178.04	177.91	
8	178.00	178.45	179.60	179.70	184.87	180.90	179.91	178.97	178.29	178.15	178.05	177.91	
9	177.95	178.42	179.19	180.50	185.41	180.63	179.70	178.89	178.29	178.14	178.03	177.90	
10	177.91	178.33	178.93	180.35	184.31	180.30	179.41	178.80	178.30	178.13	178.03	177.92	
11	177.89	178.54	178.90	179.93	182.92	180.51	179.50	178.74	178.28	178.12	178.01	177.90	
12	177.88	178.79	178.92	179.74	182.80	180.31	179.94	178.70	178.27	178.11	178.01	177.89	
13	177.87	178.60	181.80	179.44	184.05	179.90	179.50	178.70	178.27	178.11	178.00	177.89	
14	177.90	178.36	183.15	180.60	183.98	180.16	179.26	178.70	178.25	178.11	178.00	177.89	
15	177.87	178.26	183.14	181.50	183.11	179.80	179.10	178.63	178.27	178.11	178.01	177.88	
16	178.00	178.18	180.40	180.45	182.17	180.59	179.12	178.62	178.26	178.10	178.01	177.89	
17	178.00	178.13	179.80	179.97	181.52	180.06	179.06	178.60	178.21	178.10	178.00	177.90	
18	178.03	178.12	179.44	180.89	181.47	180.28	178.98	178.58	178.23	178.10	177.99	177.90	
19	177.95	178.15	179.53	183.23	182.48	180.31	178.94	178.56	178.22	178.10	178.00	177.90	
20	177.91	179.18	180.02	183.88	181.59	180.46	178.90	178.54	178.21	178.10	177.98	177.91	
21	178.07	178.46	179.83	183.97	181.44	180.23	178.94	178.51	178.19	178.09	177.99	177.92	
22	178.15	178.31	179.53	183.30	181.34	180.33	179.40	178.48	178.20	178.09	178.00	177.90	
23	178.13	178.42	179.55	182.54	181.13	180.28	179.17	178.49	178.20	178.09	177.99	177.90	
24	178.10	178.86	179.18	181.85	180.57	179.95	178.99	178.48	178.20	178.09	177.97	177.89	
25	178.04	178.75	179.01	182.09	180.71	179.72	179.59	178.46	178.19	178.09	177.97	177.90	
26	178.00	178.58	178.89	181.83	181.53	179.53	179.10	178.44	178.18	178.10	177.97	177.91	
27	177.97	178.56	178.76	181.34	181.81	179.44	179.00	178.43	178.25	178.09	177.97	177.89	
28	177.95	178.72	178.73	180.92	181.93	179.38	178.91	178.43	178.44	178.08	177.96	177.91	
29	178.32	178.50	178.93	180.92	181.50	179.56	178.97	178.41	178.31	178.08		177.91	
30	178.43	178.41	179.57	182.34	180.82	179.57	178.89	178.40	178.23	178.07		177.89	
31		178.44		181.66	180.38		178.87		178.22	178.07		177.86	
Mean	177.99	178.44	179.71	181.04	182.18	180.22	179.25	178.71	178.27	178.12	178.01	177.90	
Max	178.43	179.18	183.15	183.97	185.41	181.38	179.94	179.54	178.44	178.22	178.05	177.94	185.41
Min	177.87	178.12	178.73	179.10	180.38	179.38	178.87	178.40	178.18	178.07	177.96	177.86	177.86

Annual Max Momentary Gage Height 185.53 m. (MSL.) , at 05.00 Hours , on Aug 9, 2008

Zero Gage at Bottom Elevation 177.40 m. (MSL.) , River Bed 175.09 m. (MSL.)

Left Bank Elevation 190.03 m. (MSL.) ,

Right Bank Elevation 192.62 m. (MSL.) , Drainage Are 8,706 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.20	68.20	158.00	206.00	1109.60	420.40	232.00	128.00	52.60	37.20	20.00	12.00		
2	9.20	79.40	136.00	178.00	757.20	586.40	220.00	154.00	51.50	36.10	20.00	12.00		
3	10.00	48.20	112.60	248.00	706.80	526.00	206.00	154.00	50.40	35.00	19.00	11.00		
4	12.00	39.40	214.00	645.20	690.00	439.60	196.00	266.00	49.30	32.00	20.00	11.00		
5	10.50	36.10	418.00	377.20	785.20	410.80	190.00	202.00	44.90	32.00	20.00	11.00		
6	9.60	35.00	394.00	439.60	1036.00	586.40	311.00	168.00	48.20	32.00	20.00	11.00		
7	9.60	41.60	401.20	391.60	1224.80	726.40	268.00	160.00	47.10	31.00	19.00	10.50		
8	15.00	64.00	278.00	300.00	1836.50	592.00	348.40	152.00	44.90	30.00	20.00	10.50		
9	12.50	59.80	196.00	490.00	2025.50	521.20	300.00	136.00	44.90	29.00	18.00	10.00		
10	10.50	49.30	144.00	454.00	1641.40	442.00	240.00	118.00	46.00	28.00	18.00	11.00		
11	9.60	76.60	138.00	353.20	1186.40	492.40	258.00	107.20	43.80	27.00	16.00	10.00		
12	9.20	116.20	142.00	308.80	1148.00	444.40	355.60	100.00	42.70	26.00	16.00	9.60		
13	8.80	85.00	845.00	246.00	1554.80	346.00	258.00	100.00	42.70	26.00	15.00	9.60		
14	10.00	52.60	1260.00	514.00	1531.84	408.40	210.00	100.00	40.50	26.00	15.00	9.60		
15	8.80	41.60	1256.80	760.00	1247.20	322.00	178.00	89.50	42.70	26.00	16.00	9.20		
16	15.00	33.00	466.00	478.00	952.30	511.60	182.00	88.00	41.60	25.00	16.00	9.60		
17	15.00	28.00	322.00	362.80	765.60	384.40	170.00	85.00	36.10	25.00	15.00	10.00		
18	18.00	27.00	246.00	589.20	751.60	437.20	154.00	82.20	38.30	25.00	14.50	10.00		
19	12.50	30.00	264.00	1285.84	1045.60	444.40	146.00	79.40	37.20	25.00	15.00	10.00		
20	10.50	194.00	374.80	1499.04	785.20	480.40	138.00	76.60	36.10	25.00	14.00	10.50		
21	22.00	65.40	329.20	1528.56	743.20	425.20	146.00	72.40	34.00	24.00	14.50	11.00		
22	30.00	47.10	264.00	1308.80	715.20	449.20	238.00	68.20	35.00	24.00	15.00	10.00		
23	28.00	59.80	268.00	1064.80	656.40	437.20	192.00	69.60	35.00	24.00	14.50	10.00		
24	25.00	130.00	194.00	859.50	506.80	358.00	156.00	68.20	35.00	24.00	13.50	9.60		
25	19.00	109.00	160.00	929.10	540.60	304.40	276.00	65.40	34.00	24.00	13.50	10.00		
26	15.00	82.20	136.00	853.70	768.40	264.00	178.00	62.60	33.00	25.00	13.50	10.50		
27	13.50	79.40	110.80	715.20	847.90	246.00	158.00	61.20	40.50	24.00	13.50	9.60		
28	12.50	103.60	105.40	597.60	882.70	234.00	140.00	61.20	62.60	23.00	13.00	10.50		
29	48.20	71.00	144.00	597.60	760.00	270.00	152.00	58.40	47.10	23.00		10.50		
30	61.20	58.40	272.00	1002.00	569.60	272.00	136.00	57.00	38.30	22.00		9.60		
31		62.60		804.80	461.20		132.00		37.20	22.00		8.40		
Total	499.90	2073.50	9749.80	20388.14	30233.54	12782.40	6465.00	3190.10	1313.20	837.30	457.50	317.80	88308.18	CMSDAY
Mean	16.66	66.89	324.99	657.68	975.28	426.08	208.55	106.34	42.36	27.01	16.34	10.25	241.94	CMS
Max	61.20	194.00	1260.00	1528.56	2025.50	726.40	355.60	266.00	62.60	37.20	20.00	12.00	2025.50	CMS
Min	8.80	27.00	105.40	178.00	461.20	234.00	132.00	57.00	33.00	22.00	13.00	8.40	8.40	CMS
Runoff	43.19	179.15	842.38	1761.54	2612.18	1104.40	558.58	275.62	113.46	72.34	39.53	27.46	7629.83	MCM

Momentary Peak 2067.50 CMS. at 185.53 m. (MSL.) at 05.00 Hours , on Aug 9, 2008

Runoff Yield 27.79 Liters/Second/Square KM. Momentary Peak Yield 237.48 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area 32,826 sq.km.

Type of Gage Water - stage recorder.

Zero Gage at Bottom +19.000 m. (MSL.)

Bench Mark B.M.-H.D.

Location BM On right bank in front of automatic gage building. **Elevation** +29.837 m. (MSL.)

Gage Reading Frequency Recording.

Basis of Mean Daily Gage Height Arithmetic mean of 24 readings

Period of Available Gage Records 1971 to date

Rating Operation

Period of Rating 1973 - 1979, 1991 to date

Rated by Float -

Rated by Current Meter 1972 - 1980, 1991 to date

Stability of Channel Regimes Fairly stable because of backwater effect.

Overbank Flow Conditions No overbank flow

General Description Records good. Flow effected by Naresuan Dam.
Stage-discharge relation defined by 17 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

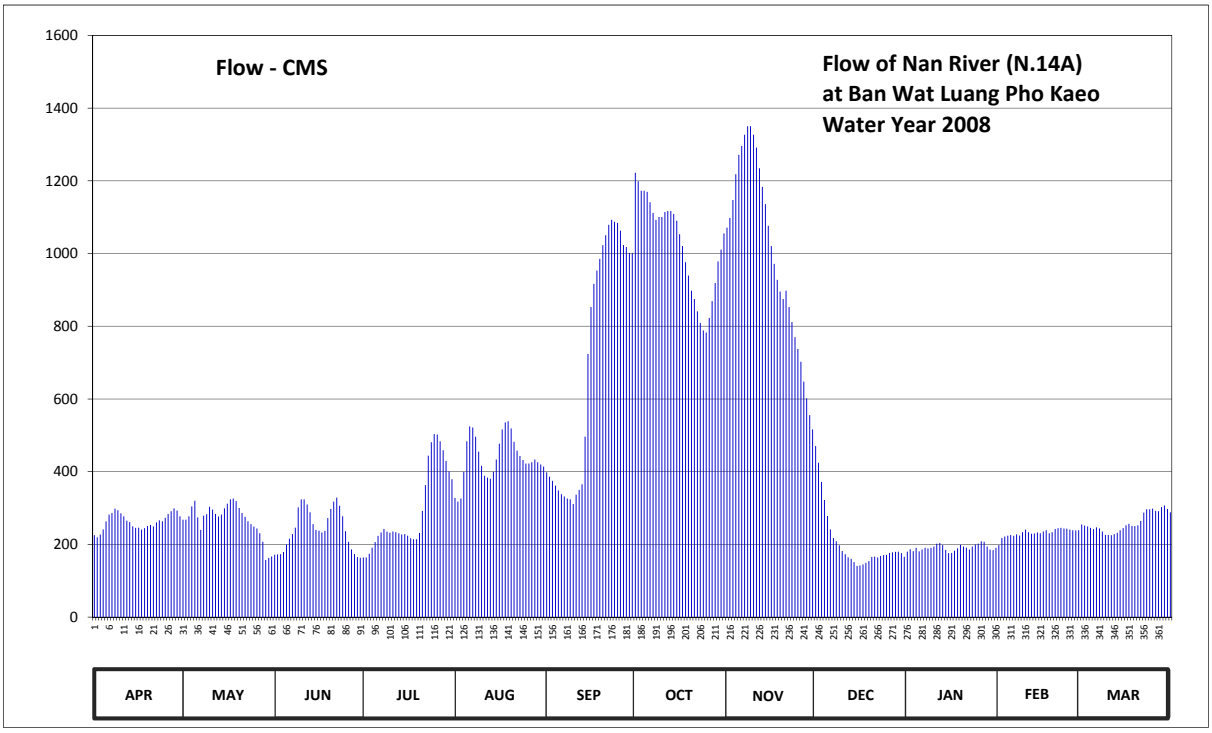
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.72	22.31	20.83	20.68	22.98	23.63	28.02	27.53	24.22	20.97	21.27	22.15	
2	21.63	22.31	20.84	20.68	22.88	23.53	27.96	27.63	23.85	21.08	21.60	22.11	
3	21.75	22.43	20.85	20.87	22.96	23.43	27.89	27.81	23.40	20.99	21.66	22.08	
4	21.96	22.74	20.95	21.15	23.64	23.31	27.89	28.01	22.92	21.14	21.70	22.02	
5	22.25	22.90	21.30	21.41	24.32	23.19	27.88	28.14	22.44	20.98	21.73	21.97	
6	22.49	22.39	21.56	21.69	24.61	23.08	27.79	28.20	21.96	21.07	21.69	22.04	
7	22.54	21.94	21.77	21.84	24.59	23.02	27.68	28.27	21.59	21.14	21.76	22.00	
8	22.67	22.45	22.03	21.98	24.41	22.96	27.61	28.32	21.44	21.11	21.71	21.88	
9	22.62	22.50	22.71	21.87	24.10	22.94	27.64	28.32	21.26	21.14	21.85	21.74	
10	22.53	22.73	22.94	21.83	23.78	22.81	27.64	28.27	21.00	21.20	21.95	21.74	
11	22.43	22.64	22.94	21.88	23.55	23.07	27.69	28.19	20.85	21.33	21.85	21.72	
12	22.28	22.51	22.80	21.85	23.51	23.20	27.70	28.05	20.69	21.36	21.79	21.77	
13	22.23	22.42	22.56	21.81	23.48	23.34	27.70	27.92	20.60	21.27	21.80	21.83	
14	22.08	22.49	22.16	21.76	23.64	24.41	27.67	27.77	20.43	21.05	21.84	21.93	
15	22.02	22.68	21.94	21.77	23.92	25.87	27.60	27.55	20.22	20.90	21.81	22.01	
16	22.03	22.82	21.91	21.70	24.27	26.57	27.46	27.33	20.24	20.91	21.88	22.12	
17	21.95	22.94	21.84	21.58	24.55	26.88	27.33	27.12	20.30	21.01	21.93	22.17	
18	22.01	22.96	21.90	21.54	24.69	27.04	27.14	26.93	20.38	21.12	21.81	22.10	
19	22.09	22.89	22.37	21.54	24.71	27.18	26.98	26.78	20.48	21.28	21.85	22.09	
20	22.13	22.69	22.66	21.82	24.57	27.34	26.79	26.68	20.71	21.20	21.98	22.12	
21	22.08	22.54	22.88	22.60	24.31	27.45	26.68	26.79	20.73	21.15	22.01	22.27	
22	22.22	22.41	22.99	23.32	24.12	27.56	26.51	26.57	20.68	21.06	22.02	22.55	
23	22.29	22.26	22.76	24.01	24.00	27.61	26.35	26.36	20.76	21.20	22.00	22.65	
24	22.26	22.16	22.43	24.30	23.91	27.59	26.24	26.14	20.81	21.30	21.99	22.65	
25	22.38	22.07	21.89	24.46	23.83	27.58	26.21	25.95	20.82	21.33	21.95	22.67	
26	22.51	22.00	21.42	24.45	23.83	27.50	26.42	25.74	20.91	21.44	21.93	22.60	
27	22.59	21.81	21.07	24.32	23.86	27.34	26.65	25.40	20.94	21.42	21.92	22.59	
28	22.68	21.42	20.86	24.13	23.92	27.32	26.89	25.11	20.96	21.20	21.93	22.72	
29	22.61	20.54	20.70	23.89	23.86	27.25	27.15	24.82	20.97	21.06		22.77	
30	22.43	20.66	20.67	23.65	23.81	27.25	27.29	24.55	20.90	21.04		22.66	
31		20.74		23.47	23.76		27.47		20.72	21.14		22.56	
Mean	22.25	22.27	21.88	22.38	23.95	25.38	27.29	27.07	21.23	21.15	21.83	22.20	
Max	22.68	22.96	22.99	24.46	24.71	27.61	28.02	28.32	24.22	21.44	22.02	22.77	28.32
Min	21.63	20.54	20.67	20.68	22.88	22.81	26.21	24.55	20.22	20.90	21.27	21.72	20.22

Annual Max Momentary Gage Height 28.33 m. (MSL.) , at 18.00 Hours , on Nov 8, 2008

Zero Gage at Bottom Elevation 19.00 m. (MSL.) , River Bed 15.49 m. (MSL.)

Left Bank Elevation 29.84 m. (MSL.) ,

Right Bank Elevation 32.10 m. (MSL.) , Drainage Are 32,826 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	225.20	267.80	171.74	163.95	327.87	398.32	1222.20	1071.10	470.60	180.15	198.17	255.00		
2	219.79	267.80	172.34	163.95	317.94	386.26	1198.80	1098.10	424.85	186.76	217.99	251.80		
3	227.00	277.40	172.94	174.14	325.88	374.97	1172.80	1147.20	371.67	181.35	221.59	249.60		
4	241.20	304.60	178.95	190.96	399.52	361.77	1172.80	1218.10	321.91	190.36	223.99	245.40		
5	263.00	319.93	199.97	206.58	483.80	348.71	1169.60	1271.40	278.20	180.75	225.80	241.90		
6	282.20	274.20	215.59	223.39	524.40	337.79	1141.30	1296.00	241.20	186.16	223.39	246.80		
7	286.60	239.80	228.20	232.80	521.60	331.84	1111.60	1326.80	217.39	190.36	227.60	244.00		
8	298.30	279.00	246.10	242.60	496.40	325.88	1092.70	1350.00	208.38	188.56	224.60	235.60		
9	293.80	283.00	301.90	234.90	455.00	323.90	1100.80	1350.00	197.57	190.36	233.50	226.40		
10	285.70	303.70	323.90	232.10	416.41	310.99	1100.80	1326.80	181.95	193.96	240.50	226.40		
11	277.40	295.60	323.90	235.60	388.67	336.80	1114.30	1291.90	172.94	201.77	233.50	225.20		
12	265.40	283.90	310.00	233.50	383.84	349.70	1117.00	1234.50	164.45	203.57	229.40	228.20		
13	261.40	276.60	288.40	230.70	380.47	365.07	1117.00	1183.60	159.95	198.17	230.00	232.10		
14	249.60	282.20	255.80	227.60	399.52	496.40	1108.90	1135.90	151.46	184.96	232.80	239.10		
15	245.40	299.20	239.80	228.20	433.29	723.90	1090.00	1076.50	140.96	175.95	230.70	244.70		
16	246.10	311.99	237.70	223.99	477.10	853.00	1053.00	1020.50	141.96	176.55	235.60	252.60		
17	240.50	323.90	232.80	216.79	516.00	916.80	1020.50	971.60	144.96	182.55	239.10	256.60		
18	244.70	325.88	237.00	214.38	535.60	953.20	976.20	927.90	148.96	189.16	230.70	251.00		
19	250.30	318.93	272.60	214.38	538.50	985.40	939.40	895.80	153.96	198.77	233.50	250.30		
20	253.40	300.10	297.40	231.40	518.80	1023.00	897.90	875.00	165.45	193.96	242.60	252.60		
21	249.60	286.60	317.94	292.00	482.40	1050.50	875.00	897.90	166.45	190.96	244.70	264.60		
22	260.60	275.80	328.86	362.87	457.60	1079.20	841.00	853.00	163.95	185.56	245.40	287.50		
23	266.20	263.80	306.40	444.15	442.94	1092.70	809.50	811.40	167.95	193.96	244.00	296.50		
24	263.80	255.80	277.40	481.00	432.09	1087.30	788.60	770.20	170.54	199.97	243.30	296.50		
25	273.40	248.90	236.30	503.40	422.44	1084.60	782.90	737.50	171.14	201.77	240.50	298.30		
26	283.90	244.00	207.18	502.00	422.44	1063.00	823.00	702.40	176.55	208.38	239.10	292.00		
27	291.10	230.70	186.16	483.80	426.06	1023.00	869.00	648.00	178.35	207.18	238.40	291.10		
28	299.20	207.18	173.54	458.90	433.29	1018.00	918.90	601.60	179.55	193.96	239.10	302.80		
29	292.90	156.96	164.95	429.67	426.06	1001.50	978.50	555.20	180.15	185.56		307.30		
30	277.40	162.95	163.45	400.73	420.03	1001.50	1010.70	516.00	175.95	184.35		297.40		
31		166.95		379.37	414.00		1055.50		165.95	190.36		288.40		
Total	7915.09	8335.17	7269.21	9059.80	13619.96	21005.00	31670.20	30161.90	6355.30	5916.19	6509.53	8077.70	155895.05	CMSDAY
Mean	263.84	268.88	242.31	292.25	439.35	700.17	1021.62	1005.40	205.01	190.84	232.48	260.57	427.11	CMS
Max	299.20	325.88	328.86	503.40	538.50	1092.70	1222.20	1350.00	470.60	208.38	245.40	307.30	1350.00	CMS
Min	219.79	156.96	163.45	163.95	317.94	310.99	782.90	516.00	140.96	175.95	198.17	225.20	140.96	CMS
Runoff	683.86	720.16	628.06	782.77	1176.76	1814.83	2736.31	2605.99	549.10	511.16	562.42	697.91	13469.33	MCM

Momentary Peak 1355.00 CMS. at 28.33 m. (MSL.) at 18.00 Hours , on Nov 8, 2008

Runoff Yield 13.01 Liters/Second/Square KM. Momentary Peak Yield 41.28 Liters/Second/Square KM.

WATER YEAR : 2008

NAN RIVER BASIN

Nan River at Ban Yang, Phitsanulok (N.22)

Lat 17 - 01 - 56 N Long 100 - 22 - 20 E

Location : on left bank about 1 kilometer downstream from District Forestry Office.

Ban Yang **Amphoe** Wat Bot **Changwat** Phitsanulok

Drainge Area	4,764 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+42.670 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In front of the Meteorological Station. **Elevation** +51.975 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	1963 - 1974, 1996 to date.
Rated by Float	-
Rated by Current Meter	1963 - 1974, 1996 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 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

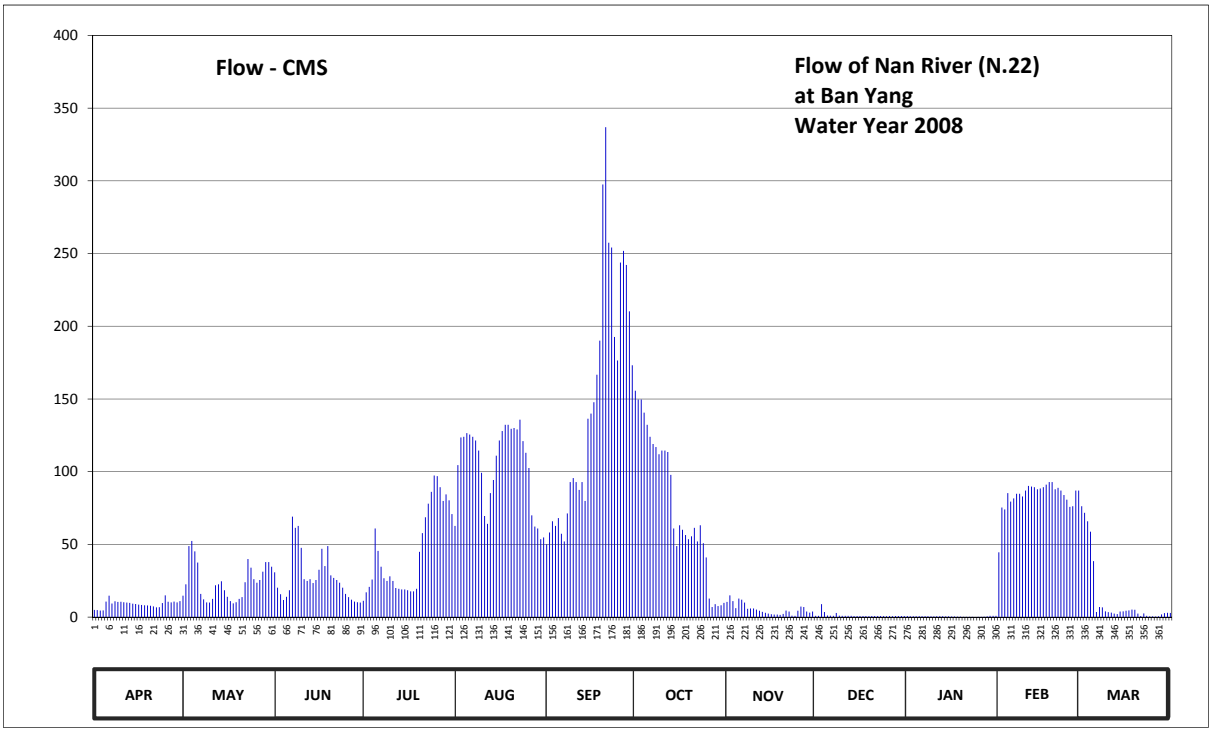
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.59	43.15	43.71	43.01	44.55	44.25	46.41	42.96	42.15	42.09	44.10	44.85	
2	42.58	43.45	43.37	43.24	45.47	44.45	46.31	43.16	42.14	42.08	44.83	44.75	
3	42.55	44.22	43.19	43.39	45.85	44.62	46.31	43.00	42.86	42.07	44.80	44.62	
4	42.56	44.31	43.03	43.56	45.86	44.55	46.16	42.68	42.45	42.07	45.05	44.46	
5	42.98	44.12	43.12	44.51	45.91	44.67	46.02	43.07	42.21	42.06	44.92	43.93	
6	43.15	43.90	43.30	44.13	45.89	44.43	45.86	43.04	42.17	42.05	44.97	42.45	
7	42.89	43.20	44.69	43.82	45.86	44.30	45.76	42.93	42.14	42.04	45.04	42.73	
8	42.99	43.05	44.52	43.59	45.81	44.74	45.72	42.65	42.38	42.04	45.04	42.71	
9	42.96	42.94	44.55	43.53	45.67	45.22	45.62	42.66	42.20	42.03	45.00	42.50	
10	42.97	42.93	44.19	43.63	45.36	45.28	45.67	42.66	42.16	42.02	45.09	42.44	
11	42.95	43.06	43.57	43.53	44.70	45.22	45.67	42.61	42.13	42.04	45.16	42.41	
12	42.93	43.43	43.53	43.36	44.58	45.10	45.65	42.54	42.14	42.05	45.15	42.34	
13	42.92	43.45	43.57	43.34	45.05	45.22	45.33	42.46	42.13	42.05	45.14	42.31	
14	42.88	43.52	43.48	43.32	45.25	44.93	44.51	42.40	42.12	42.03	45.11	42.48	
15	42.87	43.30	43.55	43.32	45.60	46.09	44.22	42.34	42.11	42.00	45.12	42.50	
16	42.84	43.12	43.76	43.30	45.81	46.15	44.56	42.30	42.12	41.99	45.14	42.54	
17	42.82	43.00	44.17	43.27	45.94	46.28	44.49	42.28	42.09	41.95	45.18	42.56	
18	42.81	42.90	43.83	43.27	46.02	46.58	44.41	42.27	42.09	41.92	45.22	42.61	
19	42.80	42.95	44.22	43.34	46.02	46.94	44.34	42.25	42.08	41.91	45.22	42.60	
20	42.79	43.06	43.65	44.11	45.97	48.29	44.39	42.32	42.09	41.90	45.11	42.34	
21	42.76	43.11	43.60	44.44	45.98	48.69	44.52	42.55	42.09	41.89	45.13	42.12	
22	42.71	43.50	43.55	44.68	45.96	47.83	44.30	42.48	42.10	41.87	45.09	42.35	
23	42.72	43.97	43.49	44.89	46.08	47.79	44.56	42.20	42.10	41.87	45.02	42.16	
24	42.91	43.80	43.37	45.07	45.80	46.98	44.27	42.16	42.09	41.86	44.95	42.02	
25	43.16	43.57	43.20	45.32	45.64	46.73	44.00	42.54	42.08	41.87	44.84	42.02	
26	42.97	43.49	43.11	45.31	45.43	47.66	43.07	42.75	42.09	41.88	44.85	41.99	
27	42.94	43.55	43.04	45.14	44.71	47.76	42.73	42.73	42.08	41.94	45.09	42.02	
28	42.98	43.72	42.98	44.93	44.54	47.64	42.86	42.48	42.09	42.01	45.09	42.29	
29	42.94	43.91	42.95	45.03	44.51	47.23	42.77	42.41	42.09	42.15		42.37	
30	43.00	43.91	42.93	44.94	44.34	46.68	42.81	42.48	42.09	42.16		42.40	
31		43.82		44.73	44.37		42.92		42.09	42.16		42.38	
Mean	42.86	43.46	43.57	44.03	45.44	46.08	44.72	42.58	42.16	42.00	45.02	42.72	
Max	43.16	44.31	44.69	45.32	46.08	48.69	46.41	43.16	42.86	42.16	45.22	44.85	48.69
Min	42.55	42.90	42.93	43.01	44.34	44.25	42.73	42.16	42.08	41.86	44.10	41.99	41.86

Annual Max Momentary Gage Height 48.81 m. (MSL.) , at 08.00 Hours , on Sep 21, 2008

Zero Gage at Bottom Elevation 42.67 m. (MSL.) , River Bed 40.81 m. (MSL.)

Left Bank Elevation 51.23 m. (MSL.) ,

Right Bank Elevation 52.26 m. (MSL.) , Drainage Are 4,764 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.90	14.75	30.85	11.25	62.75	50.00	155.65	10.40	0.88	0.73	44.50	76.25		
2	4.80	22.50	20.25	17.00	104.50	58.25	149.60	15.00	0.85	0.70	75.35	71.75		
3	4.50	48.80	15.75	20.75	123.50	65.90	149.60	11.00	8.90	0.68	74.00	65.90		
4	4.60	52.40	11.75	25.80	124.00	62.75	140.60	6.20	3.50	0.68	85.25	58.70		
5	10.70	45.20	14.00	60.95	126.50	68.15	132.20	12.75	1.10	0.65	79.40	38.55		
6	14.75	37.50	18.50	45.55	125.50	57.35	124.00	12.00	0.93	0.63	81.65	3.50		
7	9.35	16.00	69.05	34.70	124.00	52.00	119.00	9.95	0.85	0.60	84.80	6.95		
8	10.85	12.25	61.40	26.70	121.50	71.30	117.00	5.75	2.80	0.60	84.80	6.65		
9	10.40	10.10	62.75	24.90	114.50	92.90	112.00	5.90	1.00	0.58	83.00	4.00		
10	10.55	9.95	47.65	28.05	99.20	95.60	114.50	5.90	0.90	0.55	87.05	3.40		
11	10.25	12.50	26.10	24.90	69.50	92.90	114.50	5.15	0.83	0.60	90.20	3.10		
12	9.95	21.90	24.90	20.00	64.10	87.50	113.50	4.40	0.85	0.63	89.75	2.40		
13	9.80	22.50	26.10	19.50	85.25	92.90	97.85	3.60	0.83	0.63	89.30	2.10		
14	9.20	24.60	23.40	19.00	94.25	79.85	60.95	3.00	0.80	0.58	87.95	3.80		
15	9.05	18.50	25.50	19.00	111.00	136.40	48.80	2.40	0.78	0.50	88.40	4.00		
16	8.60	14.00	32.60	18.50	121.50	140.00	63.20	2.00	0.80	0.48	89.30	4.40		
17	8.30	11.00	46.95	17.75	128.00	147.80	60.05	1.80	0.73	0.38	91.10	4.60		
18	8.15	9.50	35.05	17.75	132.20	166.70	56.45	1.70	0.73	0.30	92.90	5.15		
19	8.00	10.25	48.80	19.50	132.20	190.10	53.60	1.50	0.70	0.28	92.90	5.00		
20	7.85	12.50	28.75	44.85	129.50	297.55	55.60	2.20	0.73	0.25	87.95	2.40		
21	7.40	13.75	27.00	57.80	130.00	336.90	61.40	4.50	0.73	0.23	88.85	0.80		
22	6.65	24.00	25.50	68.60	129.00	257.40	52.00	3.80	0.75	0.18	87.05	2.50		
23	6.80	39.95	23.70	78.05	135.80	254.20	63.20	1.00	0.75	0.18	83.90	0.90		
24	9.65	34.00	20.25	86.15	121.00	192.70	50.80	0.90	0.73	0.15	80.75	0.55		
25	15.00	26.10	16.00	97.40	113.00	176.45	41.00	4.40	0.70	0.18	75.80	0.55		
26	10.55	23.70	13.75	96.95	102.50	243.80	12.75	7.25	0.73	0.20	76.25	0.48		
27	10.10	25.50	12.00	89.30	69.95	251.80	6.95	6.95	0.70	0.35	87.05	0.55		
28	10.70	31.20	10.70	79.85	62.30	242.20	8.90	3.80	0.73	0.53	87.05	1.90		
29	10.10	37.85	10.25	84.35	60.95	210.25	7.55	3.10	0.73	0.88		2.70		
30	11.00	37.85	9.95	80.30	53.60	173.20	8.15	3.80	0.73	0.90		3.00		
31		34.70		70.85	54.80		9.80		0.73	0.90		2.80		
Total	272.50	755.30	839.20	1406.00	3226.35	4444.80	2361.15	162.10	37.50	15.71	2346.25	389.33	16256.19	CMSDAY
Mean	9.08	24.36	27.97	45.35	104.08	148.16	76.17	5.40	1.21	0.51	83.79	12.56	44.54	CMS
Max	15.00	52.40	69.05	97.40	135.80	336.90	155.65	15.00	8.90	0.90	92.90	76.25	336.90	CMS
Min	4.50	9.50	9.95	11.25	53.60	50.00	6.95	0.90	0.70	0.15	44.50	0.48	0.15	CMS
Runoff	23.54	65.26	72.51	121.48	278.76	384.03	204.00	14.01	3.24	1.36	202.72	33.64	1404.53	MCM

Momentary Peak 350.10 CMS. at 48.81 m. (MSL.) at 08.00 Hours , on Sep 21, 2008

Runoff Yield 9.35 Liters/Second/Square KM. Momentary Peak Yield 73.49 Liters/Second/Square KM.

WATER YEAR : 2008

NAN RIVER BASIN

Khwae Noi 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
Drainge 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 Float	-		
Rated by Current Meter	2008 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 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

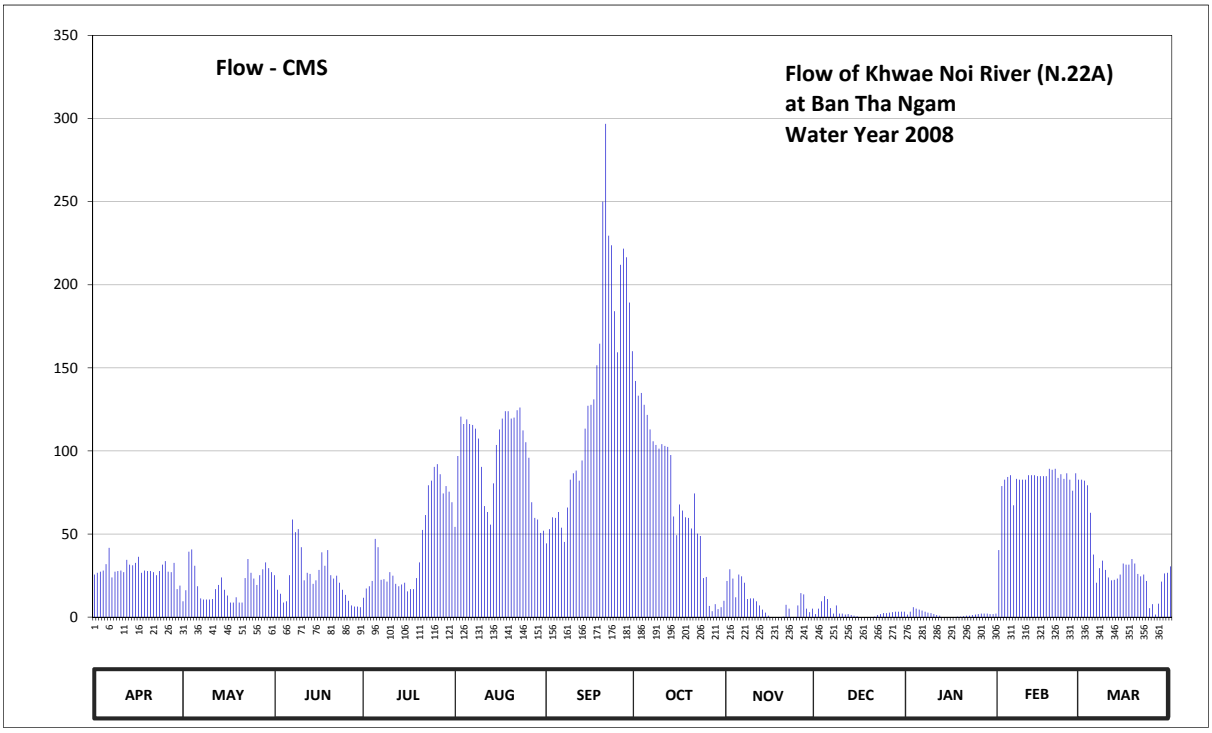
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.36	41.90	42.35	41.96	43.05	42.83	44.71	42.25	41.66	41.65	42.74	43.63	
2	42.39	42.09	42.10	42.12	43.89	43.02	44.55	42.45	41.77	41.71	43.56	43.62	
3	42.41	42.72	42.03	42.16	44.32	43.18	44.58	42.29	41.90	41.80	43.63	43.57	
4	42.43	42.75	41.88	42.25	44.24	43.17	44.45	41.97	41.99	41.77	43.66	43.24	
5	42.54	42.51	41.90	42.89	44.29	43.25	44.34	42.36	41.94	41.75	43.68	42.68	
6	42.77	42.16	42.35	42.78	44.24	43.04	44.18	42.33	41.78	41.73	43.34	42.22	
7	42.31	41.95	43.15	42.27	44.23	42.85	44.05	42.22	41.67	41.71	43.64	42.47	
8	42.41	41.93	42.98	42.28	44.19	43.31	44.01	41.94	41.83	41.69	43.63	42.60	
9	42.42	41.93	43.02	42.24	44.08	43.63	43.97	41.95	41.67	41.68	43.63	42.44	
10	42.43	41.93	42.78	42.40	43.77	43.70	44.02	41.95	41.67	41.66	43.63	42.31	
11	42.40	41.94	42.26	42.34	43.33	43.73	44.00	41.90	41.65	41.64	43.68	42.26	
12	42.61	42.11	42.39	42.20	43.25	43.62	43.99	41.83	41.66	41.63	43.68	42.27	
13	42.53	42.18	42.37	42.16	43.08	43.84	43.90	41.75	41.64	41.60	43.68	42.29	
14	42.52	42.31	42.20	42.19	43.59	44.19	43.19	41.69	41.63	41.59	43.67	42.36	
15	42.56	42.10	42.26	42.22	44.01	44.44	42.94	41.63	41.62	41.59	43.67	42.55	
16	42.65	42.00	42.44	42.07	44.18	44.45	43.35	41.59	41.60	41.59	43.67	42.53	
17	42.39	41.88	42.71	42.11	44.30	44.51	43.27	41.57	41.58	41.60	43.67	42.53	
18	42.43	41.88	42.51	42.11	44.38	44.87	43.18	41.56	41.56	41.61	43.75	42.62	
19	42.42	41.97	42.74	42.30	44.38	45.07	43.17	41.54	41.57	41.61	43.74	42.55	
20	42.42	41.88	42.35	42.57	44.30	46.36	43.03	41.61	41.59	41.62	43.75	42.37	
21	42.40	41.88	42.29	43.01	44.31	46.96	43.48	41.84	41.61	41.63	43.65	42.33	
22	42.35	42.30	42.34	43.21	44.39	46.07	42.96	41.77	41.64	41.63	43.69	42.36	
23	42.42	42.62	42.22	43.57	44.42	45.98	42.93	41.49	41.66	41.64	43.64	42.25	
24	42.53	42.39	42.10	43.62	44.17	45.37	42.30	41.45	41.68	41.65	43.70	41.78	
25	42.59	42.29	42.01	43.77	44.04	44.99	42.32	41.83	41.68	41.66	43.63	41.85	
26	42.41	42.18	41.91	43.80	43.87	45.80	41.82	42.04	41.69	41.67	43.51	41.65	
27	42.40	42.35	41.83	43.69	43.38	45.95	41.72	42.02	41.70	41.67	43.70	41.86	
28	42.56	42.45	41.81	43.48	43.17	45.87	41.85	41.77	41.71	41.67	43.63	42.24	
29	42.11	42.57	41.81	43.56	43.15	45.45	41.76	41.70	41.71	41.66		42.38	
30	42.17	42.47	41.80	43.50	42.97	45.00	41.80	41.77	41.71	41.66		42.39	
31		42.40		43.38	43.00		41.91		41.71	41.67		42.50	
Mean	42.44	42.19	42.30	42.72	43.87	44.48	43.28	41.87	41.69	41.66	43.62	42.47	
Max	42.77	42.75	43.15	43.80	44.42	46.96	44.71	42.45	41.99	41.80	43.75	43.63	46.96
Min	42.11	41.88	41.80	41.96	42.97	42.83	41.72	41.45	41.56	41.59	42.74	41.65	41.45

Annual Max Momentary Gage Height 47.00 m. (MSL.) , at 15.00 Hours , on Sep 21, 2008

Zero Gage at Bottom Elevation 41.63 m. (MSL.) , River Bed 41.58 m. (MSL.)

Left Bank Elevation 50.52 m. (MSL.) ,

Right Bank Elevation 50.28 m. (MSL.) , Drainage Are 4,774 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	25.60	9.50	25.25	11.60	54.25	44.35	142.05	21.75	1.80	1.50	40.30	82.65		
2	26.65	16.15	16.50	17.20	96.95	52.90	133.25	28.75	5.10	3.30	78.80	82.10		
3	27.35	39.40	14.05	18.60	120.60	60.10	134.90	23.15	9.50	6.00	82.65	79.35		
4	28.05	40.75	8.80	21.75	116.20	59.65	127.75	11.95	12.65	5.10	84.30	62.80		
5	31.90	30.85	9.50	47.05	118.95	63.25	121.70	25.60	10.90	4.50	85.40	37.60		
6	41.65	18.60	25.25	42.10	116.20	53.80	112.90	24.55	5.40	3.90	67.30	20.70		
7	23.85	11.25	58.75	22.45	115.65	45.25	105.75	20.70	2.10	3.30	83.20	29.45		
8	27.35	10.55	51.10	22.80	113.45	65.95	103.55	10.90	7.05	2.70	82.65	34.00		
9	27.70	10.55	52.90	21.40	107.40	82.65	101.35	11.25	2.10	2.40	82.65	28.40		
10	28.05	10.55	42.10	27.00	90.35	86.50	104.10	11.25	2.10	1.80	82.65	23.85		
11	27.00	10.90	22.10	24.90	66.85	88.15	103.00	9.50	1.50	1.20	85.40	22.10		
12	34.45	16.85	26.65	20.00	63.25	82.10	102.45	7.05	1.80	0.90	85.40	22.45		
13	31.55	19.30	25.95	18.60	55.60	94.20	97.50	4.50	1.20	0.00	85.40	23.15		
14	31.20	23.85	20.00	19.65	80.45	113.45	60.55	2.70	0.90	0.00	84.85	25.60		
15	32.60	16.50	22.10	20.70	103.55	127.20	49.30	0.90	0.60	0.00	84.85	32.25		
16	36.25	13.00	28.40	15.45	112.90	127.75	67.75	0.00	0.00	0.00	84.85	31.55		
17	26.65	8.80	38.95	16.85	119.50	131.05	64.15	0.00	0.00	0.00	84.85	31.55		
18	28.05	8.80	30.85	16.85	123.90	151.55	60.10	0.00	0.00	0.30	89.25	34.90		
19	27.70	11.95	40.30	23.50	123.90	164.55	59.65	0.00	0.00	0.30	88.70	32.25		
20	27.70	8.80	25.25	32.95	119.50	250.00	53.35	0.30	0.00	0.60	89.25	25.95		
21	27.00	8.80	23.15	52.45	120.05	296.80	74.40	7.40	0.30	0.90	83.75	24.55		
22	25.25	23.50	24.90	61.45	124.45	229.55	50.20	5.10	1.20	0.90	85.95	25.60		
23	27.70	34.90	20.70	79.35	126.10	223.70	48.85	0.00	1.80	1.20	83.20	21.75		
24	31.55	26.65	16.50	82.10	112.35	184.05	23.50	0.00	2.40	1.50	86.50	5.40		
25	33.65	23.15	13.35	90.35	105.20	159.35	24.20	7.05	2.40	1.80	82.65	7.75		
26	27.35	19.30	9.85	92.00	95.85	212.00	6.70	14.40	2.70	2.10	76.05	1.50		
27	27.00	25.25	7.05	85.95	69.10	221.75	3.60	13.70	3.00	2.10	86.50	8.10		
28	32.60	28.75	6.35	74.40	59.65	216.55	7.75	5.10	3.30	2.10	82.65	21.40		
29	16.85	32.95	6.35	78.80	58.75	189.25	4.80	3.00	3.30	1.80		26.30		
30	18.95	29.45	6.00	75.50	50.65	160.00	6.00	5.10	3.30	1.80		26.65		
31		27.00		69.10	52.00		9.85		3.30	2.10		30.50		
Total	859.20	616.60	718.95	1302.85	2993.55	4037.40	2164.95	275.65	91.70	56.10	2299.95	962.15	16379.05	CMSDAY
Mean	28.64	19.89	23.96	42.03	96.57	134.58	69.84	9.19	2.96	1.81	82.14	31.04	44.87	CMS
Max	41.65	40.75	58.75	92.00	126.10	296.80	142.05	28.75	12.65	6.00	89.25	82.65	296.80	CMS
Min	16.85	8.80	6.00	11.60	50.65	44.35	3.60	0.00	0.00	0.00	40.30	1.50	0.00	CMS
Runoff	74.23	53.27	62.12	112.57	258.64	348.83	187.05	23.82	7.92	4.85	198.72	83.13	1415.15	MCM

Momentary Peak 300.00 CMS. at 47.00 m. (MSL.) at 15.00 Hours , on Sep 21, 2008

Runoff Yield 9.40 Liters/Second/Square KM. Momentary Peak Yield 62.84 Liters/Second/Square KM.

WATER YEAR : 2008

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.

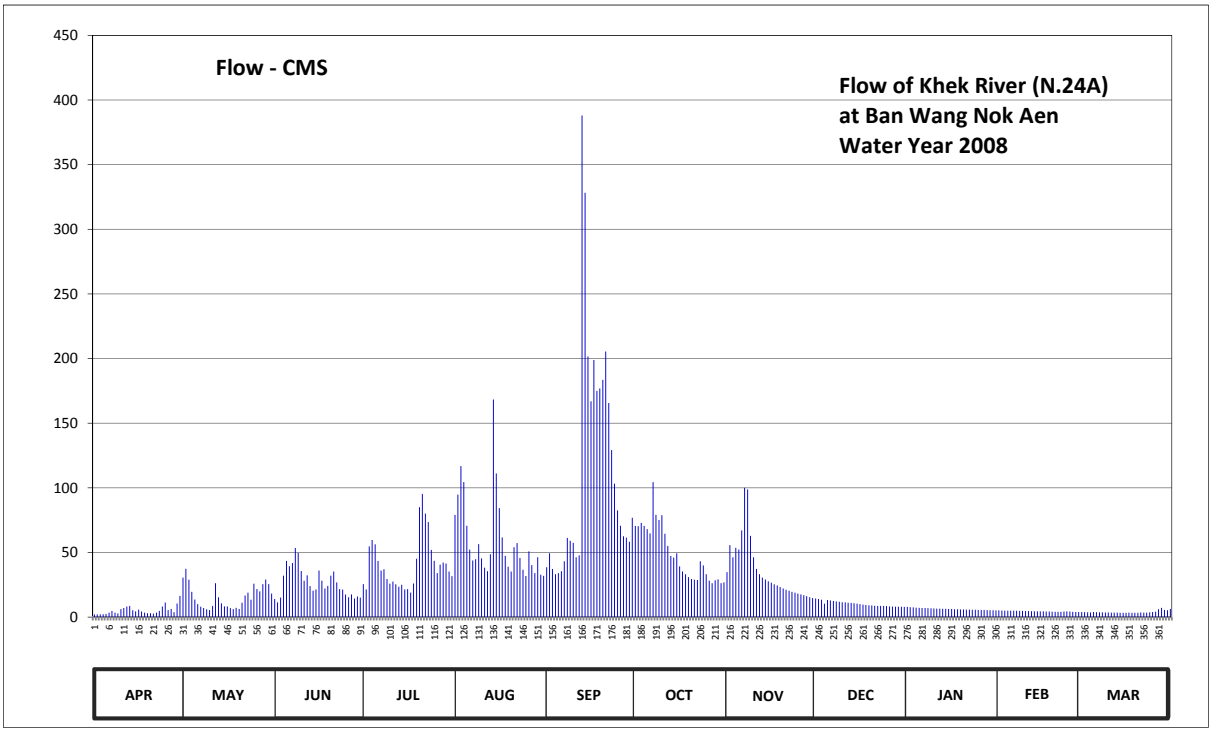
Ban Wang Nok Aen **Amphoe** Wang Thong **Changwat** Phitsanulok

Drainge 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 mean of 5 readings
Period of Available Gage Records	1965 to date
Rating Operation	
Period of Rating	1965 - 1974 , 1980 to date
Rated by Float	-
Rated by Current Meter	1965 - 1974 , 1980 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +52.500 m.(MSL.) and is including overbank flow.
General Description	Records good. Stage-discharge relation defined by 17 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.62	43.84	42.73	43.50	46.32	44.33	45.92	44.12	42.76	42.29	42.02	41.89	
2	41.62	44.27	42.56	43.23	46.95	44.87	45.91	45.18	42.73	42.27	42.01	41.88	
3	41.62	43.73	42.81	45.13	47.76	44.26	46.04	44.71	42.70	42.25	42.00	41.87	
4	41.65	43.10	43.94	45.38	47.34	44.01	45.92	45.08	42.49	42.23	42.00	41.86	
5	41.69	42.71	44.57	45.21	45.93	44.07	45.80	45.01	42.68	42.22	41.99	41.89	
6	41.85	42.47	44.37	44.57	45.01	44.17	45.63	45.75	42.66	42.21	41.99	41.88	
7	41.98	42.30	44.49	44.20	44.59	44.56	47.34	47.16	42.63	42.20	41.99	41.87	
8	41.85	42.20	45.07	44.25	44.64	45.46	46.32	47.11	42.61	42.19	41.98	41.87	
9	41.77	42.10	44.88	43.76	45.22	45.35	46.15	45.54	42.59	42.18	41.98	41.86	
10	42.12	42.04	44.18	43.52	44.67	45.27	46.31	44.71	42.57	42.17	41.97	41.86	
11	42.20	42.37	43.67	43.63	44.31	44.71	45.62	44.26	42.56	42.16	41.97	41.85	
12	42.32	43.55	43.95	43.49	44.17	44.79	45.15	44.01	42.54	42.15	41.96	41.85	
13	42.36	42.82	43.40	43.37	44.83	51.67	44.76	43.84	42.53	42.14	41.96	41.84	
14	42.03	42.51	43.16	43.47	49.14	51.21	44.70	43.74	42.52	42.14	41.95	41.83	
15	41.95	42.33	43.23	43.23	47.57	49.83	44.87	43.65	42.49	42.13	41.94	41.83	
16	42.08	42.33	44.20	43.24	46.53	49.11	44.36	43.57	42.47	42.13	41.94	41.83	
17	41.93	42.19	43.68	43.06	45.48	49.78	44.15	43.49	42.44	42.11	41.93	41.84	
18	41.84	42.12	43.28	43.53	44.77	49.29	44.01	43.43	42.43	42.10	41.93	41.83	
19	41.78	42.22	43.41	44.66	44.35	49.33	43.86	43.35	42.41	42.09	41.92	41.83	
20	41.79	42.13	43.94	46.56	44.15	49.48	43.76	43.28	42.40	42.09	41.91	41.83	
21	41.74	42.54	44.15	46.97	45.10	49.90	43.73	43.21	42.38	42.08	41.91	41.86	
22	41.85	42.91	43.59	46.36	45.26	49.08	43.71	43.16	42.37	42.08	41.91	41.85	
23	41.98	43.06	43.24	46.07	44.69	48.12	44.56	43.10	42.37	42.07	41.93	41.84	
24	42.32	42.70	43.22	45.00	44.23	47.29	44.40	43.06	42.36	42.07	41.94	41.87	
25	42.55	43.52	42.96	44.58	43.92	46.46	44.01	43.01	42.35	42.06	41.93	41.89	
26	42.04	43.24	42.82	44.07	44.94	45.93	43.68	42.97	42.33	42.05	41.91	41.92	
27	42.13	43.13	42.97	44.43	44.41	45.52	43.55	42.93	42.32	42.05	41.90	42.11	
28	41.88	43.50	42.76	44.51	44.07	45.47	43.70	42.88	42.30	42.04	41.89	42.22	
29	42.50	43.74	42.86	44.47	44.71	45.31	43.75	42.82	42.30	42.03		42.06	
30	42.90	43.50	42.81	44.15	43.99	46.23	43.55	42.78	42.30	42.03		42.03	
31		43.01		43.91	43.93		43.59		42.29	42.02		42.13	
Mean	42.00	42.84	43.56	44.37	45.26	46.83	44.80	44.03	42.48	42.13	41.95	41.90	
Max	42.90	44.27	45.07	46.97	49.14	51.67	47.34	47.16	42.76	42.29	42.02	42.22	51.67
Min	41.62	42.04	42.56	43.06	43.92	44.01	43.55	42.78	42.29	42.02	41.89	41.83	41.62

Annual Max Momentary Gage Height	52.87	m. (MSL.) ,	at 15.00 Hours , on Sep 13, 2008		
Zero Gage at Bottom Elevation	40.71	m. (MSL.) ,	River Bed	41.21	m. (MSL.)
Left Bank Elevation	52.75	m. (MSL.) ,			
Right Bank Elevation	52.49	m. (MSL.) ,	Drainage Are	1,838	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.10	30.60	13.95	25.50	79.09	38.61	70.49	34.80	14.40	7.90	5.20	3.90		
2	2.10	37.40	11.40	21.45	94.79	49.43	70.29	55.65	13.95	7.70	5.10	3.80		
3	2.10	28.95	15.15	54.65	116.80	37.20	72.89	46.23	13.50	7.50	5.00	3.70		
4	2.25	19.50	32.10	59.66	104.51	33.15	70.49	53.64	10.35	7.30	5.00	3.60		
5	2.45	13.65	43.42	56.25	70.69	34.05	68.08	52.24	13.20	7.20	4.90	3.90		
6	3.50	10.05	39.41	43.42	52.24	35.55	64.67	67.08	12.90	7.10	4.90	3.80		
7	4.80	8.00	41.82	36.00	43.82	43.22	104.51	100.02	12.45	7.00	4.90	3.70		
8	3.50	7.00	53.44	37.00	44.82	61.26	79.09	98.77	12.15	6.90	4.80	3.70		
9	2.85	6.00	49.63	29.40	56.45	59.06	75.10	62.87	11.85	6.80	4.80	3.60		
10	6.20	5.40	35.70	25.80	45.42	57.45	78.84	46.23	11.55	6.70	4.70	3.60		
11	7.00	8.70	28.05	27.45	38.21	46.23	64.47	37.20	11.40	6.60	4.70	3.50		
12	8.20	26.25	32.25	25.35	35.55	47.83	55.05	33.15	11.10	6.50	4.60	3.50		
13	8.60	15.30	24.00	23.55	48.63	388.10	47.23	30.60	10.95	6.40	4.60	3.40		
14	5.30	10.65	20.40	25.05	168.30	328.30	46.03	29.10	10.80	6.40	4.50	3.30		
15	4.50	8.30	21.45	21.45	111.10	201.65	49.43	27.75	10.35	6.30	4.40	3.30		
16	5.80	8.30	36.00	21.60	84.32	166.95	39.21	26.55	10.05	6.30	4.40	3.30		
17	4.30	6.90	28.20	18.90	61.66	198.90	35.25	25.35	9.60	6.10	4.30	3.40		
18	3.40	6.20	22.20	25.95	47.43	175.05	33.15	24.45	9.45	6.00	4.30	3.30		
19	2.90	7.20	24.15	45.22	39.01	176.85	30.90	23.25	9.15	5.90	4.20	3.30		
20	2.95	6.30	32.10	85.07	35.25	183.60	29.40	22.20	9.00	5.90	4.10	3.30		
21	2.70	11.10	35.25	95.29	54.05	205.50	28.95	21.15	8.80	5.80	4.10	3.60		
22	3.50	16.65	26.85	80.09	57.25	165.60	28.65	20.40	8.70	5.80	4.10	3.50		
23	4.80	18.90	21.60	73.49	45.83	129.20	43.22	19.50	8.70	5.70	4.30	3.40		
24	8.20	13.50	21.30	52.04	36.60	103.26	40.01	18.90	8.60	5.70	4.40	3.70		
25	11.25	25.80	17.40	43.62	31.80	82.58	33.15	18.15	8.50	5.60	4.30	3.90		
26	5.40	21.60	15.30	34.05	50.84	70.69	28.20	17.55	8.30	5.50	4.10	4.20		
27	6.30	19.95	17.55	40.61	40.21	62.47	26.25	16.95	8.20	5.50	4.00	6.10		
28	3.80	25.50	14.40	42.22	34.05	61.46	28.50	16.20	8.00	5.40	3.90	7.20		
29	10.50	29.10	15.90	41.41	46.23	58.26	29.25	15.30	8.00	5.30		5.60		
30	16.50	25.50	15.15	35.25	32.85	76.85	26.25	14.70	8.00	5.30		5.30		
31		18.15		31.65	31.95		26.85		7.90	5.20		6.30		
Total	157.75	496.40	805.52	1278.44	1839.75	3378.31	1523.85	1075.93	319.85	195.30	126.60	123.70	11321.40	CMSDAY
Mean	5.26	16.01	26.85	41.24	59.35	112.61	49.16	35.86	10.32	6.30	4.52	3.99	31.02	CMS
Max	16.50	37.40	53.44	95.29	168.30	388.10	104.51	100.02	14.40	7.90	5.20	7.20	388.10	CMS
Min	2.10	5.40	11.40	18.90	31.80	33.15	26.25	14.70	7.90	5.20	3.90	3.30	2.10	CMS
Runoff	13.63	42.89	69.60	110.46	158.95	291.89	131.66	92.96	27.64	16.87	10.94	10.69	978.17	MCM

Momentary Peak 625.27 CMS. at 52.87 m. (MSL.) at 15.00 Hours , on Sep 13, 2008

Runoff Yield 16.88 Liters/Second/Square KM. Momentary Peak Yield 340.19 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1980 to date
Rating Operation	
Period of Rating	1980 to date
Rated by Float	-
Rated by Current Meter	1980 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Naresuan Dam about 2 kilometers above gage site. Stage-discharge relation defined by 21 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

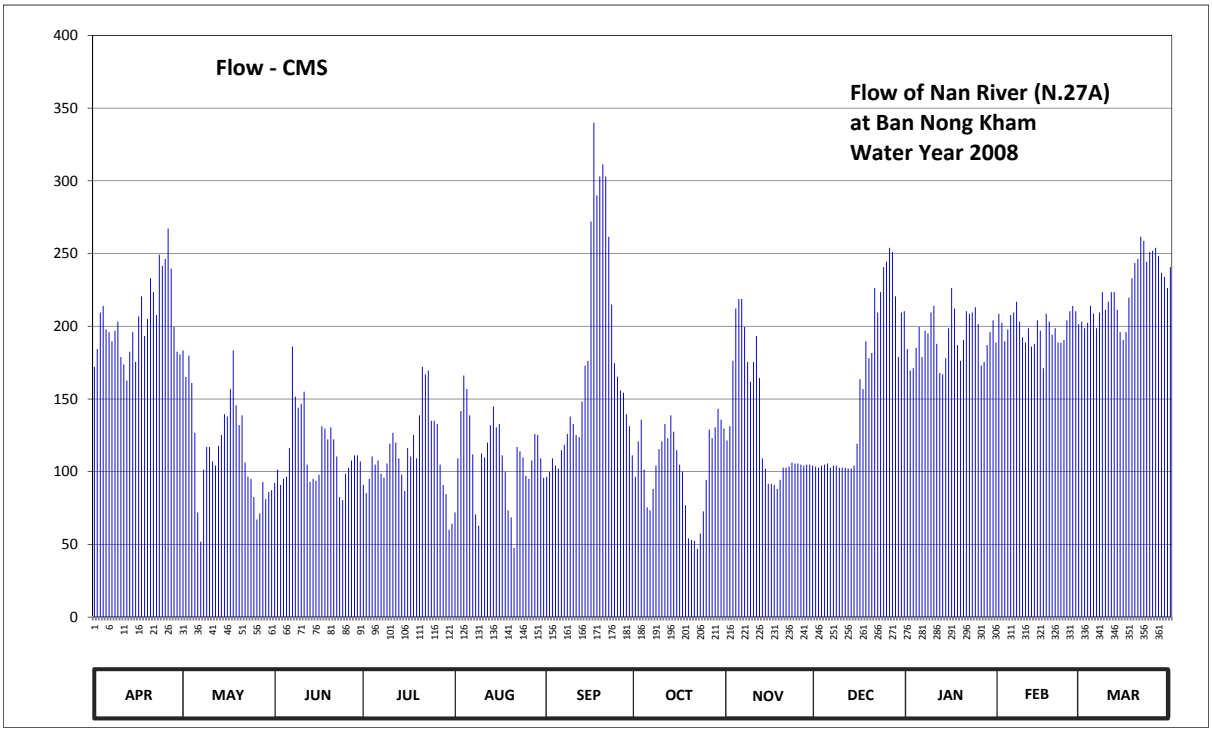
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	40.53	40.66	39.49	39.47	39.20	39.55	39.55	39.90	39.65	40.67	40.94	40.88	
2	40.67	40.45	39.62	39.39	39.73	39.60	39.89	40.03	39.64	40.50	40.87	40.83	
3	40.95	40.62	39.47	39.53	40.17	39.73	40.09	40.58	39.66	40.52	40.73	40.87	
4	41.00	40.40	39.53	39.75	40.46	39.66	39.62	40.98	39.67	40.68	40.82	41.00	
5	40.82	39.97	39.55	39.67	40.35	39.63	39.25	41.05	39.68	40.84	40.93	40.94	
6	40.80	39.20	39.83	39.71	40.13	39.81	39.22	41.05	39.64	40.61	40.95	40.83	
7	40.73	38.89	40.69	39.58	39.77	39.86	39.43	40.84	39.66	40.81	41.03	40.95	
8	40.81	39.62	40.29	39.54	39.18	39.96	39.66	40.57	39.66	40.79	40.88	41.10	
9	40.88	39.84	40.20	39.68	39.07	40.12	39.82	40.41	39.64	40.95	40.76	40.97	
10	40.61	39.84	40.23	39.87	39.78	40.05	39.89	40.57	39.64	41.00	40.72	41.03	
11	40.55	39.70	40.33	39.97	39.74	39.95	40.05	40.77	39.64	40.71	40.83	41.10	
12	40.42	39.66	39.67	39.88	39.88	39.93	39.92	40.44	39.63	40.48	40.69	41.10	
13	40.65	39.85	39.50	39.73	40.04	40.25	40.13	39.73	39.63	40.47	40.71	40.97	
14	40.80	39.95	39.53	39.57	40.21	40.54	39.98	39.63	39.66	40.60	40.89	40.80	
15	40.57	40.14	39.51	39.41	40.02	40.58	39.81	39.48	39.87	40.83	40.81	40.74	
16	40.92	40.12	39.57	39.83	40.05	41.61	39.67	39.48	40.43	41.13	40.52	40.80	
17	41.07	40.35	40.03	39.75	39.76	42.22	39.60	39.47	40.35	40.98	40.94	41.06	
18	40.77	40.66	40.01	39.95	39.60	41.80	39.27	39.43	40.73	40.70	40.88	41.20	
19	40.90	40.22	39.91	39.73	39.22	41.93	38.93	39.52	40.60	40.58	40.78	41.31	
20	41.20	40.04	40.02	40.13	39.15	42.01	38.91	39.64	40.64	40.74	40.83	41.34	
21	41.10	40.13	39.91	40.53	38.81	41.93	38.90	39.64	41.13	40.96	40.72	41.50	
22	40.93	39.69	39.75	40.47	39.84	41.50	38.80	39.65	40.95	40.94	40.72	41.47	
23	41.37	39.55	39.35	40.50	39.80	41.01	38.99	39.69	41.10	40.95	40.74	41.32	
24	41.29	39.53	39.32	40.08	39.74	40.56	39.21	39.68	41.28	40.99	40.89	41.39	
25	41.34	39.35	39.58	40.08	39.56	40.45	39.52	39.68	41.32	40.86	40.96	41.40	
26	41.56	39.13	39.64	40.05	39.53	40.34	40.00	39.67	41.42	40.54	41.00	41.42	
27	41.27	39.19	39.71	39.67	39.71	40.32	39.92	39.66	41.39	40.57	40.96	41.36	
28	40.84	39.50	39.76	39.47	39.96	40.14	40.02	39.67	41.07	40.70	40.86	41.24	
29	40.65	39.33	39.76	39.38	39.95	40.03	40.19	39.67	40.61	40.80		41.21	
30	40.63	39.40	39.70	39.03	39.73	39.76	40.09	39.66	40.95	40.89		41.13	
31		39.42		39.09	39.54		40.01		40.96	40.72		41.28	
Mean	40.89	39.82	39.78	39.76	39.73	40.49	39.62	40.01	40.32	40.76	40.83	41.11	
Max	41.56	40.66	40.69	40.53	40.46	42.22	40.19	41.05	41.42	41.13	41.03	41.50	42.22
Min	40.42	38.89	39.32	39.03	38.81	39.55	38.80	39.43	39.63	40.47	40.52	40.74	38.80

Annual Max Momentary Gage Height 42.33 m. (MSL.) , at 04.00 Hours , on Sep 20, 2008

Zero Gage at Bottom Elevation 38.43 m. (MSL.) , River Bed 36.91 m. (MSL.)

Left Bank Elevation 48.50 m. (MSL.) ,

Right Bank Elevation 48.65 m. (MSL.) , Drainage Are 19,363 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	172.05	183.40	92.30	90.90	72.00	96.50	96.50	121.50	103.50	184.30	208.60	203.20		
2	184.30	165.25	101.40	85.30	109.10	100.00	120.75	131.25	102.80	169.50	202.30	198.70		
3	209.50	179.80	90.90	95.10	141.75	109.10	135.75	176.30	104.20	171.20	189.70	202.30		
4	214.00	161.00	95.10	110.50	166.10	104.20	101.40	212.20	104.90	185.20	197.80	214.00		
5	197.80	126.75	96.50	104.90	156.75	102.10	75.50	218.75	105.60	199.60	207.70	208.60		
6	196.00	72.00	116.25	107.70	138.75	114.75	73.40	218.75	102.80	178.90	209.50	198.70		
7	189.70	51.95	186.10	98.60	111.90	118.50	88.10	199.60	104.20	196.90	216.85	209.50		
8	196.90	101.40	151.65	95.80	70.60	126.00	104.20	175.45	104.20	195.10	203.20	223.50		
9	203.20	117.00	144.00	105.60	62.90	138.00	115.50	161.85	102.80	209.50	192.40	211.30		
10	178.90	117.00	146.55	119.25	112.60	132.75	120.75	175.45	102.80	214.00	188.80	216.85		
11	173.75	107.00	155.05	126.75	109.80	125.25	132.75	193.30	102.80	187.90	198.70	223.50		
12	162.70	104.20	104.90	120.00	120.00	123.75	123.00	164.40	102.10	167.80	186.10	223.50		
13	182.50	117.75	93.00	109.10	132.00	148.25	138.75	109.10	102.10	166.95	187.90	211.30		
14	196.00	125.25	95.10	97.90	144.85	172.90	127.50	102.10	104.20	178.00	204.10	196.00		
15	175.45	139.50	93.70	86.70	130.50	176.30	114.75	91.60	119.25	198.70	196.90	190.60		
16	206.80	138.00	97.90	116.25	132.75	271.95	104.90	91.60	163.55	226.35	171.20	196.00		
17	220.65	156.75	131.25	110.50	111.20	339.98	100.00	90.90	156.75	212.20	208.60	219.70		
18	193.30	183.40	129.75	125.25	100.00	290.00	76.90	88.10	189.70	187.00	203.20	233.00		
19	205.00	145.70	122.25	109.10	73.40	303.00	54.15	94.40	178.00	176.30	194.20	243.45		
20	233.00	132.00	130.50	138.75	68.50	311.36	53.05	102.80	181.60	190.60	198.70	246.30		
21	223.50	138.75	122.25	172.05	47.55	303.00	52.50	102.80	226.35	210.40	188.80	261.50		
22	207.70	106.30	110.50	166.95	117.00	261.50	47.00	103.50	209.50	208.60	188.80	258.65		
23	249.15	96.50	82.50	169.50	114.00	214.95	57.45	106.30	223.50	209.50	190.60	244.40		
24	241.55	95.10	80.40	135.00	109.80	174.60	72.70	105.60	240.60	213.10	204.10	251.05		
25	246.30	82.50	98.60	135.00	97.20	165.25	94.40	105.60	244.40	201.40	210.40	252.00		
26	267.20	67.10	102.80	132.75	95.10	155.90	129.00	104.90	253.90	172.90	214.00	253.90		
27	239.65	71.30	107.70	104.90	107.70	154.20	123.00	104.20	251.05	175.45	210.40	248.20		
28	199.60	93.00	111.20	90.90	126.00	139.50	130.50	104.90	220.65	187.00	201.40	236.80		
29	182.50	81.10	111.20	84.60	125.25	131.25	143.25	104.90	178.90	196.00		233.95		
30	180.70	86.00	107.00	60.10	109.10	111.20	135.75	104.20	209.50	204.10		226.35		
31		87.40		64.30	95.80		129.75		210.40	188.80		240.60		
Total	6129.35	3630.15	3408.30	3470.00	3409.95	5215.99	3172.90	3966.30	4906.60	5963.25	5574.95	6977.40	55825.14	CMSDAY
Mean	204.31	117.10	113.61	111.94	110.00	173.87	102.35	132.21	158.28	192.36	199.11	225.08	152.95	CMS
Max	267.20	183.40	186.10	172.05	166.10	339.98	143.25	218.75	253.90	226.35	216.85	261.50	339.98	CMS
Min	162.70	51.95	80.40	60.10	47.55	96.50	47.00	88.10	102.10	166.95	171.20	190.60	47.00	CMS
Runoff	529.58	313.64	294.48	299.81	294.62	450.66	274.14	342.69	423.93	515.22	481.68	602.85	4823.29	MCM

Momentary Peak 354.96 CMS. at 42.33 m. (MSL.) at 04.00 Hours , on Sep 20, 2008

Runoff Yield 7.90 Liters/Second/Square KM. Momentary Peak Yield 18.33 Liters/Second/Square KM.

WATER YEAR : 2008

NAN RIVER BASIN

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

Lat 17 - 35 - 00 N Long 100 - 29 - 30 E

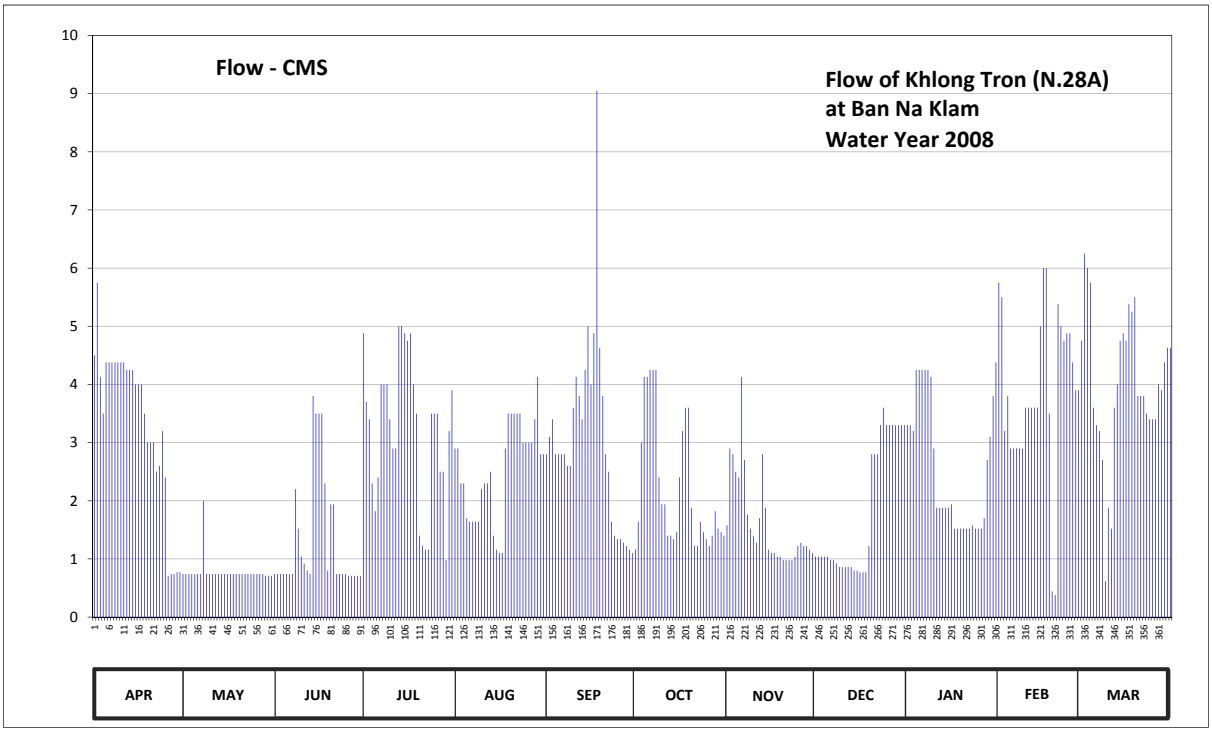
Location : on right bank at Ban Na Klam.

	Ban Na Klam	**Amphoe** Nam Pat	**Changwat** Uttaradit
Drainge Area	368 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**	+5.757 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Float	-		
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 16 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.84	1.38	1.38	1.87	1.69	1.68	1.46	1.53	1.44	1.73	1.94	1.86	
2	1.94	1.38	1.38	1.77	1.69	1.71	1.54	1.69	1.44	1.73	1.92	1.98	
3	1.81	1.38	1.38	1.74	1.63	1.74	1.70	1.68	1.44	1.72	1.72	1.96	
4	1.75	1.38	1.38	1.63	1.63	1.68	1.81	1.65	1.44	1.82	1.78	1.94	
5	1.83	1.38	1.38	1.57	1.55	1.68	1.81	1.64	1.44	1.82	1.69	1.76	
6	1.83	1.38	1.38	1.64	1.54	1.68	1.82	1.81	1.43	1.82	1.69	1.73	
7	1.83	1.38	1.38	1.80	1.54	1.68	1.82	1.67	1.43	1.82	1.69	1.72	
8	1.83	1.60	1.62	1.80	1.54	1.66	1.82	1.56	1.42	1.82	1.69	1.67	
9	1.83	1.38	1.52	1.80	1.54	1.66	1.64	1.52	1.41	1.81	1.69	1.34	
10	1.83	1.38	1.44	1.74	1.62	1.76	1.59	1.50	1.41	1.69	1.76	1.58	
11	1.83	1.38	1.42	1.69	1.63	1.81	1.59	1.48	1.41	1.58	1.76	1.52	
12	1.82	1.38	1.40	1.69	1.63	1.78	1.50	1.55	1.41	1.58	1.76	1.76	
13	1.82	1.38	1.38	1.88	1.65	1.74	1.50	1.68	1.41	1.58	1.76	1.80	
14	1.82	1.38	1.78	1.88	1.50	1.82	1.49	1.58	1.40	1.58	1.76	1.86	
15	1.80	1.38	1.75	1.87	1.46	1.88	1.51	1.46	1.40	1.58	1.88	1.87	
16	1.80	1.38	1.75	1.86	1.45	1.80	1.64	1.45	1.39	1.59	1.96	1.86	
17	1.80	1.38	1.75	1.87	1.45	1.87	1.72	1.45	1.39	1.52	1.96	1.91	
18	1.75	1.38	1.63	1.80	1.69	2.17	1.76	1.44	1.39	1.52	1.75	1.90	
19	1.70	1.38	1.40	1.75	1.75	1.85	1.76	1.44	1.47	1.52	1.28	1.92	
20	1.70	1.38	1.59	1.50	1.75	1.78	1.58	1.43	1.68	1.52	1.26	1.78	
21	1.70	1.38	1.59	1.47	1.75	1.68	1.47	1.43	1.68	1.52	1.91	1.78	
22	1.65	1.38	1.38	1.46	1.75	1.65	1.47	1.43	1.68	1.52	1.88	1.78	
23	1.66	1.38	1.38	1.46	1.75	1.54	1.54	1.43	1.73	1.53	1.86	1.75	
24	1.72	1.38	1.38	1.75	1.70	1.50	1.51	1.44	1.76	1.52	1.87	1.74	
25	1.64	1.38	1.38	1.75	1.70	1.49	1.49	1.47	1.73	1.52	1.87	1.74	
26	1.37	1.38	1.37	1.75	1.70	1.49	1.47	1.48	1.73	1.52	1.83	1.74	
27	1.38	1.38	1.37	1.65	1.70	1.48	1.50	1.47	1.73	1.55	1.79	1.80	
28	1.38	1.38	1.37	1.65	1.74	1.47	1.57	1.47	1.73	1.67	1.79	1.79	
29	1.39	1.37	1.37	1.43	1.81	1.46	1.52	1.46	1.73	1.71		1.83	
30	1.39	1.37	1.37	1.72	1.68	1.45	1.51	1.45	1.73	1.78		1.85	
31		1.37		1.79	1.68		1.50		1.73	1.83		1.85	
Mean	1.71	1.39	1.47	1.71	1.64	1.69	1.60	1.52	1.54	1.65	1.77	1.79	
Max	1.94	1.60	1.78	1.88	1.81	2.17	1.82	1.81	1.76	1.83	1.96	1.98	2.17
Min	1.37	1.37	1.37	1.43	1.45	1.45	1.46	1.43	1.39	1.52	1.26	1.34	1.26

Annual Max Momentary Gage Height	2.50	m. (A.D.) ,	at 15.00 Hours , on Sep 18, 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	0.29	m. (A.D.)
Left Bank Elevation	7.02	m. (A.D.) ,			
Right Bank Elevation	7.01	m. (A.D.) ,	Drainage Are	368	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.50	0.74	0.74	4.88	2.90	2.80	1.16	1.58	1.04	3.30	5.75	4.75		
2	5.75	0.74	0.74	3.70	2.90	3.10	1.64	2.90	1.04	3.30	5.50	6.25		
3	4.13	0.74	0.74	3.40	2.30	3.40	3.00	2.80	1.04	3.20	3.20	6.00		
4	3.50	0.74	0.74	2.30	2.30	2.80	4.13	2.50	1.04	4.25	3.80	5.75		
5	4.38	0.74	0.74	1.82	1.70	2.80	4.13	2.40	1.04	4.25	2.90	3.60		
6	4.38	0.74	0.74	2.40	1.64	2.80	4.25	4.13	0.98	4.25	2.90	3.30		
7	4.38	0.74	0.74	4.00	1.64	2.80	4.25	2.70	0.98	4.25	2.90	3.20		
8	4.38	2.00	2.20	4.00	1.64	2.60	4.25	1.76	0.92	4.25	2.90	2.70		
9	4.38	0.74	1.52	4.00	1.64	2.60	2.40	1.52	0.86	4.13	2.90	0.62		
10	4.38	0.74	1.04	3.40	2.20	3.60	1.94	1.40	0.86	2.90	3.60	1.88		
11	4.38	0.74	0.92	2.90	2.30	4.13	1.94	1.28	0.86	1.88	3.60	1.52		
12	4.25	0.74	0.80	2.90	2.30	3.80	1.40	1.70	0.86	1.88	3.60	3.60		
13	4.25	0.74	0.74	5.00	2.50	3.40	1.40	2.80	0.86	1.88	3.60	4.00		
14	4.25	0.74	3.80	5.00	1.40	4.25	1.34	1.88	0.80	1.88	3.60	4.75		
15	4.00	0.74	3.50	4.88	1.16	5.00	1.46	1.16	0.80	1.88	5.00	4.88		
16	4.00	0.74	3.50	4.75	1.10	4.00	2.40	1.10	0.77	1.94	6.00	4.75		
17	4.00	0.74	3.50	4.88	1.10	4.88	3.20	1.10	0.77	1.52	6.00	5.38		
18	3.50	0.74	2.30	4.00	2.90	9.05	3.60	1.04	0.77	1.52	3.50	5.25		
19	3.00	0.74	0.80	3.50	3.50	4.63	3.60	1.04	1.22	1.52	0.44	5.50		
20	3.00	0.74	1.94	1.40	3.50	3.80	1.88	0.98	2.80	1.52	0.38	3.80		
21	3.00	0.74	1.94	1.22	3.50	2.80	1.22	0.98	2.80	1.52	5.38	3.80		
22	2.50	0.74	0.74	1.16	3.50	2.50	1.22	0.98	2.80	1.52	5.00	3.80		
23	2.60	0.74	0.74	1.16	3.50	1.64	1.64	0.98	3.30	1.58	4.75	3.50		
24	3.20	0.74	0.74	3.50	3.00	1.40	1.46	1.04	3.60	1.52	4.88	3.40		
25	2.40	0.74	0.74	3.50	3.00	1.34	1.34	1.22	3.30	1.52	4.88	3.40		
26	0.71	0.74	0.71	3.50	3.00	1.34	1.22	1.28	3.30	1.52	4.38	3.40		
27	0.74	0.74	0.71	2.50	3.00	1.28	1.40	1.22	3.30	1.70	3.90	4.00		
28	0.74	0.74	0.71	2.50	3.40	1.22	1.82	1.22	3.30	2.70	3.90	3.90		
29	0.77	0.71	0.71	0.98	4.13	1.16	1.52	1.16	3.30	3.10		4.38		
30	0.77	0.71	0.71	3.20	2.80	1.10	1.46	1.10	3.30	3.80		4.63		
31		0.71		3.90	2.80		1.40		3.30	4.38		4.63		
Total	100.22	24.11	40.19	100.23	78.25	92.02	69.07	48.95	55.91	80.36	109.14	124.32	922.77	CMSDAY
Mean	3.34	0.78	1.34	3.23	2.52	3.07	2.23	1.63	1.80	2.59	3.90	4.01	2.53	CMS
Max	5.75	2.00	3.80	5.00	4.13	9.05	4.25	4.13	3.60	4.38	6.00	6.25	9.05	CMS
Min	0.71	0.71	0.71	0.98	1.10	1.10	1.16	0.98	0.77	1.52	0.38	0.62	0.38	CMS
Runoff	8.66	2.08	3.47	8.66	6.76	7.95	5.97	4.23	4.83	6.94	9.43	10.74	79.73	MCM

Momentary Peak 18.00 CMS. at 2.50 m. (A.D.) at 15.00 Hours , on Sep 18 , 2008

Runoff Yield 6.87 Liters/Second/Square KM. Momentary Peak Yield 48.91 Liters/Second/Square KM.

WATER YEAR : 2008

NAN RIVER BASIN

Khwae Noi River 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.

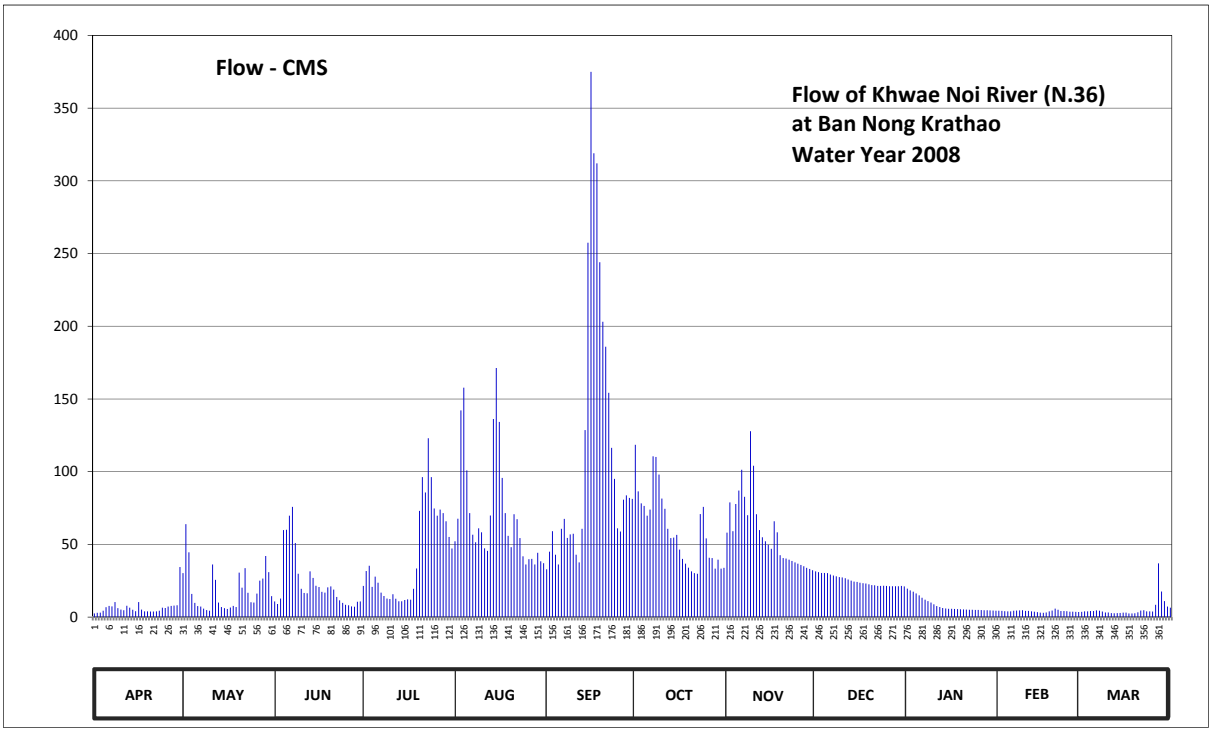
Ban Nong Krathao **Amphoe** Nakhon Thai **Changwat** Phitsanulok

Drainge 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 mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1971 - 1979 , 1993 to date
Rated by Float	-
Rated by Current Meter	1971 - 1979 , 1993 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	192.74	194.85	193.54	194.36	196.03	195.00	198.59	196.33	194.92	194.24	192.94	192.86	
2	192.80	196.62	193.40	194.93	196.81	195.66	197.64	197.33	194.89	194.15	192.93	192.89	
3	192.81	195.64	193.70	195.13	198.86	196.38	197.30	196.38	194.86	194.08	192.91	192.90	
4	192.94	193.96	196.42	194.32	198.99	195.55	197.22	197.28	194.86	193.98	192.90	192.92	
5	193.18	193.46	196.43	194.72	198.21	195.18	196.91	197.66	194.85	193.88	192.89	192.92	
6	193.27	193.26	196.91	194.49	197.00	196.46	197.11	198.22	194.80	193.74	192.94	192.96	
7	193.24	193.23	197.19	194.03	196.26	196.80	198.44	197.49	194.76	193.64	192.95	192.94	
8	193.51	193.08	195.97	193.84	196.00	196.15	198.43	196.93	194.73	193.56	192.96	192.88	
9	193.12	192.98	194.83	193.70	196.48	196.27	198.10	198.71	194.70	193.48	192.97	192.82	
10	193.02	192.94	194.23	193.67	196.34	196.29	197.44	198.29	194.69	193.38	192.93	192.82	
11	192.97	195.18	194.01	193.94	195.79	195.55	197.13	196.96	194.66	193.26	192.93	192.77	
12	193.28	194.60	193.99	193.69	195.69	195.26	196.46	196.42	194.61	193.19	192.89	192.75	
13	193.15	193.48	194.92	193.55	196.92	196.46	196.14	196.17	194.57	193.13	192.87	192.77	
14	193.01	193.19	194.67	193.55	198.81	198.72	196.16	196.03	194.53	193.09	192.84	192.78	
15	192.91	193.11	194.37	193.62	199.05	199.31	196.25	195.91	194.52	193.07	192.81	192.81	
16	193.51	193.06	194.31	193.66	198.79	199.51	195.74	195.77	194.49	193.07	192.80	192.81	
17	193.02	193.16	194.07	193.64	198.01	199.43	195.39	196.72	194.47	193.06	192.82	192.73	
18	192.89	193.27	194.03	194.23	197.00	199.42	195.21	196.34	194.46	193.05	192.89	192.74	
19	192.89	193.19	194.30	195.03	196.22	199.28	195.06	195.53	194.43	193.04	192.95	192.75	
20	192.88	194.87	194.34	197.07	195.83	199.18	194.92	195.42	194.40	193.03	193.08	192.83	
21	192.88	194.28	194.19	198.03	196.96	199.11	194.85	195.40	194.39	193.02	193.00	192.95	
22	192.89	195.04	193.79	197.61	196.79	198.96	194.83	195.36	194.36	193.01	192.92	192.97	
23	192.94	194.02	193.60	198.65	196.14	198.55	196.97	195.31	194.36	193.00	192.92	192.90	
24	193.15	193.50	193.46	198.03	195.49	197.98	197.19	195.26	194.37	192.99	192.91	192.90	
25	193.13	193.48	193.35	197.14	195.18	196.48	196.13	195.21	194.36	192.99	192.87	192.88	
26	193.23	193.97	193.31	196.91	195.38	196.37	195.43	195.16	194.35	192.98	192.87	193.35	
27	193.27	194.57	193.24	197.11	195.39	197.41	195.42	195.11	194.35	192.97	192.86	195.22	
28	193.29	194.65	193.21	197.00	195.18	197.53	195.02	195.05	194.35	192.97	192.85	194.09	
29	193.31	195.50	193.52	196.72	195.62	197.46	195.36	195.01	194.35	192.96		193.56	
30	195.08	194.89	193.54	196.18	195.30	197.43	195.02	194.96	194.36	192.95		193.22	
31		193.83		195.78	195.23		195.05		194.34	192.94		193.15	
Mean	193.14	194.03	194.36	195.30	196.64	197.30	196.35	196.26	194.55	193.29	192.91	193.03	
Max	195.08	196.62	197.19	198.65	199.05	199.51	198.59	198.71	194.92	194.24	193.08	195.22	199.51
Min	192.74	192.94	193.21	193.55	195.18	195.00	194.83	194.96	194.34	192.94	192.80	192.73	192.73

Annual Max Momentary Gage Height	199.52	m. (MSL.) ,	at 05.00 Hours , on Sep 16, 2008		
Zero Gage at Bottom Elevation	191.88	m. (MSL.) ,	River Bed	191.98	m. (MSL.)
Left Bank Elevation	203.16	m. (MSL.) ,			
Right Bank Elevation	203.21	m. (MSL.) ,	Drainage Are	1,710	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.55	30.20	10.75	21.40	52.10	32.93	118.48	58.10	31.47	19.60	4.40	3.60		
2	3.00	63.90	9.00	31.65	67.70	44.95	86.50	78.93	30.93	18.38	4.30	3.90		
3	3.10	44.59	12.75	35.30	142.20	59.10	78.25	59.10	30.38	17.50	4.10	4.00		
4	4.40	16.00	59.90	20.80	157.80	42.95	76.45	77.80	30.38	16.25	4.00	4.20		
5	6.80	9.75	60.10	27.83	100.90	36.21	69.70	87.00	30.20	15.00	3.90	4.20		
6	7.70	7.60	69.70	23.64	71.50	60.70	73.98	101.30	29.29	13.25	4.40	4.60		
7	7.40	7.30	75.78	16.88	56.70	67.50	110.60	82.75	28.56	12.00	4.50	4.40		
8	10.38	5.80	50.90	14.50	51.50	54.50	110.08	70.10	28.01	11.00	4.60	3.80		
9	6.20	4.80	29.83	12.75	61.10	56.90	98.00	127.80	27.46	10.00	4.70	3.20		
10	5.20	4.40	19.45	12.38	58.30	57.30	81.50	104.10	27.28	8.80	4.30	3.20		
11	4.70	36.21	16.63	15.75	47.32	42.95	74.43	70.70	26.74	7.60	4.30	2.78		
12	7.80	25.64	16.38	12.63	45.50	37.66	60.70	59.90	25.83	6.90	3.90	2.63		
13	6.50	10.00	31.47	10.88	69.90	60.70	54.30	54.90	25.10	6.30	3.70	2.78		
14	5.10	6.90	26.92	10.88	136.20	128.60	54.70	52.10	24.37	5.90	3.40	2.85		
15	4.10	6.10	21.55	11.75	171.25	257.50	56.50	49.70	24.19	5.70	3.10	3.10		
16	10.38	5.60	20.65	12.25	134.20	375.00	46.41	46.95	23.64	5.70	3.00	3.10		
17	5.20	6.60	17.38	12.00	95.75	319.00	40.03	65.90	23.28	5.60	3.20	2.48		
18	3.90	7.70	16.88	19.45	71.50	312.00	36.75	58.30	23.09	5.50	3.90	2.55		
19	3.90	6.90	20.50	33.48	55.90	244.00	34.02	42.58	22.55	5.40	4.50	2.63		
20	3.80	30.56	21.10	73.08	48.10	203.10	31.47	40.58	22.00	5.30	5.80	3.30		
21	3.80	20.20	18.88	96.25	70.70	185.95	30.20	40.21	21.85	5.20	5.00	4.50		
22	3.90	33.66	13.88	85.75	67.30	154.20	29.83	39.49	21.40	5.10	4.20	4.70		
23	4.40	16.75	11.50	123.00	54.30	116.38	70.90	38.58	21.40	5.00	4.20	4.00		
24	6.50	10.25	9.75	96.25	41.85	95.00	75.78	37.66	21.55	4.90	4.10	4.00		
25	6.30	10.00	8.50	74.65	36.21	61.10	54.10	36.75	21.40	4.90	3.70	3.80		
26	7.30	16.13	8.10	69.70	39.85	58.90	40.76	35.84	21.25	4.80	3.70	8.50		
27	7.70	25.10	7.40	73.98	40.03	80.75	40.58	34.93	21.25	4.70	3.60	36.94		
28	7.90	26.55	7.10	71.50	36.21	83.75	33.29	33.84	21.25	4.70	3.50	17.63		
29	8.10	42.04	10.50	65.90	44.22	82.00	39.49	33.11	21.25	4.60		11.00		
30	34.39	30.93	10.75	55.10	38.39	81.25	33.29	32.20	21.40	4.50		7.20		
31		14.38		47.14	37.12		33.84		21.10	4.40		6.50		
Total	202.40	582.54	713.98	1288.50	2201.60	3492.83	1874.91	1751.20	769.85	254.48	114.00	176.07	13422.36	CMSDAY
Mean	6.75	18.79	23.80	41.56	71.02	116.43	60.48	58.37	24.83	8.21	4.07	5.68	36.77	CMS
Max	34.39	63.90	75.78	123.00	171.25	375.00	118.48	127.80	31.47	19.60	5.80	36.94	375.00	CMS
Min	2.55	4.40	7.10	10.88	36.21	32.93	29.83	32.20	21.10	4.40	3.00	2.48	2.48	CMS
Runoff	17.49	50.33	61.69	111.33	190.22	301.78	161.99	151.30	66.52	21.99	9.85	15.21	1159.69	MCM

Momentary Peak 382.00 CMS. at 199.52 m. (MSL.) at 05.00 Hours , on Sep 16, 2008

Runoff Yield 21.51 Liters/Second/Square KM. Momentary Peak Yield 223.39 Liters/Second/Square KM.

WATER YEAR : 2008

NAN RIVER BASIN

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

Lat 17 - 13 - 07 N Long 100 - 21 - 14 E

Location : on left bank about 2 kilometers upstream, Ban Nong Bon.

Ban Nong Bon **Amphoe** Wat Bot **Changwat** Phitsanulok

Drainge Area	4,264 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+47.450 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank near the gage site. **Elevation** +61.392 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 mean of 5 readings
Period of Available Gage Records	1967 -1968, 1972 to date.
Rating Operation	
Period of Rating	1977 to date.
Rated by Float	-
Rated by Current Meter	1977 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 16 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

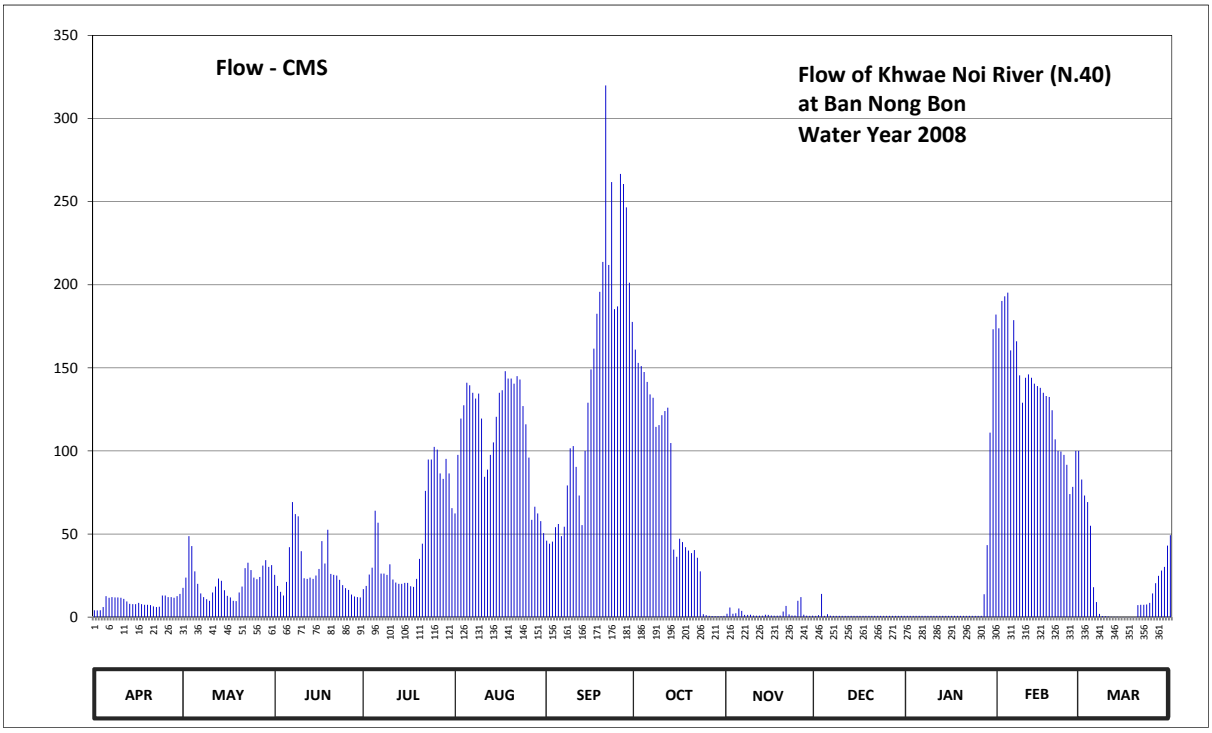
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	48.01	48.73	49.12	48.69	50.41	49.90	52.60	47.87	47.76	47.75	52.85	50.92	
2	48.00	49.04	48.79	48.79	51.29	49.84	52.44	48.12	47.81	47.75	53.15	50.68	
3	48.01	49.99	48.61	49.13	51.77	49.88	52.40	47.87	48.55	47.75	53.20	50.58	
4	48.14	49.79	48.50	49.31	51.93	50.17	52.33	47.89	47.76	47.75	53.24	50.20	
5	48.48	49.22	48.91	50.45	52.20	50.23	52.21	48.08	47.85	47.75	52.59	48.75	
6	48.43	48.85	49.77	50.25	52.17	49.99	52.06	47.98	47.77	47.75	52.94	48.30	
7	48.45	48.56	50.58	49.16	52.08	50.18	52.02	47.82	47.76	47.75	52.70	47.86	
8	48.44	48.45	50.40	49.16	52.01	50.83	51.67	47.82	47.76	47.75	52.29	47.73	
9	48.44	48.39	50.36	49.12	52.07	51.39	51.69	47.83	47.76	47.75	51.96	47.72	
10	48.43	48.34	49.69	49.39	51.77	51.42	51.81	47.79	47.76	47.75	52.26	47.67	
11	48.40	48.59	49.02	48.98	50.96	51.11	51.86	47.77	47.76	47.75	52.30	47.64	
12	48.32	48.77	49.00	48.89	51.07	50.68	51.90	47.77	47.76	47.75	52.26	47.63	
13	48.25	49.01	49.04	48.85	51.29	50.21	51.46	47.78	47.75	47.75	52.19	47.63	
14	48.24	48.94	49.00	48.85	51.47	51.35	49.72	47.83	47.75	47.75	52.16	47.62	
15	48.24	48.66	49.10	48.88	51.79	51.96	49.57	47.82	47.75	47.75	52.14	47.62	
16	48.28	48.49	49.28	48.88	52.08	52.36	49.94	47.79	47.75	47.75	52.08	47.62	
17	48.24	48.44	49.89	48.78	52.11	52.61	49.87	47.78	47.75	47.75	52.04	47.62	
18	48.22	48.34	49.41	48.76	52.34	53.01	49.77	47.77	47.75	47.75	52.03	47.62	
19	48.22	48.33	50.12	49.00	52.25	53.25	49.70	47.79	47.75	47.75	51.87	47.62	
20	48.21	48.59	49.15	49.52	52.25	53.56	49.65	47.96	47.75	47.75	51.51	48.21	
21	48.16	48.77	49.12	49.84	52.19	55.26	49.71	48.18	47.75	47.75	51.35	48.22	
22	48.14	49.30	49.10	50.75	52.28	53.53	49.55	47.84	47.75	47.75	51.34	48.22	
23	48.15	49.43	48.97	51.22	52.24	54.35	49.22	47.79	47.75	47.75	51.29	48.23	
24	48.50	49.25	48.81	51.22	51.92	53.06	47.85	47.80	47.75	47.75	51.14	48.28	
25	48.50	49.04	48.72	51.41	51.70	53.09	47.81	48.34	47.75	47.75	50.70	48.56	
26	48.45	48.99	48.67	51.37	51.25	54.43	47.75	48.45	47.75	47.75	50.81	48.87	
27	48.45	49.06	48.53	51.01	50.30	54.33	47.74	47.83	47.75	48.54	51.35	49.09	
28	48.43	49.36	48.47	50.93	50.51	54.10	47.72	47.77	47.75	49.81	51.35	49.24	
29	48.48	49.49	48.45	51.23	50.41	53.35	47.72	47.76	47.75	51.60		49.33	
30	48.55	49.33	48.44	51.01	50.28	52.92	47.71	47.77	47.75	52.84		49.80	
31		49.37		50.49	50.05		47.75		47.75	53.00		50.01	
Mean	48.31	48.93	49.17	49.78	51.56	52.08	50.17	47.89	47.78	48.30	52.04	48.55	
Max	48.55	49.99	50.58	51.41	52.34	55.26	52.60	48.45	48.55	53.00	53.24	50.92	55.26
Min	48.00	48.33	48.44	48.69	50.05	49.84	47.71	47.76	47.75	47.75	50.70	47.62	47.62

Annual Max Momentary Gage Height 55.55 m. (MSL.) , at 06.00 Hours , on Sep 21, 2008

Zero Gage at Bottom Elevation 47.45 m. (MSL.) , River Bed 46.68 m. (MSL.)

Left Bank Elevation 60.67 m. (MSL.) ,

Right Bank Elevation 62.22 m. (MSL.) , Drainage Are 4,264 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.15	17.60	25.40	16.80	62.40	46.00	161.00	2.05	0.80	0.75	173.75	82.80		
2	4.00	23.80	18.80	18.80	97.60	44.20	153.00	5.80	1.15	0.75	190.25	73.20		
3	4.15	48.70	15.20	25.60	119.50	45.40	151.00	2.05	14.00	0.75	193.00	69.20		
4	6.10	42.70	13.00	29.75	127.50	54.10	147.50	2.35	0.80	0.75	195.20	55.00		
5	12.60	27.50	21.20	64.00	141.00	56.05	141.50	5.20	1.75	0.75	160.50	18.00		
6	11.60	20.00	42.10	56.75	139.50	48.70	134.00	3.70	0.85	0.75	178.70	9.00		
7	12.00	14.20	69.20	26.20	135.00	54.40	132.00	1.30	0.80	0.75	166.00	1.90		
8	11.80	12.00	62.00	26.20	131.50	79.20	114.50	1.30	0.80	0.75	145.50	0.65		
9	11.80	10.80	60.60	25.40	134.50	101.60	115.50	1.45	0.80	0.75	129.00	0.60		
10	11.60	9.80	39.70	31.75	119.50	102.90	121.50	0.95	0.80	0.75	144.00	0.35		
11	11.00	14.80	23.40	22.60	84.40	90.40	124.00	0.85	0.80	0.75	146.00	0.20		
12	9.40	18.40	23.00	20.80	88.80	73.20	126.00	0.85	0.80	0.75	144.00	0.15		
13	8.00	23.20	23.80	20.00	97.60	55.35	104.70	0.90	0.75	0.75	140.50	0.15		
14	7.80	21.80	23.00	20.00	105.15	100.00	40.60	1.45	0.75	0.75	139.00	0.10		
15	7.80	16.20	25.00	20.60	120.50	129.00	36.25	1.30	0.75	0.75	138.00	0.10		
16	8.60	12.80	29.00	20.60	135.00	149.00	47.20	0.95	0.75	0.75	135.00	0.10		
17	7.80	11.80	45.70	18.60	136.50	161.50	45.10	0.90	0.75	0.75	133.00	0.10		
18	7.40	9.80	32.25	18.20	148.00	182.55	42.10	0.85	0.75	0.75	132.50	0.10		
19	7.40	9.60	52.60	23.00	143.50	195.75	40.00	0.95	0.75	0.75	124.50	0.10		
20	7.20	14.80	26.00	35.00	143.50	213.73	38.50	3.40	0.75	0.75	106.95	7.20		
21	6.40	18.40	25.40	44.20	140.50	319.90	40.30	6.70	0.75	0.75	100.00	7.40		
22	6.10	29.50	25.00	76.00	145.00	211.91	35.75	1.60	0.75	0.75	99.60	7.40		
23	6.25	32.75	22.40	94.80	143.00	261.79	27.50	0.95	0.75	0.75	97.60	7.60		
24	13.00	28.25	19.20	94.80	127.00	185.30	1.75	1.00	0.75	0.75	91.60	8.60		
25	13.00	23.80	17.40	102.45	116.00	186.95	1.15	9.80	0.75	0.75	74.00	14.20		
26	12.00	22.80	16.40	100.80	96.00	266.66	0.75	12.00	0.75	0.75	78.40	20.40		
27	12.00	24.20	13.60	86.40	58.50	260.58	0.70	1.45	0.75	13.80	100.00	24.80		
28	11.60	31.00	12.40	83.20	66.40	246.58	0.60	0.85	0.75	43.30	100.00	28.00		
29	12.60	34.25	12.00	95.20	62.40	201.25	0.60	0.80	0.75	111.00		30.25		
30	14.00	30.25	11.80	86.40	57.80	177.60	0.55	0.85	0.75	173.20		43.00		
31		31.25		65.60	50.50		0.75		0.75	182.00		49.30		
Total	279.15	686.75	846.55	1470.50	3474.05	4301.55	2126.35	74.55	38.40	542.80	3756.55	559.95	18157.15	CMSDAY
Mean	9.31	22.15	28.22	47.44	112.07	143.38	68.59	2.48	1.24	17.51	134.16	18.06	49.75	CMS
Max	14.00	48.70	69.20	102.45	148.00	319.90	161.00	12.00	14.00	182.00	195.20	82.80	319.90	CMS
Min	4.00	9.60	11.80	16.80	50.50	44.20	0.55	0.80	0.75	0.75	74.00	0.10	0.10	CMS
Runoff	24.12	59.34	73.14	127.05	300.16	371.65	183.72	6.44	3.32	46.90	324.57	48.38	1568.78	MCM

Momentary Peak 338.75 CMS. at 55.55 m. (MSL.) at 06.00 Hours , on Sep 21, 2008

Runoff Yield 11.67 Liters/Second/Square KM. Momentary Peak Yield 79.44 Liters/Second/Square KM.

WATER YEAR : 2008

NAN RIVER BASIN

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

Lat 18 - 59 - 33 N Long 100 - 56 - 36 E

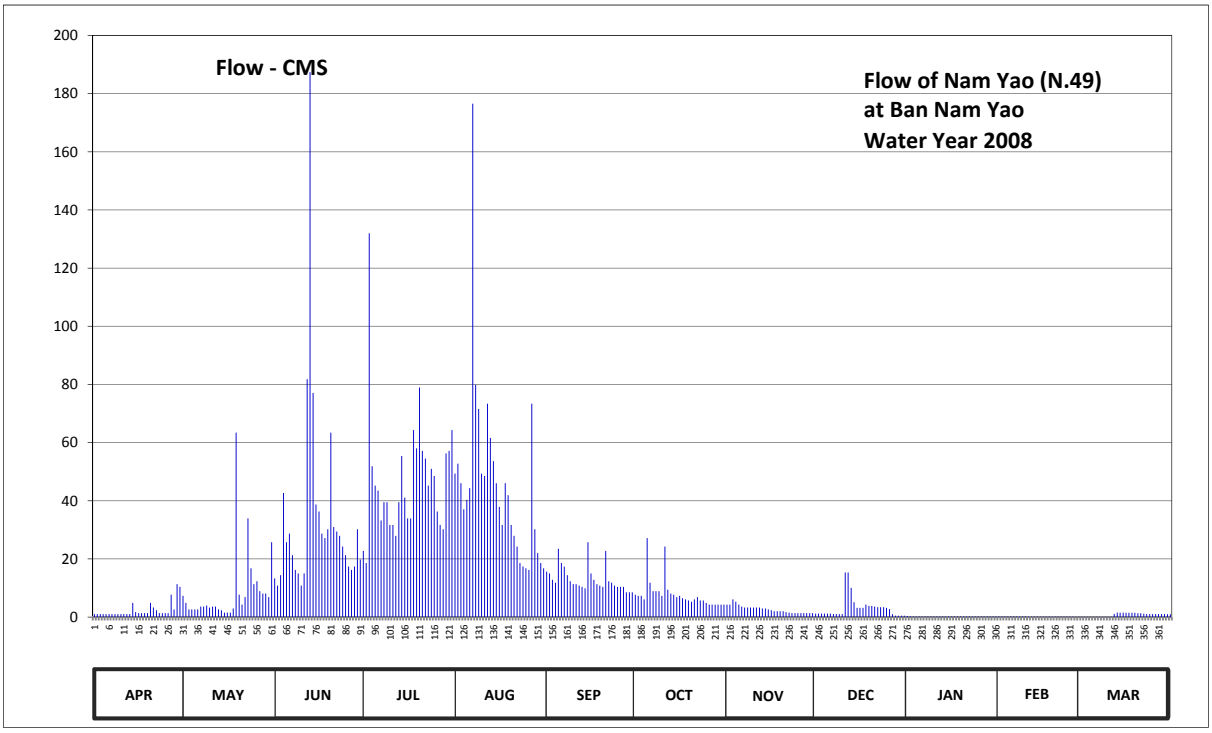
Location : on right bank downstream of the bridge of Nam Yao, along Pua - Sila Phet Road.

	Ban Nam Yao	**Amphoe** Pua	**Changwat** Nan
Drainge Area	153 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+263.983 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 15 meters from the top staff gage.	**Elevation** +270.035 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 mean of 5 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1979 to date		
Rated by Float	-		
Rated by Current Meter	1979 to date		
Stability of Channel Regimes	Rather unstable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 32 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	265.16	265.36	265.49	265.64	265.98	265.53	265.37	265.28	265.17	265.43	265.34	265.27	
2	265.16	265.30	265.44	265.58	266.02	265.52	265.36	265.28	265.17	265.41	265.34	265.27	
3	265.16	265.23	265.51	266.85	265.94	265.48	265.36	265.33	265.17	265.40	265.34	265.27	
4	265.16	265.23	265.90	266.01	265.83	265.46	265.33	265.31	265.17	265.40	265.34	265.27	
5	265.16	265.23	265.68	265.93	265.87	265.65	265.70	265.28	265.17	265.40	265.34	265.27	
6	265.16	265.23	265.72	265.91	265.92	265.58	265.46	265.26	265.17	265.39	265.34	265.26	
7	265.16	265.26	265.62	265.78	267.27	265.56	265.40	265.25	265.16	265.39	265.34	265.26	
8	265.16	265.26	265.54	265.86	266.32	265.51	265.40	265.25	265.16	265.39	265.34	265.26	
9	265.16	265.27	265.52	265.86	266.23	265.47	265.40	265.25	265.16	265.39	265.34	265.26	
10	265.16	265.25	265.44	265.76	265.98	265.45	265.36	265.25	265.16	265.39	265.34	265.26	
11	265.16	265.26	265.52	265.76	265.97	265.45	265.66	265.25	265.98	265.39	265.33	265.26	
12	265.16	265.26	266.34	265.71	266.25	265.44	265.41	265.25	265.98	265.37	265.33	265.58	
13	265.16	265.23	267.37	265.86	266.12	265.43	265.38	265.24	265.92	265.37	265.33	265.64	
14	265.30	265.22	266.29	266.05	266.03	265.42	265.37	265.24	265.82	265.36	265.33	265.64	
15	265.20	265.19	265.85	265.88	265.94	265.68	265.35	265.23	265.75	265.36	265.33	265.64	
16	265.18	265.19	265.82	265.79	265.84	265.52	265.36	265.22	265.75	265.36	265.33	265.63	
17	265.18	265.19	265.72	265.79	265.76	265.48	265.34	265.21	265.75	265.36	265.32	265.63	
18	265.18	265.24	265.70	266.15	265.94	265.45	265.33	265.21	265.80	265.36	265.32	265.63	
19	265.18	266.14	265.74	266.08	265.89	265.44	265.32	265.21	265.78	265.36	265.32	265.63	
20	265.30	265.37	266.14	266.31	265.76	265.43	265.31	265.21	265.78	265.36	265.32	265.61	
21	265.25	265.28	265.75	266.07	265.71	265.64	265.33	265.20	265.77	265.36	265.32	265.61	
22	265.22	265.35	265.73	266.04	265.66	265.47	265.35	265.19	265.76	265.36	265.32	265.59	
23	265.18	265.79	265.71	265.93	265.58	265.46	265.32	265.18	265.76	265.35	265.32	265.57	
24	265.18	265.55	265.66	266.00	265.56	265.44	265.32	265.18	265.76	265.35	265.31	265.57	
25	265.18	265.45	265.62	265.97	265.55	265.43	265.30	265.18	265.75	265.35	265.30	265.57	
26	265.18	265.47	265.56	265.82	265.54	265.43	265.28	265.18	265.73	265.35	265.29	265.57	
27	265.37	265.40	265.54	265.76	266.25	265.43	265.28	265.18	265.56	265.35	265.28	265.57	
28	265.23	265.38	265.56	265.74	265.74	265.39	265.28	265.18	265.45	265.35	265.27	265.57	
29	265.45	265.38	265.74	266.06	265.63	265.39	265.28	265.18	265.45	265.35		265.57	
30	265.43	265.35	265.60	266.07	265.58	265.39	265.28	265.18	265.45	265.35		265.56	
31		265.68		266.15	265.55		265.28		265.45	265.35		265.56	
Mean	265.21	265.35	265.76	265.94	265.91	265.48	265.36	265.23	265.54	265.37	265.32	265.48	
Max	265.45	266.14	267.37	266.85	267.27	265.68	265.70	265.33	265.98	265.43	265.34	265.64	267.37
Min	265.16	265.19	265.44	265.58	265.54	265.39	265.28	265.18	265.16	265.35	265.27	265.26	265.16

Annual Max Momentary Gage Height	268.28	m. (MSL.) ,	at 06.00 Hours , on Jun 13, 2008		
Zero Gage at Bottom Elevation	263.98	m. (MSL.) ,	River Bed	264.05	m. (MSL.)
Left Bank Elevation	273.18	m. (MSL.) ,			
Right Bank Elevation	275.24	m. (MSL.) ,	Drainage Are	153	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.02	7.30	13.31	22.76	49.34	15.60	7.70	4.26	1.19	0.38	0.19	0.13		
2	1.02	4.90	10.86	18.60	52.76	15.00	7.30	4.26	1.19	0.29	0.19	0.13		
3	1.02	2.66	14.40	131.95	46.02	12.82	7.30	6.10	1.19	0.24	0.19	0.13		
4	1.02	2.66	42.70	51.88	37.10	11.84	6.10	5.30	1.19	0.24	0.19	0.13		
5	1.02	2.66	25.72	45.19	40.30	23.50	27.20	4.26	1.19	0.24	0.19	0.13		
6	1.02	2.66	28.70	43.53	44.36	18.60	11.84	3.62	1.19	0.23	0.19	0.12		
7	1.02	3.62	21.28	33.20	176.56	17.40	8.90	3.30	1.02	0.23	0.19	0.12		
8	1.02	3.62	16.20	39.50	79.90	14.40	8.90	3.30	1.02	0.23	0.19	0.12		
9	1.02	3.94	15.00	39.50	71.56	12.33	8.90	3.30	1.02	0.23	0.19	0.12		
10	1.02	3.30	10.86	31.70	49.34	11.35	7.30	3.30	1.02	0.23	0.19	0.12		
11	1.02	3.62	15.00	31.70	48.51	11.35	24.24	3.30	15.34	0.23	0.18	0.12		
12	1.02	3.62	81.80	27.95	73.40	10.86	9.39	3.30	15.34	0.21	0.18	1.10		
13	1.02	2.66	187.36	39.50	61.60	10.37	8.10	2.98	10.06	0.21	0.18	1.56		
14	4.90	2.34	77.08	55.40	53.64	9.88	7.70	2.98	5.10	0.20	0.18	1.56		
15	1.70	1.53	38.70	41.10	46.02	25.72	6.90	2.66	3.20	0.20	0.18	1.56		
16	1.36	1.53	36.30	33.95	37.90	15.00	7.30	2.34	3.20	0.20	0.18	1.47		
17	1.36	1.53	28.70	33.95	31.70	12.82	6.50	2.02	3.20	0.20	0.17	1.47		
18	1.36	2.98	27.20	64.30	46.02	11.35	6.10	2.02	4.30	0.20	0.17	1.47		
19	1.36	63.40	30.20	58.04	41.90	10.86	5.70	2.02	3.86	0.20	0.17	1.47		
20	4.90	7.70	63.40	78.95	31.70	10.37	5.30	2.02	3.86	0.20	0.17	1.29		
21	3.30	4.26	30.95	57.16	27.95	22.76	6.10	1.70	3.64	0.20	0.17	1.29		
22	2.34	6.90	29.45	54.52	24.24	12.33	6.90	1.53	3.42	0.20	0.17	1.15		
23	1.36	33.95	27.95	45.19	18.60	11.84	5.70	1.36	3.42	0.20	0.17	1.05		
24	1.36	16.80	24.24	51.00	17.40	10.86	5.70	1.36	3.42	0.20	0.16	1.05		
25	1.36	11.35	21.28	48.51	16.80	10.37	4.90	1.36	3.20	0.20	0.15	1.05		
26	1.36	12.33	17.40	36.30	16.20	10.37	4.26	1.36	2.76	0.20	0.14	1.05		
27	7.70	8.90	16.20	31.70	73.40	10.37	4.26	1.36	1.00	0.20	0.13	1.05		
28	2.66	8.10	17.40	30.20	30.20	8.50	4.26	1.36	0.47	0.20	0.13	1.05		
29	11.35	8.10	30.20	56.28	22.02	8.50	4.26	1.36	0.47	0.20		1.05		
30	10.37	6.90	19.80	57.16	18.60	8.50	4.26	1.36	0.47	0.20		1.00		
31		25.72		64.30	16.80		4.26		0.47	0.20		1.00		
Total	73.36	271.54	1019.64	1454.97	1401.84	395.82	243.53	80.75	101.42	6.79	4.88	26.11	5080.65	CMSDAY
Mean	2.45	8.76	33.99	46.93	45.22	13.19	7.86	2.69	3.27	0.22	0.17	0.84	13.92	CMS
Max	11.35	63.40	187.36	131.95	176.56	25.72	27.20	6.10	15.34	0.38	0.19	1.56	187.36	CMS
Min	1.02	1.53	10.86	18.60	16.20	8.50	4.26	1.36	0.47	0.20	0.13	0.12	0.12	CMS
Runoff	6.34	23.46	88.10	125.71	121.12	34.20	21.04	6.98	8.76	0.59	0.42	2.26	438.97	MCM

Momentary Peak 288.88 CMS. at 268.28 m. (MSL.) at 06.00 Hours , on Jun 13, 2008

Runoff Yield 90.98 Liters/Second/Square KM. Momentary Peak Yield 1888.10 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1994 to date
Rated by Float	-
Rated by Current Meter	1994 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

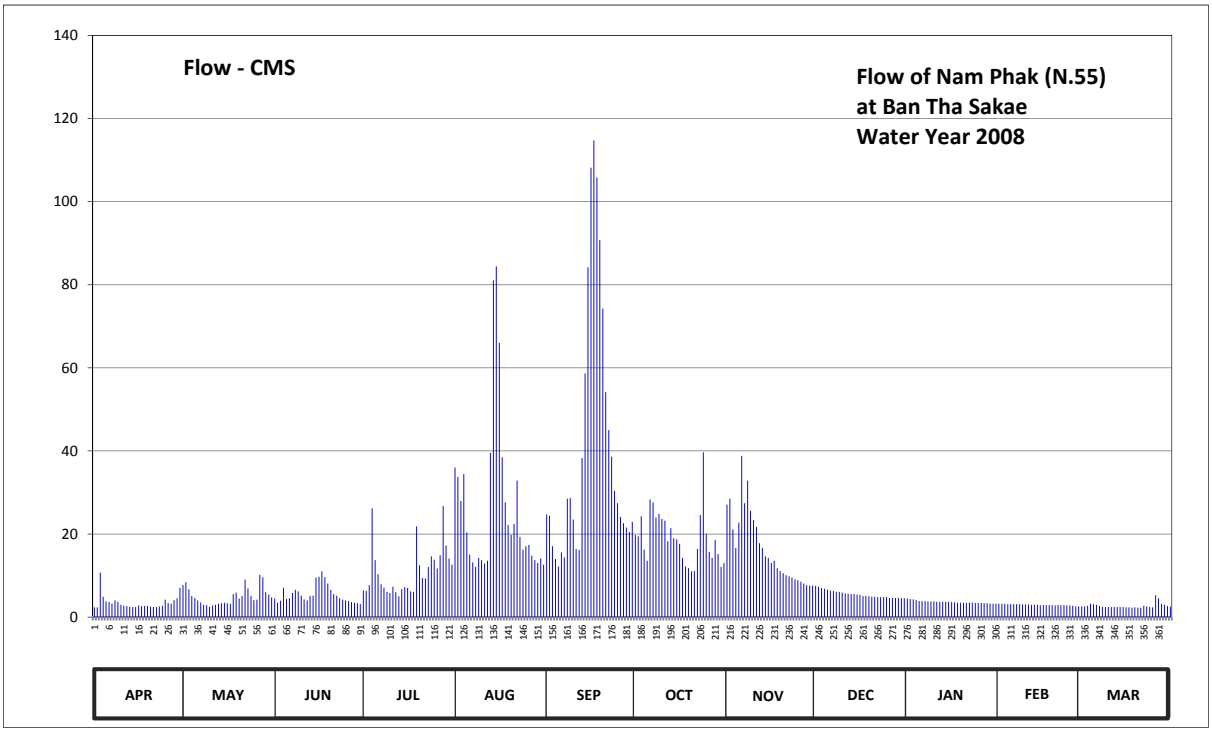
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.38	183.99	183.65	183.86	185.96	185.30	184.97	185.45	183.97	183.65	183.50	183.41	
2	183.38	184.06	183.53	183.85	185.83	185.28	184.95	185.53	183.95	183.64	183.50	183.41	
3	184.29	183.89	183.59	183.99	185.50	184.79	185.27	185.06	183.92	183.63	183.49	183.43	
4	183.70	183.72	183.93	185.40	185.87	184.56	184.73	184.76	183.90	183.61	183.48	183.50	
5	183.57	183.67	183.64	184.54	185.01	184.43	184.53	185.17	183.88	183.58	183.48	183.48	
6	183.55	183.60	183.66	184.25	184.64	184.68	185.52	186.12	183.86	183.58	183.48	183.46	
7	183.50	183.54	183.80	184.01	184.50	184.59	185.48	185.47	183.85	183.58	183.48	183.42	
8	183.60	183.46	183.88	183.93	184.42	185.53	185.25	185.78	183.83	183.57	183.48	183.40	
9	183.56	183.45	183.84	183.83	184.58	185.54	185.31	185.36	183.83	183.57	183.47	183.39	
10	183.46	183.40	183.73	183.80	184.54	185.22	185.23	185.21	183.81	183.57	183.47	183.39	
11	183.43	183.44	183.63	183.95	184.48	184.74	185.20	185.10	183.79	183.56	183.47	183.39	
12	183.42	183.46	183.60	183.82	184.53	184.72	184.87	184.84	183.78	183.56	183.46	183.39	
13	183.40	183.49	183.72	183.71	186.16	186.09	185.08	184.76	183.77	183.56	183.46	183.39	
14	183.39	183.51	183.73	183.89	188.04	187.10	184.92	184.61	183.77	183.56	183.46	183.39	
15	183.39	183.53	184.17	183.94	188.17	188.16	184.90	184.58	183.76	183.56	183.45	183.39	
16	183.44	183.51	184.19	183.92	187.43	188.96	184.83	184.49	183.75	183.55	183.45	183.38	
17	183.42	183.49	184.32	183.84	186.10	189.13	184.58	184.53	183.72	183.54	183.45	183.38	
18	183.42	183.77	184.18	183.83	185.48	188.89	184.43	184.40	183.72	183.53	183.45	183.37	
19	183.42	183.81	184.03	185.11	185.13	188.41	184.40	184.33	183.71	183.53	183.45	183.38	
20	183.40	183.65	183.88	184.45	184.97	187.77	184.32	184.28	183.70	183.53	183.44	183.37	
21	183.39	183.72	183.77	184.16	185.15	186.89	184.33	184.23	183.70	183.53	183.45	183.37	
22	183.39	184.12	183.73	184.15	185.78	186.44	184.74	184.20	183.69	183.53	183.45	183.43	
23	183.41	183.91	183.66	184.42	184.94	186.11	185.29	184.17	183.69	183.53	183.45	183.41	
24	183.43	183.72	183.62	184.61	184.73	185.64	186.17	184.13	183.69	183.52	183.44	183.39	
25	183.62	183.61	183.60	184.55	184.79	185.47	184.99	184.11	183.69	183.52	183.44	183.38	
26	183.52	183.62	183.58	184.39	184.81	185.26	184.69	184.07	183.67	183.52	183.43	183.74	
27	183.50	184.24	183.55	184.63	184.62	185.16	184.58	184.03	183.67	183.51	183.41	183.66	
28	183.61	184.18	183.53	185.43	184.54	185.09	184.89	183.99	183.67	183.51	183.41	183.49	
29	183.66	183.82	183.51	184.80	184.49	185.02	184.65	183.98	183.67	183.50		183.46	
30	183.92	183.76	183.48	184.57	184.57	185.18	184.42	183.98	183.66	183.50		183.42	
31		183.68		184.46	184.46		184.49		183.66	183.50		183.40	
Mean	183.52	183.70	183.76	184.26	185.30	186.01	184.90	184.69	183.77	183.55	183.46	183.43	
Max	184.29	184.24	184.32	185.43	188.17	189.13	186.17	186.12	183.97	183.65	183.50	183.74	189.13
Min	183.38	183.40	183.48	183.71	184.42	184.43	184.32	183.98	183.66	183.50	183.41	183.37	183.37

Annual Max Momentary Gage Height 189.33 m. (MSL.) , at 12.00 Hours , on Sep 17, 2008

Zero Gage at Bottom Elevation 182.83 m. (MSL.) , River Bed 182.92 m. (MSL.)

Left Bank Elevation 191.23 m. (MSL.) ,

Right Bank Elevation 191.18 m. (MSL.) , Drainage Are 971 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.35	7.70	4.45	6.40	36.00	24.70	19.75	27.08	7.50	4.45	3.25	2.58		
2	2.35	8.40	3.48	6.30	33.73	24.40	19.45	28.48	7.30	4.36	3.25	2.58		
3	10.70	6.70	3.93	7.70	27.95	17.07	24.25	21.10	7.00	4.27	3.18	2.73		
4	4.90	5.08	7.10	26.20	34.43	13.96	16.26	16.66	6.80	4.09	3.10	3.25		
5	3.78	4.63	4.36	13.69	20.35	12.21	13.56	22.75	6.60	3.85	3.10	3.10		
6	3.63	4.00	4.54	10.30	15.04	15.58	28.30	38.80	6.40	3.85	3.10	2.95		
7	3.25	3.55	5.80	7.90	13.15	14.37	27.60	27.43	6.30	3.85	3.10	2.65		
8	4.00	2.95	6.60	7.10	12.07	28.48	23.95	32.85	6.10	3.78	3.10	2.50		
9	3.70	2.88	6.20	6.10	14.23	28.65	24.85	25.60	6.10	3.78	3.03	2.43		
10	2.95	2.50	5.17	5.80	13.69	23.50	23.65	23.35	5.90	3.78	3.03	2.43		
11	2.73	2.80	4.27	7.30	12.88	16.39	23.20	21.70	5.71	3.70	3.03	2.43		
12	2.65	2.95	4.00	6.00	13.56	16.12	18.25	17.80	5.62	3.70	2.95	2.43		
13	2.50	3.18	5.08	4.99	39.50	38.28	21.40	16.66	5.53	3.70	2.95	2.43		
14	2.43	3.33	5.17	6.70	81.04	58.65	19.00	14.64	5.53	3.70	2.95	2.43		
15	2.43	3.48	9.50	7.20	84.42	84.16	18.70	14.23	5.44	3.70	2.88	2.43		
16	2.80	3.33	9.70	7.00	66.01	108.16	17.65	13.02	5.35	3.63	2.88	2.35		
17	2.65	3.18	11.00	6.20	38.45	114.70	14.23	13.56	5.08	3.55	2.88	2.35		
18	2.65	5.53	9.60	6.10	27.60	105.82	12.21	11.80	5.08	3.48	2.88	2.28		
19	2.65	5.90	8.10	21.85	22.15	90.71	11.80	11.10	4.99	3.48	2.88	2.35		
20	2.50	4.45	6.60	12.48	19.75	74.25	11.00	10.60	4.90	3.48	2.80	2.28		
21	2.43	5.08	5.53	9.40	22.45	54.14	11.10	10.10	4.90	3.48	2.88	2.28		
22	2.43	9.00	5.17	9.30	32.85	45.00	16.39	9.80	4.81	3.48	2.88	2.73		
23	2.58	6.90	4.54	12.07	19.30	38.63	24.55	9.50	4.81	3.48	2.88	2.58		
24	2.73	5.08	4.18	14.64	16.26	30.40	39.68	9.10	4.81	3.40	2.80	2.43		
25	4.18	4.09	4.00	13.83	17.07	27.43	20.05	8.90	4.81	3.40	2.80	2.35		
26	3.40	4.18	3.85	11.70	17.35	24.10	15.72	8.50	4.63	3.40	2.73	5.26		
27	3.25	10.20	3.63	14.91	14.77	22.60	14.23	8.10	4.63	3.33	2.58	4.54		
28	4.09	9.60	3.48	26.73	13.69	21.55	18.55	7.70	4.63	3.33	2.58	3.18		
29	4.54	6.00	3.33	17.20	13.02	20.50	15.18	7.60	4.63	3.25		2.95		
30	7.00	5.44	3.10	14.10	14.10	22.90	12.07	7.60	4.54	3.25		2.65		
31		4.72		12.61	12.61		13.02		4.54	3.25		2.50		
Total	104.23	156.81	165.46	339.80	819.47	1217.41	589.60	496.11	170.97	113.23	82.45	84.41	4339.95	CMSDAY
Mean	3.47	5.06	5.52	10.96	26.43	40.58	19.02	16.54	5.52	3.65	2.94	2.72	11.89	CMS
Max	10.70	10.20	11.00	26.73	84.42	114.70	39.68	38.80	7.50	4.45	3.25	5.26	114.70	CMS
Min	2.35	2.50	3.10	4.99	12.07	12.21	11.00	7.60	4.54	3.25	2.58	2.28	2.28	CMS
Runoff	9.01	13.55	14.30	29.36	70.80	105.18	50.94	42.86	14.77	9.78	7.12	7.29	374.97	MCM

Momentary Peak 123.35 CMS. at 189.33 m. (MSL.) at 12.00 Hours , on Sep 17, 2008

Runoff Yield 12.25 Liters/Second/Square KM. Momentary Peak Yield 127.03 Liters/Second/Square KM.

WATER YEAR : 2008

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

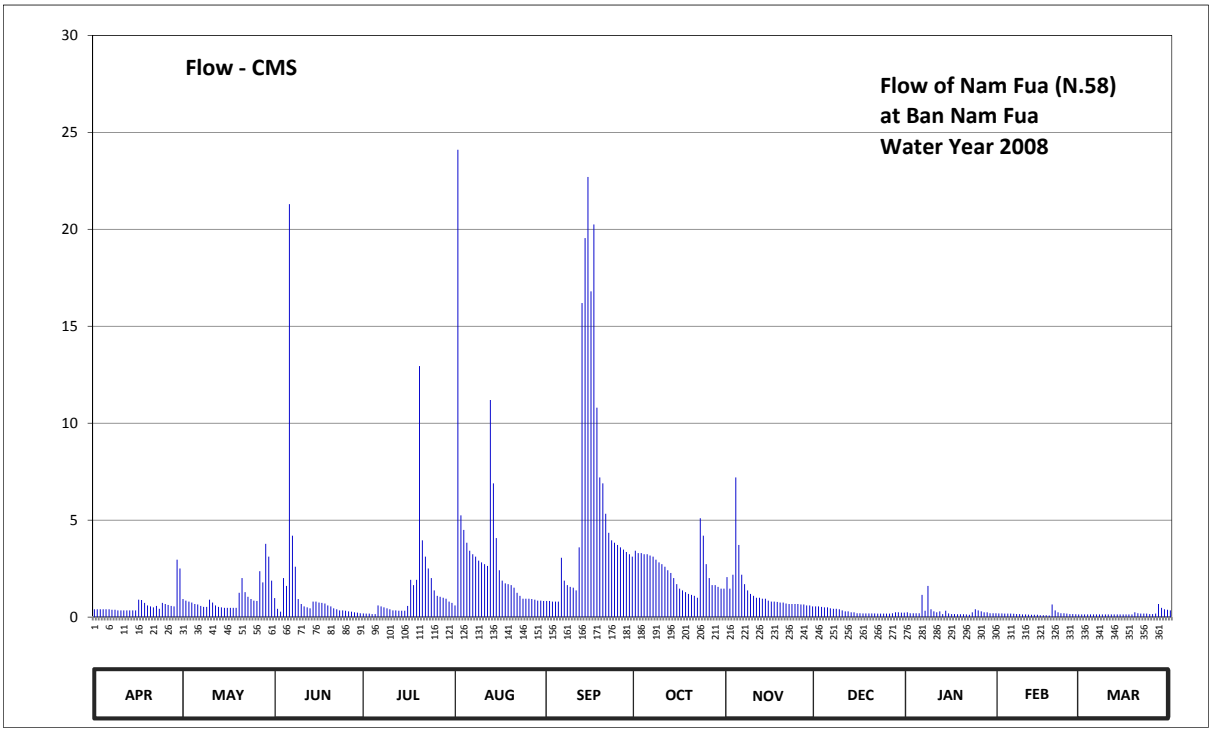
Ban Nam Fua **Amphoe** Nakhon Thai **Changwat** Phitsanulok

Drainge 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 mean of 5 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	209.08	209.29	209.31	208.99	209.16	209.25	209.87	209.59	209.14	209.02	208.99	208.94	
2	209.08	209.26	209.09	208.98	211.68	209.25	209.85	209.46	209.14	209.00	208.99	208.94	
3	209.08	209.24	209.03	208.98	210.14	209.24	209.85	209.62	209.13	209.00	208.98	208.94	
4	209.08	209.22	209.58	208.96	210.04	209.24	209.84	210.40	209.12	209.00	208.98	208.94	
5	209.08	209.19	209.49	208.96	209.94	209.24	209.84	209.92	209.12	209.00	208.98	208.94	
6	209.08	209.18	211.52	209.16	209.87	209.81	209.83	209.62	209.10	209.38	208.97	208.94	
7	209.07	209.15	210.00	209.14	209.84	209.55	209.82	209.51	209.09	209.05	208.96	208.94	
8	209.07	209.13	209.71	209.12	209.82	209.50	209.79	209.44	209.09	209.49	208.96	208.94	
9	209.06	209.13	209.29	209.10	209.78	209.48	209.76	209.40	209.08	209.08	208.94	208.94	
10	209.06	209.28	209.19	209.08	209.76	209.47	209.74	209.36	209.06	209.04	208.94	208.94	
11	209.06	209.22	209.14	209.06	209.74	209.44	209.71	209.32	209.04	209.02	208.93	208.94	
12	209.06	209.16	209.12	209.06	209.72	209.90	209.67	209.32	209.04	209.04	208.92	208.94	
13	209.06	209.13	209.10	209.05	210.80	211.20	209.64	209.30	209.02	208.96	208.92	208.94	
14	209.06	209.12	209.24	209.05	210.36	211.42	209.58	209.30	209.02	209.05	208.92	208.94	
15	209.06	209.11	209.24	209.05	209.98	211.60	209.51	209.26	209.00	208.99	208.90	208.94	
16	209.28	209.11	209.22	209.15	209.67	211.24	209.46	209.24	209.00	208.96	208.90	208.94	
17	209.27	209.11	209.21	209.56	209.55	211.46	209.44	209.24	208.99	208.96	208.90	208.94	
18	209.21	209.11	209.20	209.50	209.52	210.76	209.42	209.23	208.99	208.95	208.88	208.94	
19	209.16	209.11	209.16	209.56	209.51	210.40	209.40	209.22	208.99	208.95	209.18	209.02	
20	209.14	209.41	209.14	210.94	209.50	210.36	209.38	209.22	208.99	208.95	209.06	209.00	
21	209.12	209.58	209.10	209.96	209.47	210.15	209.36	209.20	208.99	208.94	209.02	208.98	
22	209.15	209.42	209.08	209.82	209.41	210.02	209.32	209.19	208.98	208.92	209.00	208.98	
23	209.09	209.34	209.06	209.69	209.36	209.96	210.12	209.19	208.98	209.02	209.00	208.98	
24	209.21	209.29	209.06	209.58	209.30	209.94	210.00	209.19	208.98	209.08	208.98	208.96	
25	209.19	209.26	209.05	209.44	209.30	209.92	209.74	209.19	208.98	209.06	208.96	208.96	
26	209.17	209.25	209.04	209.36	209.30	209.90	209.58	209.18	208.98	209.04	208.96	208.98	
27	209.15	209.66	209.03	209.34	209.29	209.88	209.50	209.18	209.00	209.02	208.95	209.19	
28	209.14	209.53	209.02	209.32	209.28	209.86	209.50	209.16	209.02	209.02	208.94	209.11	
29	209.79	209.93	209.01	209.30	209.26	209.84	209.48	209.16	209.02	209.00		209.08	
30	209.69	209.82	209.00	209.24	209.26	209.82	209.46	209.14	209.01	209.00		209.07	
31		209.55		209.21	209.25		209.46		209.01	209.00		209.06	
Mean	209.16	209.30	209.28	209.31	209.71	210.04	209.64	209.36	209.04	209.03	208.96	208.98	
Max	209.79	209.93	211.52	210.94	211.68	211.60	210.12	210.40	209.14	209.49	209.18	209.19	211.68
Min	209.06	209.11	209.00	208.96	209.16	209.24	209.32	209.14	208.98	208.92	208.88	208.94	208.88

Annual Max Momentary Gage Height	213.36	m. (MSL.) ,	at 12.00 Hours , on Aug 2, 2008		
Zero Gage at Bottom Elevation	208.36	m. (MSL.) ,	River Bed	208.74	m. (MSL.)
Left Bank Elevation	214.93	m. (MSL.) ,			
Right Bank Elevation	214.90	m. (MSL.) ,	Drainage Are	317	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	0.93	0.98	0.19	0.60	0.83	3.42	2.06	0.55	0.25	0.19	0.14		
2	0.40	0.85	0.43	0.18	24.10	0.83	3.30	1.47	0.55	0.20	0.19	0.14		
3	0.40	0.80	0.28	0.18	5.25	0.80	3.30	2.19	0.53	0.20	0.18	0.14		
4	0.40	0.75	2.01	0.16	4.50	0.80	3.24	7.20	0.50	0.20	0.18	0.14		
5	0.40	0.68	1.61	0.16	3.84	0.80	3.24	3.72	0.50	0.20	0.18	0.14		
6	0.40	0.65	21.30	0.60	3.42	3.06	3.18	2.19	0.45	1.15	0.17	0.14		
7	0.38	0.58	4.20	0.55	3.24	1.88	3.12	1.70	0.43	0.33	0.16	0.14		
8	0.38	0.53	2.60	0.50	3.12	1.65	2.96	1.38	0.43	1.61	0.16	0.14		
9	0.35	0.53	0.93	0.45	2.91	1.56	2.82	1.20	0.40	0.40	0.14	0.14		
10	0.35	0.90	0.68	0.40	2.82	1.52	2.73	1.10	0.35	0.30	0.14	0.14		
11	0.35	0.75	0.55	0.35	2.73	1.38	2.60	1.00	0.30	0.25	0.13	0.14		
12	0.35	0.60	0.50	0.35	2.64	3.60	2.42	1.00	0.30	0.30	0.12	0.14		
13	0.35	0.53	0.45	0.33	11.20	16.20	2.28	0.95	0.25	0.16	0.12	0.14		
14	0.35	0.50	0.80	0.33	6.90	19.55	2.01	0.95	0.25	0.33	0.12	0.14		
15	0.35	0.48	0.80	0.33	4.08	22.70	1.70	0.85	0.20	0.19	0.10	0.14		
16	0.90	0.48	0.75	0.58	2.42	16.80	1.47	0.80	0.20	0.16	0.10	0.14		
17	0.88	0.48	0.73	1.92	1.88	20.25	1.38	0.80	0.19	0.16	0.10	0.14		
18	0.73	0.48	0.70	1.65	1.74	10.80	1.29	0.78	0.19	0.15	0.08	0.14		
19	0.60	0.48	0.60	1.92	1.70	7.20	1.20	0.75	0.19	0.15	0.65	0.25		
20	0.55	1.25	0.55	12.95	1.65	6.90	1.15	0.75	0.19	0.15	0.35	0.20		
21	0.50	2.01	0.45	3.96	1.52	5.33	1.10	0.70	0.19	0.14	0.25	0.18		
22	0.58	1.29	0.40	3.12	1.25	4.35	1.00	0.68	0.18	0.12	0.20	0.18		
23	0.43	1.05	0.35	2.51	1.10	3.96	5.10	0.68	0.18	0.25	0.20	0.18		
24	0.73	0.93	0.35	2.01	0.95	3.84	4.20	0.68	0.18	0.40	0.18	0.16		
25	0.68	0.85	0.33	1.38	0.95	3.72	2.73	0.68	0.18	0.35	0.16	0.16		
26	0.63	0.83	0.30	1.10	0.95	3.60	2.01	0.65	0.18	0.30	0.16	0.18		
27	0.58	2.37	0.28	1.05	0.93	3.48	1.65	0.65	0.20	0.25	0.15	0.68		
28	0.55	1.79	0.25	1.00	0.90	3.36	1.65	0.60	0.25	0.25	0.14	0.48		
29	2.96	3.78	0.23	0.95	0.85	3.24	1.56	0.60	0.25	0.20		0.40		
30	2.51	3.12	0.20	0.80	0.85	3.12	1.47	0.55	0.23	0.20		0.38		
31		1.88		0.73	0.83		1.47		0.23	0.20		0.35		
Total	19.42	33.13	44.59	42.69	101.82	177.11	72.75	39.31	9.20	9.50	5.00	6.30	560.82	CMSDAY
Mean	0.65	1.07	1.49	1.38	3.28	5.90	2.35	1.31	0.30	0.31	0.18	0.20	1.54	CMS
Max	2.96	3.78	21.30	12.95	24.10	22.70	5.10	7.20	0.55	1.61	0.65	0.68	24.10	CMS
Min	0.35	0.48	0.20	0.16	0.60	0.80	1.00	0.55	0.18	0.12	0.08	0.14	0.08	CMS
Runoff	1.68	2.86	3.85	3.69	8.80	15.30	6.29	3.40	0.79	0.82	0.43	0.54	48.45	MCM

Momentary Peak 61.86 CMS. at 213.36 m. (MSL.) at 12.00 Hours , on Aug 2, 2008

Runoff Yield 4.85 Liters/Second/Square KM. Momentary Peak Yield 195.14 Liters/Second/Square KM.

WATER YEAR : 2008

NAN RIVER BASIN

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

Lat 17 - 01 - 49 N Long 100 - 50 - 35 E

Location : on left bank at Ban Na Pho Na Chan.

	Ban Na Pho Na Chan	**Amphoe** Nakhon Thai	**Changwat** Phitsanulok
Drainge 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	13-time daily readings at 06.00, 09.00, 12.00, 15.00, and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 13 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Float	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +205.540 m.(MSL.) and is including overbank flow.		
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

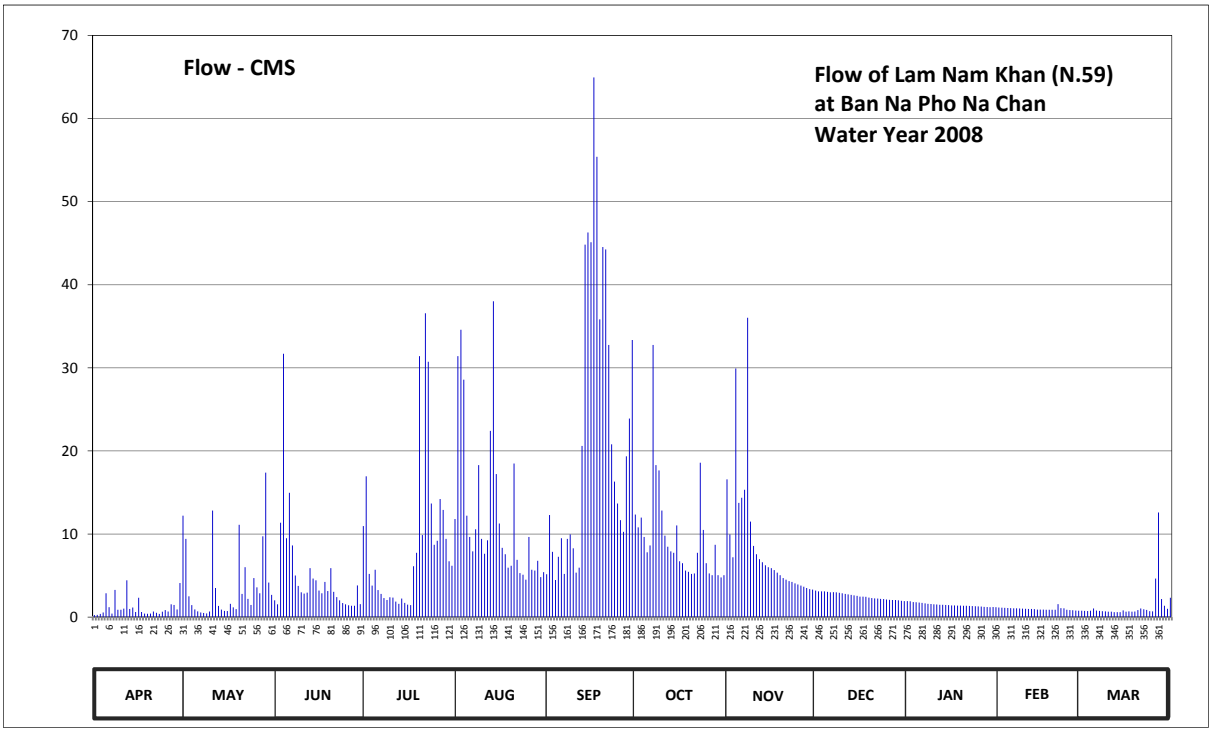
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	199.74	202.69	200.74	202.53	202.64	201.63	202.71	203.22	201.13	200.71	200.38	200.18	
2	199.77	202.33	200.57	203.26	204.60	202.70	202.51	202.40	201.10	200.70	200.37	200.16	
3	199.89	200.90	202.58	201.64	204.81	202.11	202.66	202.00	201.10	200.67	200.36	200.15	
4	200.03	200.52	204.62	201.31	204.39	201.48	202.36	204.49	201.10	200.66	200.35	200.18	
5	201.02	200.26	202.34	201.74	202.69	202.01	202.10	202.89	201.08	200.65	200.34	200.32	
6	200.40	200.13	203.04	201.15	202.36	202.34	202.23	202.97	201.06	200.64	200.33	200.19	
7	199.93	200.04	202.23	201.00	202.12	201.64	204.69	203.08	201.07	200.62	200.33	200.16	
8	201.16	199.99	201.60	200.83	202.48	202.33	203.41	204.89	201.06	200.60	200.32	200.14	
9	200.24	199.95	201.30	200.75	203.41	202.40	203.34	202.60	201.04	200.59	200.31	200.13	
10	200.24	200.12	201.06	200.86	202.33	202.18	202.77	202.22	201.02	200.57	200.30	200.10	
11	200.31	202.77	201.01	200.85	202.07	201.67	202.38	202.06	201.00	200.56	200.29	200.10	
12	201.47	201.23	201.05	200.69	202.31	201.79	202.21	201.96	200.98	200.54	200.29	200.06	
13	200.29	200.47	201.78	200.60	203.83	203.65	202.12	201.90	200.96	200.54	200.28	200.06	
14	200.38	200.25	201.52	200.81	205.00	205.27	202.09	201.84	200.94	200.53	200.25	200.06	
15	200.08	200.16	201.47	200.64	203.29	205.32	202.54	201.80	200.92	200.52	200.25	200.20	
16	200.84	200.15	201.13	200.55	202.57	205.28	201.92	201.78	200.89	200.50	200.25	200.10	
17	200.08	200.60	201.02	200.52	202.19	205.83	201.88	201.73	200.89	200.50	200.24	200.13	
18	199.93	200.39	201.43	201.82	202.06	205.60	201.72	201.67	200.88	200.49	200.24	200.10	
19	199.90	200.28	201.11	202.09	201.79	204.88	201.69	201.61	200.85	200.49	200.24	200.12	
20	199.93	202.55	201.78	204.60	201.83	205.26	201.64	201.53	200.83	200.48	200.24	200.22	
21	200.12	201.00	201.08	202.39	203.43	205.25	201.65	201.49	200.82	200.48	200.58	200.32	
22	200.01	201.80	200.87	204.92	201.95	204.69	202.09	201.45	200.81	200.47	200.34	200.27	
23	199.89	200.80	200.74	204.55	201.66	203.67	203.44	201.43	200.80	200.46	200.33	200.23	
24	200.10	200.53	200.63	202.88	201.62	203.19	202.47	201.39	200.79	200.45	200.24	200.14	
25	200.22	201.53	200.57	202.24	201.49	202.88	201.88	201.35	200.77	200.44	200.22	200.13	
26	200.12	201.25	200.51	202.30	202.36	202.62	201.65	201.31	200.76	200.43	200.21	201.52	
27	200.57	201.02	200.48	202.95	201.74	202.44	201.61	201.27	200.75	200.42	200.19	202.74	
28	200.53	202.37	200.48	202.78	201.72	203.52	202.24	201.23	200.75	200.41	200.18	200.79	
29	200.26	203.31	201.32	202.33	201.93	203.97	201.61	201.19	200.74	200.40		200.48	
30	201.40	201.41	200.58	201.92	201.56	204.73	201.55	201.17	200.72	200.41		200.30	
31		200.96		201.83	201.68		201.61		200.71	200.40		200.84	
Mean	200.30	201.02	201.35	201.91	202.58	203.41	202.28	202.06	200.91	200.53	200.29	200.34	
Max	201.47	203.31	204.62	204.92	205.00	205.83	204.69	204.89	201.13	200.71	200.58	202.74	205.83
Min	199.74	199.95	200.48	200.52	201.49	201.48	201.55	201.17	200.71	200.40	200.18	200.06	199.74

Annual Max Momentary Gage Height 206.56 m. (MSL.) , at 18.00 Hours , on Sep 17, 2008

Zero Gage at Bottom Elevation 197.68 m. (MSL.) , River Bed 197.68 m. (MSL.)

Left Bank Elevation 205.53 m. (MSL.) ,

Right Bank Elevation 205.55 m. (MSL.) , Drainage Are 415 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.24	12.20	2.02	10.96	11.81	5.15	12.35	16.58	3.19	1.93	1.16	0.77		
2	0.27	9.41	1.54	16.94	31.40	12.28	10.80	9.95	3.10	1.90	1.14	0.74		
3	0.39	2.50	11.35	5.20	34.58	7.86	11.97	7.20	3.10	1.81	1.12	0.73		
4	0.55	1.44	31.70	3.79	28.58	4.46	9.64	29.92	3.10	1.78	1.10	0.77		
5	2.86	0.92	9.49	5.70	12.20	7.26	7.80	13.75	3.04	1.75	1.08	1.04		
6	1.20	0.70	14.96	3.25	9.64	9.49	8.63	14.37	2.98	1.72	1.06	0.79		
7	0.43	0.56	8.63	2.80	7.92	5.20	32.75	15.32	3.01	1.66	1.06	0.74		
8	3.28	0.49	5.00	2.29	10.57	9.41	18.30	36.02	2.98	1.60	1.04	0.71		
9	0.88	0.45	3.75	2.05	18.30	9.95	17.66	11.50	2.92	1.58	1.02	0.70		
10	0.88	0.68	2.98	2.38	9.41	8.28	12.82	8.56	2.86	1.54	1.00	0.65		
11	1.02	12.82	2.83	2.35	7.62	5.35	9.80	7.56	2.80	1.52	0.98	0.65		
12	4.42	3.51	2.95	1.87	9.25	5.95	8.48	6.96	2.74	1.48	0.98	0.59		
13	0.98	1.34	5.90	1.60	22.42	20.60	7.92	6.60	2.68	1.48	0.96	0.59		
14	1.16	0.90	4.64	2.23	38.00	44.83	7.74	6.24	2.62	1.46	0.90	0.59		
15	0.62	0.74	4.42	1.72	17.21	46.28	11.04	6.00	2.56	1.44	0.90	0.80		
16	2.32	0.73	3.19	1.50	11.27	45.12	6.72	5.90	2.47	1.40	0.90	0.65		
17	0.62	1.60	2.86	1.44	8.34	64.94	6.48	5.65	2.47	1.40	0.88	0.70		
18	0.43	1.18	4.24	6.12	7.56	55.40	5.60	5.35	2.44	1.38	0.88	0.65		
19	0.40	0.96	3.13	7.74	5.95	35.84	5.45	5.05	2.35	1.38	0.88	0.68		
20	0.43	11.11	5.90	31.40	6.18	44.54	5.20	4.69	2.29	1.36	0.88	0.84		
21	0.68	2.80	3.04	9.87	18.49	44.25	5.25	4.51	2.26	1.36	1.56	1.04		
22	0.52	6.00	2.41	36.56	6.90	32.75	7.74	4.33	2.23	1.34	1.08	0.94		
23	0.39	2.20	2.02	30.73	5.30	20.80	18.58	4.24	2.20	1.32	1.06	0.86		
24	0.65	1.46	1.69	13.67	5.10	16.31	10.49	4.07	2.17	1.30	0.88	0.71		
25	0.84	4.69	1.54	8.71	4.51	13.67	6.48	3.93	2.11	1.28	0.84	0.70		
26	0.68	3.58	1.42	9.18	9.64	11.66	5.25	3.79	2.08	1.26	0.82	4.64		
27	1.54	2.86	1.36	14.21	5.70	10.26	5.05	3.65	2.05	1.24	0.79	12.59		
28	1.46	9.72	1.36	12.90	5.60	19.34	8.71	3.51	2.05	1.22	0.77	2.17		
29	0.92	17.39	3.82	9.41	6.78	23.89	5.05	3.37	2.02	1.20		1.36		
30	4.10	4.15	1.56	6.72	4.82	33.35	4.78	3.31	1.96	1.22		1.00		
31		2.68		6.18	5.40		5.05		1.93	1.20		2.32		
Total	35.16	121.77	151.70	271.47	386.45	674.47	299.58	261.88	78.76	45.51	27.72	42.71	2397.18	CMSDAY
Mean	1.17	3.93	5.06	8.76	12.47	22.48	9.66	8.73	2.54	1.47	0.99	1.38	6.57	CMS
Max	4.42	17.39	31.70	36.56	38.00	64.94	32.75	36.02	3.19	1.93	1.56	12.59	64.94	CMS
Min	0.24	0.45	1.36	1.44	4.51	4.46	4.78	3.31	1.93	1.20	0.77	0.59	0.24	CMS
Runoff	3.04	10.52	13.11	23.46	33.39	58.27	25.88	22.63	6.80	3.93	2.40	3.69	207.12	MCM

Momentary Peak 151.16 CMS. at 206.56 m. (MSL.) at 18.00 Hours , on Sep 17, 2008

Runoff Yield 15.83 Liters/Second/Square KM. Momentary Peak Yield 364.24 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1986 to date
Rating Operation	
Period of Rating	1986 to date
Rated by Float	-
Rated by Current Meter	1986 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by Sirikit Dam reservior. Stage-discharge relation defined by 17 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

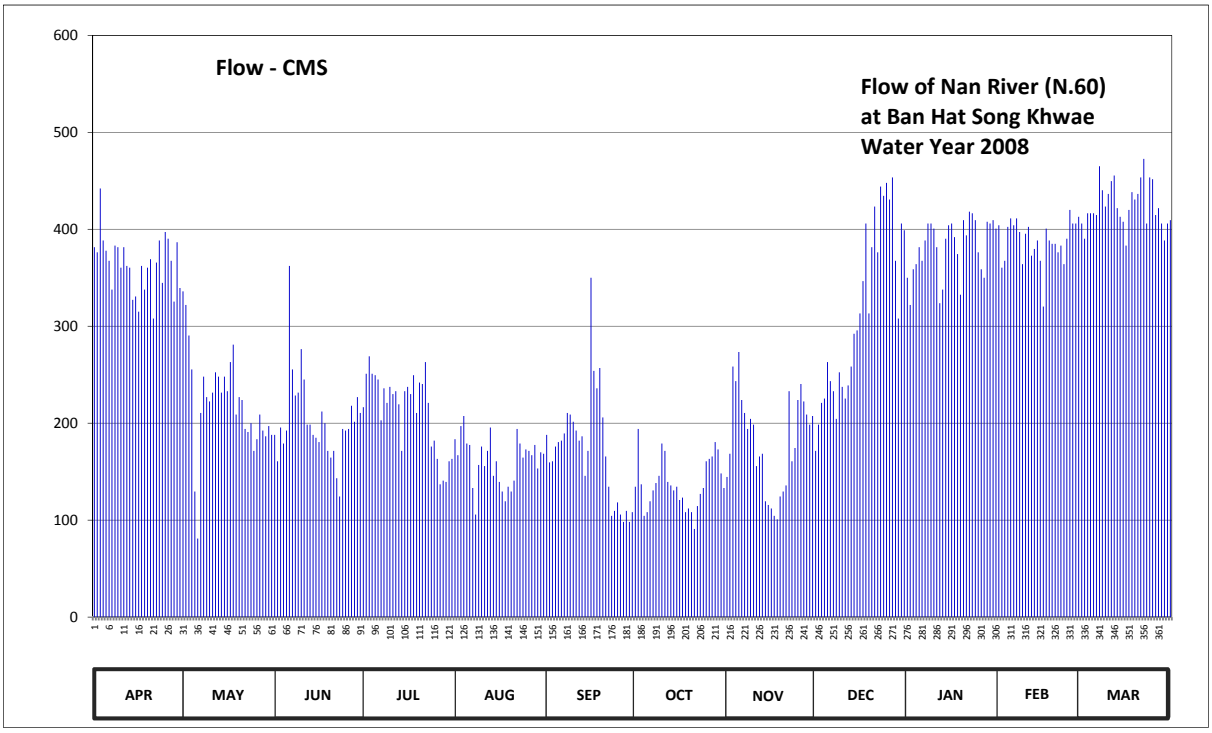
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	51.34	51.08	50.14	50.33	50.11	50.14	49.74	49.82	50.03	51.16	51.47	51.48	
2	51.31	51.00	49.95	50.56	50.00	49.94	50.18	50.01	50.21	51.00	51.22	51.39	
3	51.68	50.82	50.19	50.68	50.20	49.95	49.76	50.61	50.36	51.21	51.26	51.54	
4	51.38	50.59	50.08	50.56	50.27	50.06	49.50	50.51	50.39	51.24	51.46	51.54	
5	51.32	49.70	50.17	50.55	50.08	50.09	49.53	50.71	50.64	51.34	51.51	51.54	
6	51.26	49.30	51.23	50.52	50.07	50.10	49.62	50.38	50.51	51.26	51.47	51.53	
7	51.09	50.29	50.59	50.24	49.73	50.15	49.71	50.29	50.44	51.38	51.51	51.80	
8	51.35	50.54	50.41	50.46	49.51	50.29	49.77	50.18	50.25	51.48	51.43	51.67	
9	51.34	50.40	50.43	50.36	49.92	50.28	49.83	50.25	50.57	51.48	51.24	51.58	
10	51.22	50.37	50.73	50.47	50.06	50.23	50.08	50.21	50.47	51.45	51.42	51.65	
11	51.34	50.43	50.52	50.42	49.91	50.17	50.03	49.91	50.39	51.34	51.46	51.72	
12	51.23	50.57	50.21	50.44	50.03	50.10	49.78	49.99	50.48	51.01	51.29	51.75	
13	51.22	50.54	50.21	50.35	50.19	50.13	49.75	50.01	50.61	51.09	51.33	51.57	
14	51.03	50.43	50.14	50.03	49.83	49.83	49.71	49.62	50.83	51.39	51.38	51.52	
15	51.05	50.54	50.12	50.44	49.95	50.03	49.74	49.59	50.85	51.47	51.26	51.49	
16	50.96	50.44	50.09	50.47	49.78	51.16	49.63	49.56	50.95	51.48	50.99	51.35	
17	51.23	50.64	50.30	50.42	49.70	50.58	49.65	49.50	51.14	51.40	51.45	51.56	
18	51.09	50.76	50.22	50.55	49.62	50.46	49.53	49.47	51.48	51.30	51.38	51.66	
19	51.22	50.28	50.03	50.29	49.74	50.60	49.56	49.66	50.95	51.06	51.36	51.62	
20	51.27	50.40	49.98	50.50	49.70	50.26	49.53	49.70	51.34	51.50	51.36	51.65	
21	50.92	50.38	50.03	50.49	49.79	49.99	49.39	49.75	51.58	51.41	51.31	51.74	
22	51.25	50.18	49.81	50.64	50.18	49.74	49.58	50.44	51.31	51.55	51.35	51.84	
23	51.38	50.16	49.66	50.36	50.08	49.50	49.68	49.95	51.69	51.54	51.24	51.48	
24	51.13	50.22	50.18	50.06	49.98	49.54	49.73	50.05	51.64	51.50	51.39	51.74	
25	51.43	50.03	50.17	50.10	50.04	49.61	49.95	50.38	51.71	51.31	51.56	51.73	
26	51.39	50.11	50.18	49.97	50.03	49.51	49.97	50.49	51.62	51.21	51.48	51.53	
27	51.26	50.28	50.34	49.76	50.00	49.45	49.99	50.37	51.74	51.16	51.48	51.57	
28	51.02	50.17	50.23	49.79	50.07	49.54	50.09	50.28	51.26	51.49	51.52	51.48	
29	51.37	50.13	50.40	49.78	49.89	49.45	50.04	50.21	50.92	51.48		51.38	
30	51.10	50.20	50.29	49.95	50.02	49.53	49.85	50.27	51.48	51.50		51.48	
31		50.14		49.97	50.01		49.73		51.44	51.45		51.50	
Mean	51.24	50.36	50.23	50.31	49.95	50.01	49.76	50.07	50.94	51.34	51.38	51.58	
Max	51.68	51.08	51.23	50.68	50.27	51.16	50.18	50.71	51.74	51.55	51.56	51.84	51.84
Min	50.92	49.30	49.66	49.76	49.51	49.45	49.39	49.47	50.03	51.00	50.99	51.35	49.30

Annual Max Momentary Gage Height 52.05 m. (MSL.) , at 09.00 Hours , on Mar 22, 2008

Zero Gage at Bottom Elevation 48.50 m. (MSL.) , River Bed 45.16 m. (MSL.)

Left Bank Elevation 58.81 m. (MSL.) ,

Right Bank Elevation 59.27 m. (MSL.) , Drainage Are 18,447 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	381.50	336.00	188.00	216.50	183.50	188.00	134.50	144.50	171.50	350.00	404.25	406.00		
2	376.25	322.00	160.75	251.00	167.00	159.50	194.00	168.50	198.50	322.00	360.50	390.25		
3	442.20	290.50	195.50	269.00	197.00	160.75	137.00	258.50	221.00	358.75	367.50	416.50		
4	388.50	255.50	179.00	251.00	207.50	176.00	104.50	243.50	225.50	364.00	402.50	416.50		
5	378.00	129.50	192.50	249.50	179.00	180.50	108.25	273.50	263.00	381.50	411.25	416.50		
6	367.50	81.00	362.25	245.00	177.50	182.00	119.50	224.00	243.50	367.50	404.25	414.75		
7	337.75	210.50	255.50	203.00	133.25	189.50	130.75	210.50	233.00	388.50	411.25	465.00		
8	383.25	248.00	228.50	236.00	105.75	210.50	138.25	194.00	204.50	406.00	397.25	440.30		
9	381.50	227.00	231.50	221.00	157.00	209.00	145.75	204.50	252.50	406.00	364.00	423.50		
10	360.50	222.50	276.50	237.50	176.00	201.50	179.00	198.50	237.50	400.75	395.50	436.50		
11	381.50	231.50	245.00	230.00	155.75	192.50	171.50	155.75	225.50	381.50	402.50	449.80		
12	362.25	252.50	198.50	233.00	171.50	182.00	139.50	165.75	239.00	323.75	372.75	455.50		
13	360.50	248.00	198.50	219.50	195.50	186.50	135.75	168.50	258.50	337.75	379.75	421.75		
14	327.25	231.50	188.00	171.50	145.75	145.75	130.75	119.50	292.25	390.25	388.50	413.00		
15	330.75	248.00	185.00	233.00	160.75	171.50	134.50	115.75	295.75	404.25	367.50	407.75		
16	315.00	233.00	180.50	237.50	139.50	350.00	120.75	112.00	313.25	406.00	320.25	383.25		
17	362.25	263.00	212.00	230.00	129.50	254.00	123.25	104.50	346.50	392.00	400.75	420.00		
18	337.75	281.00	200.00	249.50	119.50	236.00	108.25	100.75	406.00	374.50	388.50	438.40		
19	360.50	209.00	171.50	210.50	134.50	257.00	112.00	124.50	313.25	332.50	385.00	430.80		
20	369.25	227.00	164.50	242.00	129.50	206.00	108.25	129.50	381.50	409.50	385.00	436.50		
21	308.00	224.00	171.50	240.50	140.75	165.75	90.90	135.75	423.50	393.75	376.25	453.60		
22	365.75	194.00	143.25	263.00	194.00	134.50	114.50	233.00	376.25	418.25	383.25	472.60		
23	388.50	191.00	124.50	221.00	179.00	104.50	127.00	160.75	444.10	416.50	364.00	406.00		
24	344.75	200.00	194.00	176.00	164.50	109.50	133.25	174.50	434.60	409.50	390.25	453.60		
25	397.25	171.50	192.50	182.00	173.00	118.25	160.75	224.00	447.90	376.25	420.00	451.70		
26	390.25	183.50	194.00	163.25	171.50	105.75	163.25	240.50	430.80	358.75	406.00	414.75		
27	367.50	209.00	218.00	137.00	167.00	98.25	165.75	222.50	453.60	350.00	406.00	421.75		
28	325.50	192.50	201.50	140.75	177.50	109.50	180.50	209.00	367.50	407.75	413.00	406.00		
29	386.75	186.50	227.00	139.50	153.25	98.25	173.00	198.50	308.00	406.00		388.50		
30	339.50	197.00	210.50	160.75	170.00	108.25	148.25	207.50	406.00	409.50		406.00		
31		188.00		163.25	168.50		133.25		399.00	400.75		409.50		
Total	10917.70	6884.00	6090.25	6623.00	5024.25	5191.00	4266.40	5422.50	9813.25	11844.00	10867.50	13166.55	96110.40	CMSDAY
Mean	363.92	222.06	203.01	213.65	162.07	173.03	137.63	180.75	316.56	382.06	388.13	424.73	263.32	CMS
Max	442.20	336.00	362.25	269.00	207.50	350.00	194.00	273.50	453.60	418.25	420.00	472.60	472.60	CMS
Min	308.00	81.00	124.50	137.00	105.75	98.25	90.90	100.75	171.50	322.00	320.25	383.25	81.00	CMS
Runoff	943.29	594.78	526.20	572.23	434.10	448.50	368.62	468.50	847.86	1023.32	938.95	1137.59	8303.94	MCM

Momentary Peak 512.75 CMS. at 52.05 m. (MSL.) at 09.00 Hours , on Mar 22, 2008

Runoff Yield 14.27 Liters/Second/Square KM. Momentary Peak Yield 27.80 Liters/Second/Square KM.

WATER YEAR : 2008

NAN RIVER BASIN

Huai Nam Khlung at Ban Huai Tha Nua , Phitsanulok (N.62)

Lat 17 - 14 - 24 N Long 100 - 33 - 18 E

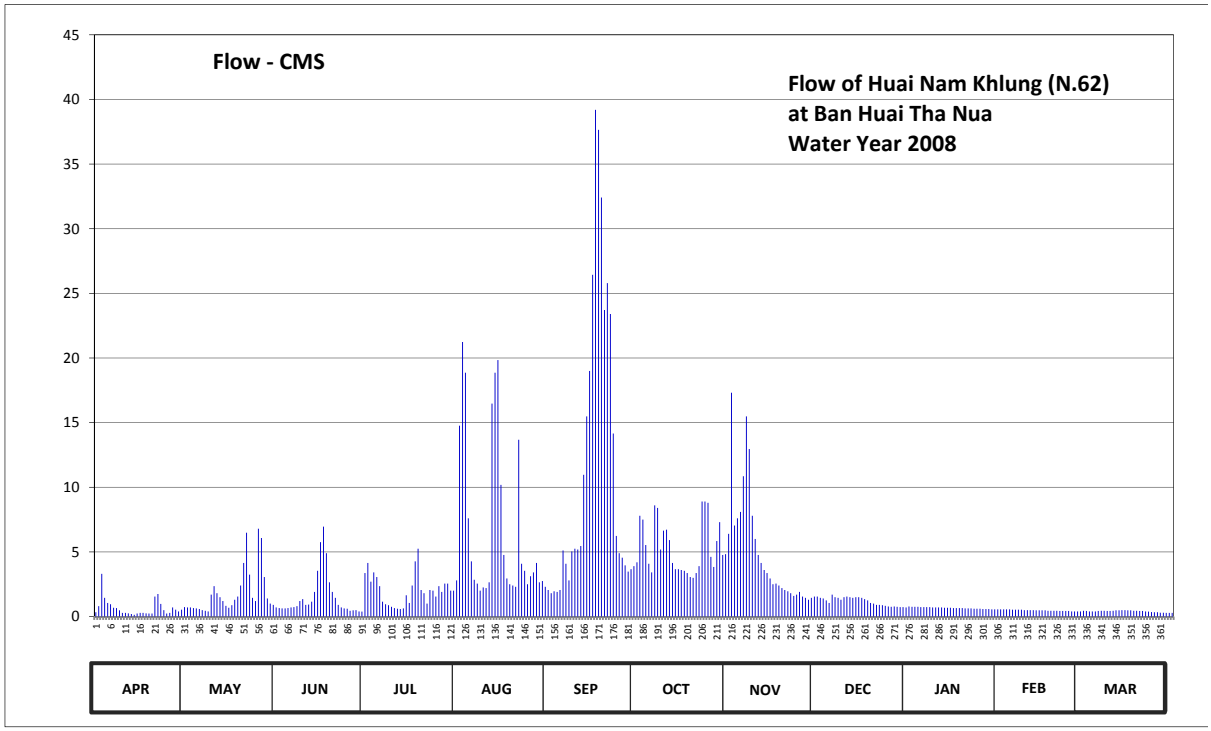
Location : on left bank at Ban Huai Tha Nua.

	Ban Huai Tha Nua	**Amphoe** Chat Trakan	**Changwat** Phitsanulok
Drainge 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 mean of 5 readings		
Period of Available Gage Records	1986 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Float	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 13 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.93	191.09	191.08	191.66	191.56	191.41	191.80	192.10	191.31	191.11	191.02	190.98	
2	191.12	191.08	191.06	191.79	192.88	191.36	192.26	193.08	191.29	191.10	191.02	190.97	
3	191.65	191.08	191.05	191.54	193.36	191.39	192.23	192.18	191.28	191.10	191.02	190.96	
4	191.29	191.06	191.05	191.67	193.19	191.38	191.99	192.24	191.25	191.10	191.02	190.96	
5	191.21	191.05	191.06	191.61	192.24	191.41	191.78	192.29	191.21	191.09	191.01	190.96	
6	191.18	191.03	191.08	191.47	191.81	191.93	191.67	192.55	191.34	191.09	191.01	190.97	
7	191.07	191.00	191.09	191.23	191.57	191.78	192.34	192.94	191.30	191.09	191.01	190.98	
8	191.06	190.98	191.12	191.18	191.51	191.56	192.32	192.73	191.29	191.09	191.01	190.98	
9	190.99	190.96	191.24	191.15	191.40	191.92	191.94	192.26	191.26	191.08	191.00	190.97	
10	190.91	191.34	191.27	191.10	191.45	191.95	192.13	192.05	191.30	191.08	191.00	190.97	
11	190.91	191.47	191.16	191.06	191.44	191.94	192.14	191.88	191.31	191.08	191.00	190.98	
12	190.90	191.36	191.17	191.04	191.53	191.98	192.04	191.79	191.30	191.08	191.00	190.99	
13	190.88	191.30	191.23	191.03	193.02	192.56	191.79	191.70	191.29	191.07	190.99	190.99	
14	190.85	191.24	191.38	191.05	193.19	192.94	191.71	191.66	191.30	191.07	190.99	191.00	
15	190.89	191.13	191.69	191.33	193.26	193.20	191.71	191.59	191.30	191.07	190.99	191.00	
16	190.91	191.07	192.02	191.21	192.49	193.69	191.70	191.50	191.29	191.06	190.99	190.99	
17	190.91	191.15	192.17	191.48	191.88	194.43	191.69	191.51	191.27	191.06	190.98	190.99	
18	190.90	191.26	191.90	191.81	191.59	194.35	191.66	191.48	191.25	191.06	190.98	190.98	
19	190.89	191.31	191.53	191.95	191.50	194.06	191.61	191.44	191.21	191.06	190.98	190.98	
20	190.89	191.48	191.38	191.41	191.48	193.52	191.60	191.41	191.20	191.05	190.98	190.97	
21	191.31	191.79	191.29	191.36	191.46	193.65	191.66	191.39	191.16	191.05	190.97	190.97	
22	191.35	192.11	191.16	191.20	192.79	193.50	191.75	191.36	191.16	191.05	190.97	190.96	
23	191.19	191.64	191.08	191.41	191.78	192.83	192.37	191.32	191.15	191.04	190.97	190.95	
24	191.00	191.29	191.05	191.40	191.69	192.08	192.37	191.34	191.13	191.04	190.97	190.94	
25	190.89	191.24	191.04	191.31	191.50	191.90	192.36	191.38	191.11	191.04	190.96	190.93	
26	190.91	192.15	190.98	191.47	191.62	191.85	191.86	191.31	191.10	191.03	190.96	190.93	
27	191.08	192.06	190.99	191.38	191.67	191.76	191.74	191.29	191.11	191.03	190.96	190.92	
28	191.01	191.61	191.00	191.51	191.79	191.68	192.03	191.26	191.10	191.03	190.96	190.92	
29	190.96	191.28	190.96	191.51	191.53	191.71	192.21	191.29	191.09	191.02		190.91	
30	191.01	191.20	190.95	191.40	191.55	191.75	191.88	191.31	191.09	191.02		190.91	
31		191.16		191.40	191.46		191.89		191.08	191.02		190.91	
Mean	191.03	191.32	191.24	191.39	191.97	192.38	191.94	191.79	191.22	191.06	190.99	190.96	
Max	191.65	192.15	192.17	191.95	193.36	194.43	192.37	193.08	191.34	191.11	191.02	191.00	194.43
Min	190.85	190.96	190.95	191.03	191.40	191.36	191.60	191.26	191.08	191.02	190.96	190.91	190.85

Annual Max Momentary Gage Height	194.46	m. (MSL.) ,	at 06.00 Hours , on Sep 17, 2008		
Zero Gage at Bottom Elevation	190.31	m. (MSL.) ,	River Bed	190.62	m. (MSL.)
Left Bank Elevation	195.87	m. (MSL.) ,			
Right Bank Elevation	195.67	m. (MSL.) ,	Drainage Are	353	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.33	0.73	0.70	3.36	2.80	2.05	4.20	6.40	1.55	0.78	0.55	0.45		
2	0.80	0.70	0.65	4.14	14.76	1.80	7.80	17.32	1.45	0.75	0.55	0.43		
3	3.30	0.70	0.63	2.70	21.24	1.95	7.50	7.04	1.40	0.75	0.55	0.40		
4	1.45	0.65	0.63	3.42	18.86	1.90	5.53	7.60	1.25	0.75	0.55	0.40		
5	1.05	0.63	0.65	3.06	7.60	2.05	4.08	8.10	1.05	0.73	0.53	0.40		
6	0.95	0.58	0.70	2.35	4.27	5.11	3.42	10.85	1.70	0.73	0.53	0.43		
7	0.68	0.50	0.73	1.15	2.85	4.08	8.60	15.48	1.50	0.73	0.53	0.45		
8	0.65	0.45	0.80	0.95	2.55	2.80	8.40	12.96	1.45	0.73	0.53	0.45		
9	0.48	0.40	1.20	0.88	2.00	5.04	5.18	7.80	1.30	0.70	0.50	0.43		
10	0.28	1.70	1.35	0.75	2.25	5.25	6.64	6.00	1.50	0.70	0.50	0.43		
11	0.28	2.35	0.90	0.65	2.20	5.18	6.72	4.76	1.55	0.70	0.50	0.45		
12	0.25	1.80	0.93	0.60	2.65	5.46	5.92	4.14	1.50	0.70	0.50	0.48		
13	0.20	1.50	1.15	0.58	16.48	10.96	4.14	3.60	1.45	0.68	0.48	0.48		
14	0.13	1.20	1.90	0.63	18.86	15.48	3.66	3.36	1.50	0.68	0.48	0.50		
15	0.23	0.83	3.54	1.65	19.84	19.00	3.66	2.95	1.50	0.68	0.48	0.50		
16	0.28	0.68	5.76	1.05	10.19	26.44	3.60	2.50	1.45	0.65	0.48	0.48		
17	0.28	0.88	6.96	2.40	4.76	39.20	3.54	2.55	1.35	0.65	0.45	0.48		
18	0.25	1.30	4.90	4.27	2.95	37.65	3.36	2.40	1.25	0.65	0.45	0.45		
19	0.23	1.55	2.65	5.25	2.50	32.42	3.06	2.20	1.05	0.65	0.45	0.45		
20	0.23	2.40	1.90	2.05	2.40	23.72	3.00	2.05	1.00	0.63	0.45	0.43		
21	1.55	4.14	1.45	1.80	2.30	25.80	3.36	1.95	0.90	0.63	0.43	0.43		
22	1.75	6.48	0.90	1.00	13.68	23.40	3.90	1.80	0.90	0.63	0.43	0.40		
23	0.98	3.24	0.70	2.05	4.08	14.16	8.90	1.60	0.88	0.60	0.43	0.38		
24	0.50	1.45	0.63	2.00	3.54	6.24	8.90	1.70	0.83	0.60	0.43	0.35		
25	0.23	1.20	0.60	1.55	2.50	4.90	8.80	1.90	0.78	0.60	0.40	0.33		
26	0.28	6.80	0.45	2.35	3.12	4.55	4.62	1.55	0.75	0.58	0.40	0.33		
27	0.70	6.08	0.48	1.90	3.42	3.96	3.84	1.45	0.78	0.58	0.40	0.30		
28	0.53	3.06	0.50	2.55	4.14	3.48	5.84	1.30	0.75	0.58	0.40	0.30		
29	0.40	1.40	0.40	2.55	2.65	3.66	7.30	1.45	0.73	0.55		0.28		
30	0.53	1.00	0.38	2.00	2.75	3.90	4.76	1.55	0.73	0.55		0.28		
31		0.90		2.00	2.30		4.83		0.70	0.55		0.28		
Total	19.78	57.28	45.12	63.64	206.49	341.59	167.06	146.31	36.48	20.47	13.36	12.63	1130.21	CMSDAY
Mean	0.66	1.85	1.50	2.05	6.66	11.39	5.39	4.88	1.18	0.66	0.48	0.41	3.10	CMS
Max	3.30	6.80	6.96	5.25	21.24	39.20	8.90	17.32	1.70	0.78	0.55	0.50	39.20	CMS
Min	0.13	0.40	0.38	0.58	2.00	1.80	3.00	1.30	0.70	0.55	0.40	0.28	0.13	CMS
Runoff	1.71	4.95	3.90	5.50	17.84	29.51	14.43	12.64	3.15	1.77	1.15	1.09	97.65	MCM

Momentary Peak 39.80 CMS. at 194.46 m. (MSL.) at 06.00 Hours , on Sep 17, 2008

Runoff Yield 8.77 Liters/Second/Square KM. Momentary Peak Yield 112.75 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	3,476 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+210.897 m. (MSL.)
Bench Mark	B.M.- Temporary.
Location BM	On right bank at the approach of the bridge. **Elevation** +224.092 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1994 to date
Rating Operation	
Period of Rating	1994 to date
Rated by Float	-
Rated by Current Meter	1994 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

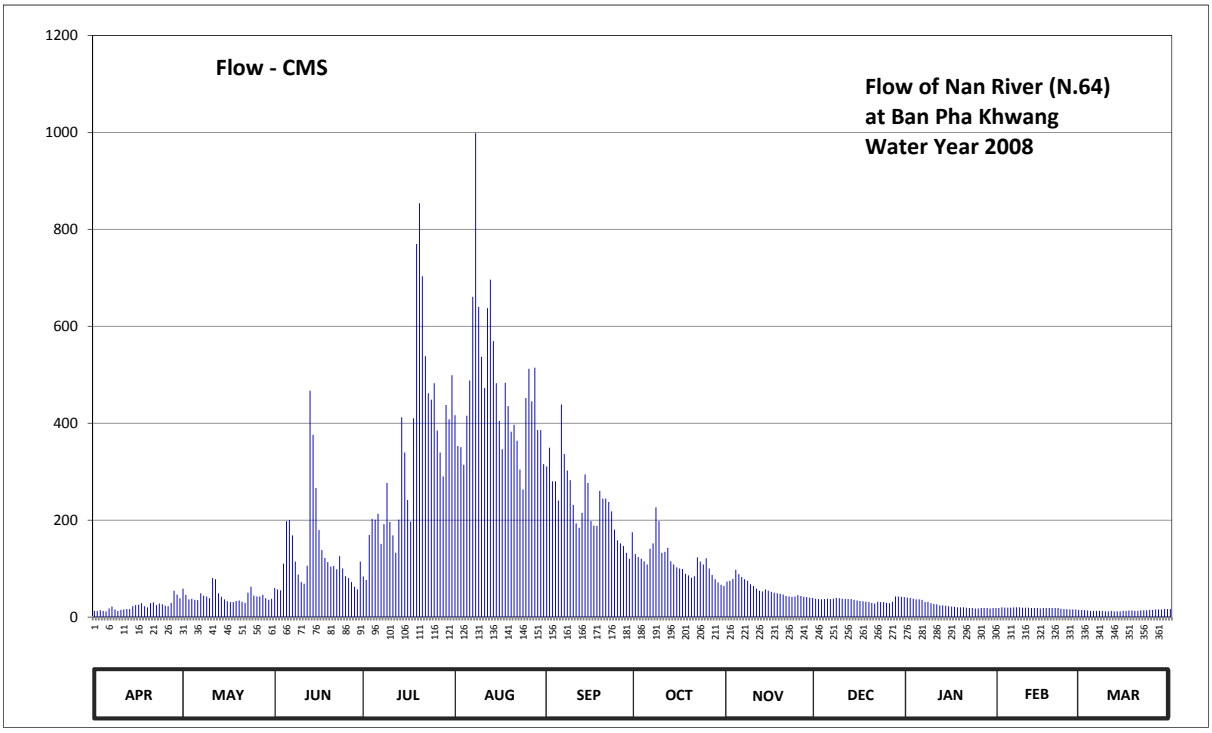
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	211.60	212.19	212.21	212.50	215.86	214.90	213.05	212.37	211.93	211.96	211.68	211.63	
2	211.60	212.03	212.17	212.41	215.28	215.25	212.98	212.39	211.92	211.95	211.70	211.62	
3	211.62	211.91	212.15	213.48	215.26	214.62	212.94	212.44	211.91	211.93	211.69	211.61	
4	211.60	211.93	212.82	213.84	214.93	214.62	212.88	212.67	211.92	211.91	211.69	211.60	
5	211.59	211.90	213.79	213.82	215.85	214.23	212.80	212.56	211.93	211.91	211.69	211.60	
6	211.67	211.89	213.81	213.95	216.51	216.06	213.17	212.49	211.92	211.90	211.70	211.60	
7	211.72	212.07	213.47	213.28	217.96	215.13	213.29	212.43	211.93	211.84	211.70	211.60	
8	211.64	212.01	212.87	213.72	219.93	214.82	214.09	212.39	211.95	211.85	211.70	211.60	
9	211.60	211.99	212.55	214.59	217.80	214.64	213.79	212.30	211.94	211.81	211.69	211.59	
10	211.63	211.94	212.36	213.77	216.95	214.14	213.08	212.26	211.93	211.79	211.69	211.59	
11	211.64	212.46	212.32	213.47	216.37	213.74	213.10	212.19	211.92	211.78	211.69	211.60	
12	211.65	212.43	212.77	213.08	217.78	213.64	213.19	212.14	211.92	211.75	211.68	211.59	
13	211.65	212.07	216.32	213.82	218.23	213.97	212.88	212.12	211.92	211.75	211.68	211.59	
14	211.73	211.98	215.49	215.82	217.22	214.75	212.80	212.17	211.90	211.74	211.68	211.59	
15	211.76	211.91	214.49	215.16	216.46	214.59	212.73	212.14	211.88	211.73	211.67	211.60	
16	211.77	211.86	213.59	214.24	215.75	213.79	212.70	212.11	211.87	211.72	211.68	211.60	
17	211.81	211.84	213.14	213.78	215.22	213.69	212.69	212.09	211.86	211.71	211.68	211.61	
18	211.73	211.84	212.96	215.80	216.47	213.68	212.57	212.07	211.85	211.70	211.68	211.61	
19	211.70	211.87	212.86	218.73	216.03	214.43	212.53	212.06	211.84	211.70	211.68	211.60	
20	211.81	211.88	212.75	219.21	215.55	214.27	212.47	212.04	211.82	211.70	211.68	211.60	
21	211.83	211.85	212.76	218.28	215.68	214.27	212.51	212.00	211.80	211.69	211.68	211.62	
22	211.76	211.82	212.68	216.96	215.38	214.20	212.97	211.99	211.85	211.68	211.66	211.62	
23	211.80	212.09	213.00	216.27	214.84	214.00	212.87	211.98	211.84	211.68	211.65	211.62	
24	211.78	212.24	212.70	216.15	214.46	213.60	212.80	211.99	211.84	211.67	211.65	211.63	
25	211.74	212.01	212.51	216.46	216.18	213.36	212.95	212.02	211.82	211.67	211.64	211.63	
26	211.73	211.99	212.46	215.57	216.73	213.29	212.70	212.00	211.81	211.68	211.64	211.64	
27	211.82	211.99	212.36	215.16	216.12	213.23	212.54	211.98	211.85	211.68	211.64	211.64	
28	212.14	212.03	212.24	214.71	216.75	213.08	212.43	211.97	211.99	211.68	211.63	211.64	
29	212.04	211.94	212.17	216.05	215.58	212.94	212.35	211.96	211.99	211.67		211.65	
30	211.94	211.90	212.87	215.78	215.58	213.54	212.29	211.95	211.98	211.68		211.65	
31		211.93		216.61	214.94		212.26		211.97	211.68		211.65	
Mean	211.74	211.99	213.02	215.05	216.25	214.15	212.85	212.18	211.90	211.76	211.68	211.61	
Max	212.14	212.46	216.32	219.21	219.93	216.06	214.09	212.67	211.99	211.96	211.70	211.65	219.93
Min	211.59	211.82	212.15	212.41	214.46	212.94	212.26	211.95	211.80	211.67	211.63	211.59	211.59

Annual Max Momentary Gage Height 220.70 m. (MSL.) , at 04.00 Hours , on Aug 8, 2008

Zero Gage at Bottom Elevation 210.90 m. (MSL.) , River Bed 210.88 m. (MSL.)

Left Bank Elevation 226.42 m. (MSL.) ,

Right Bank Elevation 224.09 m. (MSL.) , Drainage Are 3,476 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.70	58.60	60.21	83.80	416.60	311.00	130.10	73.17	38.04	40.38	18.70	14.95		
2	12.70	45.87	57.00	76.42	352.80	349.50	123.88	74.79	37.26	39.60	20.20	14.20		
3	14.20	36.48	55.40	169.56	350.60	280.20	120.44	78.88	36.48	38.04	19.45	13.45		
4	12.70	38.04	110.28	202.80	314.30	280.20	115.32	97.74	37.26	36.48	19.45	12.70		
5	11.99	35.70	198.08	200.90	415.50	240.50	108.60	88.72	38.04	36.48	19.45	12.70		
6	17.95	34.92	199.95	213.25	488.10	438.60	141.04	82.98	37.26	35.70	20.20	12.70		
7	21.74	49.03	168.64	151.16	660.80	336.30	152.08	78.06	38.04	31.02	20.20	12.70		
8	15.70	44.29	114.48	191.64	998.60	302.20	226.55	74.79	39.60	31.80	20.20	12.70		
9	12.70	42.72	87.90	276.95	640.00	282.40	198.08	67.50	38.82	28.68	19.45	11.99		
10	14.95	38.82	72.36	196.24	537.00	231.50	132.80	64.26	38.04	27.13	19.45	11.99		
11	15.70	80.52	69.12	168.64	472.70	193.48	134.60	58.60	37.26	26.36	19.45	12.70		
12	16.45	78.06	106.08	132.80	637.40	184.28	142.88	54.60	37.26	24.05	18.70	11.99		
13	16.45	49.03	467.20	200.90	696.20	215.15	115.32	53.00	37.26	24.05	18.70	11.99		
14	22.51	41.94	375.90	412.20	569.40	294.50	108.60	57.00	35.70	23.28	18.70	11.99		
15	24.82	36.48	266.50	339.60	482.60	276.95	102.72	54.60	34.14	22.51	17.95	12.70		
16	25.59	32.58	179.68	241.50	404.50	198.08	100.20	52.20	33.36	21.74	18.70	12.70		
17	28.68	31.02	138.28	197.16	346.20	188.88	99.38	50.61	32.58	20.97	18.70	13.45		
18	22.51	31.02	122.16	410.00	483.70	187.96	89.54	49.03	31.80	20.20	18.70	13.45		
19	20.20	33.36	113.64	769.80	435.30	260.50	86.26	48.24	31.02	20.20	18.70	12.70		
20	28.68	34.14	104.40	853.90	382.50	244.50	81.34	46.66	29.46	20.20	18.70	12.70		
21	30.24	31.80	105.24	703.20	396.80	244.50	84.62	43.50	27.90	19.45	18.70	14.20		
22	24.82	29.46	98.56	538.20	363.80	237.50	123.02	42.72	31.80	18.70	17.20	14.20		
23	27.90	50.61	125.60	461.70	304.40	218.00	114.48	41.94	31.02	18.70	16.45	14.20		
24	26.36	62.64	100.20	448.50	263.50	180.60	108.60	42.72	31.02	17.95	16.45	14.95		
25	23.28	44.29	84.62	482.60	451.80	158.52	121.30	45.08	29.46	17.95	15.70	14.95		
26	22.51	42.72	80.52	384.70	512.30	152.08	100.20	43.50	28.68	18.70	15.70	15.70		
27	29.46	42.72	72.36	339.60	445.20	146.56	87.08	41.94	31.80	18.70	15.70	15.70		
28	54.60	45.87	62.64	290.10	514.50	132.80	78.06	41.16	42.72	18.70	14.95	15.70		
29	46.66	38.82	57.00	437.50	385.80	120.44	71.55	40.38	42.72	17.95		16.45		
30	38.82	35.70	114.48	407.80	385.80	175.08	66.69	39.60	41.94	18.70		16.45		
31		38.04		499.10	315.40		64.26		41.16	18.70		16.45		
Total	693.57	1335.29	3968.48	10482.22	14424.10	7062.76	3529.59	1727.97	1098.90	773.07	514.60	425.40	46035.95	CMSDAY
Mean	23.12	43.07	132.28	338.14	465.29	235.43	113.86	57.60	35.45	24.94	18.38	13.72	126.13	CMS
Max	54.60	80.52	467.20	853.90	998.60	438.60	226.55	97.74	42.72	40.38	20.20	16.45	998.60	CMS
Min	11.99	29.46	55.40	76.42	263.50	120.44	64.26	39.60	27.90	17.95	14.95	11.99	11.99	CMS
Runoff	59.92	115.37	342.88	905.66	1246.24	610.22	304.96	149.30	94.94	66.79	44.46	36.75	3977.51	MCM

Momentary Peak 1200.00 CMS. at 220.70 m. (MSL.) at 04.00 Hours , on Aug 8, 2008

Runoff Yield 36.28 Liters/Second/Square KM. Momentary Peak Yield 345.22 Liters/Second/Square KM.

WATER YEAR : 2008

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	
Drainge Area	621 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 about 20 meters from the top staff gage.			**Elevation**	+8.630 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.				
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings				
Period of Available Gage Records	1996 to date				
Rating Operation					
Period of Rating	1996 to date				
Rated by Float	-				
Rated by Current Meter	1996 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records good. Stage-discharge relation defined by 31 discharge measurements made in 2008.				

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

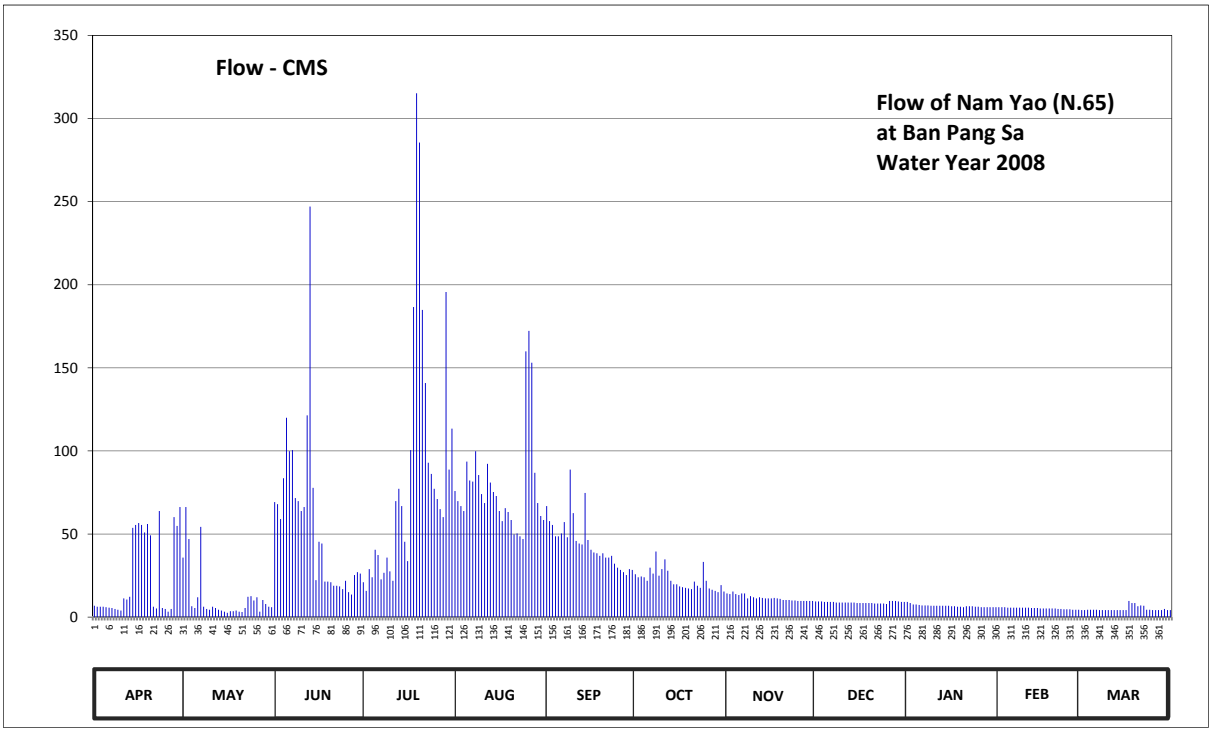
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.87	1.60	2.19	1.28	2.30	2.15	1.39	1.11	0.96	0.95	0.84	0.77	
2	0.85	2.14	2.17	1.15	2.20	2.00	1.35	1.10	0.96	0.93	0.84	0.77	
3	0.85	1.81	2.02	1.46	2.15	1.96	1.36	1.14	0.96	0.90	0.84	0.78	
4	0.85	0.86	2.42	1.35	2.10	1.84	1.35	1.10	0.95	0.90	0.83	0.78	
5	0.84	0.82	2.94	1.69	2.57	1.84	1.30	1.08	0.95	0.89	0.83	0.78	
6	0.83	1.04	2.66	1.63	2.40	1.87	1.48	1.11	0.95	0.88	0.83	0.78	
7	0.82	1.94	2.67	1.32	2.39	1.99	1.40	1.11	0.95	0.88	0.83	0.77	
8	0.80	0.85	2.23	1.41	2.66	1.83	1.67	1.02	0.94	0.88	0.83	0.77	
9	0.78	0.80	2.20	1.60	2.45	2.50	1.37	1.06	0.94	0.87	0.83	0.77	
10	0.76	0.78	2.10	1.43	2.27	2.08	1.46	1.04	0.94	0.87	0.83	0.77	
11	1.02	0.85	2.14	1.30	2.18	1.79	1.58	1.02	0.94	0.87	0.83	0.77	
12	1.00	0.82	2.96	2.20	2.55	1.76	1.44	1.04	0.94	0.87	0.82	0.77	
13	1.05	0.78	4.37	2.32	2.38	1.75	1.30	1.03	0.94	0.87	0.82	0.77	
14	1.93	0.76	2.33	2.15	2.29	2.28	1.25	1.02	0.94	0.87	0.82	0.77	
15	1.96	0.73	1.31	1.78	2.25	1.80	1.25	1.02	0.93	0.87	0.81	0.77	
16	1.98	0.70	1.78	1.56	2.10	1.69	1.22	1.02	0.93	0.86	0.81	0.77	
17	1.96	0.74	1.76	2.67	2.00	1.66	1.21	1.03	0.93	0.86	0.81	0.97	
18	1.88	0.74	1.29	3.74	2.13	1.65	1.20	1.02	0.93	0.85	0.81	0.93	
19	1.97	0.76	1.29	5.02	2.09	1.62	1.19	1.01	0.93	0.85	0.81	0.93	
20	1.85	0.73	1.28	4.75	2.01	1.65	1.18	0.99	0.93	0.84	0.81	0.86	
21	0.85	0.72	1.23	3.72	1.86	1.60	1.29	0.99	0.92	0.86	0.80	0.88	
22	0.81	0.82	1.23	3.21	1.87	1.60	1.23	0.99	0.92	0.86	0.80	0.87	
23	2.10	1.05	1.22	2.56	1.84	1.62	1.20	0.98	0.92	0.86	0.79	0.78	
24	0.82	1.06	1.18	2.46	1.81	1.53	1.55	0.98	0.92	0.85	0.79	0.78	
25	0.80	0.98	1.30	2.32	3.44	1.48	1.30	0.97	0.91	0.85	0.79	0.77	
26	0.73	1.04	1.13	2.22	3.58	1.45	1.19	0.97	0.97	0.84	0.78	0.77	
27	0.80	0.73	1.09	2.12	3.36	1.42	1.17	0.97	0.97	0.84	0.78	0.77	
28	2.04	0.99	1.38	2.04	2.47	1.38	1.15	0.97	0.97	0.84	0.78	0.77	
29	1.95	0.91	1.42	3.84	2.18	1.46	1.13	0.97	0.96	0.84		0.80	
30	2.14	0.85	1.40	2.50	2.05	1.45	1.24	0.97	0.95	0.84		0.77	
31		0.84		2.85	2.01		1.14		0.95	0.84		0.77	
Mean	1.26	0.98	1.89	2.31	2.32	1.76	1.31	1.03	0.94	0.87	0.81	0.80	
Max	2.14	2.14	4.37	5.02	3.58	2.50	1.67	1.14	0.97	0.95	0.84	0.97	5.02
Min	0.73	0.70	1.09	1.15	1.81	1.38	1.13	0.97	0.91	0.84	0.78	0.77	0.70

Annual Max Momentary Gage Height 6.09 m. (A.D.) , at 09.00 Hours , on Jun 13, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed -0.14 m. (A.D.)

Left Bank Elevation 7.81 m. (A.D.) ,

Right Bank Elevation 7.81 m. (A.D.) , Drainage Are 621 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.79	35.80	69.20	20.96	75.90	66.80	25.76	14.27	9.40	9.10	5.98	4.21		
2	6.25	66.20	68.00	15.75	69.80	57.80	24.00	13.90	9.40	8.50	5.98	4.21		
3	6.25	46.96	59.00	28.84	66.80	55.48	24.44	15.38	9.40	7.60	5.98	4.44		
4	6.25	6.52	83.52	24.00	63.80	48.64	24.00	13.90	9.10	7.60	5.71	4.44		
5	5.98	5.44	119.96	40.48	93.56	48.64	21.80	13.24	9.10	7.33	5.71	4.44		
6	5.71	11.92	99.80	37.36	82.20	50.32	29.72	14.27	9.10	7.06	5.71	4.44		
7	5.44	54.32	100.50	22.68	81.57	57.22	26.20	14.27	9.10	7.06	5.71	4.21		
8	4.90	6.25	71.63	26.64	99.80	48.08	39.44	11.26	8.80	7.06	5.71	4.21		
9	4.44	4.90	69.80	35.80	85.50	88.80	24.88	12.58	8.80	6.79	5.71	4.21		
10	3.98	4.44	63.80	27.52	74.07	62.60	28.84	11.92	8.80	6.79	5.71	4.21		
11	11.26	6.25	66.20	21.80	68.60	45.86	34.76	11.26	8.80	6.79	5.71	4.21		
12	10.60	5.44	121.44	69.80	92.20	44.24	27.96	11.92	8.80	6.79	5.44	4.21		
13	12.25	4.44	247.00	77.16	80.94	43.70	21.80	11.59	8.80	6.79	5.44	4.21		
14	53.74	3.98	77.79	66.80	75.29	74.68	19.70	11.26	8.80	6.79	5.44	4.21		
15	55.48	3.29	22.24	45.32	72.85	46.40	19.70	11.26	8.50	6.79	5.17	4.21		
16	56.64	2.60	45.32	33.72	63.80	40.48	18.44	11.26	8.50	6.52	5.17	4.21		
17	55.48	3.52	44.24	100.50	57.80	38.92	18.02	11.59	8.50	6.52	5.17	9.70		
18	50.88	3.52	21.38	186.60	65.60	38.40	17.60	11.26	8.50	6.25	5.17	8.50		
19	56.06	3.98	21.38	315.20	63.20	36.84	17.23	10.93	8.50	6.25	5.17	8.50		
20	49.20	3.29	20.96	285.50	58.40	38.40	16.86	10.30	8.50	5.98	5.17	6.52		
21	6.25	3.06	18.86	184.80	49.76	35.80	21.38	10.30	8.20	6.52	4.90	7.06		
22	5.17	5.44	18.86	140.80	50.32	35.80	18.86	10.30	8.20	6.52	4.90	6.79		
23	63.80	12.25	18.44	92.88	48.64	36.84	17.60	10.00	8.20	6.52	4.67	4.44		
24	5.44	12.58	16.86	86.16	46.96	32.16	33.20	10.00	8.20	6.25	4.67	4.44		
25	4.90	10.00	21.80	77.16	159.90	29.72	21.80	9.70	7.90	6.25	4.67	4.21		
26	3.29	11.92	15.01	71.02	172.20	28.40	17.23	9.70	9.70	5.98	4.44	4.21		
27	4.90	3.29	13.57	65.00	153.10	27.08	16.49	9.70	9.70	5.98	4.44	4.21		
28	60.20	10.30	25.32	60.20	86.82	25.32	15.75	9.70	9.70	5.98	4.44	4.21		
29	54.90	7.90	27.08	195.60	68.60	28.84	15.01	9.70	9.40	5.98		4.90		
30	66.20	6.25	26.20	88.80	60.80	28.40	19.28	9.70	9.10	5.98		4.21		
31		5.98		113.40	58.40		15.38		9.10	5.98		4.21		
Total	742.63	372.03	1695.16	2658.25	2447.18	1340.66	693.13	346.42	274.60	208.30	148.09	154.39	11080.84	CMSDAY
Mean	24.75	12.00	56.51	85.75	78.94	44.69	22.36	11.55	8.86	6.72	5.29	4.98	30.36	CMS
Max	66.20	66.20	247.00	315.20	172.20	88.80	39.44	15.38	9.70	9.10	5.98	9.70	315.20	CMS
Min	3.29	2.60	13.57	15.75	46.96	25.32	15.01	9.70	7.90	5.98	4.44	4.21	2.60	CMS
Runoff	64.16	32.14	146.46	229.67	211.44	115.83	59.89	29.93	23.73	18.00	12.79	13.34	957.38	MCM

Momentary Peak 438.80 CMS. at 6.09 m. (A.D.) at 09.00 Hours , on Jun 13, 2008

Runoff Yield 48.89 Liters/Second/Square KM. Momentary Peak Yield 706.60 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	152 sq.km.		
Type of Gage	Water - stage recorder		
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	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1995 to date		
Rating Operation			
Period of Rating	1996 to date		
Rated by Float	-		
Rated by Current Meter	1996 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 12 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

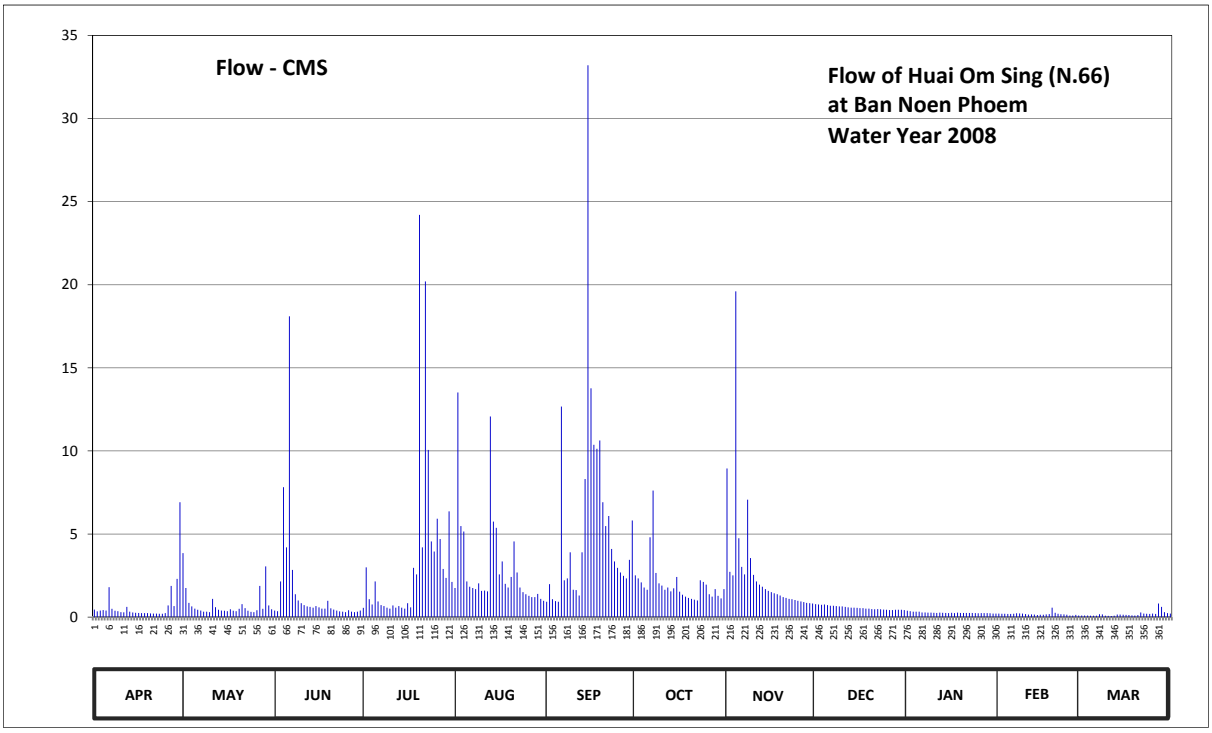
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	202.50	203.73	202.46	202.57	203.10	202.76	203.37	204.62	202.69	202.45	202.31	202.19	
2	202.43	203.10	202.44	203.53	205.19	203.19	203.31	203.44	202.68	202.44	202.30	202.19	
3	202.46	202.73	203.25	202.83	204.05	202.83	203.23	203.37	202.67	202.42	202.30	202.19	
4	202.48	202.62	204.46	202.68	203.99	202.78	203.11	205.85	202.68	202.42	202.29	202.17	
5	202.46	202.54	203.80	203.25	203.25	202.76	203.06	203.91	202.66	202.42	202.29	202.17	
6	203.12	202.49	205.71	202.77	203.13	205.09	203.92	203.54	202.64	202.38	202.30	202.17	
7	202.53	202.46	203.48	202.66	203.10	203.27	204.43	203.39	202.64	202.38	202.33	202.27	
8	202.45	202.42	202.95	202.63	203.07	203.31	203.42	204.34	202.63	202.37	202.32	202.26	
9	202.44	202.42	202.80	202.58	203.21	203.74	203.21	203.67	202.62	202.37	202.31	202.18	
10	202.40	202.40	202.72	202.54	203.03	203.06	203.16	203.38	202.62	202.36	202.28	202.15	
11	202.39	202.84	202.66	202.65	203.04	203.05	203.06	203.25	202.61	202.35	202.25	202.13	
12	202.61	202.60	202.62	202.58	203.02	202.92	203.11	203.18	202.59	202.37	202.26	202.18	
13	202.42	202.49	202.61	202.63	205.02	203.74	203.02	203.13	202.58	202.36	202.25	202.25	
14	202.38	202.46	202.58	202.58	204.10	204.53	203.09	203.07	202.58	202.35	202.22	202.25	
15	202.36	202.45	202.63	202.54	204.03	206.72	203.34	203.03	202.57	202.34	202.24	202.24	
16	202.35	202.44	202.59	202.72	203.39	205.22	203.01	203.00	202.56	202.36	202.24	202.23	
17	202.34	202.51	202.54	202.59	203.63	204.82	202.94	202.97	202.56	202.34	202.26	202.22	
18	202.34	202.45	202.54	203.52	203.20	204.79	202.89	202.95	202.54	202.37	202.28	202.21	
19	202.34	202.44	202.79	203.39	203.11	204.85	202.86	202.92	202.54	202.35	202.58	202.20	
20	202.32	202.53	202.55	206.20	203.34	204.31	202.84	202.88	202.52	202.35	202.36	202.22	
21	202.31	202.69	202.50	203.80	203.87	204.05	202.82	202.86	202.51	202.35	202.30	202.38	
22	202.31	202.56	202.46	205.90	203.43	204.16	202.80	202.84	202.52	202.35	202.27	202.31	
23	202.30	202.45	202.43	204.78	203.11	203.78	203.27	202.83	202.51	202.35	202.26	202.30	
24	202.30	202.41	202.42	203.87	203.00	203.63	203.24	202.81	202.50	202.34	202.24	202.29	
25	202.34	202.40	202.40	203.75	202.95	203.52	203.18	202.79	202.49	202.33	202.20	202.31	
26	202.65	202.47	202.47	204.13	202.91	203.43	202.95	202.77	202.48	202.34	202.19	202.29	
27	203.15	203.15	202.42	203.90	202.88	203.36	202.89	202.75	202.48	202.34	202.23	202.71	
28	202.63	202.53	202.40	203.50	202.88	203.31	203.07	202.73	202.49	202.34	202.20	202.61	
29	203.30	203.55	202.42	203.32	202.96	203.65	202.91	202.72	202.49	202.33		202.40	
30	204.31	202.65	202.46	204.21	202.84	204.11	202.85	202.71	202.49	202.31		202.34	
31		202.51		203.24	202.79		203.07		202.48	202.31		202.31	
Mean	202.56	202.63	202.82	203.35	203.37	203.82	203.14	203.26	202.57	202.36	202.28	202.27	
Max	204.31	203.73	205.71	206.20	205.19	206.72	204.43	205.85	202.69	202.45	202.58	202.71	206.72
Min	202.30	202.40	202.40	202.54	202.79	202.76	202.80	202.71	202.48	202.31	202.19	202.13	202.13

Annual Max Momentary Gage Height 207.04 m. (MSL.) , at 09.00 Hours , on Sep 15, 2008

Zero Gage at Bottom Elevation 201.22 m. (MSL.) , River Bed 202.00 m. (MSL.)

Left Bank Elevation 208.67 m. (MSL.) ,

Right Bank Elevation 208.63 m. (MSL.) , Drainage Are 152 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.45	3.85	0.39	0.56	1.75	0.92	2.51	8.94	0.78	0.38	0.21	0.10		
2	0.35	1.75	0.36	2.99	13.52	1.98	2.33	2.72	0.76	0.36	0.20	0.10		
3	0.39	0.86	2.15	1.08	5.48	1.08	2.09	2.51	0.74	0.33	0.20	0.10		
4	0.42	0.64	7.82	0.76	5.15	0.96	1.78	19.60	0.76	0.33	0.19	0.09		
5	0.39	0.51	4.20	2.15	2.15	0.92	1.65	4.75	0.72	0.33	0.19	0.09		
6	1.80	0.44	18.10	0.94	1.83	12.67	4.80	3.02	0.68	0.28	0.20	0.09		
7	0.50	0.39	2.84	0.72	1.75	2.21	7.61	2.57	0.68	0.28	0.23	0.17		
8	0.38	0.33	1.38	0.66	1.68	2.33	2.66	7.07	0.66	0.27	0.22	0.16		
9	0.36	0.33	1.00	0.57	2.03	3.90	2.03	3.55	0.64	0.27	0.21	0.09		
10	0.30	0.30	0.84	0.51	1.58	1.65	1.90	2.54	0.64	0.26	0.18	0.08		
11	0.29	1.10	0.72	0.70	1.60	1.63	1.65	2.15	0.62	0.25	0.15	0.07		
12	0.62	0.60	0.64	0.57	1.55	1.30	1.78	1.95	0.59	0.27	0.16	0.09		
13	0.33	0.44	0.62	0.66	12.07	3.90	1.55	1.83	0.57	0.26	0.15	0.15		
14	0.28	0.39	0.57	0.57	5.75	8.31	1.73	1.68	0.57	0.25	0.12	0.15		
15	0.26	0.38	0.66	0.51	5.37	33.20	2.42	1.58	0.56	0.24	0.14	0.14		
16	0.25	0.36	0.59	0.84	2.57	13.77	1.53	1.50	0.54	0.26	0.14	0.13		
17	0.24	0.47	0.51	0.59	3.35	10.37	1.35	1.43	0.54	0.24	0.16	0.12		
18	0.24	0.38	0.51	2.96	2.00	10.13	1.23	1.38	0.51	0.27	0.18	0.11		
19	0.24	0.36	0.98	2.57	1.78	10.63	1.15	1.30	0.51	0.25	0.57	0.10		
20	0.22	0.50	0.53	24.20	2.42	6.91	1.10	1.20	0.48	0.25	0.26	0.12		
21	0.21	0.78	0.45	4.20	4.55	5.48	1.05	1.15	0.47	0.25	0.20	0.28		
22	0.21	0.54	0.39	20.20	2.69	6.08	1.00	1.10	0.48	0.25	0.17	0.21		
23	0.20	0.38	0.35	10.06	1.78	4.10	2.21	1.08	0.47	0.25	0.16	0.20		
24	0.20	0.32	0.33	4.55	1.50	3.35	2.12	1.03	0.45	0.24	0.14	0.19		
25	0.24	0.30	0.30	3.95	1.38	2.96	1.95	0.98	0.44	0.23	0.10	0.21		
26	0.70	0.41	0.41	5.92	1.28	2.69	1.38	0.94	0.42	0.24	0.10	0.19		
27	1.88	1.88	0.33	4.70	1.20	2.48	1.23	0.90	0.42	0.24	0.13	0.82		
28	0.66	0.50	0.30	2.90	1.20	2.33	1.68	0.86	0.44	0.24	0.10	0.62		
29	2.30	3.05	0.33	2.36	1.40	3.45	1.28	0.84	0.44	0.23		0.30		
30	6.91	0.70	0.39	6.36	1.10	5.81	1.13	0.82	0.44	0.21		0.24		
31		0.47		2.12	0.98		1.68		0.42	0.21		0.21		
Total	21.82	23.71	48.99	112.43	94.44	167.50	61.56	82.97	17.44	8.22	5.16	5.72	649.96	CMSDAY
Mean	0.73	0.76	1.63	3.63	3.05	5.58	1.99	2.77	0.56	0.27	0.18	0.18	1.78	CMS
Max	6.91	3.85	18.10	24.20	13.52	33.20	7.61	19.60	0.78	0.38	0.57	0.82	33.20	CMS
Min	0.20	0.30	0.30	0.51	0.98	0.92	1.00	0.82	0.42	0.21	0.10	0.07	0.07	CMS
Runoff	1.89	2.05	4.23	9.71	8.16	14.47	5.32	7.17	1.51	0.71	0.45	0.49	56.16	MCM

Momentary Peak 40.36 CMS. at 207.04 m. (MSL.) at 09.00 Hours , on Sep 15, 2008

Runoff Yield 11.72 Liters/Second/Square KM. Momentary Peak Yield 265.53 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	57,384 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+13.120 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 mean of 24 readings
Period of Available Gage Records	1997 to date
Rating Operation	
Period of Rating	1997 to date
Rated by Float	-
Rated by Current Meter	1997 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 Mae Yom side flow. Stage-discharge relation defined by 27 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

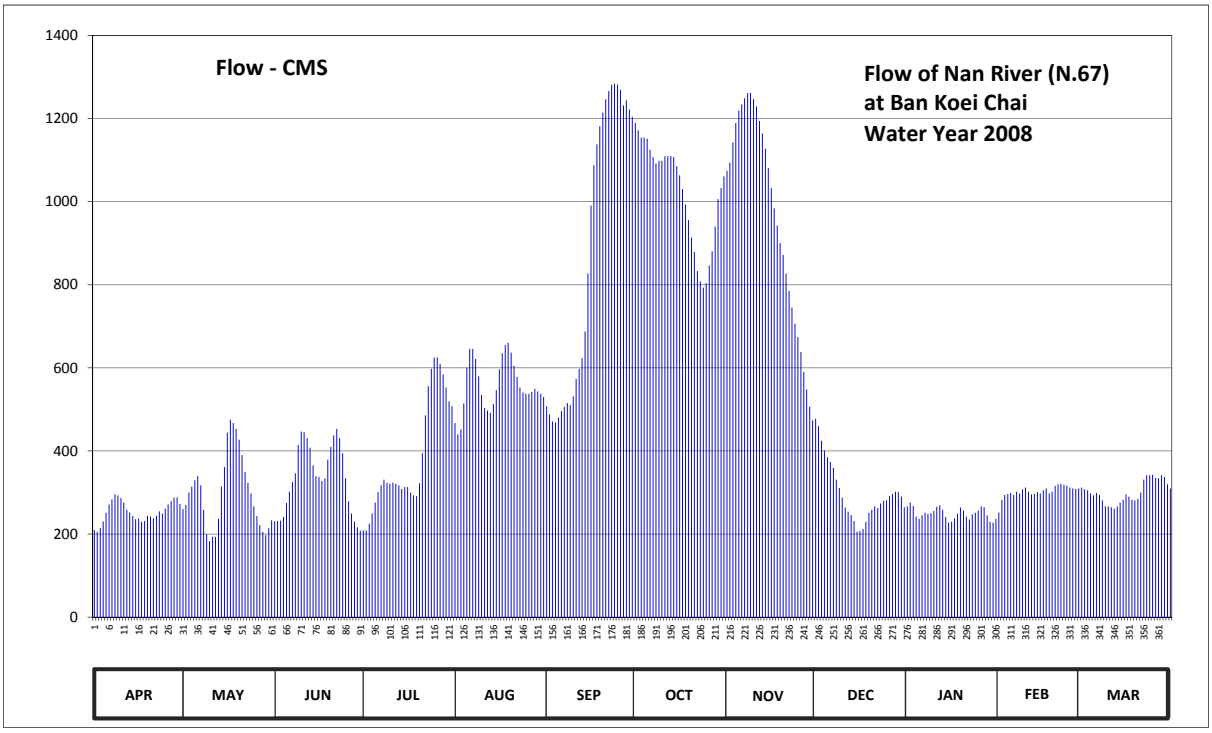
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.24	20.80	20.48	20.23	22.64	22.95	26.56	26.06	22.72	20.87	20.71	21.29	
2	20.19	20.91	20.48	20.23	22.43	22.80	26.49	26.15	22.58	20.96	21.02	21.25	
3	20.29	21.18	20.49	20.41	22.52	22.67	26.42	26.37	22.31	20.88	21.13	21.23	
4	20.47	21.31	20.59	20.68	23.00	22.65	26.42	26.56	22.10	20.60	21.15	21.16	
5	20.70	21.45	20.95	20.96	23.59	22.74	26.41	26.68	21.95	20.54	21.17	21.12	
6	20.92	21.54	21.20	21.19	23.89	22.86	26.29	26.74	21.85	20.63	21.13	21.17	
7	21.03	21.34	21.41	21.34	23.89	22.94	26.21	26.80	21.72	20.70	21.20	21.13	
8	21.14	20.78	21.60	21.46	23.73	23.01	26.14	26.85	21.46	20.67	21.16	21.01	
9	21.12	20.13	22.22	21.39	23.45	22.97	26.17	26.85	21.28	20.69	21.25	20.87	
10	21.06	19.94	22.48	21.37	23.15	23.13	26.17	26.79	21.07	20.75	21.29	20.87	
11	20.96	20.06	22.47	21.40	22.92	23.41	26.22	26.72	20.84	20.86	21.20	20.85	
12	20.78	20.06	22.36	21.37	22.87	23.57	26.22	26.58	20.73	20.90	21.14	20.81	
13	20.71	20.54	22.16	21.34	22.83	23.74	26.22	26.46	20.64	20.78	21.15	20.87	
14	20.61	21.31	21.77	21.26	22.99	24.15	26.21	26.30	20.48	20.59	21.19	20.96	
15	20.53	21.74	21.54	21.30	23.23	24.91	26.11	26.09	20.19	20.44	21.16	21.02	
16	20.55	22.46	21.52	21.30	23.56	25.68	26.01	25.87	20.21	20.46	21.23	21.14	
17	20.46	22.70	21.43	21.18	23.82	26.12	25.86	25.65	20.27	20.55	21.27	21.09	
18	20.48	22.64	21.49	21.12	23.95	26.35	25.69	25.46	20.46	20.68	21.16	21.02	
19	20.62	22.53	21.90	21.10	23.99	26.53	25.52	25.27	20.70	20.84	21.20	21.01	
20	20.60	22.33	22.18	21.38	23.83	26.66	25.33	25.14	20.78	20.76	21.33	21.04	
21	20.55	22.00	22.41	22.04	23.62	26.79	25.17	24.91	20.87	20.60	21.36	21.18	
22	20.62	21.63	22.53	22.78	23.44	26.87	24.94	24.69	20.83	20.52	21.37	21.46	
23	20.74	21.39	22.36	23.29	23.27	26.93	24.81	24.48	20.94	20.66	21.35	21.56	
24	20.68	21.16	22.04	23.57	23.19	26.94	24.73	24.26	21.00	20.70	21.33	21.56	
25	20.81	20.87	21.49	23.75	23.17	26.93	24.79	24.07	21.01	20.76	21.29	21.57	
26	20.92	20.61	20.99	23.75	23.17	26.88	25.01	23.84	21.10	20.87	21.27	21.50	
27	20.99	20.37	20.68	23.65	23.20	26.73	25.18	23.52	21.15	20.85	21.26	21.49	
28	21.07	20.19	20.46	23.48	23.25	26.78	25.45	23.24	21.20	20.63	21.27	21.56	
29	21.07	20.10	20.31	23.27	23.21	26.69	25.75	22.94	21.19	20.46		21.52	
30	20.93	20.29	20.22	23.04	23.17	26.62	25.87	22.69	21.09	20.44		21.36	
31		20.50		22.95	23.12		26.00		20.85	20.54		21.27	
Mean	20.73	21.12	21.47	21.86	23.29	24.93	25.82	25.47	21.15	20.68	21.20	21.19	
Max	21.14	22.70	22.53	23.75	23.99	26.94	26.56	26.85	22.72	20.96	21.37	21.57	26.94
Min	20.19	19.94	20.22	20.23	22.43	22.65	24.73	22.69	20.19	20.44	20.71	20.81	19.94

Annual Max Momentary Gage Height 26.94 m. (MSL.) , at 18.00 Hours , on Sep 23, 2008

Zero Gage at Bottom Elevation 13.12 m. (MSL.) , River Bed 12.66 m. (MSL.)

Left Bank Elevation 28.98 m. (MSL.) ,

Right Bank Elevation 28.26 m. (MSL.) , Drainage Are 57,384 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	209.60	260.00	231.20	208.70	467.20	507.50	1189.00	1074.20	477.60	266.30	251.90	311.90		
2	205.10	270.10	231.20	208.70	439.90	488.00	1171.50	1094.00	459.40	275.60	282.20	307.50		
3	214.10	299.80	232.10	224.90	451.60	471.10	1154.00	1142.40	424.30	267.20	294.30	305.30		
4	230.30	314.10	241.10	249.20	514.00	468.50	1154.00	1189.00	401.00	242.00	296.50	297.60		
5	251.00	329.50	274.50	275.60	600.50	480.20	1151.50	1219.00	384.50	236.60	298.70	293.20		
6	271.20	339.40	302.00	300.90	645.50	495.80	1124.80	1234.00	373.50	244.70	294.30	298.70		
7	283.30	317.40	325.10	317.40	645.50	506.20	1107.20	1249.00	359.20	251.00	302.00	294.30		
8	295.40	258.20	346.00	330.60	621.50	515.30	1091.80	1261.50	330.60	248.30	297.60	281.10		
9	293.20	199.70	414.20	322.90	579.50	510.10	1098.40	1261.50	310.80	250.10	307.50	266.30		
10	286.60	182.60	446.40	320.70	534.50	531.50	1098.40	1246.50	287.70	255.50	311.90	266.30		
11	275.60	193.40	445.10	324.00	503.60	573.50	1109.40	1229.00	263.60	265.40	302.00	264.50		
12	258.20	193.40	430.80	320.70	497.10	597.50	1109.40	1194.00	253.70	269.00	295.40	260.90		
13	251.90	236.60	407.60	317.40	491.90	623.00	1109.40	1164.00	245.60	258.20	296.50	266.30		
14	242.90	314.10	364.70	308.60	512.70	687.50	1107.20	1127.00	231.20	241.10	300.90	275.60		
15	235.70	361.40	339.40	313.00	546.50	826.90	1085.20	1080.80	205.10	227.60	297.60	282.20		
16	237.50	443.80	337.20	313.00	596.00	990.60	1063.20	1032.40	206.90	229.40	305.30	295.40		
17	229.40	475.00	327.30	299.80	635.00	1087.40	1030.20	984.00	212.30	237.50	309.70	289.90		
18	231.20	467.20	333.90	293.20	654.50	1138.00	992.80	942.20	229.40	249.20	297.60	282.20		
19	243.80	452.90	379.00	291.00	660.50	1181.50	955.40	900.40	251.00	263.60	302.00	281.10		
20	242.00	426.90	409.80	321.80	636.50	1214.00	913.60	871.80	258.20	256.40	316.30	284.40		
21	237.50	390.00	437.30	394.40	605.00	1246.50	878.40	826.90	266.30	242.00	319.60	299.80		
22	243.80	349.30	452.90	485.40	578.00	1266.50	832.60	785.10	262.70	234.80	320.70	330.60		
23	254.60	322.90	430.80	555.50	552.50	1281.50	807.90	745.20	273.40	247.40	318.50	341.60		
24	249.20	297.60	394.40	597.50	540.50	1284.00	792.70	706.20	280.00	251.00	316.30	341.60		
25	260.90	266.30	333.90	624.50	537.50	1281.50	804.10	673.90	281.10	256.40	311.90	342.70		
26	271.20	242.90	278.90	624.50	537.50	1269.00	845.90	638.00	291.00	266.30	309.70	335.00		
27	278.90	221.30	249.20	609.50	542.00	1231.50	880.60	590.00	296.50	264.50	308.60	333.90		
28	287.70	205.10	229.40	584.00	549.50	1244.00	940.00	548.00	302.00	244.70	309.70	341.60		
29	287.70	197.00	215.90	552.50	543.50	1221.50	1006.00	506.20	300.90	229.40		337.20		
30	272.30	214.10	207.80	519.20	537.50	1204.00	1032.40	473.70	289.90	227.60		319.60		
31		233.00		507.50	530.00		1061.00		264.50	236.60		309.70		
Total	7631.80	9275.00	10049.10	11916.60	17287.50	26424.10	31698.00	28989.90	9273.90	7735.40	8475.20	9338.00	178094.50	CMSDAY
Mean	254.39	299.19	334.97	384.41	557.66	880.80	1022.52	966.33	299.16	249.53	302.69	301.23	487.93	CMS
Max	295.40	475.00	452.90	624.50	660.50	1284.00	1189.00	1261.50	477.60	275.60	320.70	342.70	1284.00	CMS
Min	205.10	182.60	207.80	208.70	439.90	468.50	792.70	473.70	205.10	227.60	251.90	260.90	182.60	CMS
Runoff	659.39	801.36	868.24	1029.59	1493.64	2283.04	2738.71	2504.73	801.26	668.34	732.26	806.80	15387.36	MCM

Momentary Peak 1284.00 CMS. at 26.94 m. (MSL.) at 18.00 Hours , on Sep 23, 2008

Runoff Yield 8.50 Liters/Second/Square KM. Momentary Peak Yield 22.38 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 5 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Float	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Mae Yom side flow.		
	Stage-discharge relation defined by 18 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

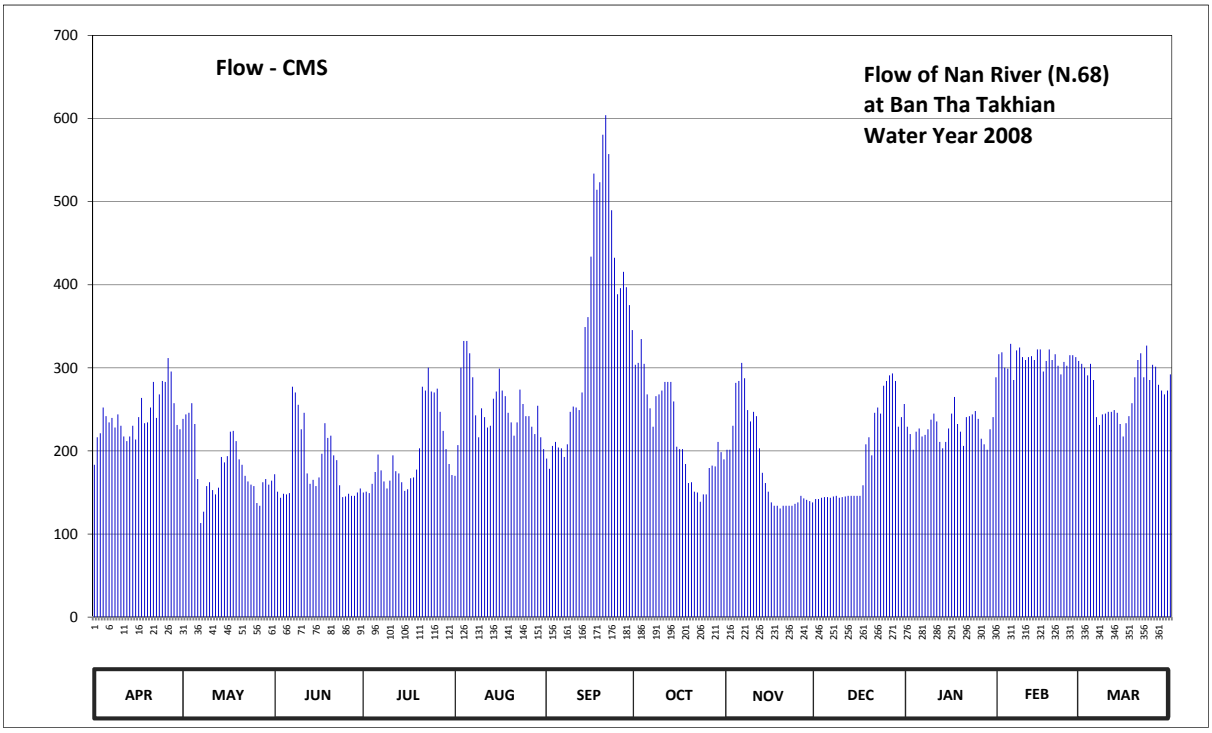
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.55	38.12	37.43	37.20	37.41	37.63	38.71	37.74	37.10	38.03	38.82	38.72	
2	37.90	38.17	37.21	37.21	37.80	37.50	38.73	37.74	37.10	37.94	38.84	38.68	
3	37.95	38.19	37.12	37.19	38.68	37.79	38.98	38.04	37.12	37.74	38.68	38.60	
4	38.25	38.30	37.18	37.31	38.96	37.84	38.72	38.52	37.13	37.97	38.67	38.72	
5	38.15	38.06	37.17	37.46	38.96	37.77	38.40	38.54	37.13	38.01	38.93	38.55	
6	38.08	37.37	37.19	37.68	38.83	37.76	38.24	38.73	37.12	37.91	38.55	38.14	
7	38.13	36.74	38.48	37.48	38.58	37.65	38.03	38.57	37.14	37.93	38.86	38.05	
8	38.02	36.91	38.42	37.34	38.16	37.81	38.38	38.22	37.15	38.00	38.89	38.17	
9	38.17	37.28	38.28	37.25	37.90	38.20	38.40	38.09	37.12	38.11	38.79	38.18	
10	38.04	37.33	38.00	37.35	38.24	38.26	38.44	38.20	37.13	38.18	38.76	38.20	
11	37.91	37.23	38.19	37.67	38.14	38.25	38.53	38.15	37.14	38.09	38.79	38.20	
12	37.85	37.17	37.44	37.47	38.02	38.22	38.53	37.76	37.15	37.84	38.80	38.22	
13	37.91	37.26	37.31	37.44	38.04	38.42	38.53	37.45	37.15	37.76	38.76	38.19	
14	38.04	37.65	37.36	37.33	38.35	39.10	38.32	37.32	37.15	37.84	38.87	38.06	
15	37.87	37.58	37.28	37.22	38.43	39.20	37.78	37.21	37.15	38.01	38.87	37.91	
16	38.14	37.66	37.39	37.24	38.67	39.79	37.75	37.05	37.15	38.18	38.64	38.07	
17	38.36	37.97	37.69	37.38	38.44	40.56	37.75	37.00	37.29	38.37	38.75	38.15	
18	38.07	37.98	38.07	37.39	38.38	40.41	37.56	37.00	37.81	38.06	38.87	38.30	
19	38.08	37.85	37.89	37.49	38.19	40.48	37.32	36.96	37.90	37.97	38.76	38.58	
20	38.25	37.62	37.92	37.76	38.08	40.92	37.33	37.00	37.67	37.79	38.82	38.76	
21	38.53	37.55	37.67	38.48	37.92	41.10	37.21	37.00	38.19	38.14	38.70	38.83	
22	38.13	37.41	37.61	38.44	38.08	40.74	37.20	37.00	38.25	38.15	38.61	38.58	
23	38.40	37.34	37.29	38.68	38.45	40.22	37.06	37.00	38.18	38.17	38.74	38.91	
24	38.54	37.30	37.13	38.43	38.29	39.78	37.17	37.03	38.49	38.21	38.70	38.55	
25	38.53	37.28	37.14	38.42	38.15	39.43	37.17	37.05	38.54	38.12	38.81	38.71	
26	38.78	37.04	37.18	38.46	38.15	39.49	37.51	37.15	38.60	37.88	38.81	38.69	
27	38.64	37.00	37.15	38.20	38.03	39.65	37.54	37.11	38.62	37.81	38.79	38.50	
28	38.30	37.33	37.15	37.98	37.94	39.50	37.53	37.09	38.54	37.74	38.75	38.44	
29	38.05	37.37	37.20	37.75	38.27	39.32	37.84	37.07	38.03	38.00		38.40	
30	38.00	37.30	37.25	37.56	37.90	39.07	37.71	37.05	38.14	38.14		38.44	
31		37.35		37.42	37.75		37.62		38.29	38.58		38.61	
Mean	38.15	37.51	37.53	37.67	38.23	39.06	37.94	37.53	37.63	38.02	38.77	38.42	
Max	38.78	38.30	38.48	38.68	38.96	41.10	38.98	38.73	38.62	38.58	38.93	38.91	41.10
Min	37.55	36.74	37.12	37.19	37.41	37.50	37.06	36.96	37.10	37.74	38.55	37.91	36.74

Annual Max Momentary Gage Height 41.14 m. (MSL.) , at 06.00 Hours , on Sep 21, 2008

Zero Gage at Bottom Elevation 35.00 m. (MSL.) , River Bed 32.69 m. (MSL.)

Left Bank Elevation 47.37 m. (MSL.) ,

Right Bank Elevation 47.15 m. (MSL.) , Drainage Are 25,018 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	183.25	238.60	171.85	150.00	169.95	190.85	303.65	201.30	142.00	229.15	316.30	304.80		
2	216.50	243.85	150.95	150.95	207.00	178.50	305.95	201.30	142.00	220.30	318.60	300.20		
3	221.25	245.95	143.60	149.20	300.20	206.05	334.70	230.20	143.60	201.30	300.20	291.00		
4	252.25	257.50	148.40	160.45	332.40	210.80	304.80	281.80	144.40	223.15	299.05	304.80		
5	241.75	232.30	147.60	174.70	332.40	204.15	268.00	284.10	144.40	227.05	328.95	285.25		
6	234.40	166.15	149.20	195.60	317.45	203.20	251.20	305.95	143.60	217.45	285.25	240.70		
7	239.65	113.20	277.20	176.60	288.70	192.75	229.15	287.55	145.20	219.35	320.90	231.25		
8	228.10	126.80	270.30	163.30	242.80	207.95	265.90	249.10	146.00	226.00	324.35	243.85		
9	243.85	157.60	255.40	154.75	216.50	247.00	268.00	235.45	143.60	237.55	312.85	244.90		
10	230.20	162.35	226.00	164.25	251.20	253.30	272.60	247.00	144.40	244.90	309.40	247.00		
11	217.45	152.85	245.95	194.65	240.70	252.25	282.95	241.75	145.20	235.45	312.85	247.00		
12	211.75	147.60	172.80	175.65	228.10	249.10	282.95	203.20	146.00	210.80	314.00	249.10		
13	217.45	155.70	160.45	172.80	230.20	270.30	282.95	173.75	146.00	203.20	309.40	245.95		
14	230.20	192.75	165.20	162.35	262.75	349.00	259.60	161.40	146.00	210.80	322.05	232.30		
15	213.65	186.10	157.60	151.90	271.45	361.00	205.10	150.95	146.00	227.05	322.05	217.45		
16	240.70	193.70	168.05	153.80	299.05	433.70	202.25	138.00	146.00	244.90	295.60	233.35		
17	263.80	223.15	196.55	167.10	272.60	533.80	202.25	134.00	158.55	264.85	308.25	241.75		
18	233.35	224.10	233.35	168.05	265.90	514.30	184.20	134.00	207.95	232.30	322.05	257.50		
19	234.40	211.75	215.55	177.55	245.95	523.40	161.40	130.80	216.50	223.15	309.40	288.70		
20	252.25	189.90	218.40	203.20	234.40	580.60	162.35	134.00	194.65	206.05	316.30	309.40		
21	282.95	183.25	194.65	277.20	218.40	604.00	150.95	134.00	245.95	240.70	302.50	317.45		
22	239.65	169.95	188.95	272.60	234.40	557.20	150.00	134.00	252.25	241.75	292.15	288.70		
23	268.00	163.30	158.55	300.20	273.75	489.60	138.80	134.00	244.90	243.85	307.10	326.65		
24	284.10	159.50	144.40	271.45	256.45	432.40	147.60	136.40	278.35	248.05	302.50	285.25		
25	282.95	157.60	145.20	270.30	241.75	388.60	147.60	138.00	284.10	238.60	315.15	303.65		
26	311.70	137.20	148.40	274.90	241.75	395.80	179.45	146.00	291.00	214.60	315.15	301.35		
27	295.60	134.00	146.00	247.00	229.15	415.50	182.30	142.80	293.30	207.95	312.85	279.50		
28	257.50	162.35	146.00	224.10	220.30	397.00	181.35	141.20	284.10	201.30	308.25	272.60		
29	231.25	166.15	150.00	202.25	254.35	375.40	210.80	139.60	229.15	226.00		268.00		
30	226.00	159.50	154.75	184.20	216.50	345.40	198.45	138.00	240.70	240.70		272.60		
31		164.25		170.90	202.25		189.90		256.45	288.70		292.15		
Total	7285.90	5578.95	5451.30	6061.95	7798.75	10562.90	6907.15	5509.60	5992.30	7096.95	8703.45	8424.15	85373.35	CMSDAY
Mean	242.86	179.97	181.71	195.55	251.57	352.10	222.81	183.65	193.30	228.93	310.84	271.75	233.90	CMS
Max	311.70	257.50	277.20	300.20	332.40	604.00	334.70	305.95	293.30	288.70	328.95	326.65	604.00	CMS
Min	183.25	113.20	143.60	149.20	169.95	178.50	138.80	130.80	142.00	201.30	285.25	217.45	113.20	CMS
Runoff	629.50	482.02	470.99	523.75	673.81	912.63	596.78	476.03	517.73	613.18	751.98	727.85	7376.26	MCM

Momentary Peak 609.20 CMS. at 41.14 m. (MSL.) at 06.00 Hours , on Sep 21, 2008

Runoff Yield 9.35 Liters/Second/Square KM. Momentary Peak Yield 24.35 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 Float	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

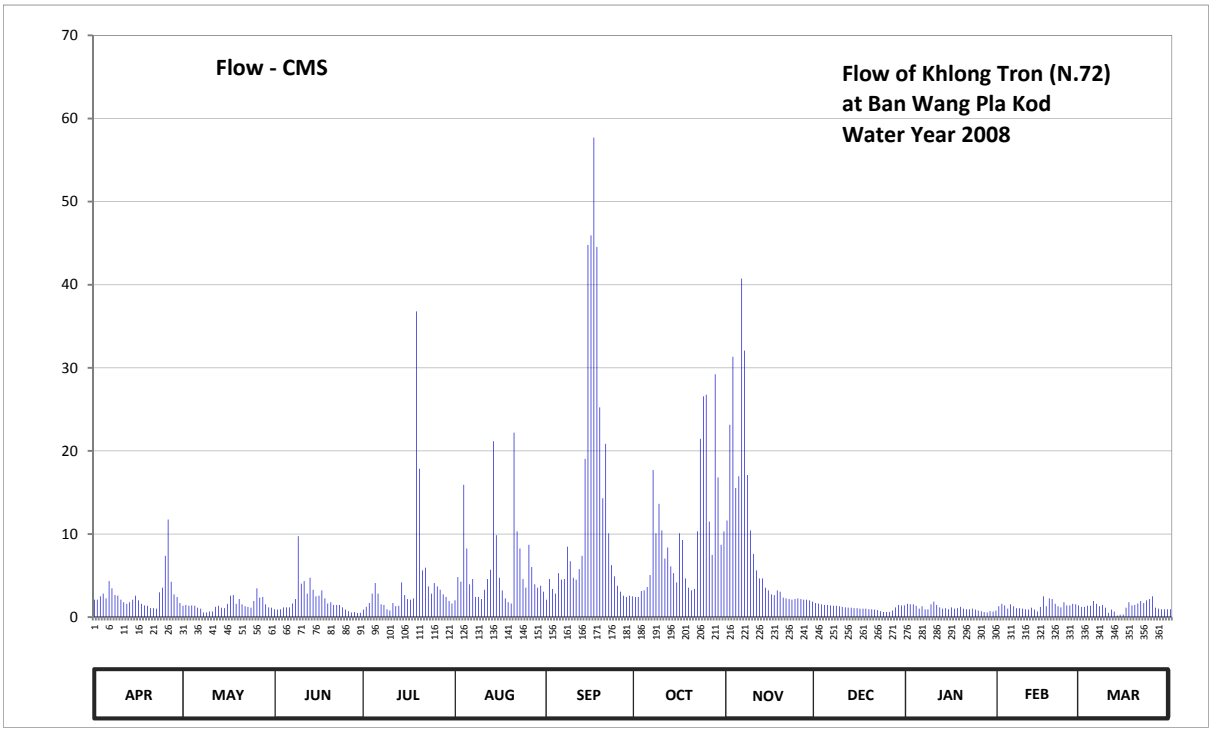
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	61.45	61.34	61.27	61.26	61.44	61.45	61.49	62.45	61.40	61.38	61.33	61.32	
2	61.45	61.36	61.26	61.32	61.79	61.76	61.49	63.25	61.39	61.37	61.38	61.32	
3	61.50	61.34	61.27	61.40	61.72	61.61	61.58	63.68	61.37	61.37	61.35	61.34	
4	61.54	61.35	61.31	61.54	62.78	61.54	61.59	62.75	61.36	61.34	61.28	61.34	
5	61.47	61.34	61.31	61.70	62.16	61.85	61.64	62.85	61.36	61.28	61.37	61.43	
6	61.73	61.30	61.31	61.54	61.68	61.75	61.82	64.15	61.35	61.33	61.33	61.38	
7	61.62	61.28	61.39	61.37	61.76	61.76	62.90	63.72	61.34	61.27	61.29	61.33	
8	61.52	61.20	61.46	61.36	61.49	62.18	62.32	62.86	61.34	61.27	61.29	61.36	
9	61.51	61.20	62.29	61.27	61.49	62.02	62.61	62.35	61.33	61.37	61.28	61.30	
10	61.45	61.22	61.69	61.24	61.46	61.78	62.35	62.10	61.32	61.42	61.27	61.19	
11	61.41	61.22	61.73	61.40	61.60	61.75	62.05	61.89	61.31	61.36	61.26	61.26	
12	61.38	61.32	61.54	61.33	61.76	61.91	62.17	61.77	61.30	61.31	61.30	61.22	
13	61.41	61.34	61.78	61.34	61.90	62.08	61.95	61.77	61.30	61.28	61.26	61.07	
14	61.45	61.30	61.60	61.71	63.13	62.99	61.85	61.63	61.29	61.29	61.22	61.10	
15	61.51	61.29	61.50	61.52	62.30	64.33	61.71	61.59	61.29	61.27	61.32	61.11	
16	61.44	61.38	61.51	61.46	61.78	64.38	62.32	61.53	61.28	61.31	61.50	61.30	
17	61.38	61.51	61.59	61.45	61.59	64.85	62.25	61.52	61.28	61.28	61.33	61.41	
18	61.35	61.52	61.47	61.47	61.47	64.32	61.77	61.59	61.28	61.29	61.47	61.35	
19	61.34	61.38	61.39	63.96	61.41	63.36	61.63	61.57	61.27	61.32	61.46	61.36	
20	61.29	61.46	61.41	62.91	61.39	62.66	61.59	61.48	61.27	61.28	61.38	61.39	
21	61.29	61.37	61.36	61.89	63.20	63.11	61.61	61.47	61.26	61.27	61.33	61.43	
22	61.28	61.33	61.36	61.93	62.34	62.32	62.34	61.46	61.25	61.27	61.31	61.40	
23	61.56	61.32	61.36	61.65	62.16	61.97	63.15	61.45	61.23	61.28	61.41	61.44	
24	61.63	61.30	61.31	61.54	61.76	61.80	63.43	61.46	61.21	61.26	61.35	61.46	
25	62.08	61.43	61.26	61.70	61.63	61.66	63.44	61.47	61.21	61.24	61.35	61.50	
26	62.46	61.62	61.23	61.65	62.20	61.57	62.44	61.46	61.21	61.23	61.38	61.30	
27	61.72	61.48	61.20	61.60	61.94	61.51	62.09	61.45	61.24	61.21	61.37	61.28	
28	61.53	61.49	61.21	61.53	61.68	61.49	63.57	61.45	61.31	61.20	61.35	61.27	
29	61.49	61.37	61.18	61.49	61.63	61.51	62.84	61.44	61.36	61.23		61.27	
30	61.40	61.31	61.19	61.43	61.66	61.50	62.20	61.42	61.35	61.22		61.27	
31		61.30		61.39	61.57		62.34		61.35	61.24		61.27	
Mean	61.52	61.35	61.42	61.62	61.87	62.29	62.21	62.03	61.30	61.29	61.34	61.32	
Max	62.46	61.62	62.29	63.96	63.20	64.85	63.57	64.15	61.40	61.42	61.50	61.50	64.85
Min	61.28	61.20	61.18	61.24	61.39	61.45	61.49	61.42	61.21	61.20	61.22	61.07	61.07

Annual Max Momentary Gage Height 65.04 m. (MSL.) , at 18.00 Hours , on Sep 15, 2008

Zero Gage at Bottom Elevation 60.89 m. (MSL.) , River Bed 60.35 m. (MSL.)

Left Bank Elevation 69.24 m. (MSL.) ,

Right Bank Elevation 69.28 m. (MSL.) , Drainage Are 225 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.10	1.36	0.95	0.90	2.02	2.10	2.42	11.63	1.70	1.59	1.30	1.24		
2	2.10	1.47	0.90	1.24	4.82	4.58	2.42	23.15	1.64	1.53	1.59	1.24		
3	2.50	1.36	0.95	1.70	4.26	3.38	3.14	31.32	1.53	1.53	1.41	1.36		
4	2.82	1.41	1.18	2.82	15.93	2.82	3.22	15.53	1.47	1.36	1.01	1.36		
5	2.26	1.36	1.18	4.10	8.26	5.30	3.62	16.95	1.47	1.01	1.53	1.94		
6	4.34	1.13	1.18	2.82	3.94	4.50	5.06	40.75	1.41	1.30	1.30	1.59		
7	3.46	1.01	1.64	1.53	4.58	4.58	17.70	32.08	1.36	0.95	1.07	1.30		
8	2.66	0.55	2.18	1.47	2.42	8.48	10.08	17.10	1.36	0.95	1.07	1.47		
9	2.58	0.55	9.74	0.95	2.42	6.72	13.64	10.43	1.30	1.53	1.01	1.13		
10	2.10	0.67	4.02	0.78	2.18	4.74	10.43	7.60	1.24	1.86	0.95	0.52		
11	1.78	0.67	4.34	1.70	3.30	4.50	7.05	5.62	1.18	1.47	0.90	0.90		
12	1.59	1.24	2.82	1.30	4.58	5.78	8.37	4.66	1.13	1.18	1.13	0.67		
13	1.78	1.36	4.74	1.36	5.70	7.38	6.10	4.66	1.13	1.01	0.90	0.19		
14	2.10	1.13	3.30	4.18	21.15	19.05	5.30	3.54	1.07	1.07	0.67	0.28		
15	2.58	1.07	2.50	2.66	9.85	44.79	4.18	3.22	1.07	0.95	1.24	0.30		
16	2.02	1.59	2.58	2.18	4.74	45.94	10.08	2.74	1.01	1.18	2.50	1.13		
17	1.59	2.58	3.22	2.10	3.22	57.70	9.28	2.66	1.01	1.01	1.30	1.78		
18	1.41	2.66	2.26	2.26	2.26	44.56	4.66	3.22	1.01	1.07	2.26	1.41		
19	1.36	1.59	1.64	36.80	1.78	25.24	3.54	3.06	0.95	1.24	2.18	1.47		
20	1.07	2.18	1.78	17.85	1.64	14.31	3.22	2.34	0.95	1.01	1.59	1.64		
21	1.07	1.53	1.47	5.62	22.20	20.85	3.38	2.26	0.90	0.95	1.30	1.94		
22	1.01	1.30	1.47	5.94	10.31	10.08	10.31	2.18	0.84	0.95	1.18	1.70		
23	2.98	1.24	1.47	3.70	8.26	6.26	21.45	2.10	0.72	1.01	1.78	2.02		
24	3.54	1.13	1.18	2.82	4.58	4.90	26.57	2.18	0.61	0.90	1.41	2.18		
25	7.38	1.94	0.90	4.10	3.54	3.78	26.76	2.26	0.61	0.78	1.41	2.50		
26	11.75	3.46	0.72	3.70	8.70	3.06	11.50	2.18	0.61	0.72	1.59	1.13		
27	4.26	2.34	0.55	3.30	6.02	2.58	7.49	2.10	0.78	0.61	1.53	1.01		
28	2.74	2.42	0.61	2.74	3.94	2.42	29.23	2.10	1.18	0.55	1.41	0.95		
29	2.42	1.53	0.50	2.42	3.54	2.58	16.80	2.02	1.47	0.72		0.95		
30	1.70	1.18	0.52	1.94	3.78	2.50	8.70	1.86	1.41	0.67		0.95		
31		1.13		1.64	3.06		10.31		1.41	0.78		0.95		
Total	83.05	46.14	62.49	128.62	186.98	375.46	306.01	263.50	35.53	33.44	38.52	39.20	1598.94	CMSDAY
Mean	2.77	1.49	2.08	4.15	6.03	12.52	9.87	8.78	1.15	1.08	1.38	1.26	4.38	CMS
Max	11.75	3.46	9.74	36.80	22.20	57.70	29.23	40.75	1.70	1.86	2.50	2.50	57.70	CMS
Min	1.01	0.55	0.50	0.78	1.64	2.10	2.42	1.86	0.61	0.55	0.67	0.19	0.19	CMS
Runoff	7.18	3.99	5.40	11.11	16.16	32.44	26.44	22.77	3.07	2.89	3.33	3.39	138.15	MCM

Momentary Peak 63.40 CMS. at 65.04 m. (MSL.) at 18.00 Hours , on Sep 15, 2008

Runoff Yield 19.47 Liters/Second/Square KM. Momentary Peak Yield 281.78 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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** +693.038 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 mean of 5 readings		
Period of Available Gage Records	2002 to date		
Rating Operation			
Period of Rating	2002 to date		
Rated by Float	-		
Rated by Current Meter	2002 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +690.470 m.(MSL), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 10 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

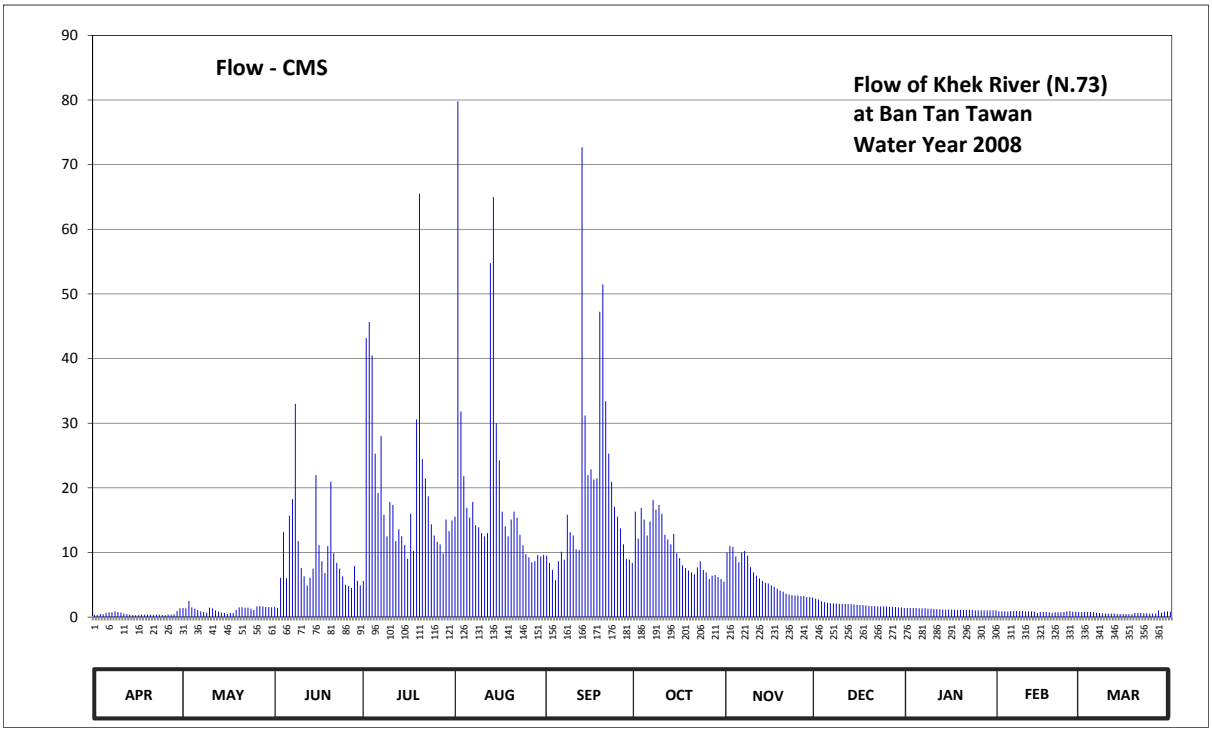
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	685.55	685.78	685.81	686.36	687.17	686.72	687.22	686.76	686.05	685.78	685.68	685.66	
2	685.55	685.77	685.78	688.63	690.01	686.63	686.93	686.84	686.03	685.78	685.68	685.66	
3	685.59	686.00	686.41	688.74	688.09	686.53	687.26	686.83	685.99	685.78	685.68	685.66	
4	685.58	685.80	687.01	688.51	687.56	686.37	687.14	686.71	685.96	685.78	685.67	685.66	
5	685.64	685.76	686.40	687.76	687.26	686.65	686.97	686.64	685.94	685.77	685.69	685.65	
6	685.65	685.72	687.18	687.41	687.16	686.77	687.12	686.76	685.93	685.77	685.69	685.64	
7	685.65	685.68	687.35	687.90	687.32	686.67	687.34	686.78	685.92	685.77	685.69	685.63	
8	685.68	685.66	688.15	687.19	687.08	687.19	687.24	686.72	685.92	685.76	685.69	685.62	
9	685.66	685.64	686.90	686.96	687.06	687.01	687.29	686.57	685.91	685.76	685.69	685.61	
10	685.64	685.79	686.56	687.32	687.00	686.97	687.20	686.49	685.91	685.75	685.68	685.61	
11	685.61	685.77	686.43	687.29	686.96	686.80	686.98	686.44	685.91	685.74	685.68	685.61	
12	685.58	685.71	686.29	686.90	687.00	686.79	686.92	686.40	685.90	685.74	685.68	685.61	
13	685.56	685.67	686.41	687.04	689.11	689.77	686.86	686.36	685.90	685.73	685.67	685.60	
14	685.53	685.64	686.55	686.96	689.49	688.06	686.99	686.33	685.89	685.73	685.63	685.59	
15	685.52	685.63	687.57	686.85	688.00	687.57	686.75	686.32	685.88	685.73	685.66	685.59	
16	685.53	685.60	686.85	686.68	687.70	687.62	686.69	686.29	685.87	685.73	685.66	685.59	
17	685.56	685.63	686.65	687.20	687.22	687.53	686.60	686.27	685.87	685.73	685.66	685.58	
18	685.55	685.63	686.48	686.78	687.07	687.54	686.56	686.24	685.86	685.72	685.65	685.58	
19	685.56	685.72	686.84	688.03	686.96	688.81	686.52	686.21	685.85	685.72	685.64	685.63	
20	685.55	685.80	687.51	689.51	687.14	688.98	686.49	686.19	685.84	685.72	685.65	685.63	
21	685.54	685.80	686.75	687.71	687.22	688.17	686.46	686.15	685.84	685.72	685.65	685.63	
22	685.56	685.79	686.63	687.54	687.16	687.76	686.57	686.13	685.83	685.72	685.65	685.62	
23	685.55	685.79	686.55	687.38	686.98	687.51	686.65	686.12	685.83	685.72	685.66	685.62	
24	685.53	685.76	686.43	687.09	686.85	687.27	686.53	686.11	685.83	685.71	685.68	685.61	
25	685.52	685.72	686.30	686.97	686.74	687.17	686.49	686.11	685.83	685.71	685.69	685.61	
26	685.56	685.83	686.28	686.89	686.70	687.05	686.39	686.10	685.82	685.71	685.67	685.61	
27	685.55	685.84	686.25	686.86	686.64	686.86	686.44	686.10	685.82	685.71	685.67	685.71	
28	685.57	685.83	686.59	686.75	686.65	686.68	686.45	686.08	685.81	685.71	685.66	685.64	
29	685.69	685.81	686.36	687.14	686.73	686.67	686.42	686.08	685.80	685.71		685.67	
30	685.77	685.81	686.29	687.02	686.71	686.63	686.39	686.07	685.80	685.71		685.68	
31		685.80		687.13	686.73		686.35		685.78	685.71		685.67	
Mean	685.59	685.75	686.65	687.37	687.34	687.29	686.78	686.37	685.88	685.74	685.67	685.63	
Max	685.77	686.00	688.15	689.51	690.01	689.77	687.34	686.84	686.05	685.78	685.69	685.71	690.01
Min	685.52	685.60	685.78	686.36	686.64	686.37	686.35	686.07	685.78	685.71	685.63	685.58	685.52

Annual Max Momentary Gage Height 690.73 m. (MSL.) , at 15.00 Hours , on Sep 13, 2008

Zero Gage at Bottom Elevation 684.53 m. (MSL.) , River Bed 684.96 m. (MSL.)

Left Bank Elevation 690.96 m. (MSL.) ,

Right Bank Elevation 690.46 m. (MSL.) , Drainage Are 213 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.38	1.40	1.55	5.60	15.55	9.50	16.30	10.00	2.88	1.40	0.90	0.80		
2	0.38	1.35	1.40	43.18	79.80	8.38	12.13	11.00	2.73	1.40	0.90	0.80		
3	0.48	2.50	6.10	45.65	31.80	7.30	16.90	10.88	2.45	1.40	0.90	0.80		
4	0.45	1.50	13.15	40.48	21.80	5.70	15.10	9.38	2.30	1.40	0.85	0.80		
5	0.70	1.30	6.00	25.30	16.90	8.63	12.63	8.50	2.20	1.35	0.95	0.75		
6	0.75	1.10	15.70	19.18	15.40	10.13	14.80	10.00	2.15	1.35	0.95	0.70		
7	0.75	0.90	18.25	28.00	17.80	8.88	18.10	10.25	2.10	1.35	0.95	0.65		
8	0.90	0.80	33.00	15.85	14.20	15.85	16.60	9.50	2.10	1.30	0.95	0.60		
9	0.80	0.70	11.75	12.50	13.90	13.15	17.35	7.70	2.05	1.30	0.95	0.55		
10	0.70	1.45	7.60	17.80	13.00	12.63	16.00	6.90	2.05	1.25	0.90	0.55		
11	0.55	1.35	6.30	17.35	12.50	10.50	12.75	6.40	2.05	1.20	0.90	0.55		
12	0.45	1.05	4.90	11.75	13.00	10.38	12.00	6.00	2.00	1.20	0.90	0.55		
13	0.40	0.85	6.10	13.60	54.75	72.68	11.25	5.60	2.00	1.15	0.85	0.50		
14	0.33	0.70	7.50	12.50	64.98	31.20	12.88	5.30	1.95	1.15	0.65	0.48		
15	0.30	0.65	21.98	11.13	30.00	21.98	9.88	5.20	1.90	1.15	0.80	0.48		
16	0.33	0.50	11.13	9.00	24.25	22.85	9.13	4.90	1.85	1.15	0.80	0.48		
17	0.40	0.65	8.63	16.00	16.30	21.28	8.00	4.70	1.85	1.15	0.80	0.45		
18	0.38	0.65	6.80	10.25	14.05	21.45	7.60	4.40	1.80	1.10	0.75	0.45		
19	0.40	1.10	11.00	30.60	12.50	47.25	7.20	4.10	1.75	1.10	0.70	0.65		
20	0.38	1.50	20.93	65.53	15.10	51.50	6.90	3.93	1.70	1.10	0.75	0.65		
21	0.35	1.50	9.88	24.43	16.30	33.40	6.60	3.63	1.70	1.10	0.75	0.65		
22	0.40	1.45	8.38	21.45	15.40	25.30	7.70	3.48	1.65	1.10	0.75	0.60		
23	0.38	1.45	7.50	18.70	12.75	20.93	8.63	3.40	1.65	1.10	0.80	0.60		
24	0.33	1.30	6.30	14.35	11.13	17.05	7.30	3.33	1.65	1.05	0.90	0.55		
25	0.30	1.10	5.00	12.63	9.75	15.55	6.90	3.33	1.65	1.05	0.95	0.55		
26	0.40	1.65	4.80	11.63	9.25	13.75	5.90	3.25	1.60	1.05	0.85	0.55		
27	0.38	1.70	4.50	11.25	8.50	11.25	6.40	3.25	1.60	1.05	0.85	1.05		
28	0.43	1.65	7.90	9.88	8.63	9.00	6.50	3.10	1.55	1.05	0.80	0.70		
29	0.95	1.55	5.60	15.10	9.63	8.88	6.20	3.10	1.50	1.05		0.85		
30	1.35	1.55	4.90	13.30	9.38	8.38	5.90	3.03	1.50	1.05		0.90		
31		1.50		14.95	9.63		5.50		1.40	1.05		0.85		
Total	15.48	38.40	284.53	618.92	617.93	574.71	327.03	177.54	59.31	36.65	23.75	20.09	2794.34	CMSDAY
Mean	0.52	1.24	9.48	19.97	19.93	19.16	10.55	5.92	1.91	1.18	0.85	0.65	7.66	CMS
Max	1.35	2.50	33.00	65.53	79.80	72.68	18.10	11.00	2.88	1.40	0.95	1.05	79.80	CMS
Min	0.30	0.50	1.40	5.60	8.50	5.70	5.50	3.03	1.40	1.05	0.65	0.45	0.30	CMS
Runoff	1.34	3.32	24.58	53.47	53.39	49.65	28.26	15.34	5.12	3.17	2.05	1.74	241.43	MCM

Momentary Peak 102.22 CMS. at 690.73 m. (MSL.) at 15.00 Hours , on Sep 13, 2008

Runoff Yield 35.94 Liters/Second/Square KM. Momentary Peak Yield 479.91 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 5 readings				
Period of Available Gage Records	2001 to date				
Rating Operation					
Period of Rating	2001 to date				
Rated by Float	-				
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 20 discharge measurements made in 2008.				

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

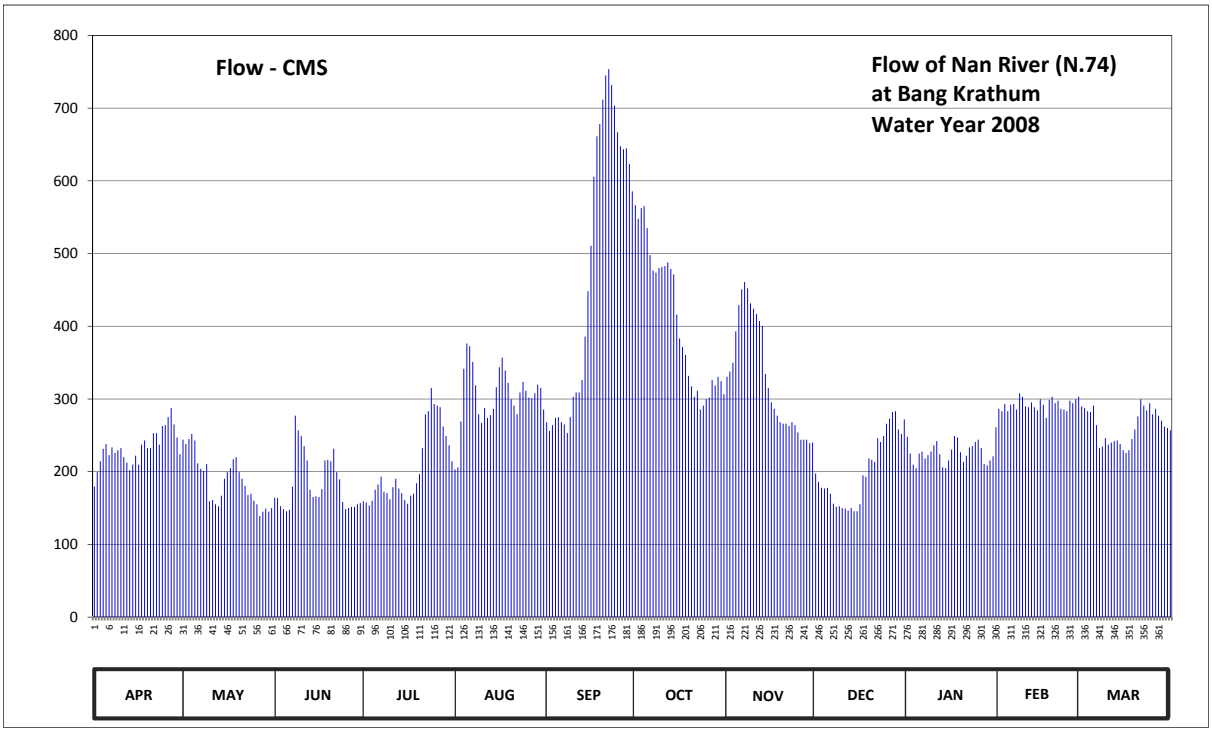
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.74	32.43	31.57	31.51	32.00	32.67	35.13	33.23	31.94	32.47	32.85	32.88	
2	31.96	32.37	31.56	31.49	32.03	32.55	34.99	33.29	31.81	32.23	32.82	32.86	
3	32.12	32.44	31.43	31.44	32.68	32.63	35.10	33.39	31.72	32.07	32.91	32.82	
4	32.30	32.51	31.38	31.52	33.32	32.73	35.12	33.75	31.71	32.02	32.82	32.81	
5	32.37	32.42	31.35	31.69	33.61	32.74	34.89	34.05	31.72	32.23	32.90	32.89	
6	32.21	32.09	31.37	31.77	33.58	32.67	34.60	34.23	31.63	32.26	32.91	32.63	
7	32.32	32.01	31.74	31.89	33.40	32.64	34.43	34.31	31.47	32.16	32.84	32.31	
8	32.24	31.98	32.76	31.66	33.13	32.52	34.41	34.24	31.42	32.21	33.04	32.33	
9	32.28	32.08	32.56	31.64	32.78	32.74	34.46	34.07	31.43	32.26	33.00	32.45	
10	32.31	31.51	32.48	31.54	32.66	33.00	34.47	34.01	31.40	32.35	32.88	32.36	
11	32.18	31.53	32.34	31.73	32.86	33.05	34.48	33.95	31.39	32.41	32.87	32.39	
12	32.10	31.46	32.13	31.86	32.73	33.05	34.52	33.87	31.36	32.22	32.93	32.41	
13	31.99	31.43	31.69	31.71	32.77	33.19	34.45	33.81	31.40	32.03	32.87	32.42	
14	32.07	31.60	31.58	31.64	32.85	33.69	34.39	33.26	31.35	32.02	32.83	32.37	
15	32.20	31.86	31.59	31.53	33.11	34.21	33.94	33.10	31.35	32.13	32.97	32.28	
16	32.07	31.96	31.58	31.47	33.34	34.70	33.67	32.93	31.46	32.29	32.90	32.24	
17	32.36	32.02	31.70	31.60	33.45	35.42	33.57	32.85	31.91	32.48	32.73	32.28	
18	32.42	32.15	32.13	31.63	33.30	35.83	33.48	32.76	31.89	32.46	32.96	32.44	
19	32.31	32.18	32.14	31.79	33.16	35.95	33.24	32.67	32.16	32.25	33.00	32.57	
20	32.31	31.96	32.12	31.93	32.97	36.19	33.12	32.65	32.14	32.11	32.92	32.75	
21	32.52	31.86	32.30	32.31	32.89	36.42	33.00	32.65	32.11	32.20	32.95	32.97	
22	32.52	31.75	31.96	32.78	32.78	36.48	33.07	32.62	32.45	32.32	32.85	32.89	
23	32.36	31.61	31.85	32.82	33.05	36.33	32.84	32.67	32.40	32.34	32.84	32.83	
24	32.62	31.63	31.50	33.10	33.17	36.13	32.89	32.63	32.48	32.40	32.82	32.92	
25	32.63	31.52	31.38	32.91	33.07	35.87	32.97	32.53	32.65	32.43	32.95	32.78	
26	32.74	31.46	31.40	32.89	32.99	35.73	32.99	32.43	32.72	32.31	32.92	32.85	
27	32.86	31.27	31.42	32.87	32.98	35.70	33.19	32.43	32.81	32.08	32.97	32.76	
28	32.64	31.34	31.42	32.61	33.04	35.71	33.13	32.43	32.82	32.06	33.00	32.69	
29	32.46	31.39	31.46	32.48	33.14	35.55	33.23	32.38	32.57	32.13		32.61	
30	32.22	31.34	31.48	32.35	33.10	35.27	33.18	32.39	32.51	32.19		32.59	
31		31.40		32.12	32.84		33.03		32.71	32.60		32.56	
Mean	32.31	31.82	31.78	32.01	32.99	34.38	33.87	33.19	31.96	32.25	32.90	32.61	
Max	32.86	32.51	32.76	33.10	33.61	36.48	35.13	34.31	32.82	32.60	33.04	32.97	36.48
Min	31.74	31.27	31.35	31.44	32.00	32.52	32.84	32.38	31.35	32.02	32.73	32.24	31.27

Annual Max Momentary Gage Height 36.49 m. (MSL.) , at 06.00 Hours , on Sep 22, 2008

Zero Gage at Bottom Elevation 29.36 m. (MSL.) , River Bed 27.22 m. (MSL.)

Left Bank Elevation 42.36 m. (MSL.) ,

Right Bank Elevation 43.19 m. (MSL.) , Drainage Are 25,489 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	179.60	244.00	164.45	159.35	203.00	268.00	566.55	330.60	197.60	248.00	286.50	289.80		
2	199.40	238.15	163.60	157.65	205.85	256.00	547.73	337.80	185.90	224.85	283.20	287.60		
3	214.40	245.00	152.55	153.40	269.00	264.00	562.50	349.80	177.80	209.65	293.10	283.20		
4	231.50	252.00	148.30	160.20	341.40	274.00	565.20	393.00	176.90	204.90	283.20	282.10		
5	238.15	243.00	145.75	175.10	376.20	275.00	534.98	429.00	177.80	224.85	292.00	290.90		
6	222.95	211.55	147.45	182.30	372.60	268.00	498.00	450.83	169.70	227.70	293.10	264.00		
7	233.40	203.95	179.60	193.10	351.00	265.00	476.33	461.03	155.95	218.20	285.40	232.45		
8	225.80	201.20	277.00	172.40	318.60	253.00	473.78	452.10	151.70	222.95	307.80	234.35		
9	229.60	210.60	257.00	170.60	279.00	275.00	480.15	431.40	152.55	227.70	303.00	246.00		
10	232.45	159.35	249.00	161.90	267.00	303.00	481.43	424.20	150.00	236.25	289.80	237.20		
11	220.10	161.05	235.30	178.70	287.60	309.00	482.70	417.00	149.15	242.00	288.70	240.05		
12	212.50	155.10	215.35	190.40	274.00	309.00	487.80	407.40	146.60	223.90	295.30	242.00		
13	202.10	152.55	175.10	176.90	278.00	325.80	478.88	400.20	150.00	205.85	288.70	243.00		
14	209.65	167.00	165.30	170.60	286.50	385.80	471.23	334.20	145.75	204.90	284.30	238.15		
15	222.00	190.40	166.15	161.05	316.20	448.28	415.80	315.00	145.75	215.35	299.70	229.60		
16	209.65	199.40	165.30	155.95	343.80	510.75	383.40	295.30	155.10	230.55	292.00	225.80		
17	237.20	204.90	176.00	167.00	357.00	605.70	371.40	286.50	194.90	249.00	274.00	229.60		
18	243.00	217.25	215.35	169.70	339.00	661.20	360.60	277.00	193.10	247.00	298.60	245.00		
19	232.45	220.10	216.30	184.10	322.20	678.00	331.80	268.00	218.20	226.75	303.00	258.00		
20	232.45	199.40	214.40	196.70	299.70	711.60	317.40	266.00	216.30	213.45	294.20	276.00		
21	253.00	190.40	231.50	232.45	290.90	744.90	303.00	266.00	213.45	222.00	297.50	299.70		
22	253.00	180.50	199.40	279.00	279.00	753.60	311.40	263.00	246.00	233.40	286.50	290.90		
23	237.20	167.90	189.50	283.20	309.00	731.85	285.40	268.00	241.00	235.30	285.40	284.30		
24	263.00	169.70	158.50	315.00	323.40	703.20	290.90	264.00	249.00	241.00	283.20	294.20		
25	264.00	160.20	148.30	293.10	311.40	666.80	299.70	254.00	266.00	244.00	297.50	279.00		
26	275.00	155.10	150.00	290.90	301.90	647.55	301.90	244.00	273.00	232.45	294.20	286.50		
27	287.60	138.95	151.70	288.70	300.80	643.50	325.80	244.00	282.10	210.60	299.70	277.00		
28	265.00	144.90	151.70	262.00	307.80	644.85	318.60	244.00	283.20	208.70	303.00	270.00		
29	247.00	149.15	155.10	249.00	319.80	623.25	330.60	239.10	258.00	215.35		262.00		
30	223.90	144.90	156.80	236.25	315.00	585.45	324.60	240.05	252.00	221.05		260.00		
31		150.00		214.40	285.40		306.60		272.00	261.00		257.00		
Total	6997.05	5827.65	5521.75	6381.10	9432.05	14391.08	12686.16	9852.51	6246.50	7028.65	8182.60	8135.40	100682.50	CMSDAY
Mean	233.23	187.99	184.06	205.84	304.26	479.70	409.23	328.42	201.50	226.73	292.24	262.43	275.84	CMS
Max	287.60	252.00	277.00	315.00	376.20	753.60	566.55	461.03	283.20	261.00	307.80	299.70	753.60	CMS
Min	179.60	138.95	145.75	153.40	203.00	253.00	285.40	239.10	145.75	204.90	274.00	225.80	138.95	CMS
Runoff	604.55	503.51	477.08	551.33	814.93	1243.39	1096.08	851.26	539.70	607.28	706.98	702.90	8698.97	MCM

Momentary Peak 755.05 CMS. at 36.49 m. (MSL.) at 06.00 Hours , on Sep 22, 2008

Runoff Yield 10.82 Liters/Second/Square KM. Momentary Peak Yield 29.62 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	2,170 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 approach of the bridge.	**Elevation** +13.811 m. (A.D.)	
Gage Reading Frequency	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 Float	-		
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 30 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

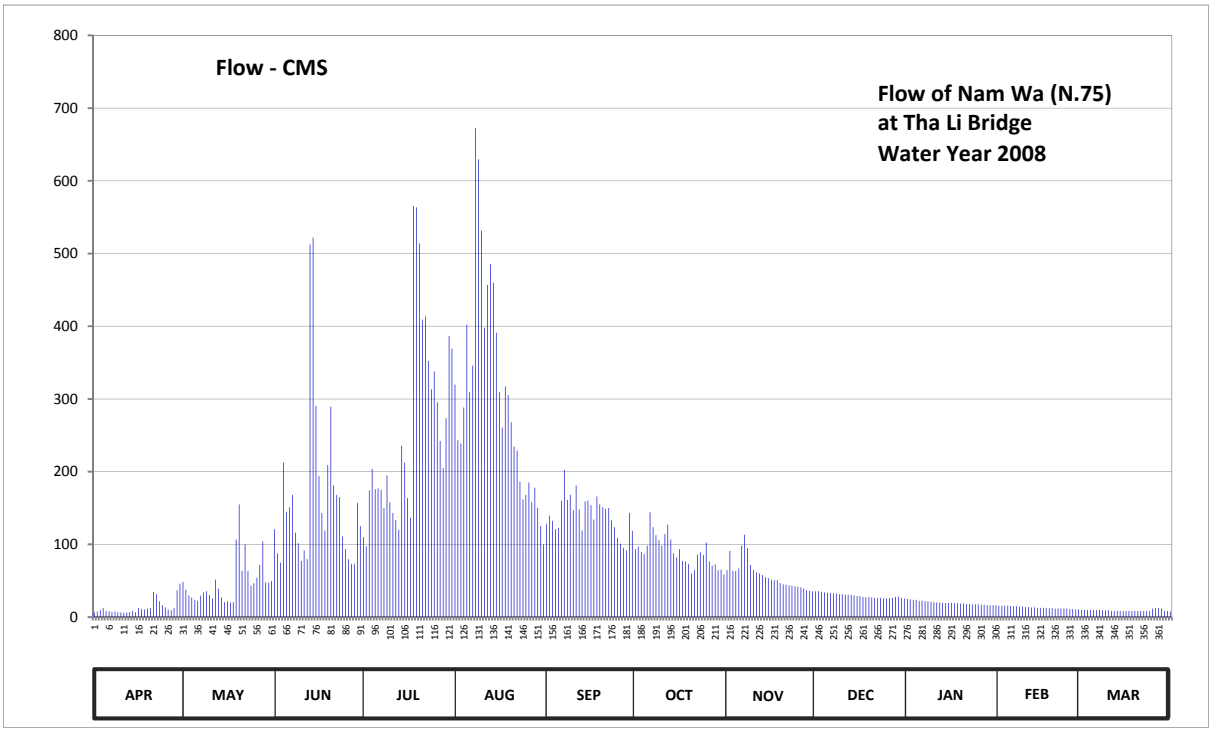
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.34	2.02	2.93	2.80	4.76	3.01	2.60	2.24	1.83	1.67	1.52	1.42	
2	1.37	1.86	2.53	2.65	4.13	3.14	2.64	2.57	1.83	1.66	1.52	1.42	
3	1.41	1.74	2.37	3.49	4.09	3.06	2.55	2.23	1.82	1.65	1.52	1.42	
4	1.46	1.70	3.85	3.77	4.51	2.93	2.52	2.22	1.81	1.65	1.52	1.42	
5	1.38	1.65	3.20	3.51	5.38	2.95	2.66	2.27	1.80	1.63	1.51	1.42	
6	1.38	1.63	3.26	3.52	4.68	3.35	3.19	2.66	1.80	1.63	1.51	1.42	
7	1.36	1.74	3.43	3.50	4.96	3.76	2.96	2.84	1.79	1.62	1.51	1.42	
8	1.37	1.81	2.87	3.25	7.05	3.36	2.83	2.62	1.79	1.62	1.50	1.41	
9	1.35	1.83	2.70	3.69	6.82	3.43	2.75	2.33	1.77	1.61	1.50	1.41	
10	1.34	1.75	2.40	3.33	6.26	3.22	2.66	2.24	1.77	1.60	1.49	1.41	
11	1.32	1.68	2.58	3.18	5.35	3.56	2.85	2.20	1.76	1.59	1.49	1.39	
12	1.33	2.06	2.43	3.07	5.77	3.23	3.00	2.18	1.76	1.59	1.48	1.39	
13	1.35	1.88	6.14	2.92	5.97	2.91	2.76	2.15	1.75	1.58	1.48	1.39	
14	1.40	1.70	6.20	4.06	5.79	3.34	2.53	2.11	1.74	1.58	1.47	1.39	
15	1.35	1.60	4.53	3.85	5.30	3.35	2.46	2.09	1.73	1.58	1.47	1.39	
16	1.47	1.62	3.68	3.39	4.68	3.29	2.60	2.06	1.73	1.58	1.47	1.39	
17	1.44	1.59	3.18	3.11	4.28	3.08	2.40	2.05	1.71	1.58	1.46	1.39	
18	1.43	1.60	2.91	6.46	4.74	3.41	2.39	2.05	1.71	1.58	1.46	1.39	
19	1.45	2.76	3.82	6.45	4.65	3.30	2.35	1.99	1.71	1.57	1.46	1.39	
20	1.46	3.30	4.52	6.15	4.34	3.26	2.18	1.97	1.70	1.57	1.45	1.39	
21	1.82	2.23	3.56	5.43	4.05	3.24	2.24	1.96	1.69	1.56	1.45	1.39	
22	1.77	2.68	3.43	5.46	4.00	3.25	2.51	1.95	1.69	1.56	1.45	1.39	
23	1.62	2.22	3.40	5.01	3.61	3.07	2.55	1.94	1.69	1.55	1.45	1.39	
24	1.53	1.94	2.81	4.71	3.37	2.96	2.50	1.93	1.68	1.55	1.45	1.39	
25	1.48	1.99	2.60	4.90	3.43	2.79	2.71	1.92	1.68	1.55	1.44	1.45	
26	1.43	2.10	2.43	4.57	3.60	2.69	2.39	1.91	1.68	1.54	1.44	1.46	
27	1.41	2.33	2.35	4.12	3.33	2.62	2.32	1.89	1.69	1.54	1.43	1.47	
28	1.46	2.73	2.35	3.78	3.53	2.58	2.34	1.85	1.71	1.53	1.43	1.45	
29	1.85	2.01	3.32	4.39	3.25	3.18	2.24	1.84	1.72	1.53		1.39	
30	1.98	2.00	2.98	5.27	2.98	2.90	2.25	1.83	1.69	1.53		1.39	
31		2.03		5.14	2.68		2.16		1.68	1.53		1.37	
Mean	1.47	1.99	3.29	4.16	4.56	3.14	2.55	2.14	1.74	1.58	1.48	1.41	
Max	1.98	3.30	6.20	6.46	7.05	3.76	3.19	2.84	1.83	1.67	1.52	1.47	7.05
Min	1.32	1.59	2.35	2.65	2.68	2.58	2.16	1.83	1.68	1.53	1.43	1.37	1.32

Annual Max Momentary Gage Height 9.20 m. (A.D.) , at 16.00 Hours , on Jun 13 , 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed -1.20 m. (A.D.)

Left Bank Elevation 13.71 m. (A.D.) ,

Right Bank Elevation 13.67 m. (A.D.) , Drainage Are 2,170 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.46	48.70	121.05	110.00	319.80	127.90	93.40	64.62	35.54	25.05	15.70	9.94		
2	7.63	37.58	87.73	97.55	243.30	139.60	96.72	90.97	35.54	24.40	15.70	9.94		
3	9.37	29.60	74.83	174.00	238.90	132.40	89.35	63.84	34.86	23.75	15.70	9.94		
4	12.22	27.00	212.50	203.70	288.20	121.05	86.92	63.06	34.18	23.75	15.70	9.94		
5	8.02	23.75	145.00	176.00	402.20	122.75	98.38	66.96	33.50	22.45	15.10	9.94		
6	8.02	22.45	151.00	177.00	309.40	160.00	144.10	98.38	33.50	22.45	15.10	9.94		
7	7.24	29.60	168.00	175.00	345.80	202.60	123.60	113.40	32.85	21.80	15.10	9.94		
8	7.63	34.18	115.95	150.00	672.50	161.00	112.55	95.06	32.85	21.80	14.50	9.37		
9	6.85	35.54	101.70	194.90	629.60	168.00	105.85	71.67	31.55	21.15	14.50	9.37		
10	6.46	30.25	77.20	158.00	531.60	147.00	98.38	64.62	31.55	20.50	13.93	9.37		
11	5.68	25.70	91.78	143.20	398.00	181.00	114.25	61.50	30.90	19.90	13.93	8.41		
12	6.07	51.50	79.63	133.30	456.80	148.00	127.00	60.06	30.90	19.90	13.36	8.41		
13	6.85	38.94	512.40	120.20	485.50	119.35	106.68	57.90	30.25	19.30	13.36	8.41		
14	8.80	27.00	522.00	235.60	459.60	159.00	87.73	55.02	29.60	19.30	12.79	8.41		
15	6.85	20.50	290.60	212.50	391.00	160.00	82.06	53.60	28.95	19.30	12.79	8.41		
16	12.79	21.80	193.80	164.00	309.40	154.00	93.40	51.50	28.95	19.30	12.79	8.41		
17	11.08	19.90	143.20	136.90	260.60	134.20	77.20	50.80	27.65	19.30	12.22	8.41		
18	10.51	20.50	119.35	565.20	317.20	166.00	76.41	50.80	27.65	19.30	12.22	8.41		
19	11.65	106.68	209.20	563.50	305.50	155.00	73.25	46.60	27.65	18.70	12.22	8.41		
20	12.22	155.00	289.40	514.00	267.80	151.00	60.06	45.20	27.00	18.70	11.65	8.41		
21	34.86	63.84	181.00	409.20	234.50	149.00	64.62	44.50	26.35	18.10	11.65	8.41		
22	31.55	100.04	168.00	413.40	229.00	150.00	86.11	43.80	26.35	18.10	11.65	8.41		
23	21.80	63.06	165.00	352.30	186.10	133.30	89.35	43.10	26.35	17.50	11.65	8.41		
24	16.30	43.10	110.85	313.30	162.00	123.60	85.30	42.40	25.70	17.50	11.65	8.41		
25	13.36	46.60	93.40	338.00	168.00	109.17	102.53	41.70	25.70	17.50	11.08	11.65		
26	10.51	54.30	79.63	295.40	185.00	100.87	76.41	41.00	25.70	16.90	11.08	12.22		
27	9.37	71.67	73.25	242.20	158.00	95.06	70.88	39.62	26.35	16.90	10.51	12.79		
28	12.22	104.19	73.25	204.80	178.00	91.78	72.46	36.90	27.65	16.30	10.51	11.65		
29	36.90	48.00	157.00	273.80	150.00	143.20	64.62	36.22	28.30	16.30		8.41		
30	45.90	47.30	125.30	386.80	125.30	118.50	65.40	35.54	26.35	16.30		8.41		
31		49.40		369.20	100.04		58.62		25.70	16.30		7.63		
Total	405.17	1497.67	4933.00	8002.95	9508.64	4224.33	2783.59	1730.34	915.92	607.80	368.14	288.19	35265.74	CMSDAY
Mean	13.51	48.31	164.43	258.16	306.73	140.81	89.79	57.68	29.55	19.61	13.15	9.30	96.62	CMS
Max	45.90	155.00	522.00	565.20	672.50	202.60	144.10	113.40	35.54	25.05	15.70	12.79	672.50	CMS
Min	5.68	19.90	73.25	97.55	100.04	91.78	58.62	35.54	25.70	16.30	10.51	7.63	5.68	CMS
Runoff	35.01	129.40	426.21	691.45	821.55	364.98	240.50	149.50	79.14	52.51	31.81	24.90	3046.96	MCM

Momentary Peak 1208.00 CMS. at 9.20 m. (A.D.) at 16.00 Hours , on Jun 13 , 2008

Runoff Yield 44.52 Liters/Second/Square KM. Momentary Peak Yield 556.68 Liters/Second/Square KM.

WATER YEAR : 2008

NAN RIVER BASIN

Khlong Huai ruaw at Ban Yang Yai, Nakhon Sawan (N.79)

Lat 15 - 52 - 32 N Long 100 - 08 - 16 E

Location : on left bank at Ban Yang Yai.

Ban Yang Yai **Amphoe** Kao Lieo **Changwat** Nakhon Sawan

Drainge Area	- 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 abutment of the bridge. **Elevation** +25.865 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 mean of 5 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Float	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records poor. Stage-discharge relation defined by 1 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

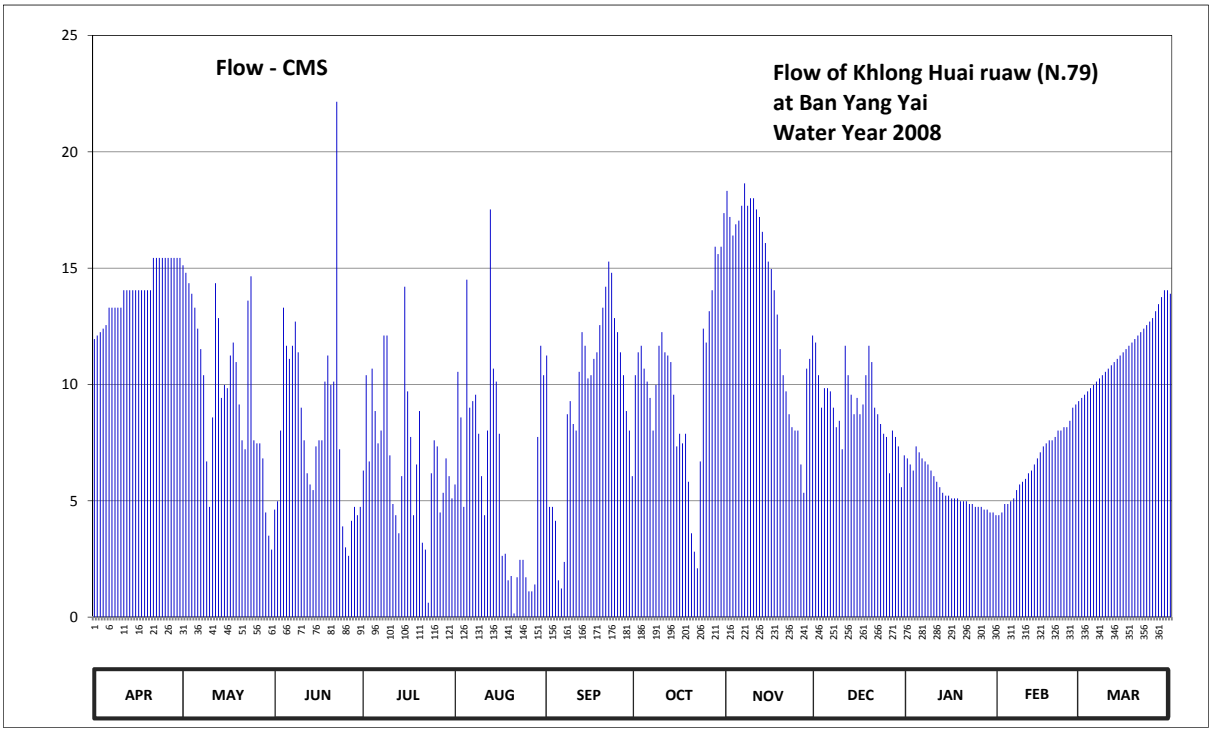
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.31	25.52	24.76	24.90	24.85	25.26	25.20	25.72	25.30	24.94	24.74	25.13	
2	25.32	25.50	24.79	25.20	25.21	24.77	25.27	25.65	25.20	24.92	24.75	25.14	
3	25.33	25.47	25.03	24.93	25.07	24.77	25.29	25.60	25.10	24.90	24.78	25.15	
4	25.34	25.44	25.40	25.22	24.77	24.72	25.22	25.63	25.16	24.98	24.78	25.16	
5	25.35	25.40	25.29	25.09	25.48	24.43	25.18	25.64	25.16	24.96	24.79	25.17	
6	25.40	25.34	25.25	24.99	25.10	24.37	25.13	25.68	25.15	24.94	24.80	25.18	
7	25.40	25.28	25.29	25.03	25.12	24.54	25.03	25.74	25.10	24.93	24.83	25.19	
8	25.40	25.20	25.36	25.32	25.14	25.08	25.17	25.68	25.04	24.92	24.85	25.20	
9	25.40	24.93	25.27	25.32	25.02	25.12	25.29	25.70	25.06	24.90	24.86	25.21	
10	25.40	24.77	25.10	24.95	24.88	25.05	25.33	25.70	24.97	24.88	24.87	25.22	
11	25.45	25.07	25.00	24.78	24.74	25.03	25.27	25.67	25.29	24.86	24.89	25.23	
12	25.45	25.47	24.89	24.74	25.03	25.21	25.26	25.65	25.20	24.84	24.90	25.24	
13	25.45	25.37	24.85	24.67	25.67	25.33	25.24	25.61	25.14	24.82	24.92	25.25	
14	25.45	25.13	24.83	24.88	25.22	25.29	25.14	25.58	25.08	24.81	24.94	25.26	
15	25.45	25.17	24.98	25.46	25.18	25.19	24.98	25.53	25.13	24.81	24.96	25.27	
16	25.45	25.16	25.00	25.15	25.02	25.20	25.02	25.51	25.08	24.80	24.98	25.28	
17	25.45	25.26	25.00	25.01	24.57	25.25	24.99	25.45	25.11	24.80	24.99	25.29	
18	25.45	25.30	25.18	24.74	24.58	25.27	25.02	25.38	25.20	24.80	25.00	25.30	
19	25.45	25.24	25.26	24.92	24.43	25.35	24.86	25.28	25.29	24.79	25.00	25.31	
20	25.45	25.11	25.17	25.09	24.46	25.40	24.67	25.20	25.24	24.79	25.01	25.32	
21	25.54	25.00	25.18	24.63	24.14	25.46	24.59	25.15	25.10	24.79	25.03	25.33	
22	25.54	24.97	25.95	24.60	24.45	25.53	24.51	25.08	25.08	24.78	25.03	25.34	
23	25.54	25.42	24.97	24.25	24.55	25.50	24.93	25.04	25.05	24.78	25.04	25.35	
24	25.54	25.49	24.70	24.89	24.55	25.37	25.34	25.03	25.02	24.77	25.04	25.36	
25	25.54	25.00	24.61	25.00	24.45	25.33	25.30	25.03	25.01	24.77	25.06	25.37	
26	25.54	24.99	24.57	24.98	24.35	25.27	25.39	24.92	24.89	24.77	25.10	25.39	
27	25.54	24.99	24.72	24.75	24.35	25.20	25.45	24.82	25.03	24.76	25.11	25.41	
28	25.54	24.94	24.77	24.82	24.40	25.09	25.57	25.22	25.01	24.76	25.12	25.43	
29	25.54	24.75	24.74	24.94	25.01	25.03	25.55	25.25	24.98	24.75		25.45	
30	25.54	24.66	24.77	24.88	25.29	24.88	25.57	25.32	24.84	24.75		25.45	
31		24.60		24.80	25.20		25.66		24.95	24.74		25.44	
Mean	25.45	25.16	25.02	24.93	24.85	25.11	25.17	25.42	25.10	24.83	24.93	25.28	
Max	25.54	25.52	25.95	25.46	25.67	25.53	25.66	25.74	25.30	24.98	25.12	25.45	25.95
Min	25.31	24.60	24.57	24.25	24.14	24.37	24.51	24.82	24.84	24.74	24.74	25.13	24.14

Annual Max Momentary Gage Height 25.98 m. (MSL.) , at 12.00 Hours , on Jun 22, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 22.98 m. (MSL.)

Left Bank Elevation 26.06 m. (MSL.) ,

Right Bank Elevation 26.25 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.95	15.12	4.62	6.30	5.70	11.24	10.40	18.32	11.80	6.82	4.38	9.42		
2	12.10	14.80	4.98	10.40	10.54	4.74	11.38	17.20	10.40	6.56	4.50	9.56		
3	12.25	14.35	8.02	6.69	8.58	4.74	11.66	16.40	9.00	6.30	4.86	9.70		
4	12.40	13.90	13.30	10.68	4.74	4.14	10.68	16.88	9.84	7.34	4.86	9.84		
5	12.55	13.30	11.66	8.86	14.50	1.58	10.12	17.04	9.84	7.08	4.98	9.98		
6	13.30	12.40	11.10	7.47	9.00	1.23	9.42	17.68	9.70	6.82	5.10	10.12		
7	13.30	11.52	11.66	8.02	9.28	2.37	8.02	18.64	9.00	6.69	5.46	10.26		
8	13.30	10.40	12.70	12.10	9.56	8.72	9.98	17.68	8.16	6.56	5.70	10.40		
9	13.30	6.69	11.38	12.10	7.88	9.28	11.66	18.00	8.44	6.30	5.82	10.54		
10	13.30	4.74	9.00	6.95	6.06	8.30	12.25	18.00	7.21	6.06	5.94	10.68		
11	14.05	8.58	7.60	4.86	4.38	8.02	11.38	17.52	11.66	5.82	6.18	10.82		
12	14.05	14.35	6.18	4.38	8.02	10.54	11.24	17.20	10.40	5.58	6.30	10.96		
13	14.05	12.85	5.70	3.60	17.52	12.25	10.96	16.56	9.56	5.34	6.56	11.10		
14	14.05	9.42	5.46	6.06	10.68	11.66	9.56	16.08	8.72	5.22	6.82	11.24		
15	14.05	9.98	7.34	14.20	10.12	10.26	7.34	15.28	9.42	5.22	7.08	11.38		
16	14.05	9.84	7.60	9.70	7.88	10.40	7.88	14.96	8.72	5.10	7.34	11.52		
17	14.05	11.24	7.60	7.74	2.63	11.10	7.47	14.05	9.14	5.10	7.47	11.66		
18	14.05	11.80	10.12	4.38	2.72	11.38	7.88	13.00	10.40	5.10	7.60	11.80		
19	14.05	10.96	11.24	6.56	1.58	12.55	5.82	11.52	11.66	4.98	7.60	11.95		
20	14.05	9.14	9.98	8.86	1.77	13.30	3.60	10.40	10.96	4.98	7.74	12.10		
21	15.44	7.60	10.12	3.20	0.16	14.20	2.81	9.70	9.00	4.98	8.02	12.25		
22	15.44	7.21	22.15	2.90	1.71	15.28	2.10	8.72	8.72	4.86	8.02	12.40		
23	15.44	13.60	7.21	0.62	2.46	14.80	6.69	8.16	8.30	4.86	8.16	12.55		
24	15.44	14.65	3.90	6.18	2.46	12.85	12.40	8.02	7.88	4.74	8.16	12.70		
25	15.44	7.60	3.00	7.60	1.71	12.25	11.80	8.02	7.74	4.74	8.44	12.85		
26	15.44	7.47	2.63	7.34	1.11	11.38	13.15	6.56	6.18	4.74	9.00	13.15		
27	15.44	7.47	4.14	4.50	1.11	10.40	14.05	5.34	8.02	4.62	9.14	13.45		
28	15.44	6.82	4.74	5.34	1.40	8.86	15.92	10.68	7.74	4.62	9.28	13.75		
29	15.44	4.50	4.38	6.82	7.74	8.02	15.60	11.10	7.34	4.50		14.05		
30	15.44	3.50	4.74	6.06	11.66	6.06	15.92	12.10	5.58	4.50		14.05		
31		2.90		5.10	10.40		17.36		6.95	4.38		13.90		
Total	422.65	308.70	244.25	215.57	195.06	281.90	316.50	410.81	277.48	170.51	190.51	360.13	3394.07	CMSDAY
Mean	14.09	9.96	8.14	6.95	6.29	9.40	10.21	13.69	8.95	5.50	6.80	11.62	9.30	CMS
Max	15.44	15.12	22.15	14.20	17.52	15.28	17.36	18.64	11.80	7.34	9.28	14.05	22.15	CMS
Min	11.95	2.90	2.63	0.62	0.16	1.23	2.10	5.34	5.58	4.38	4.38	9.42	0.16	CMS
Runoff	36.52	26.67	21.10	18.63	16.85	24.36	27.35	35.49	23.97	14.73	16.46	31.12	293.25	MCM

Momentary Peak 22.66 CMS. at 25.98 m. (MSL.) at 12.00 Hours , on Jun 22, 2008

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

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	1914 to date		
Rating Operation			
Period of Rating	1956 to date		
Rated by Float	-		
Rated by Current Meter	1956 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow effected by Phumiphol Dam, Sirikit Dam and Phrom Phiram Dam. Stage-discharge relation defined by 72 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

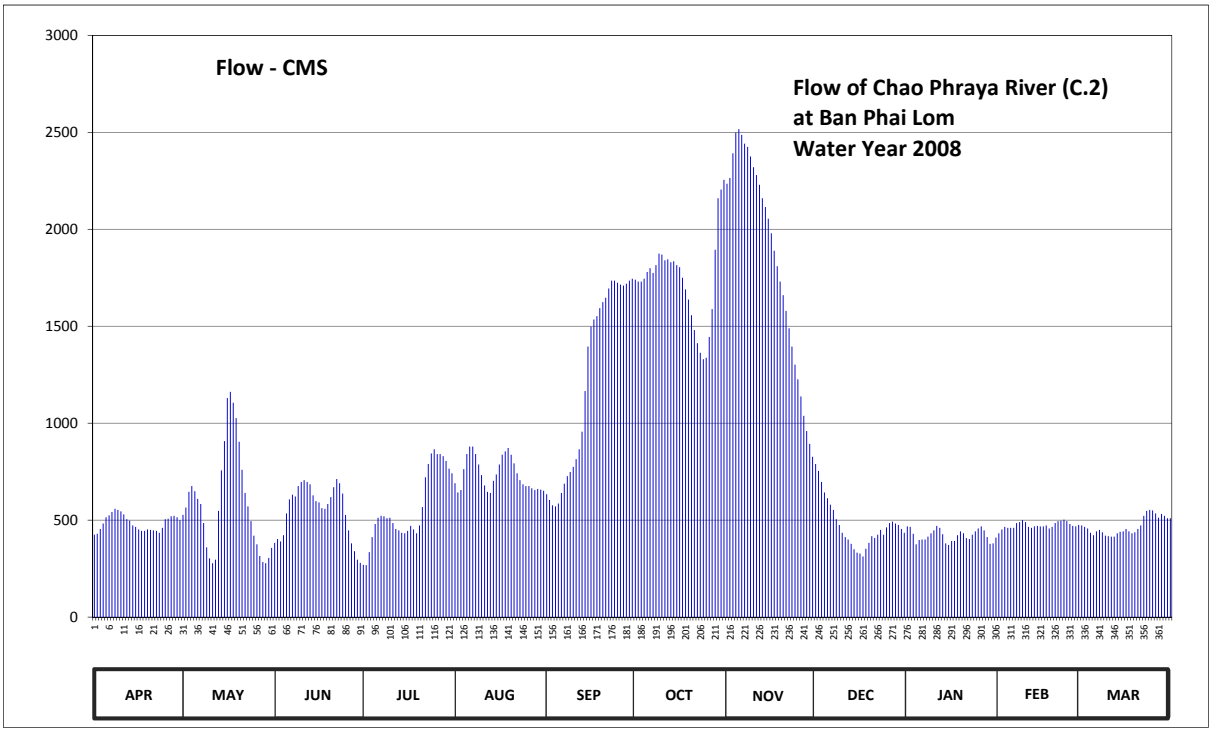
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.40	19.81	19.23	18.75	20.37	20.18	23.05	24.04	20.70	19.57	19.43	19.59	
2	19.42	19.95	19.31	18.74	20.21	20.08	23.03	24.10	20.58	19.56	19.51	19.56	
3	19.52	20.22	19.26	19.04	20.25	19.99	23.03	24.35	20.39	19.42	19.56	19.53	
4	19.63	20.32	19.39	19.35	20.61	19.97	23.06	24.54	20.21	19.20	19.54	19.44	
5	19.76	20.23	19.84	19.62	20.86	20.02	23.13	24.57	20.11	19.29	19.54	19.39	
6	19.80	20.10	20.09	19.75	20.97	20.20	23.17	24.52	20.00	19.30	19.54	19.47	
7	19.87	20.01	20.17	19.79	20.97	20.36	23.12	24.44	19.91	19.30	19.64	19.50	
8	19.93	19.64	20.14	19.78	20.86	20.49	23.20	24.41	19.72	19.36	19.66	19.45	
9	19.91	19.14	20.32	19.74	20.69	20.56	23.32	24.32	19.60	19.43	19.70	19.38	
10	19.88	18.91	20.39	19.75	20.51	20.65	23.31	24.21	19.44	19.49	19.66	19.37	
11	19.82	18.79	20.42	19.64	20.33	20.78	23.25	24.13	19.35	19.58	19.56	19.36	
12	19.72	18.88	20.39	19.52	20.22	20.93	23.26	24.03	19.30	19.54	19.54	19.36	
13	19.69	19.89	20.35	19.49	20.20	21.19	23.23	23.89	19.21	19.41	19.57	19.43	
14	19.59	20.59	20.16	19.44	20.41	21.74	23.24	23.80	19.10	19.22	19.58	19.46	
15	19.56	21.05	20.06	19.43	20.52	22.30	23.20	23.68	19.03	19.19	19.57	19.47	
16	19.51	21.65	20.04	19.48	20.69	22.53	23.18	23.53	19.01	19.27	19.57	19.52	
17	19.48	21.73	19.94	19.58	20.85	22.61	23.07	23.35	18.95	19.27	19.59	19.47	
18	19.48	21.59	19.93	19.51	20.90	22.65	22.95	23.19	19.11	19.39	19.53	19.43	
19	19.51	21.39	20.01	19.43	20.95	22.74	22.84	23.03	19.23	19.47	19.56	19.45	
20	19.50	21.04	20.13	19.59	20.85	22.81	22.66	22.89	19.37	19.43	19.64	19.52	
21	19.49	20.60	20.30	19.96	20.71	22.86	22.49	22.71	19.33	19.33	19.68	19.59	
22	19.48	20.20	20.44	20.47	20.54	22.96	22.34	22.51	19.40	19.31	19.69	19.79	
23	19.44	19.97	20.37	20.70	20.42	23.04	22.23	22.30	19.50	19.40	19.71	19.89	
24	19.54	19.68	20.19	20.87	20.35	23.04	22.15	22.08	19.40	19.47	19.68	19.91	
25	19.72	19.38	19.81	20.93	20.32	23.02	22.17	21.89	19.55	19.53	19.62	19.90	
26	19.73	19.20	19.49	20.86	20.32	23.00	22.41	21.67	19.64	19.57	19.58	19.84	
27	19.78	18.96	19.22	20.86	20.28	22.99	22.73	21.42	19.67	19.49	19.57	19.75	
28	19.79	18.82	19.06	20.83	20.25	23.01	23.36	21.20	19.63	19.35	19.60	19.83	
29	19.76	18.79	18.88	20.75	20.27	23.04	23.89	21.01	19.60	19.21		19.79	
30	19.70	18.92	18.80	20.62	20.26	23.06	23.98	20.82	19.52	19.22		19.74	
31		19.13		20.54	20.24		24.08		19.44	19.34		19.74	
Mean	19.65	19.95	19.87	19.90	20.52	21.76	23.04	23.22	19.58	19.38	19.59	19.58	
Max	19.93	21.73	20.44	20.93	20.97	23.06	24.08	24.57	20.70	19.58	19.71	19.91	24.57
Min	19.40	18.79	18.80	18.74	20.20	19.97	22.15	20.82	18.95	19.19	19.43	19.36	18.74

Annual Max Momentary Gage Height 24.58 m. (MSL.) , at 13.00 Hours , on Nov 5, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 13.76 m. (MSL.)

Left Bank Elevation 25.60 m. (MSL.) ,

Right Bank Elevation 26.36 m. (MSL.) , Drainage Are 109,973 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	425.00	527.50	382.50	270.00	691.00	634.00	1740.00	2235.00	790.00	467.50	432.50	472.50		
2	430.00	565.00	402.50	268.00	643.00	604.00	1730.00	2265.00	754.00	465.00	452.50	465.00		
3	455.00	646.00	390.00	335.00	655.00	577.00	1730.00	2392.50	697.00	430.00	465.00	457.50		
4	482.50	676.00	422.50	412.50	763.00	571.00	1745.00	2499.00	643.00	375.00	460.00	435.00		
5	515.00	649.00	535.00	480.00	841.00	586.00	1780.00	2517.00	613.00	397.50	460.00	422.50		
6	525.00	610.00	607.00	512.50	879.50	640.00	1800.00	2487.00	580.00	400.00	460.00	442.50		
7	542.50	583.00	631.00	522.50	879.50	688.00	1775.00	2442.00	553.00	400.00	485.00	450.00		
8	559.00	485.00	622.00	520.00	841.00	727.00	1815.00	2425.50	505.00	415.00	490.00	437.50		
9	553.00	360.00	676.00	510.00	787.00	748.00	1875.00	2376.00	475.00	432.50	500.00	420.00		
10	545.00	302.50	697.00	512.50	733.00	775.00	1870.00	2320.00	435.00	447.50	490.00	417.50		
11	530.00	278.00	706.00	485.00	679.00	814.00	1840.00	2280.00	412.50	470.00	465.00	415.00		
12	505.00	296.00	697.00	455.00	646.00	865.50	1845.00	2230.00	400.00	460.00	460.00	415.00		
13	497.50	547.50	685.00	447.50	640.00	956.50	1830.00	2160.00	377.50	427.50	467.50	432.50		
14	472.50	757.00	628.00	435.00	703.00	1166.00	1835.00	2115.00	350.00	380.00	470.00	440.00		
15	465.00	907.50	598.00	432.50	736.00	1395.00	1815.00	2055.00	332.50	372.50	467.50	442.50		
16	452.50	1130.00	592.00	445.00	787.00	1498.50	1805.00	1980.00	327.50	392.50	467.50	455.00		
17	445.00	1162.00	562.00	470.00	837.50	1534.50	1750.00	1890.00	312.50	392.50	472.50	442.50		
18	445.00	1106.00	559.00	452.50	855.00	1552.50	1690.00	1810.00	352.50	422.50	457.50	432.50		
19	452.50	1026.50	583.00	432.50	872.50	1593.00	1638.00	1730.00	382.50	442.50	465.00	437.50		
20	450.00	904.00	619.00	472.50	837.50	1624.50	1557.00	1660.50	417.50	432.50	485.00	455.00		
21	447.50	760.00	670.00	568.00	793.00	1647.00	1480.50	1579.50	407.50	407.50	495.00	472.50		
22	445.00	640.00	712.00	721.00	742.00	1695.00	1413.00	1489.50	425.00	402.50	497.50	522.50		
23	435.00	571.00	691.00	790.00	706.00	1735.00	1363.50	1395.00	450.00	425.00	502.50	547.50		
24	460.00	495.00	637.00	844.50	685.00	1735.00	1330.00	1302.00	425.00	442.50	495.00	553.00		
25	505.00	420.00	527.50	865.50	676.00	1725.00	1338.00	1226.00	462.50	457.50	480.00	550.00		
26	507.50	375.00	447.50	841.00	676.00	1715.00	1444.50	1138.00	485.00	467.50	470.00	535.00		
27	520.00	315.00	380.00	841.00	664.00	1710.00	1588.50	1038.00	492.50	447.50	467.50	512.50		
28	522.50	284.00	340.00	830.50	655.00	1720.00	1895.00	960.00	482.50	412.50	475.00	532.50		
29	515.00	278.00	296.00	805.00	661.00	1735.00	2160.00	893.50	475.00	377.50		522.50		
30	500.00	305.00	280.00	766.00	658.00	1745.00	2205.00	827.00	455.00	380.00		510.00		
31		357.50		742.00	652.00		2255.00		435.00	410.00		510.00		
Total	14604.50	18319.00	16575.50	17485.00	22874.50	36712.00	53938.00	55718.00	14705.00	13052.50	13255.00	14555.50	291794.50	CMSDAY
Mean	486.82	590.94	552.52	564.03	737.89	1223.73	1739.94	1857.27	474.35	421.05	473.39	469.53	799.44	CMS
Max	559.00	1162.00	712.00	865.50	879.50	1745.00	2255.00	2517.00	790.00	470.00	502.50	553.00	2517.00	CMS
Min	425.00	278.00	280.00	268.00	640.00	571.00	1330.00	827.00	312.50	372.50	432.50	415.00	268.00	CMS
Runoff	1261.83	1582.76	1432.12	1510.7	1976.36	3171.92	4660.24	4814.04	1270.51	1127.74	1145.23	1257.6	25211.04	MCM

Momentary Peak 2523.00 CMS. at 24.58 m. (MSL.) at 13.00 Hours , on Nov 5, 2008

Runoff Yield 7.27 Liters/Second/Square KM. Momentary Peak Yield 22.94 Liters/Second/Square KM.

WATER YEAR : 2008

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Klang Dad, Nakhon Sawan (C.2A)

Lat 15 - 37 - 56 N Long 100 - 06 - 03 E

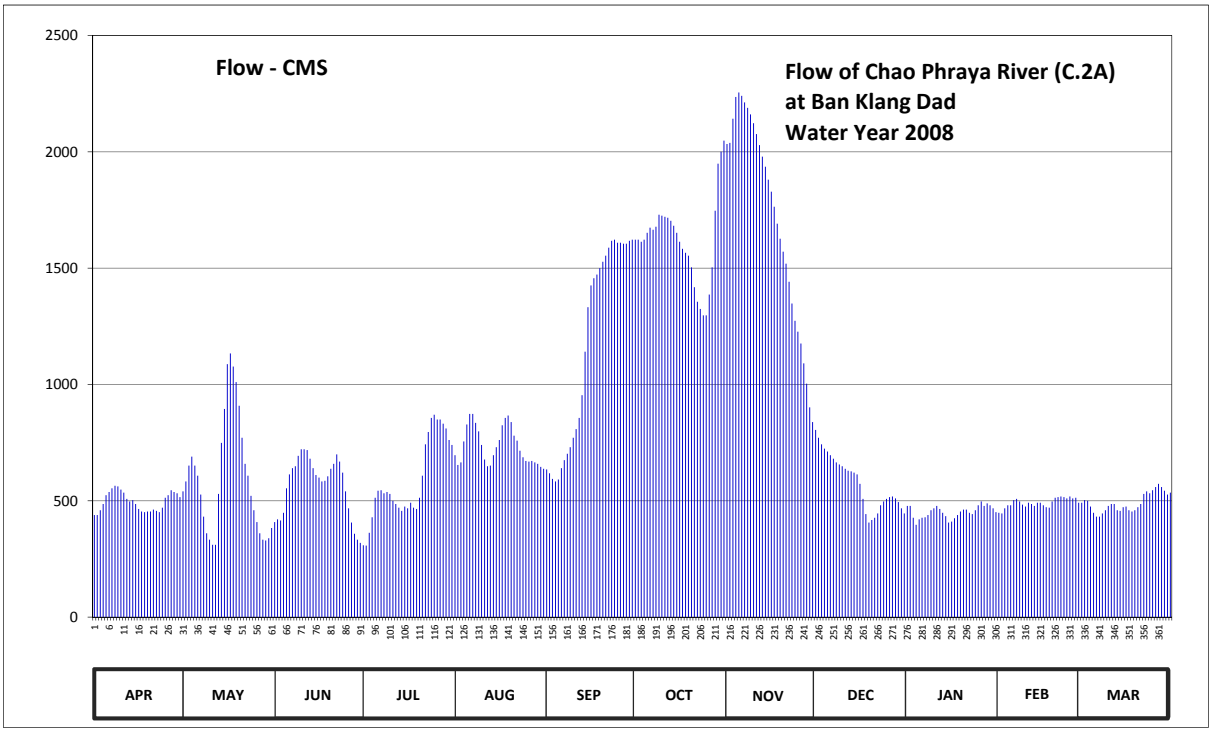
Location : on left bank at Ban Klang Dad.

	Ban Klang Dad	**Amphoe** Mueang	**Changwat** Nakhon Sawan
Drainge 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 near the gage site.		**Elevation** +24.220 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Float	-		
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 21 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.18	19.56	19.05	18.59	20.12	19.91	22.63	23.58	20.47	19.33	19.22	19.38	
2	19.18	19.72	19.10	18.58	19.98	19.85	22.63	23.59	20.36	19.33	19.21	19.42	
3	19.26	19.97	19.08	18.85	20.02	19.76	22.61	23.81	20.27	19.13	19.29	19.41	
4	19.36	20.10	19.22	19.14	20.31	19.72	22.63	24.01	20.21	19.00	19.34	19.32	
5	19.50	19.97	19.61	19.46	20.54	19.75	22.70	24.05	20.17	19.10	19.34	19.22	
6	19.55	19.81	19.83	19.57	20.67	19.93	22.75	24.02	20.12	19.13	19.42	19.15	
7	19.61	19.51	19.93	19.58	20.67	20.05	22.73	23.96	20.07	19.14	19.44	19.15	
8	19.65	19.15	19.96	19.53	20.56	20.14	22.76	23.91	20.02	19.18	19.40	19.21	
9	19.64	18.84	20.11	19.55	20.45	20.23	22.88	23.85	19.99	19.26	19.35	19.26	
10	19.59	18.71	20.20	19.52	20.26	20.36	22.87	23.77	19.96	19.29	19.32	19.33	
11	19.54	18.60	20.20	19.41	20.06	20.48	22.86	23.67	19.92	19.33	19.38	19.36	
12	19.44	18.60	20.19	19.36	19.96	20.62	22.85	23.57	19.89	19.28	19.36	19.36	
13	19.40	19.52	20.07	19.30	19.97	20.90	22.82	23.46	19.88	19.22	19.33	19.26	
14	19.42	20.29	19.93	19.25	20.12	21.42	22.77	23.36	19.86	19.16	19.38	19.25	
15	19.36	20.73	19.82	19.32	20.23	21.91	22.70	23.23	19.83	19.04	19.38	19.31	
16	19.28	21.28	19.78	19.29	20.33	22.15	22.61	23.11	19.68	19.06	19.34	19.32	
17	19.24	21.40	19.72	19.38	20.53	22.23	22.54	22.96	19.44	19.12	19.31	19.26	
18	19.23	21.25	19.73	19.30	20.62	22.27	22.50	22.79	19.20	19.18	19.30	19.24	
19	19.24	21.06	19.80	19.28	20.65	22.34	22.47	22.64	19.04	19.24	19.40	19.26	
20	19.24	20.77	19.92	19.46	20.57	22.41	22.35	22.51	19.09	19.27	19.46	19.31	
21	19.27	20.36	20.00	19.81	20.39	22.47	22.13	22.39	19.13	19.27	19.47	19.36	
22	19.25	20.00	20.13	20.27	20.32	22.55	21.97	22.19	19.21	19.22	19.48	19.52	
23	19.23	19.81	20.03	20.44	20.18	22.62	21.89	21.95	19.34	19.20	19.47	19.56	
24	19.30	19.49	19.86	20.62	20.09	22.63	21.82	21.76	19.40	19.26	19.45	19.53	
25	19.46	19.26	19.56	20.66	20.04	22.60	21.82	21.64	19.44	19.34	19.48	19.58	
26	19.50	19.05	19.29	20.60	20.03	22.60	22.05	21.51	19.47	19.40	19.45	19.63	
27	19.58	18.84	19.04	20.60	20.04	22.59	22.35	21.29	19.48	19.33	19.46	19.68	
28	19.55	18.71	18.83	20.55	20.02	22.59	22.92	21.04	19.45	19.37	19.38	19.63	
29	19.53	18.69	18.71	20.49	20.00	22.62	23.39	20.75	19.39	19.34		19.57	
30	19.47	18.74	18.64	20.33	19.95	22.63	23.51	20.57	19.29	19.29		19.51	
31		18.94		20.26	19.92		23.61		19.21	19.23		19.54	
Mean	19.40	19.70	19.64	19.69	20.25	21.41	22.62	22.83	19.69	19.23	19.38	19.38	
Max	19.65	21.40	20.20	20.66	20.67	22.63	23.61	24.05	20.47	19.40	19.48	19.68	24.05
Min	19.18	18.60	18.64	18.58	19.92	19.72	21.82	20.57	19.04	19.00	19.21	19.15	18.58

Annual Max Momentary Gage Height	24.06	m. (MSL.) ,	at 06.00 Hours , on Nov 5, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	14.44	m. (MSL.)
Left Bank Elevation	24.60	m. (MSL.) ,			
Right Bank Elevation	24.79	m. (MSL.) ,	Drainage Are	-	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	438.40	540.20	408.50	309.00	696.20	634.70	1621.90	2033.60	804.70	478.10	448.40	491.60		
2	438.40	583.40	420.00	307.00	653.60	618.50	1621.90	2038.30	770.60	478.10	445.70	502.40		
3	459.20	650.90	415.40	362.50	665.20	594.20	1613.30	2141.70	742.70	426.90	467.30	499.70		
4	486.20	690.00	448.40	429.20	755.10	583.40	1621.90	2235.70	724.10	397.00	480.80	475.40		
5	524.00	650.90	553.70	513.20	828.00	591.50	1652.00	2254.50	711.70	420.00	480.80	448.40		
6	537.50	607.70	613.10	542.90	873.50	640.10	1673.50	2240.40	696.20	426.90	502.40	431.50		
7	553.70	526.70	640.10	545.60	873.50	674.50	1664.90	2212.20	680.70	429.20	507.80	431.50		
8	564.50	431.50	648.20	532.10	835.00	702.40	1677.80	2188.70	665.20	438.40	497.00	445.70		
9	561.80	360.20	693.10	537.50	798.50	730.30	1729.40	2160.50	656.30	459.20	483.50	459.20		
10	548.30	333.00	721.00	529.40	739.60	770.60	1725.10	2122.90	648.20	467.30	475.40	478.10		
11	534.80	311.00	721.00	499.70	677.60	807.80	1720.80	2075.90	637.40	478.10	491.60	486.20		
12	507.80	311.00	717.90	486.20	648.20	856.00	1716.50	2028.90	629.30	464.60	486.20	486.20		
13	497.00	529.40	680.70	470.00	650.90	954.00	1703.60	1978.80	626.60	448.40	478.10	459.20		
14	502.40	748.90	640.10	456.50	696.20	1140.80	1682.10	1935.80	621.20	433.80	491.60	456.50		
15	486.20	894.50	610.40	475.40	730.30	1331.90	1652.00	1879.90	613.10	406.20	491.60	472.70		
16	464.60	1087.00	599.60	467.30	761.30	1425.50	1613.30	1828.30	572.60	410.80	480.80	475.40		
17	453.80	1133.00	583.40	491.60	824.50	1456.70	1583.20	1763.80	507.80	424.60	472.70	459.20		
18	451.10	1076.50	586.10	470.00	856.00	1472.30	1566.00	1690.70	443.00	438.40	470.00	453.80		
19	453.80	1010.00	605.00	464.60	866.50	1499.60	1553.10	1626.20	406.20	453.80	497.00	459.20		
20	453.80	908.50	637.40	513.20	838.50	1527.30	1503.50	1570.30	417.70	461.90	513.20	472.70		
21	461.90	770.60	659.00	607.70	779.90	1553.10	1417.70	1519.10	426.90	461.90	515.90	486.20		
22	456.50	659.00	699.30	742.70	758.20	1587.50	1355.30	1441.10	445.70	448.40	518.60	529.40		
23	451.10	607.70	668.30	795.40	714.80	1617.60	1324.10	1347.50	480.80	443.00	515.90	540.20		
24	470.00	521.30	621.20	856.00	686.90	1621.90	1296.80	1273.40	497.00	459.20	510.50	532.10		
25	513.20	459.20	540.20	870.00	671.40	1609.00	1296.80	1226.60	507.80	480.80	518.60	545.60		
26	524.00	408.50	467.30	849.00	668.30	1609.00	1386.50	1175.90	515.90	497.00	510.50	559.10		
27	545.60	360.20	406.20	849.00	671.40	1604.70	1503.50	1090.50	518.60	478.10	513.20	572.60		
28	537.50	333.00	357.90	831.50	665.20	1604.70	1746.60	1003.00	510.50	488.90	491.60	559.10		
29	532.10	329.00	333.00	810.90	659.00	1617.60	1948.70	901.50	494.30	480.80		542.90		
30	515.90	339.00	319.00	761.30	645.50	1621.90	2000.70	838.50	467.30	467.30		526.70		
31		383.20		739.60	637.40		2047.70		445.70	451.10		534.80		
Total	14925.10	18555.00	17014.50	18116.00	22826.20	35059.10	50220.20	51824.20	17885.80	13998.20	13756.70	15273.30	289454.30	CMSDAY
Mean	497.50	598.55	567.15	584.39	736.33	1168.64	1620.01	1727.47	576.96	451.55	491.31	492.69	793.03	CMS
Max	564.50	1133.00	721.00	870.00	873.50	1621.90	2047.70	2254.50	804.70	497.00	518.60	572.60	2254.50	CMS
Min	438.40	311.00	319.00	307.00	637.40	583.40	1296.80	838.50	406.20	397.00	445.70	431.50	307.00	CMS
Runoff	1289.53	1603.15	1470.05	1565.22	1972.18	3029.11	4339.03	4477.61	1545.33	1209.44	1188.58	1319.61	25008.85	MCM

Momentary Peak 2259.20 CMS. at 24.06 m. (MSL.) at 06.00 Hours , on Nov 5, 2008

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

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	1950 to date		
Rating Operation			
Period of Rating	1950 to date		
Rated by Float	-		
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 55 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

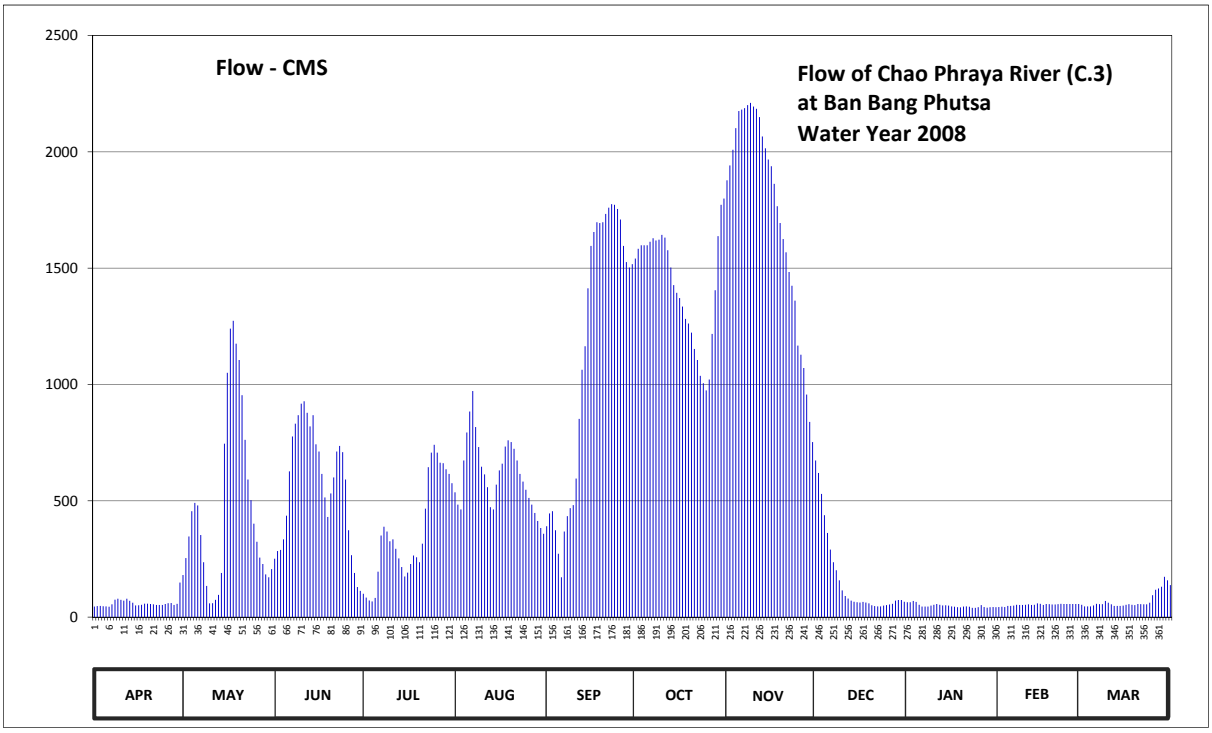
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.14	3.37	3.84	2.72	5.41	4.66	9.29	10.41	6.03	2.37	2.12	2.24	
2	2.17	3.86	4.06	2.58	5.15	4.95	9.43	10.61	5.79	2.37	2.13	2.15	
3	2.18	4.43	4.09	2.47	5.04	5.00	9.48	10.82	5.38	2.44	2.12	2.15	
4	2.16	5.00	4.36	2.42	6.03	4.57	9.48	11.11	4.91	2.39	2.18	2.15	
5	2.15	5.19	4.90	2.57	6.53	3.98	9.48	11.34	4.51	2.24	2.18	2.20	
6	2.13	5.13	5.82	3.47	6.89	3.31	9.53	11.36	4.10	2.14	2.19	2.29	
7	2.26	4.46	6.46	4.45	7.23	4.54	9.58	11.38	3.74	2.14	2.24	2.27	
8	2.51	3.74	6.69	4.65	6.63	4.89	9.55	11.42	3.51	2.14	2.23	2.27	
9	2.54	3.00	6.83	4.54	6.27	5.07	9.56	11.45	3.20	2.19	2.23	2.44	
10	2.50	2.31	7.02	4.31	5.91	5.14	9.63	11.40	2.84	2.24	2.24	2.35	
11	2.46	2.32	7.06	4.36	5.76	5.68	9.59	11.37	2.64	2.28	2.26	2.26	
12	2.54	2.50	6.87	4.12	5.51	6.77	9.41	11.26	2.55	2.24	2.23	2.18	
13	2.45	2.68	6.64	3.85	5.09	7.58	9.16	11.00	2.46	2.20	2.24	2.18	
14	2.35	3.43	6.83	3.60	5.04	7.95	8.89	10.84	2.40	2.21	2.31	2.18	
15	2.20	6.33	6.32	3.33	5.56	8.84	8.77	10.69	2.37	2.19	2.29	2.19	
16	2.21	7.53	6.19	3.44	5.84	9.47	8.69	10.60	2.36	2.15	2.23	2.24	
17	2.24	8.22	5.77	3.69	5.97	9.67	8.56	10.36	2.39	2.13	2.28	2.27	
18	2.30	8.34	5.31	3.93	6.28	9.81	8.37	10.04	2.36	2.11	2.27	2.24	
19	2.30	7.99	4.87	3.88	6.39	9.80	8.30	9.80	2.31	2.10	2.25	2.22	
20	2.28	7.74	5.39	3.74	6.36	9.81	8.16	9.57	2.21	2.14	2.25	2.28	
21	2.26	7.16	5.70	4.25	6.24	9.93	7.91	9.38	2.17	2.15	2.27	2.27	
22	2.23	6.40	6.19	5.06	6.03	10.02	7.74	9.09	2.15	2.13	2.29	2.26	
23	2.23	5.66	6.29	5.90	5.77	10.07	7.48	8.88	2.15	2.07	2.28	2.26	
24	2.23	5.25	6.18	6.17	5.62	10.06	7.36	8.65	2.19	2.07	2.28	2.35	
25	2.28	4.72	5.66	6.31	5.46	10.00	7.24	7.96	2.22	2.11	2.28	2.67	
26	2.32	4.30	4.57	6.17	5.30	9.85	7.42	7.82	2.25	2.22	2.28	2.86	
27	2.33	3.87	3.94	5.99	5.15	9.47	8.14	7.61	2.29	2.12	2.28	2.91	
28	2.23	3.69	3.43	5.98	4.96	9.24	8.81	7.17	2.46	2.08	2.28	2.97	
29	2.29	3.39	2.96	5.86	4.78	9.16	9.61	6.72	2.49	2.11		3.32	
30	3.12	3.31	2.82	5.77	4.62	9.21	10.06	6.36	2.49	2.12		3.20	
31		3.54		5.59	4.49		10.15		2.40	2.11		3.03	
Mean	2.32	4.80	5.44	4.36	5.72	7.62	8.87	9.88	3.01	2.18	2.24	2.41	
Max	3.12	8.34	7.06	6.31	7.23	10.07	10.15	11.45	6.03	2.44	2.31	3.32	11.45
Min	2.13	2.31	2.82	2.42	4.49	3.31	7.24	6.36	2.15	2.07	2.12	2.15	2.07

Annual Max Momentary Gage Height 11.46 m. (MSL.) , at 06.00 Hours , on Nov 9, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -2.32 m. (MSL.)

Left Bank Elevation 11.70 m. (MSL.) ,

Right Bank Elevation 12.04 m. (MSL.) , Drainage Are 118,752 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	45.20	180.50	251.00	100.40	536.20	390.40	1541.00	1877.20	673.20	63.60	43.60	53.20		
2	47.60	254.00	284.00	83.60	483.50	445.50	1583.00	1941.20	619.80	63.60	44.40	46.00		
3	48.40	346.70	288.50	71.60	462.60	455.00	1598.00	2008.40	529.60	69.20	43.60	46.00		
4	46.80	455.00	334.20	67.60	673.20	373.30	1598.00	2101.20	437.90	65.20	48.40	46.00		
5	46.00	491.10	436.00	82.40	793.20	272.00	1598.00	2174.80	361.90	53.20	48.40	50.00		
6	44.40	479.70	626.40	195.50	883.40	171.50	1613.00	2181.20	290.00	45.20	49.20	57.20		
7	54.80	352.40	776.40	350.50	971.80	367.60	1628.00	2187.60	236.00	45.20	53.20	55.60		
8	75.20	236.00	831.60	388.50	817.20	434.10	1619.00	2200.40	201.50	45.20	52.40	55.60		
9	78.80	134.00	867.80	367.60	730.80	468.30	1622.00	2210.00	158.00	49.20	52.40	69.20		
10	74.00	58.80	917.20	325.70	646.20	481.60	1643.00	2194.00	114.80	53.20	53.20	62.00		
11	70.80	59.60	927.60	334.20	613.20	595.60	1631.00	2184.40	90.80	56.40	54.80	54.80		
12	78.80	74.00	878.20	293.40	558.20	852.20	1577.00	2149.20	80.00	53.20	52.40	48.40		
13	70.00	95.60	819.60	252.50	472.10	1062.80	1502.80	2066.00	70.80	50.00	53.20	48.40		
14	62.00	189.50	867.80	215.00	462.60	1164.00	1427.20	2014.80	66.00	50.80	58.80	48.40		
15	50.00	745.20	742.80	174.50	569.20	1413.20	1393.60	1966.80	63.60	49.20	57.20	49.20		
16	50.80	1049.80	711.60	191.00	630.80	1595.00	1371.20	1938.00	62.80	46.00	52.40	53.20		
17	53.20	1239.60	615.40	228.50	659.40	1655.00	1334.80	1862.00	65.20	44.40	56.40	55.60		
18	58.00	1273.20	514.20	264.50	733.20	1697.00	1281.60	1766.00	62.80	42.80	55.60	53.20		
19	58.00	1175.20	430.30	257.00	759.60	1694.00	1262.00	1694.00	58.80	42.00	54.00	51.60		
20	56.40	1105.20	531.80	236.00	752.40	1697.00	1222.80	1625.00	50.80	45.20	54.00	56.40		
21	54.80	953.60	600.00	315.50	723.60	1733.00	1152.80	1568.00	47.60	46.00	55.60	55.60		
22	52.40	762.00	711.60	466.40	673.20	1760.00	1105.20	1483.20	46.00	44.40	57.20	54.80		
23	52.40	591.20	735.60	644.00	615.40	1775.00	1036.80	1424.40	46.00	39.60	56.40	54.80		
24	52.40	502.50	709.20	706.80	582.40	1772.00	1005.60	1360.00	49.20	39.60	56.40	62.00		
25	56.40	401.80	591.20	740.40	547.20	1754.00	974.40	1166.80	51.60	42.80	56.40	94.40		
26	59.60	324.00	373.30	706.80	512.00	1709.00	1021.20	1127.60	54.00	51.60	56.40	117.20		
27	60.40	255.50	266.00	663.80	483.50	1595.00	1217.20	1070.60	57.20	43.60	56.40	123.20		
28	52.40	228.50	189.50	661.60	447.40	1526.00	1404.80	956.20	70.80	40.40	56.40	130.40		
29	57.20	183.50	129.20	635.20	413.20	1502.80	1637.00	839.20	73.20	42.80		173.00		
30	148.40	171.50	112.40	615.40	382.80	1517.00	1772.00	752.40	73.20	43.60		158.00		
31		206.00		575.80	358.10		1799.00		66.00	42.80		137.60		
Total	1815.60	14575.20	17070.40	11211.70	18947.60	33928.90	44173.00	52090.60	4929.10	1510.00	1488.80	2221.00	203961.90	CMSDAY
Mean	60.52	470.17	569.01	361.67	611.21	1130.96	1424.94	1736.35	159.00	48.71	53.17	71.65	558.80	CMS
Max	148.40	1273.20	927.60	740.40	971.80	1775.00	1799.00	2210.00	673.20	69.20	58.80	173.00	2210.00	CMS
Min	44.40	58.80	112.40	67.60	358.10	171.50	974.40	752.40	46.00	39.60	43.60	46.00	39.60	CMS
Runoff	156.87	1259.3	1474.88	968.69	1637.07	2931.46	3816.55	4500.63	425.87	130.46	128.63	191.89	17622.31	MCM

Momentary Peak 2213.20 CMS. at 11.46 m. (MSL.) at 06.00 Hours , on Nov 9, 2008

Runoff Yield 4.71 Liters/Second/Square KM. Momentary Peak Yield 18.64 Liters/Second/Square KM.

WATER YEAR : 2008

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

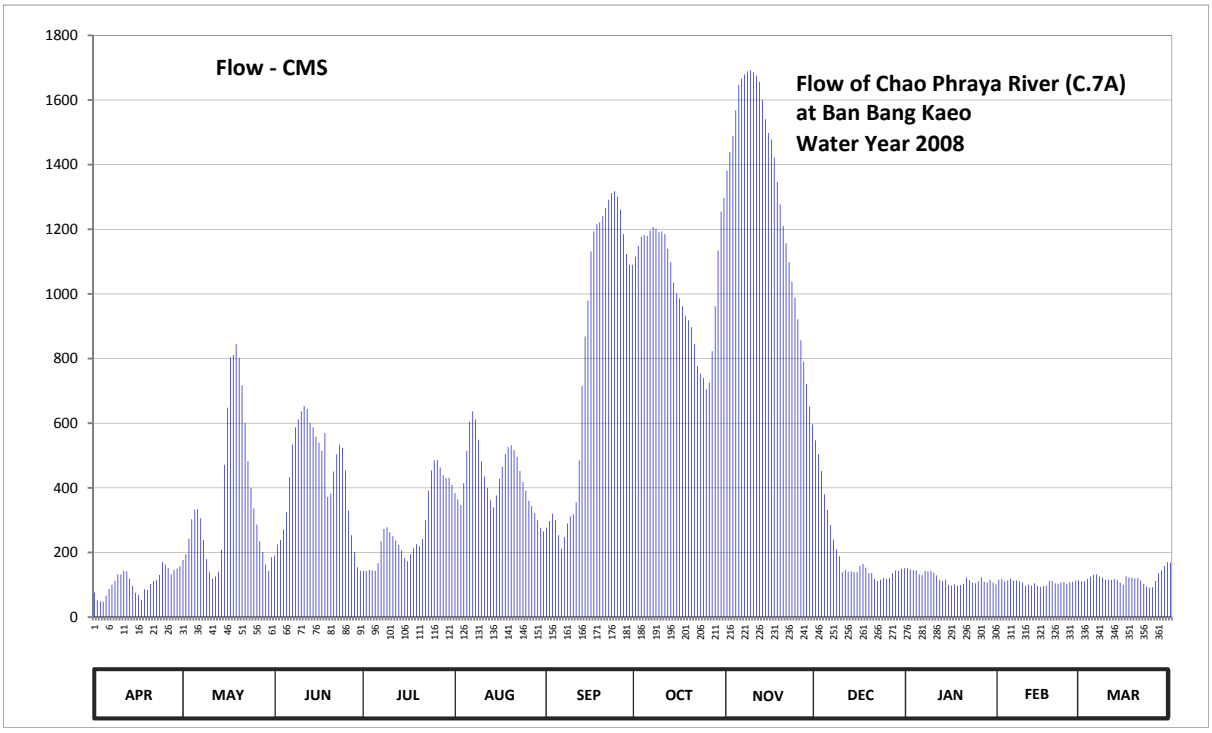
Location : on left bank at Ban Bang Kaco

	Ban Bang Keao	**Amphoe** Mueang		**Changwat** Ang Thong	
Drainge 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 gage site			**Elevation**	+8.633 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 Float	-				
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 34 discharge measurements made in 2008.				

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.52	1.27	1.37	1.03	2.61	1.94	5.99	6.93	3.48	1.09	0.83	0.79	
2	0.30	1.40	1.60	1.03	2.50	2.08	6.11	7.13	3.25	1.06	0.85	0.79	
3	0.27	1.72	1.69	1.05	2.39	2.23	6.21	7.30	2.98	1.04	0.79	0.85	
4	0.26	2.12	1.91	1.04	2.78	2.10	6.23	7.56	2.59	1.04	0.81	0.90	
5	0.43	2.31	2.26	1.03	3.31	1.79	6.22	7.81	2.30	0.95	0.85	0.94	
6	0.61	2.32	2.88	1.20	3.78	1.51	6.28	7.87	2.00	0.94	0.81	0.95	
7	0.71	2.14	3.41	1.66	3.95	1.75	6.32	7.91	1.70	1.03	0.81	0.91	
8	0.80	1.69	3.69	1.92	3.82	2.03	6.30	7.94	1.50	1.02	0.79	0.88	
9	0.95	1.29	3.82	1.95	3.49	2.18	6.26	7.95	1.35	1.03	0.76	0.83	
10	0.95	1.00	3.95	1.85	3.14	2.22	6.27	7.93	1.00	0.99	0.68	0.83	
11	1.03	0.85	4.04	1.77	2.89	2.44	6.24	7.90	1.05	0.93	0.71	0.82	
12	1.02	0.91	3.99	1.68	2.70	3.15	6.08	7.84	1.01	0.83	0.69	0.85	
13	0.85	1.01	3.76	1.59	2.48	4.35	5.93	7.66	1.02	0.80	0.74	0.82	
14	0.69	1.49	3.69	1.48	2.35	5.01	5.70	7.47	1.00	0.83	0.68	0.76	
15	0.51	3.08	3.54	1.31	2.57	5.47	5.57	7.33	1.00	0.70	0.66	0.71	
16	0.45	4.01	3.44	1.24	2.85	6.05	5.50	7.26	1.14	0.69	0.68	0.91	
17	0.31	4.74	3.31	1.40	3.05	6.27	5.40	7.07	1.18	0.72	0.69	0.88	
18	0.60	4.77	3.60	1.52	3.26	6.35	5.27	6.81	1.10	0.69	0.80	0.88	
19	0.58	4.91	2.54	1.60	3.37	6.37	5.22	6.57	0.98	0.70	0.80	0.86	
20	0.73	4.73	2.60	1.56	3.40	6.44	5.13	6.33	0.98	0.73	0.74	0.87	
21	0.80	4.36	2.97	1.71	3.32	6.53	4.91	6.14	0.85	0.88	0.73	0.81	
22	0.82	3.76	3.25	2.10	3.21	6.62	4.62	5.93	0.80	0.82	0.77	0.73	
23	0.94	3.14	3.41	2.65	2.98	6.69	4.52	5.71	0.83	0.76	0.78	0.66	
24	1.22	2.70	3.36	2.99	2.80	6.71	4.46	5.51	0.87	0.74	0.73	0.63	
25	1.17	2.33	2.99	3.15	2.65	6.65	4.30	5.23	0.85	0.79	0.77	0.65	
26	1.09	2.01	2.29	3.16	2.47	6.51	4.40	4.96	0.87	0.88	0.78	0.80	
27	0.95	1.66	1.79	3.04	2.37	6.24	4.82	4.68	0.98	0.78	0.81	0.98	
28	1.05	1.44	1.44	2.91	2.24	6.02	5.40	4.38	1.04	0.76	0.81	1.04	
29	1.08	1.17	1.11	2.87	2.10	5.90	6.06	4.03	1.03	0.83		1.14	
30	1.13	1.03	1.03	2.87	1.94	5.90	6.49	3.74	1.08	0.76		1.22	
31		1.33		2.75	1.87		6.64		1.09	0.72		1.21	
Mean	0.76	2.34	2.82	1.91	2.86	4.52	5.64	6.63	1.38	0.86	0.76	0.87	
Max	1.22	4.91	4.04	3.16	3.95	6.71	6.64	7.95	3.48	1.09	0.85	1.22	7.95
Min	0.26	0.85	1.03	1.03	1.87	1.51	4.30	3.74	0.80	0.69	0.66	0.63	0.26

Annual Max Momentary Gage Height	7.96	m. (MSL.) ,	at 20.00 Hours , on Nov 8, 2008		
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	8.23	m. (MSL.) ,	Drainage Area	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	76.40	176.80	190.80	143.20	383.80	276.00	1115.20	1381.70	547.20	151.60	115.90	110.70		
2	52.00	195.00	225.00	143.20	365.00	297.00	1148.80	1439.70	503.50	147.40	118.50	110.70		
3	48.70	243.00	238.50	146.00	346.30	319.80	1176.80	1489.00	452.20	144.60	110.70	118.50		
4	47.60	303.00	271.50	144.60	414.40	300.00	1182.40	1568.60	380.30	144.60	113.30	125.00		
5	66.30	332.70	324.60	143.20	514.90	253.50	1179.60	1647.20	331.00	132.00	118.50	130.60		
6	87.30	334.40	433.20	167.00	604.20	211.50	1196.40	1666.40	285.00	130.60	113.30	132.00		
7	100.30	306.00	533.90	234.00	636.50	247.50	1207.60	1679.20	240.00	143.20	113.30	126.40		
8	112.00	238.50	587.10	273.00	611.80	289.50	1202.00	1688.80	210.00	141.80	110.70	122.40		
9	132.00	179.60	611.80	277.50	549.10	312.00	1190.80	1692.00	188.00	143.20	106.80	115.90		
10	132.00	139.00	636.50	262.50	482.60	318.20	1193.60	1685.60	139.00	137.60	96.40	115.90		
11	143.20	118.50	653.60	250.50	435.10	354.80	1185.20	1676.00	146.00	129.20	100.30	114.60		
12	141.80	126.40	644.10	237.00	400.00	484.50	1140.40	1656.80	140.40	115.90	97.70	118.50		
13	118.50	140.40	600.40	223.50	361.60	715.50	1098.40	1599.60	141.80	112.00	104.20	114.60		
14	97.70	208.50	587.10	207.00	339.50	868.40	1035.00	1540.70	139.00	115.90	96.40	106.80		
15	75.20	471.20	558.60	182.40	376.90	978.80	1002.80	1498.00	139.00	99.00	93.80	100.30		
16	68.50	647.90	539.60	172.60	427.50	1132.00	986.00	1477.40	158.60	97.70	96.40	126.40		
17	53.10	804.20	514.90	195.00	465.50	1193.60	962.00	1422.30	164.20	101.60	97.70	122.40		
18	86.00	811.10	570.00	213.00	505.40	1216.00	930.80	1346.90	153.00	97.70	112.00	122.40		
19	83.60	844.40	371.80	225.00	526.30	1221.60	918.80	1277.60	136.20	99.00	112.00	119.80		
20	102.90	801.90	382.00	219.00	532.00	1241.20	897.20	1210.40	136.20	102.90	104.20	121.10		
21	112.00	717.60	450.30	241.50	516.80	1266.40	844.40	1157.20	118.50	122.40	102.90	113.30		
22	114.60	600.40	503.50	300.00	495.90	1291.80	776.60	1098.40	112.00	114.60	108.10	102.90		
23	130.60	482.60	533.90	391.00	452.20	1312.10	753.60	1037.70	115.90	106.80	109.40	93.80		
24	169.80	400.00	524.40	454.10	418.00	1317.90	739.80	988.40	121.10	104.20	102.90	89.90		
25	162.80	336.10	454.10	484.50	391.00	1300.50	705.00	921.20	118.50	110.70	108.10	92.50		
26	151.60	286.50	329.40	486.40	359.90	1260.80	726.00	856.40	121.10	122.40	109.40	112.00		
27	132.00	234.00	253.50	463.60	342.90	1185.20	822.80	790.40	136.20	109.40	113.30	136.20		
28	146.00	201.00	201.00	438.90	321.40	1123.60	962.00	721.80	144.60	106.80	113.30	144.60		
29	150.20	162.80	154.40	431.30	300.00	1090.00	1134.80	651.70	143.20	115.90		158.60		
30	157.20	143.20	143.20	431.30	276.00	1090.00	1255.20	596.60	150.20	106.80		169.80		
31		185.20		409.00	265.50		1297.60		151.60	101.60		168.40		
Total	3251.90	11171.90	13022.70	8590.80	13418.00	24469.70	31967.60	39463.70	6163.50	3709.10	2999.50	3757.00	161985.40	CMSDAY
Mean	108.40	360.38	434.09	277.12	432.84	815.66	1031.21	1315.46	198.82	119.65	107.13	121.19	443.80	CMS
Max	169.80	844.40	653.60	486.40	636.50	1317.90	1297.60	1692.00	547.20	151.60	118.50	169.80	1692.00	CMS
Min	47.60	118.50	143.20	143.20	265.50	211.50	705.00	596.60	112.00	97.70	93.80	89.90	47.60	CMS
Runoff	280.96	965.25	1125.16	742.25	1159.32	2114.18	2762	3409.66	532.53	320.47	259.16	324.6	13995.54	MCM

Momentary Peak 1695.20 CMS. at 7.96 m. (MSL.) at 20.00 Hours , on Nov 8, 2008

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

WATER YEAR : 2008

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Bang Luang, Chai Nat (C.13)

Lat 15 - 19 - 57 N Long 100 - 11 - 32 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

Drainge 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 mean 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 Float	-
Rated by Current Meter	1953 - 1962, 1965 - 1968, 1972 - 1975 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Chao Phraya Dam above gage site. Stage-discharge relation defined by 40 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

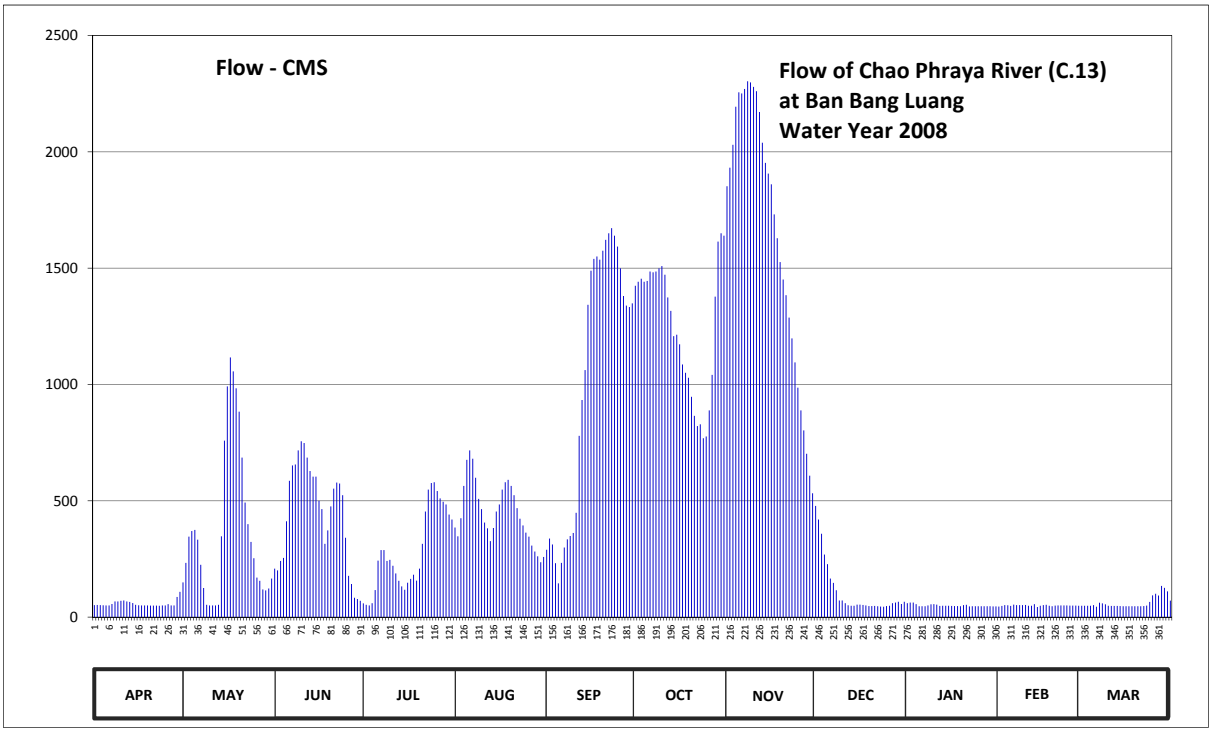
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.02	7.29	7.80	6.15	8.95	8.36	13.00	14.18	9.45	6.16	5.91	5.98	
2	6.04	7.98	7.75	6.05	8.72	8.66	13.05	14.37	9.14	6.21	5.96	5.97	
3	6.03	8.71	8.04	6.00	9.17	8.50	13.09	14.60	8.79	6.21	6.02	5.97	
4	6.01	8.86	8.13	6.16	9.88	7.97	13.05	14.96	8.23	6.09	6.01	5.97	
5	6.00	8.89	9.10	6.96	10.40	7.25	13.06	15.09	7.94	5.93	5.96	6.02	
6	6.00	8.63	9.99	8.05	10.57	7.98	13.18	15.08	7.46	5.93	6.06	5.89	
7	6.11	7.92	10.29	8.35	10.42	8.42	13.17	15.12	7.27	5.93	6.02	6.20	
8	6.29	7.05	10.31	8.35	10.05	8.64	13.18	15.19	6.95	6.00	6.02	6.15	
9	6.29	6.05	10.57	8.04	9.60	8.73	13.22	15.18	6.35	6.08	6.02	6.08	
10	6.33	6.00	10.73	8.07	9.38	8.81	13.25	15.14	6.35	6.09	6.04	5.97	
11	6.35	6.00	10.70	7.89	9.07	9.30	13.14	15.10	6.16	6.06	5.98	5.96	
12	6.29	6.00	10.44	7.65	8.93	10.82	12.85	14.91	6.01	5.96	5.97	5.96	
13	6.26	6.05	10.18	7.36	8.59	11.41	12.67	14.62	5.98	5.97	6.09	5.96	
14	6.18	8.72	10.07	7.12	8.94	11.86	12.33	14.42	5.98	5.97	5.86	5.95	
15	6.05	10.74	10.07	6.97	9.33	12.75	12.35	14.31	6.06	5.97	5.97	5.94	
16	6.01	11.62	9.56	7.28	9.48	13.19	12.22	14.20	6.06	5.96	6.03	5.94	
17	6.00	12.04	9.38	7.44	9.80	13.34	11.94	13.87	6.04	5.95	6.05	5.94	
18	6.00	11.84	8.52	7.60	9.96	13.37	11.82	13.59	6.00	5.95	5.97	5.94	
19	6.00	11.59	8.88	7.37	10.01	13.33	11.75	13.30	5.95	5.94	5.93	5.94	
20	5.99	11.22	9.44	7.80	9.88	13.44	11.46	13.08	5.95	6.02	5.99	5.94	
21	5.99	10.44	9.82	8.52	9.68	13.57	11.15	12.88	5.96	6.05	6.00	5.94	
22	5.99	9.52	9.95	9.33	9.40	13.65	10.98	12.58	5.93	5.92	6.00	5.95	
23	5.97	9.03	9.93	9.80	9.16	13.71	11.01	12.30	5.91	5.93	6.00	5.99	
24	6.00	8.57	9.68	9.94	9.00	13.62	10.78	11.97	5.89	5.93	6.00	6.25	
25	6.00	8.12	8.68	9.96	8.82	13.49	10.81	11.60	5.95	5.93	5.99	6.66	
26	6.09	7.50	7.56	9.77	8.71	13.22	11.24	11.24	5.98	5.93	5.99	6.76	
27	6.00	7.36	7.22	9.61	8.47	12.87	11.79	10.91	6.16	5.93	5.99	6.65	
28	6.00	6.99	6.52	9.54	8.31	12.74	12.86	10.51	6.21	5.93	5.98	7.14	
29	6.57	6.94	6.44	9.48	8.18	12.72	13.55	10.09	6.27	5.93		7.06	
30	6.87	7.03	6.33	9.26	8.00	12.77	13.65	9.72	6.10	5.92		6.90	
31		7.46		9.14	8.16		13.62		6.27	5.92		6.34	
Mean	6.12	8.46	9.07	8.10	9.26	11.28	12.43	13.47	6.60	5.99	5.99	6.17	
Max	6.87	12.04	10.73	9.96	10.57	13.71	13.65	15.19	9.45	6.21	6.09	7.14	15.19
Min	5.97	6.00	6.33	6.00	8.00	7.25	10.78	9.72	5.89	5.92	5.86	5.89	5.86

Annual Max Momentary Gage Height 15.25 m. (MSL.) , at 22.00 Hours , on Nov 8, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 1.45 m. (MSL.)

Left Bank Elevation 16.75 m. (MSL.) ,

Right Bank Elevation 16.33 m. (MSL.) , Drainage Are 117,187 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	51.20	149.00	208.00	59.00	385.00	289.60	1424.00	1852.00	478.00	59.60	45.50	49.00		
2	52.40	233.20	201.00	53.00	347.20	337.60	1441.00	1931.40	419.20	62.60	48.00	48.50		
3	51.80	345.60	241.60	50.00	424.60	312.00	1454.60	2030.00	358.40	62.60	51.20	48.50		
4	50.60	369.60	254.20	59.60	564.00	231.80	1441.00	2193.60	268.80	55.40	50.60	48.50		
5	50.00	374.40	412.00	116.40	676.00	145.00	1444.40	2255.20	227.60	46.50	48.00	51.20		
6	50.00	332.80	586.00	243.00	716.80	233.20	1485.20	2250.40	166.00	46.50	53.60	44.50		
7	56.60	224.80	651.80	288.00	680.80	299.20	1481.80	2269.60	147.00	46.50	51.20	62.00		
8	67.40	125.00	656.20	288.00	599.00	334.40	1485.20	2303.20	115.50	50.00	51.20	59.00		
9	67.40	53.00	716.80	241.60	508.00	348.80	1498.80	2298.40	71.50	54.80	51.20	54.80		
10	70.10	50.00	755.80	245.80	464.00	361.60	1509.00	2279.20	71.50	55.40	52.40	48.50		
11	71.50	50.00	748.00	220.60	406.60	448.00	1471.60	2260.00	59.60	53.60	49.00	48.00		
12	67.40	50.00	685.60	188.00	381.40	779.20	1374.00	2170.60	50.60	48.00	48.50	48.00		
13	65.60	53.00	627.60	156.00	326.40	932.80	1316.40	2038.80	49.00	48.50	55.40	48.00		
14	60.80	347.20	603.40	132.00	383.20	1062.00	1207.60	1952.40	49.00	48.50	43.00	47.50		
15	53.00	758.40	603.40	117.30	454.00	1342.00	1214.00	1906.20	53.60	48.50	48.50	47.00		
16	50.60	991.60	500.00	148.00	484.00	1488.60	1172.40	1860.00	53.60	48.00	51.80	47.00		
17	50.00	1116.00	464.00	164.00	548.00	1539.60	1086.00	1730.60	52.40	47.50	53.00	47.00		
18	50.00	1056.00	315.20	182.00	580.00	1549.80	1050.00	1628.40	50.00	47.50	48.50	47.00		
19	50.00	983.20	372.80	157.00	590.20	1536.20	1029.00	1526.00	47.50	47.00	46.50	47.00		
20	49.50	883.20	476.00	208.00	564.00	1574.40	946.80	1451.20	47.50	51.20	49.50	47.00		
21	49.50	685.60	552.00	315.20	524.00	1621.20	865.00	1383.60	48.00	53.00	50.00	47.00		
22	49.50	492.00	578.00	454.00	468.00	1650.00	820.80	1287.60	46.50	46.00	50.00	47.50		
23	48.50	399.40	574.00	548.00	422.80	1671.60	828.60	1198.00	45.50	46.50	50.00	49.50		
24	50.00	323.20	524.00	576.00	394.00	1639.20	768.80	1095.00	44.50	46.50	50.00	65.00		
25	50.00	252.80	340.80	580.00	363.20	1592.40	776.60	986.00	47.50	46.50	49.50	93.20		
26	55.40	170.00	177.20	542.00	345.60	1498.80	888.40	888.40	49.00	46.50	49.50	100.20		
27	50.00	156.00	142.00	510.00	307.20	1380.40	1041.00	802.60	59.60	46.50	49.50	92.50		
28	50.00	119.10	83.40	496.00	281.60	1338.80	1377.20	702.40	62.60	46.50	49.00	134.00		
29	86.90	114.60	77.80	484.00	261.20	1332.40	1614.00	607.80	66.20	46.50		126.00		
30	108.60	123.00	70.10	440.80	236.00	1348.40	1650.00	532.00	56.00	46.00		111.00		
31		166.00		419.20	258.40		1639.20		66.20	46.00		70.80		
Total	1734.30	11547.70	13198.70	8682.50	13945.20	30219.00	38802.40	49670.60	3427.90	1544.70	1394.10	1924.70	176091.80	CMSDAY
Mean	57.81	372.51	439.96	280.08	449.85	1007.30	1251.69	1655.69	110.58	49.83	49.79	62.09	482.44	CMS
Max	108.60	1116.00	755.80	580.00	716.80	1671.60	1650.00	2303.20	478.00	62.60	55.40	134.00	2303.20	CMS
Min	48.50	50.00	70.10	50.00	236.00	145.00	768.80	532.00	44.50	46.00	43.00	44.50	43.00	CMS
Runoff	149.84	997.72	1140.37	750.17	1204.87	2610.92	3352.53	4291.54	296.17	133.46	120.45	166.29	15214.33	MCM

Momentary Peak 2332.00 CMS. at 15.25 m. (MSL.) at 22.00 Hours , on Nov 8, 2008

Runoff Yield 4.12 Liters/Second/Square KM. Momentary Peak Yield 19.90 Liters/Second/Square KM.

WATER YEAR : 2008

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

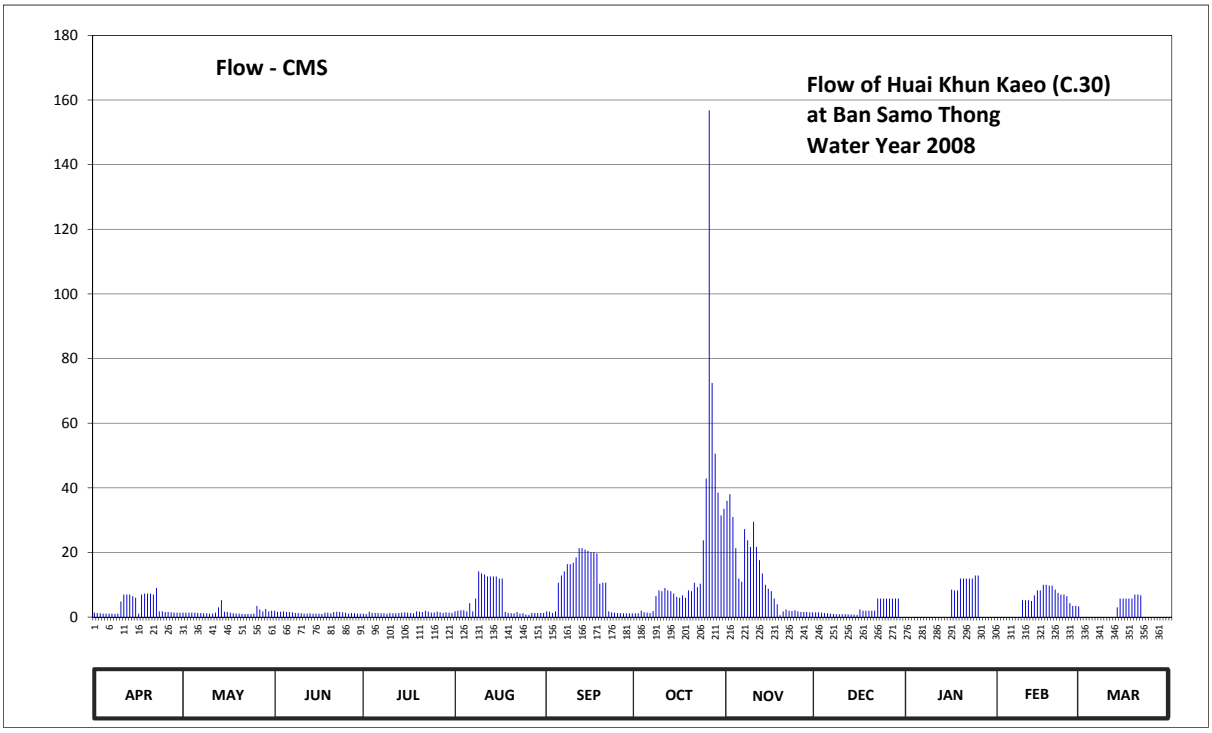
Location : on right bank in front of Wat Samo Thong School

	Ban Samo Thong	**Amphoe** Huai Khot	**Changwat** Uthai Thani
Drainge 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** +113.280 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 mean of 5 readings		
Period of Available Gage Records	1982 to date		
Rating Operation			
Period of Rating	1983 to date		
Rated by Float	-		
Rated by Current Meter	1983 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 10 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	102.14	102.14	102.20	102.11	102.18	102.18	102.12	103.24	102.15	102.00	101.92	101.92	
2	102.13	102.14	102.17	102.10	102.20	102.17	102.12	103.28	102.15	102.00	101.92	101.92	
3	102.12	102.14	102.17	102.17	102.21	102.13	102.20	103.14	102.14	102.00	101.92	101.92	
4	102.11	102.14	102.18	102.13	102.21	102.18	102.15	102.92	102.13	102.00	101.92	101.92	
5	102.11	102.14	102.16	102.13	102.18	102.62	102.14	102.66	102.12	102.00	101.92	101.92	
6	102.11	102.13	102.16	102.13	102.36	102.69	102.13	102.63	102.11	101.98	101.92	101.92	
7	102.11	102.13	102.15	102.12	102.18	102.73	102.19	103.06	102.10	101.91	101.92	101.92	
8	102.10	102.12	102.13	102.12	102.43	102.80	102.46	102.98	102.09	101.90	101.92	101.91	
9	102.11	102.12	102.13	102.11	102.73	102.80	102.53	102.93	102.09	101.90	102.41	101.91	
10	102.39	102.11	102.12	102.13	102.71	102.81	102.52	103.11	102.09	101.90	102.41	101.91	
11	102.48	102.11	102.11	102.12	102.70	102.85	102.56	102.93	102.09	101.90	102.41	101.91	
12	102.48	102.14	102.11	102.12	102.68	102.92	102.53	102.83	102.09	101.89	102.40	101.91	
13	102.48	102.28	102.12	102.13	102.68	102.92	102.52	102.71	102.08	101.89	102.47	102.28	
14	102.46	102.41	102.11	102.14	102.68	102.91	102.49	102.60	102.08	101.89	102.53	102.43	
15	102.44	102.17	102.11	102.15	102.68	102.90	102.45	102.55	102.07	101.88	102.53	102.43	
16	102.11	102.16	102.11	102.14	102.66	102.89	102.44	102.52	102.23	102.54	102.60	102.43	
17	102.48	102.14	102.10	102.13	102.66	102.89	102.47	102.43	102.20	102.53	102.60	102.43	
18	102.49	102.12	102.14	102.12	102.16	102.88	102.44	102.34	102.20	102.53	102.59	102.43	
19	102.49	102.11	102.14	102.18	102.13	102.61	102.53	102.06	102.20	102.66	102.59	102.48	
20	102.49	102.11	102.12	102.17	102.12	102.62	102.52	102.18	102.20	102.66	102.54	102.48	
21	102.48	102.10	102.16	102.16	102.12	102.62	102.62	102.23	102.20	102.66	102.50	102.47	
22	102.56	102.10	102.17	102.20	102.16	102.18	102.57	102.20	102.43	102.66	102.48	101.94	
23	102.18	102.10	102.16	102.17	102.11	102.15	102.61	102.19	102.43	102.66	102.48	101.94	
24	102.18	102.10	102.15	102.14	102.12	102.14	102.98	102.21	102.43	102.69	102.46	101.93	
25	102.16	102.11	102.14	102.14	102.08	102.13	103.37	102.18	102.43	102.69	102.36	101.93	
26	102.16	102.31	102.11	102.17	102.07	102.12	104.84	102.16	102.43	101.96	102.31	101.93	
27	102.15	102.23	102.13	102.15	102.13	102.12	103.85	102.16	102.43	101.95	102.31	101.98	
28	102.14	102.18	102.12	102.13	102.13	102.12	103.51	102.16	102.43	101.94	102.30	101.96	
29	102.14	102.24	102.11	102.15	102.13	102.12	103.29	102.15	102.43	101.93		101.94	
30	102.14	102.18	102.11	102.14	102.13	102.12	103.15	102.15	101.93	101.93		101.93	
31		102.20		102.13	102.13		103.19		101.86	101.93		101.92	
Mean	102.27	102.16	102.14	102.14	102.32	102.51	102.69	102.56	102.19	102.16	102.31	102.07	
Max	102.56	102.41	102.20	102.20	102.73	102.92	104.84	103.28	102.43	102.69	102.60	102.48	104.84
Min	102.10	102.10	102.10	102.10	102.07	102.12	102.12	102.06	101.86	101.88	101.92	101.91	101.86

Annual Max Momentary Gage Height	104.98	m. (MSL.) ,	at 06.00 Hours , on Oct 26, 2008		
Zero Gage at Bottom Elevation	101.53	m. (MSL.) ,	River Bed	101.55	m. (MSL.)
Left Bank Elevation	112.81	m. (MSL.) ,			
Right Bank Elevation	112.46	m. (MSL.) ,	Drainage Are	227	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.40	1.40	2.00	1.10	1.80	1.80	1.20	36.00	1.50	0.00	0.00	0.00		
2	1.30	1.40	1.70	1.00	2.00	1.70	1.20	38.00	1.50	0.00	0.00	0.00		
3	1.20	1.40	1.70	1.70	2.13	1.30	2.00	31.00	1.40	0.00	0.00	0.00		
4	1.10	1.40	1.80	1.30	2.13	1.80	1.50	21.32	1.30	0.00	0.00	0.00		
5	1.10	1.40	1.60	1.30	1.80	10.64	1.40	11.92	1.20	0.00	0.00	0.00		
6	1.10	1.30	1.60	1.30	4.32	12.88	1.30	10.96	1.10	0.00	0.00	0.00		
7	1.10	1.30	1.50	1.20	1.80	14.16	1.90	27.24	1.00	0.00	0.00	0.00		
8	1.00	1.20	1.30	1.20	5.75	16.40	6.50	23.78	0.90	0.00	0.00	0.00		
9	1.10	1.20	1.30	1.10	14.16	16.40	8.25	21.73	0.90	0.00	5.25	0.00		
10	4.83	1.10	1.20	1.30	13.52	16.81	8.00	29.50	0.90	0.00	5.25	0.00		
11	7.00	1.10	1.10	1.20	13.20	18.45	9.00	21.73	0.90	0.00	5.25	0.00		
12	7.00	1.40	1.10	1.20	12.56	21.32	8.25	17.63	0.90	0.00	5.00	0.00		
13	7.00	3.04	1.20	1.30	12.56	21.32	8.00	13.52	0.80	0.00	6.75	3.04		
14	6.50	5.25	1.10	1.40	12.56	20.91	7.25	10.00	0.80	0.00	8.25	5.75		
15	6.00	1.70	1.10	1.50	12.56	20.50	6.25	8.75	0.70	0.00	8.25	5.75		
16	1.10	1.60	1.10	1.40	11.92	20.09	6.00	8.00	2.39	8.50	10.00	5.75		
17	7.00	1.40	1.00	1.30	11.92	20.09	6.75	5.75	2.00	8.25	10.00	5.75		
18	7.25	1.20	1.40	1.20	1.60	19.68	6.00	3.98	2.00	8.25	9.75	5.75		
19	7.25	1.10	1.40	1.80	1.30	10.32	8.25	0.60	2.00	11.92	9.75	7.00		
20	7.25	1.10	1.20	1.70	1.20	10.64	8.00	1.80	2.00	11.92	8.50	7.00		
21	7.00	1.00	1.60	1.60	1.20	10.64	10.64	2.39	2.00	11.92	7.50	6.75		
22	9.00	1.00	1.70	2.00	1.60	1.80	9.25	2.00	5.75	11.92	7.00	0.00		
23	1.80	1.00	1.60	1.70	1.10	1.50	10.32	1.90	5.75	11.92	7.00	0.00		
24	1.80	1.00	1.50	1.40	1.20	1.40	23.78	2.13	5.75	12.88	6.50	0.00		
25	1.60	1.10	1.40	1.40	0.80	1.30	42.85	1.80	5.75	12.88	4.32	0.00		
26	1.60	3.47	1.10	1.70	0.70	1.20	156.80	1.60	5.75	0.00	3.47	0.00		
27	1.50	2.39	1.30	1.50	1.30	1.20	72.50	1.60	5.75	0.00	3.47	0.00		
28	1.40	1.80	1.20	1.30	1.30	1.20	50.60	1.60	5.75	0.00	3.30	0.00		
29	1.40	2.52	1.10	1.50	1.30	1.20	38.50	1.50	5.75	0.00		0.00		
30	1.40	1.80	1.10	1.40	1.30	1.20	31.50	1.50	0.00	0.00		0.00		
31		2.00		1.30	1.30		33.50		0.00	0.00		0.00		
Total	107.08	51.07	41.00	43.30	153.89	299.85	587.24	361.23	74.19	110.36	134.56	52.54	2016.31	CMSDAY
Mean	3.57	1.65	1.37	1.40	4.96	9.99	18.94	12.04	2.39	3.56	4.81	1.69	5.52	CMS
Max	9.00	5.25	2.00	2.00	14.16	21.32	156.80	38.00	5.75	12.88	10.00	7.00	156.80	CMS
Min	1.00	1.00	1.00	1.00	0.70	1.20	1.20	0.60	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	9.25	4.41	3.54	3.74	13.30	25.91	50.74	31.21	6.41	9.54	11.63	4.54	174.21	MCM

Momentary Peak 170.10 CMS. at 104.98 m. (MSL.) at 06.00 Hours , on Oct 26, 2008

Runoff Yield 24.34 Liters/Second/Square KM. Momentary Peak Yield 749.34 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	2005 to date		
Rating Operation			
Period of Rating	2005 to date		
Rated by Float	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Fairly stable		
Overbank Flow Conditions	Overbank flow starts at elevation +12.990 m.(MSL.) and is including overbank flow.		
General Description	Records good. Stage-discharge relation defined by 45 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

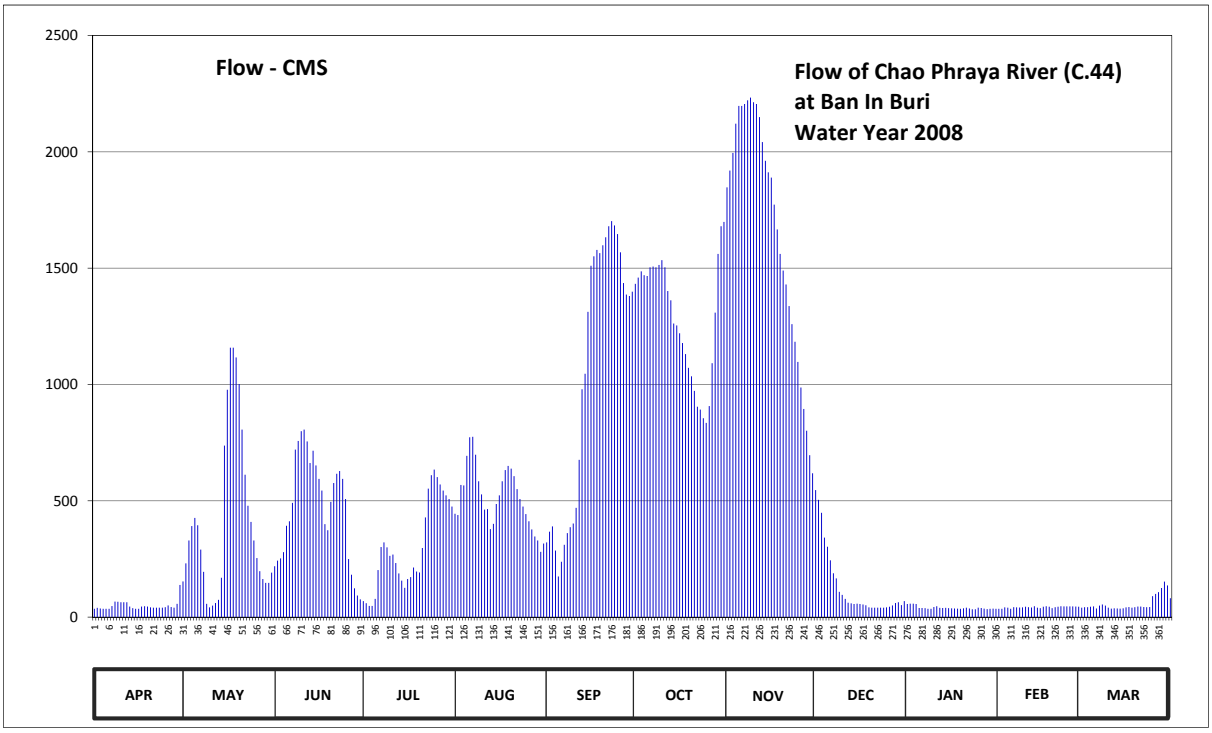
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.00	5.25	5.79	4.43	7.28	6.52	11.37	12.55	7.84	4.28	4.00	4.07	
2	4.06	5.88	5.96	4.32	7.25	6.82	11.45	12.74	7.61	4.30	4.00	4.11	
3	4.02	6.58	6.03	4.18	7.95	6.96	11.53	12.94	7.30	4.30	4.10	4.11	
4	4.00	6.97	6.22	4.18	7.94	6.27	11.48	13.26	6.66	4.28	4.08	4.13	
5	4.00	7.18	6.98	4.55	8.57	5.44	11.47	13.45	6.39	4.05	4.00	4.15	
6	4.00	6.99	7.10	5.67	8.93	5.93	11.58	13.45	5.97	4.05	4.11	4.02	
7	4.17	6.30	7.54	6.38	8.94	6.45	11.59	13.47	5.57	4.04	4.10	4.19	
8	4.41	5.62	8.69	6.52	8.59	6.78	11.58	13.51	5.37	4.00	4.09	4.25	
9	4.40	4.29	8.86	6.37	8.03	6.94	11.61	13.54	4.84	4.00	4.10	4.19	
10	4.37	4.10	9.05	6.11	7.74	7.04	11.67	13.49	4.72	4.12	4.13	4.07	
11	4.37	4.19	9.08	6.15	7.38	7.42	11.58	13.47	4.55	4.16	4.11	4.01	
12	4.37	4.33	8.85	5.89	7.39	8.49	11.27	13.33	4.35	4.06	4.09	4.03	
13	4.14	4.50	8.42	5.56	6.89	9.79	11.14	13.06	4.31	4.05	4.16	4.02	
14	4.04	5.39	8.67	5.28	7.03	10.04	10.81	12.85	4.28	4.06	4.07	4.01	
15	4.00	8.77	8.37	5.00	7.51	10.98	10.78	12.72	4.30	4.04	4.04	4.03	
16	4.00	9.78	8.08	5.34	7.72	11.60	10.66	12.66	4.28	4.03	4.13	4.10	
17	4.14	10.44	7.83	5.42	8.03	11.72	10.51	12.35	4.25	4.02	4.16	4.12	
18	4.16	10.44	7.02	5.75	8.27	11.80	10.34	12.06	4.21	4.01	4.13	4.08	
19	4.14	10.29	6.86	5.63	8.36	11.76	10.13	11.75	4.10	3.99	4.04	4.11	
20	4.10	9.88	7.56	5.60	8.30	11.86	10.00	11.54	4.08	4.03	4.11	4.14	
21	4.08	9.08	7.99	6.35	8.14	11.96	9.76	11.36	4.08	4.08	4.13	4.14	
22	4.08	8.17	8.19	7.19	7.86	12.10	9.49	11.06	4.08	4.02	4.16	4.12	
23	4.08	7.47	8.25	7.87	7.63	12.16	9.44	10.80	4.07	3.96	4.15	4.11	
24	4.08	7.08	8.08	8.16	7.45	12.11	9.29	10.53	4.07	3.96	4.15	4.12	
25	4.11	6.58	7.63	8.28	7.27	12.00	9.21	10.22	4.10	4.08	4.15	4.67	
26	4.20	6.04	6.01	8.12	7.10	11.77	9.50	9.82	4.13	4.05	4.15	4.76	
27	4.12	5.64	5.51	7.96	6.88	11.38	10.20	9.45	4.20	4.01	4.14	4.83	
28	4.07	5.34	4.98	7.83	6.69	11.22	10.97	9.06	4.33	3.97	4.13	4.99	
29	4.29	5.19	4.70	7.72	6.58	11.20	11.75	8.58	4.37	4.00		5.24	
30	5.11	5.19	4.53	7.63	6.23	11.26	12.10	8.20	4.22	4.01		5.09	
31		5.59		7.45	6.49		12.15		4.43	4.00		4.59	
Mean	4.17	6.73	7.29	6.22	7.63	9.59	10.85	11.91	4.87	4.06	4.10	4.28	
Max	5.11	10.44	9.08	8.28	8.94	12.16	12.15	13.54	7.84	4.30	4.16	5.24	13.54
Min	4.00	4.10	4.53	4.18	6.23	5.44	9.21	8.20	4.07	3.96	4.00	4.01	3.96

Annual Max Momentary Gage Height 13.55 m. (MSL.) , at 06.00 Hours , on Nov 9, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 2.27 m. (MSL.)

Left Bank Elevation 12.99 m. (MSL.) ,

Right Bank Elevation 13.59 m. (MSL.) , Drainage Are 118,510 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	36.00	153.50	218.60	68.40	444.40	320.80	1432.70	1847.00	546.00	56.40	36.00	40.20		
2	39.60	231.20	242.40	59.60	439.00	367.20	1459.00	1919.20	503.80	58.00	36.00	42.80		
3	37.20	329.20	252.20	48.40	568.00	389.60	1486.20	1995.20	448.00	58.00	42.00	42.80		
4	36.00	391.20	278.80	48.40	566.00	285.80	1469.20	2121.00	341.60	56.40	40.80	44.40		
5	36.00	426.40	392.80	78.00	693.40	174.40	1465.80	2197.00	302.60	39.00	36.00	46.00		
6	36.00	394.40	412.00	201.80	772.60	238.20	1503.20	2197.00	243.80	39.00	42.80	37.20		
7	47.60	290.00	491.20	301.20	774.80	311.00	1506.60	2205.00	188.70	38.40	42.00	49.20		
8	66.80	194.80	719.80	320.80	697.80	360.80	1503.20	2221.00	166.70	36.00	41.40	54.00		
9	66.00	57.20	757.20	299.80	584.00	386.40	1513.40	2233.00	108.40	36.00	42.00	49.20		
10	63.60	42.00	799.00	263.40	527.20	402.40	1533.80	2213.00	95.20	43.60	44.40	40.20		
11	63.60	49.20	805.60	269.00	462.40	469.60	1503.20	2205.00	78.00	46.80	42.80	36.60		
12	63.60	60.40	755.00	232.60	464.20	676.00	1401.70	2149.00	62.00	39.60	41.40	37.80		
13	45.20	74.00	662.00	187.60	378.40	979.50	1361.40	2041.70	58.80	39.00	46.80	37.20		
14	38.40	168.90	715.40	156.80	400.80	1046.20	1261.80	1961.00	56.40	39.60	40.20	36.60		
15	36.00	737.40	652.00	126.00	485.80	1311.80	1253.40	1911.60	58.00	38.40	38.40	37.80		
16	36.00	977.00	594.00	163.40	523.60	1510.00	1219.80	1888.80	56.40	37.80	44.40	42.00		
17	45.20	1158.20	544.00	172.20	584.00	1550.80	1177.80	1772.50	54.00	37.20	46.80	43.60		
18	46.80	1158.20	399.20	213.00	632.00	1578.00	1130.20	1666.40	50.80	36.60	44.40	40.80		
19	45.20	1116.20	373.60	196.20	650.00	1564.40	1071.40	1561.00	42.00	35.40	38.40	42.80		
20	42.00	1002.00	494.80	192.00	638.00	1598.40	1035.00	1489.60	40.80	37.80	42.80	45.20		
21	40.80	805.60	576.00	297.00	606.00	1632.40	972.00	1429.60	40.80	40.80	44.40	45.20		
22	40.80	612.00	616.00	428.20	550.00	1680.00	904.50	1336.60	40.80	37.20	46.80	43.60		
23	40.80	478.60	628.00	552.00	507.40	1702.20	892.00	1259.00	40.20	33.60	46.00	42.80		
24	40.80	408.80	594.00	610.00	475.00	1683.70	854.50	1183.40	40.20	33.60	46.00	43.60		
25	42.80	329.20	507.40	634.00	442.60	1646.00	834.50	1096.60	42.00	40.80	46.00	89.70		
26	50.00	253.60	249.40	602.00	412.00	1567.80	907.00	987.00	44.40	39.00	46.00	99.60		
27	43.60	197.60	182.10	570.00	376.80	1435.80	1091.00	894.50	50.00	36.60	45.20	107.30		
28	40.20	163.40	123.80	544.00	346.40	1386.20	1308.70	801.20	60.40	34.20	44.40	124.90		
29	57.20	146.90	93.00	523.60	329.20	1380.00	1561.00	695.60	63.60	36.00		152.40		
30	138.10	146.90	76.40	507.40	280.20	1398.60	1680.00	618.00	51.60	36.60		135.90		
31		190.90		475.00	316.60		1698.50		68.40	36.00		81.20		
Total	1461.90	12744.90	14205.70	9341.80	15928.60	31034.00	39992.50	50096.50	4044.40	1253.40	1194.60	1812.60	183110.90	CMSDAY
Mean	48.73	411.13	473.52	301.35	513.83	1034.47	1290.08	1669.88	130.46	40.43	42.66	58.47	501.67	CMS
Max	138.10	1158.20	805.60	634.00	774.80	1702.20	1698.50	2233.00	546.00	58.00	46.80	152.40	2233.00	CMS
Min	36.00	42.00	76.40	48.40	280.20	174.40	834.50	618.00	40.20	33.60	36.00	36.60	33.60	CMS
Runoff	126.31	1101.16	1227.37	807.13	1376.23	2681.34	3455.35	4328.34	349.44	108.29	103.21	156.61	15820.78	MCM

Momentary Peak 2237.00 CMS. at 13.55 m. (MSL.) at 06.00 Hours , on Nov 9, 2008

Runoff Yield 4.23 Liters/Second/Square KM. Momentary Peak Yield 18.88 Liters/Second/Square KM.

WATER YEAR : 2008

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**	Nong Mamong	**Changwat**	Chai Nat
Drainge Area	1,059 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 bridge			**Elevation**	+7.770 m. (A.D.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	2008 to date				
Rating Operation					
Period of Rating	2008 to date				
Rated by Float	-				
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 10 discharge measurements made in 2008.				

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

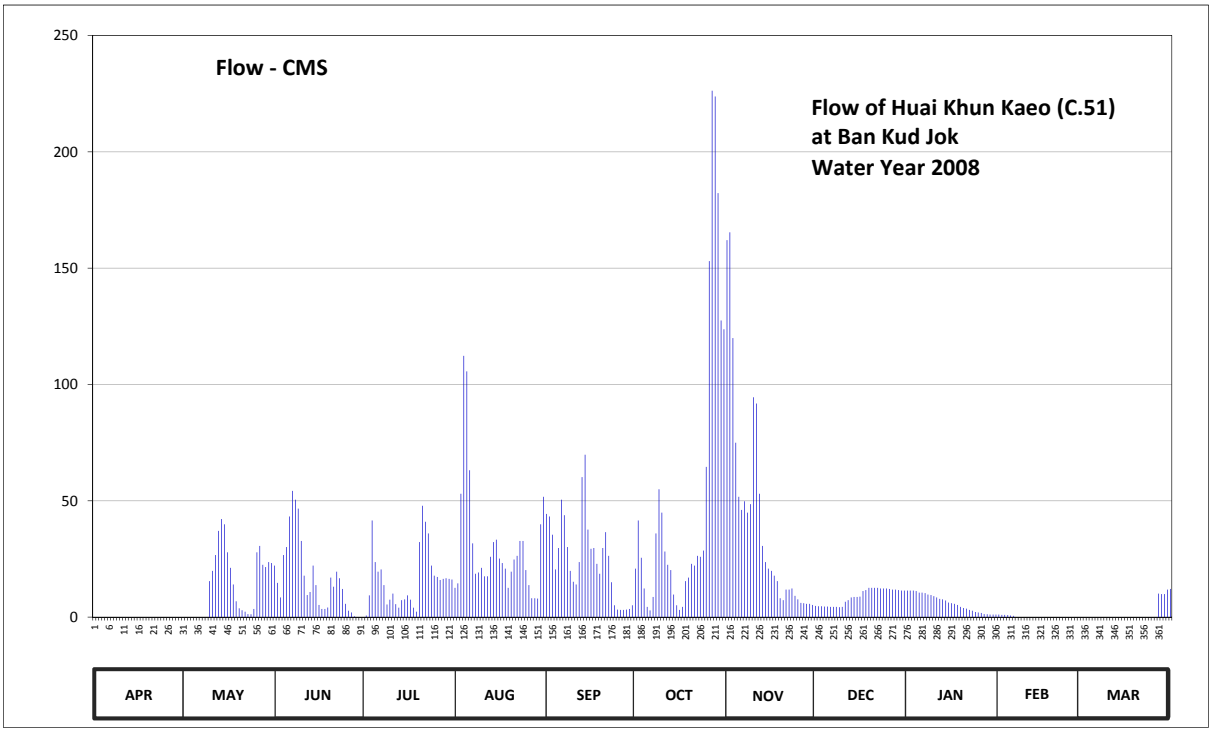
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	1.10	2.49	1.29	2.14	2.96	2.45	4.32	1.70	2.09	1.40	0.80	
2	0.97	1.09	2.23	1.36	2.22	2.94	2.91	4.35	1.69	2.09	1.39	0.80	
3	1.20	1.12	1.94	1.99	3.10	2.80	2.58	3.92	1.69	2.09	1.39	0.80	
4	1.18	1.18	2.61	2.91	3.84	2.44	2.13	3.41	1.68	2.08	1.38	0.79	
5	1.18	1.20	2.70	2.53	3.77	2.69	1.67	3.08	1.68	2.05	1.36	0.79	
6	1.17	1.20	2.94	2.41	3.25	3.06	1.55	2.99	1.67	2.05	1.35	0.78	
7	1.17	1.20	3.12	2.44	2.73	2.95	1.95	3.05	1.67	2.04	1.30	0.78	
8	1.17	1.16	3.06	2.19	2.38	2.70	2.81	2.97	1.67	2.01	1.26	0.78	
9	1.17	1.15	3.00	1.75	2.40	2.42	3.13	3.03	1.66	2.00	1.24	0.77	
10	1.16	2.26	2.75	1.88	2.46	2.25	2.97	3.65	1.67	1.97	1.21	0.77	
11	1.16	2.42	2.35	2.03	2.34	2.20	2.65	3.62	1.83	1.94	1.17	0.77	
12	1.15	2.61	2.00	1.76	2.34	2.53	2.50	3.10	1.87	1.90	1.14	0.76	
13	1.15	2.83	2.06	1.64	2.59	3.21	2.43	2.71	1.94	1.89	1.12	0.75	
14	1.15	2.92	2.49	1.87	2.74	3.34	2.01	2.53	1.95	1.86	1.10	0.74	
15	1.14	2.88	2.19	1.89	2.76	2.84	1.72	2.45	1.95	1.81	1.08	0.74	
16	1.14	2.64	1.73	1.99	2.57	2.68	1.57	2.42	1.96	1.79	1.05	0.73	
17	1.14	2.46	1.60	1.88	2.52	2.69	1.67	2.35	2.08	1.77	1.03	0.72	
18	1.13	2.20	1.60	1.64	2.45	2.51	2.26	2.26	2.10	1.73	1.00	0.71	
19	1.13	1.84	1.65	1.51	2.14	2.38	2.32	1.92	2.14	1.67	0.97	0.73	
20	1.12	1.62	2.32	2.74	2.41	2.69	2.51	1.87	2.14	1.63	0.93	1.15	
21	1.12	1.56	2.16	3.02	2.56	2.82	2.49	2.11	2.14	1.61	0.89	1.25	
22	1.12	1.51	2.41	2.90	2.60	2.60	2.60	2.11	2.14	1.57	0.87	1.18	
23	1.11	1.42	2.31	2.81	2.75	2.24	2.59	2.13	2.13	1.54	0.85	1.18	
24	1.11	1.41	2.12	2.49	2.75	1.72	2.66	1.98	2.13	1.50	0.84	1.17	
25	1.10	1.60	1.77	2.35	2.43	1.58	3.27	1.89	2.13	1.48	0.83	1.16	
26	1.10	2.64	1.54	2.33	2.19	1.57	4.24	1.80	2.12	1.46	0.83	1.16	
27	1.09	2.71	1.48	2.28	1.92	1.57	4.87	1.79	2.11	1.42	0.82	2.03	
28	1.09	2.50	1.33	2.30	1.92	1.58	4.85	1.77	2.11	1.41	0.80	2.02	
29	1.12	2.47	1.30	2.31	1.91	1.60	4.50	1.77	2.10	1.40		2.02	
30	1.11	2.53	1.29	2.30	2.88	1.72	4.00	1.73	2.09	1.40		2.11	
31		2.52		2.29	3.08		3.96		2.09	1.40		2.12	
Mean	1.11	1.93	2.15	2.16	2.59	2.44	2.77	2.64	1.94	1.76	1.09	1.07	
Max	1.20	2.92	3.12	3.02	3.84	3.34	4.87	4.35	2.14	2.09	1.40	2.12	4.87
Min	0.50	1.09	1.29	1.29	1.91	1.57	1.55	1.73	1.66	1.40	0.80	0.71	0.50

Annual Max Momentary Gage Height 4.91 m. (A.D.) , at 21.00 Hours , on Oct 27, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed -0.09 m. (A.D.)

Left Bank Elevation 7.77 m. (A.D.) ,

Right Bank Elevation 7.73 m. (A.D.) , Drainage Are 1,059 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2007 to March 31, 2008

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	22.17	0.00	12.56	44.36	20.85	162.00	4.80	11.39	1.10	0.00		
2	0.00	0.00	14.72	0.66	14.48	43.24	41.56	165.38	4.67	11.39	0.99	0.00		
3	0.00	0.00	8.48	9.33	53.00	35.40	25.54	119.90	4.67	11.39	0.99	0.00		
4	0.00	0.00	26.68	41.56	112.30	20.52	12.32	74.98	4.54	11.18	0.88	0.00		
5	0.00	0.00	30.10	23.64	105.65	29.72	4.41	51.72	4.54	10.55	0.66	0.00		
6	0.00	0.00	43.24	19.53	63.10	50.44	2.85	46.04	4.41	10.55	0.55	0.00		
7	0.00	0.00	54.28	20.52	31.69	43.80	8.65	49.80	4.41	10.34	0.00	0.00		
8	0.00	0.00	50.44	13.76	18.64	30.10	35.96	44.92	4.41	9.71	0.00	0.00		
9	0.00	0.00	46.60	5.45	19.20	19.86	54.92	48.52	4.28	9.50	0.00	0.00		
10	0.00	15.44	32.75	7.46	21.18	15.20	44.92	94.50	4.41	8.99	0.00	0.00		
11	0.00	19.86	17.80	10.13	17.52	14.00	28.20	91.80	6.61	8.48	0.00	0.00		
12	0.00	26.68	9.50	5.58	17.52	23.64	22.50	53.00	7.29	7.80	0.00	0.00		
13	0.00	37.08	10.76	4.02	25.92	60.14	20.19	30.63	8.48	7.63	0.00	0.00		
14	0.00	42.12	22.17	7.29	32.22	69.76	9.71	23.64	8.65	7.12	0.00	0.00		
15	0.00	39.88	13.76	7.63	33.28	37.64	5.06	20.85	8.65	6.27	0.00	0.00		
16	0.00	27.82	5.19	9.33	25.16	29.34	3.11	19.86	8.82	5.97	0.00	0.00		
17	0.00	21.18	3.50	7.46	23.26	29.72	4.41	17.80	11.18	5.71	0.00	0.00		
18	0.00	14.00	3.50	4.02	20.85	22.88	15.44	15.44	11.60	5.19	0.00	0.00		
19	0.00	6.78	4.15	2.33	12.56	18.64	16.96	8.14	12.56	4.41	0.00	0.00		
20	0.00	3.76	16.96	32.22	19.53	29.72	22.88	7.29	12.56	3.89	0.00	0.00		
21	0.00	2.98	13.04	47.88	24.78	36.52	22.17	11.84	12.56	3.63	0.00	0.00		
22	0.00	2.33	19.53	41.00	26.30	26.30	26.30	11.84	12.56	3.11	0.00	0.00		
23	0.00	1.32	16.68	35.96	32.75	14.96	25.92	12.32	12.32	2.72	0.00	0.00		
24	0.00	1.21	12.08	22.17	32.75	5.06	28.58	9.16	12.32	2.20	0.00	0.00		
25	0.00	3.50	5.71	17.80	20.19	3.24	64.58	7.63	12.32	1.98	0.00	0.00		
26	0.00	27.82	2.72	17.24	13.76	3.11	153.00	6.10	12.08	1.76	0.00	0.00		
27	0.00	30.63	1.98	15.92	8.14	3.11	226.25	5.97	11.84	1.32	0.00	10.13		
28	0.00	22.50	0.33	16.40	8.14	3.24	223.75	5.71	11.84	1.21	0.00	9.92		
29	0.00	21.51	0.00	16.68	7.97	3.50	182.25	5.71	11.60	1.10		9.92		
30	0.00	23.64	0.00	16.40	39.88	5.06	127.50	5.19	11.39	1.10		11.84		
31		23.26		16.16	51.72		123.70		11.39	1.10		12.08		
Total	0.00	415.30	508.82	495.53	946.00	772.22	1604.44	1227.68	273.76	188.69	5.17	53.89	6491.50	CMSDAY
Mean	0.00	13.40	16.96	15.98	30.52	25.74	51.76	40.92	8.83	6.09	0.18	1.74	17.78	CMS
Max	0.00	42.12	54.28	47.88	112.30	69.76	226.25	165.38	12.56	11.39	1.10	12.08	226.25	CMS
Min	0.00	0.00	0.00	0.00	7.97	3.11	2.85	5.19	4.28	1.10	0.00	0.00	0.00	CMS
Runoff	0.00	35.88	43.96	42.81	81.73	66.72	138.62	106.07	23.65	16.30	0.45	4.66	560.87	MCM

Momentary Peak 231.25 CMS. at 4.91 m. (A.D.) at 21.00 Hours , on Oct 27, 2008

Runoff Yield 16.79 Liters/Second/Square KM. Momentary Peak Yield 218.34 Liters/Second/Square KM.

WATER YEAR : 2008

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Ban Tha Nam Ooy, Nakhon Sawan (C.56)

Lat 15 - 25 - 13 N Long 100 - 08 - 08 E

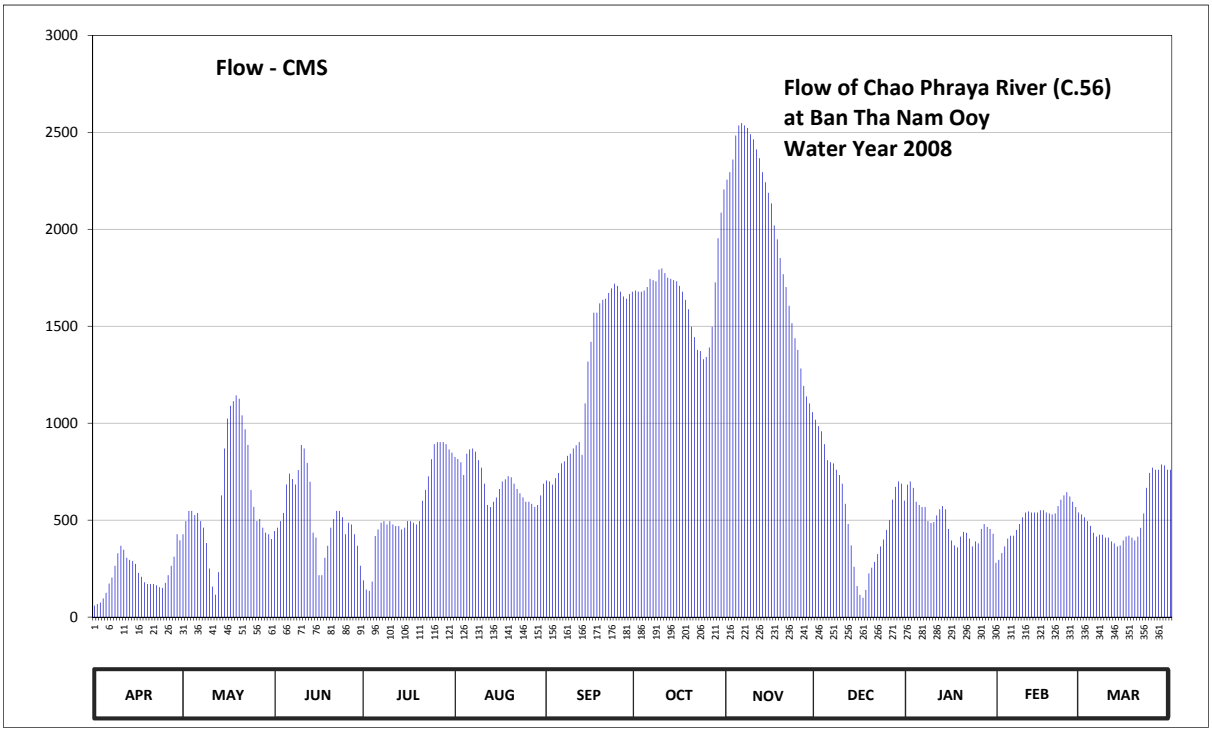
Location : on left bank at Ban Tha Nam Ooy

	Ban Tha Nam Ooy	**Amphoe**	Phayuha Khiti	**Changwat**	Nakhon Sawan
Drainge Area	Flood Plain				
Type of Gage	Water - stage recorder.				
Zero Gage at Bottom	+15.000 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	On left bank at the bridge			**Elevation**	+23.300 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 Float	-				
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 31 discharge measurements made in 2008.				

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.64	16.62	16.64	16.18	16.82	16.60	18.29	19.24	17.17	16.56	15.81	16.28	
2	15.69	16.70	16.66	16.03	16.80	16.59	18.28	19.30	17.11	16.59	15.88	16.25	
3	15.73	16.75	16.70	16.01	16.77	16.56	18.28	19.40	17.06	16.53	15.95	16.21	
4	15.83	16.75	16.74	16.16	16.65	16.62	18.29	19.59	16.94	16.40	16.03	16.16	
5	15.97	16.73	16.86	16.61	16.85	16.67	18.32	19.67	16.79	16.37	16.06	16.09	
6	16.13	16.74	16.90	16.65	16.89	16.76	18.39	19.69	16.77	16.35	16.06	16.05	
7	16.22	16.70	16.88	16.69	16.90	16.78	18.38	19.67	16.76	16.35	16.12	16.07	
8	16.36	16.66	16.86	16.70	16.87	16.83	18.37	19.65	16.70	16.21	16.18	16.07	
9	16.48	16.56	16.91	16.68	16.79	16.85	18.47	19.60	16.65	16.19	16.25	16.04	
10	16.54	16.33	16.98	16.70	16.72	16.90	18.48	19.56	16.57	16.20	16.30	16.04	
11	16.51	16.08	16.97	16.68	16.57	16.93	18.44	19.48	16.38	16.27	16.31	16.00	
12	16.44	15.92	16.93	16.67	16.37	16.96	18.40	19.41	16.18	16.33	16.30	15.98	
13	16.42	16.29	16.87	16.67	16.35	16.84	18.39	19.30	15.96	16.36	16.30	15.95	
14	16.41	16.82	16.63	16.65	16.40	17.32	18.38	19.22	15.74	16.33	16.30	15.96	
15	16.38	16.97	16.60	16.66	16.44	17.68	18.37	19.13	15.54	16.13	16.32	16.01	
16	16.28	17.18	16.25	16.70	16.52	17.85	18.33	19.04	15.45	16.01	16.32	16.05	
17	16.23	17.30	16.25	16.70	16.59	18.10	18.28	18.85	15.42	15.96	16.30	16.06	
18	16.15	17.34	16.44	16.69	16.61	18.10	18.21	18.73	15.50	15.94	16.29	16.04	
19	16.12	17.39	16.54	16.68	16.64	18.18	18.13	18.57	15.67	16.05	16.28	16.01	
20	16.12	17.36	16.66	16.70	16.63	18.21	17.98	18.43	15.73	16.10	16.29	16.05	
21	16.12	17.21	16.71	16.80	16.57	18.22	17.89	18.32	15.79	16.09	16.36	16.14	
22	16.10	17.08	16.75	16.84	16.52	18.27	17.78	18.16	15.87	16.03	16.42	16.29	
23	16.07	16.98	16.75	16.89	16.48	18.31	17.77	18.01	15.95	15.95	16.46	16.53	
24	16.06	16.84	16.72	16.94	16.44	18.35	17.70	17.88	16.02	16.00	16.49	16.67	
25	16.14	16.77	16.62	16.94	16.40	18.33	17.72	17.78	16.12	15.98	16.45	16.72	
26	16.25	16.70	16.69	16.96	16.40	18.28	17.80	17.62	16.22	16.13	16.40	16.70	
27	16.36	16.71	16.68	16.96	16.38	18.24	17.98	17.47	16.42	16.18	16.35	16.70	
28	16.45	16.66	16.62	16.96	16.35	18.22	18.36	17.38	16.54	16.15	16.30	16.75	
29	16.62	16.63	16.54	16.94	16.37	18.26	18.74	17.32	16.59	16.13		16.74	
30	16.58	16.62	16.36	16.89	16.46	18.28	18.96	17.24	16.57	16.08		16.70	
31		16.59		16.86	16.57		19.16		16.41	15.78		16.70	
Mean	16.21	16.77	16.69	16.68	16.58	17.54	18.27	18.76	16.28	16.18	16.25	16.26	
Max	16.62	17.39	16.98	16.96	16.90	18.35	19.16	19.69	17.17	16.59	16.49	16.75	19.69
Min	15.64	15.92	16.25	16.01	16.35	16.56	17.70	17.24	15.42	15.78	15.81	15.95	15.42

Annual Max Momentary Gage Height	19.70	m. (MSL.) ,	at 06.00 Hours , on Nov 6, 2008		
Zero Gage at Bottom Elevation	15.00	m. (MSL.) ,	River Bed	10.41	m. (MSL.)
Left Bank Elevation	21.98	m. (MSL.) ,			
Right Bank Elevation	21.55	m. (MSL.) ,	Drainage Area		Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	59.40	427.00	444.00	189.60	826.00	705.00	1684.00	2256.00	1018.50	683.00	295.00	530.00		
2	67.40	495.00	461.00	141.60	815.00	699.50	1678.00	2295.00	985.50	699.50	330.00	515.00		
3	75.30	547.50	495.00	135.20	798.50	683.00	1678.00	2360.00	958.00	666.50	365.00	495.00		
4	96.30	547.50	537.00	183.20	732.50	716.00	1684.00	2483.50	892.00	595.00	405.00	470.00		
5	125.70	526.50	684.00	418.50	842.50	743.50	1702.00	2535.50	809.50	578.50	420.00	435.00		
6	173.60	537.00	740.00	452.50	864.50	793.00	1744.00	2548.50	798.50	567.50	420.00	415.00		
7	204.00	495.00	712.00	486.50	870.00	804.00	1738.00	2535.50	793.00	567.50	450.00	425.00		
8	264.80	461.00	684.00	495.00	853.50	831.50	1732.00	2522.50	760.00	495.00	480.00	425.00		
9	328.80	382.00	758.50	478.00	809.50	842.50	1792.00	2490.00	732.50	485.00	515.00	410.00		
10	368.00	250.40	888.00	495.00	771.00	870.00	1798.00	2464.00	688.50	490.00	540.00	410.00		
11	347.00	157.60	869.50	478.00	688.50	886.50	1774.00	2412.00	584.00	525.00	545.50	390.00		
12	306.40	115.20	795.50	469.50	578.50	903.00	1750.00	2366.50	480.00	556.50	540.00	380.00		
13	295.20	232.00	698.00	469.50	567.50	837.00	1744.00	2295.00	370.00	573.00	540.00	365.00		
14	289.60	628.00	435.50	452.50	595.00	1102.00	1738.00	2243.00	260.00	556.50	540.00	370.00		
15	274.40	869.50	410.00	461.00	617.00	1318.00	1732.00	2188.00	160.00	455.00	551.00	395.00		
16	228.00	1024.00	216.00	495.00	661.00	1420.00	1708.00	2134.00	115.00	395.00	551.00	415.00		
17	208.00	1090.00	216.00	495.00	699.50	1570.00	1678.00	2020.00	100.00	370.00	540.00	420.00		
18	180.00	1114.00	306.40	486.50	710.50	1570.00	1636.00	1948.00	140.00	360.00	535.00	410.00		
19	170.40	1144.00	368.00	478.00	727.00	1618.00	1588.00	1852.00	225.00	415.00	530.00	395.00		
20	170.40	1126.00	461.00	495.00	721.50	1636.00	1498.00	1768.00	255.00	440.00	535.00	415.00		
21	170.40	1040.50	505.50	600.00	688.50	1642.00	1444.00	1702.00	285.00	435.00	573.00	460.00		
22	164.00	969.00	547.50	656.00	661.00	1672.00	1378.00	1606.00	325.00	405.00	606.00	535.00		
23	154.40	888.00	547.50	726.00	639.00	1696.00	1372.00	1516.00	365.00	365.00	628.00	666.50		
24	151.20	656.00	516.00	814.00	617.00	1720.00	1330.00	1438.00	400.00	390.00	644.50	743.50		
25	176.80	568.50	427.00	892.00	595.00	1708.00	1342.00	1378.00	450.00	380.00	622.50	771.00		
26	216.00	495.00	486.50	903.00	595.00	1678.00	1390.00	1282.00	500.00	455.00	595.00	760.00		
27	264.80	505.50	478.00	903.00	584.00	1654.00	1498.00	1192.00	606.00	480.00	567.50	760.00		
28	312.00	461.00	427.00	903.00	567.50	1642.00	1726.00	1138.00	672.00	465.00	540.00	787.50		
29	427.00	435.50	368.00	892.00	578.50	1666.00	1954.00	1102.00	699.50	455.00		782.00		
30	396.00	427.00	264.80	864.50	628.00	1678.00	2086.00	1057.00	688.50	430.00		760.00		
31		403.00		848.00	688.50		2206.00		600.50	280.00		760.00		
Total	6665.30	19018.20	15747.20	17256.60	21591.00	37304.50	51802.00	59128.00	16716.50	15013.50	14404.00	16270.50	290917.30	CMSDAY
Mean	222.18	613.49	524.91	556.66	696.48	1243.48	1671.03	1970.93	539.24	484.31	514.43	524.85	797.03	CMS
Max	427.00	1144.00	888.00	903.00	870.00	1720.00	2206.00	2548.50	1018.50	699.50	644.50	787.50	2548.50	CMS
Min	59.40	115.20	216.00	135.20	567.50	683.00	1330.00	1057.00	100.00	280.00	295.00	365.00	59.40	CMS
Runoff	575.88	1643.17	1360.56	1490.97	1865.46	3223.11	4475.69	5108.66	1444.31	1297.17	1244.51	1405.77	25135.25	MCM

Momentary Peak 2555.00 CMS. at 19.70 m. (MSL.) at 06.00 Hours , on Nov 6, 2008

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

WATER YEAR : 2008

SAKAE KRANG RIVER BASIN

Sakae Krang River at Ban Hat Tanong, Uthai Thani (Ct.2A)

Lat 15 - 24 - 39 N Long 100 - 03 - 29 E

Location : on left bank at Ban Hat Tanong.

	Ban Hat Tanong	**Amphoe** Mueang	**Changwat** Uthai Thani
Drainge Area	3,641 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** +20.130 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Float	-		
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 25 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

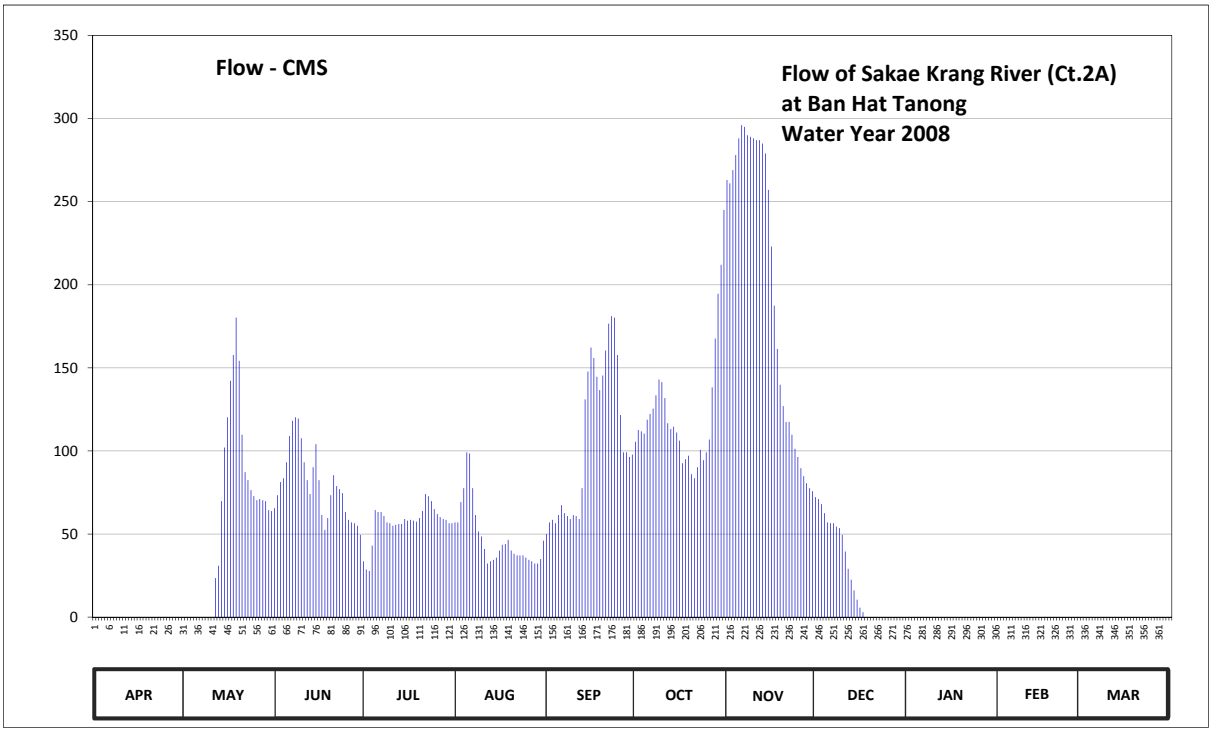
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.44	16.45	16.71	16.08	16.56	16.42	17.35	19.14	16.82	16.38	15.62	16.10	
2	15.47	16.52	16.84	15.96	16.56	16.56	17.45	19.12	16.80	16.43	15.68	16.07	
3	15.51	16.55	16.97	15.93	16.77	16.59	17.44	19.20	16.75	16.44	15.76	16.04	
4	15.58	16.54	17.01	16.28	16.91	16.55	17.42	19.29	16.66	16.33	15.82	15.97	
5	15.77	16.50	17.17	16.69	17.26	16.64	17.54	19.39	16.56	16.21	15.88	15.89	
6	15.93	16.51	17.40	16.67	17.25	16.74	17.59	19.47	16.55	16.16	15.86	15.88	
7	16.04	16.50	17.53	16.67	16.91	16.66	17.63	19.46	16.55	16.08	15.91	15.88	
8	16.17	16.47	17.56	16.63	16.64	16.63	17.73	19.41	16.51	16.05	15.98	15.89	
9	16.29	16.38	17.55	16.56	16.45	16.60	17.85	19.40	16.49	16.01	16.05	15.87	
10	16.35	16.17	17.38	16.55	16.39	16.64	17.83	19.39	16.41	16.01	16.09	15.85	
11	16.31	15.95	17.17	16.52	16.24	16.63	17.71	19.38	16.21	16.07	16.12	15.82	
12	16.28	15.80	16.99	16.53	16.05	16.60	17.51	19.38	15.97	16.15	16.11	15.78	
13	16.25	16.02	16.85	16.54	16.08	16.91	17.46	19.36	15.77	16.15	16.10	15.76	
14	16.23	16.78	17.12	16.54	16.10	17.70	17.48	19.30	15.57	16.08	16.13	15.81	
15	16.19	17.30	17.33	16.60	16.13	17.91	17.43	19.08	15.40	15.95	16.15	15.84	
16	16.13	17.56	16.99	16.58	16.22	18.08	17.36	18.74	15.25	15.82	16.14	15.88	
17	16.06	17.84	16.64	16.59	16.29	18.01	17.16	18.36	15.15	15.78	16.12	15.88	
18	15.98	18.03	16.47	16.58	16.30	17.87	17.20	18.07	15.14	15.76	16.11	15.86	
19	15.97	18.28	16.61	16.57	16.35	17.77	17.23	17.81	15.26	15.84	16.10	15.83	
20	15.95	17.99	16.84	16.61	16.22	17.88	17.05	17.65	15.41	15.92	16.09	15.84	
21	15.95	17.41	17.04	16.68	16.18	18.06	17.01	17.52	15.60	15.88	16.14	15.97	
22	15.93	17.07	16.93	16.85	16.16	18.24	17.12	17.52	15.65	15.82	16.22	16.10	
23	15.91	16.99	16.90	16.83	16.16	18.29	17.28	17.41	15.77	15.79	16.26	16.35	
24	15.90	16.89	16.86	16.78	16.16	18.28	17.19	17.29	15.85	15.81	16.29	16.51	
25	15.98	16.83	16.67	16.70	16.13	18.03	17.26	17.22	15.93	15.88	16.26	16.55	
26	16.09	16.79	16.59	16.65	16.10	17.58	17.37	17.11	16.09	15.95	16.23	16.53	
27	16.19	16.80	16.56	16.62	16.08	17.26	17.79	17.03	16.26	16.00	16.16	16.53	
28	16.30	16.79	16.55	16.60	16.05	17.26	18.14	16.96	16.38	15.98	16.11	16.56	
29	16.45	16.78	16.52	16.59	16.05	17.22	18.44	16.91	16.43	15.87		16.57	
30	16.44	16.69	16.41	16.55	16.11	17.24	18.63	16.88	16.45	15.73		16.53	
31		16.68		16.55	16.34		18.96		16.38	15.62		16.54	
Mean	16.03	16.83	16.94	16.55	16.36	17.29	17.57	18.41	16.07	16.00	16.05	16.08	
Max	16.45	18.28	17.56	16.85	17.26	18.29	18.96	19.47	16.82	16.44	16.29	16.57	19.47
Min	15.44	15.80	16.41	15.93	16.05	16.42	17.01	16.88	15.14	15.62	15.62	15.76	15.14

Annual Max Momentary Gage Height 19.48 m. (MSL.) , at 18.00 Hours , on Nov 6, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 10.78 m. (MSL.)

Left Bank Elevation 21.35 m. (MSL.) ,

Right Bank Elevation 21.37 m. (MSL.) , Drainage Are 3,641 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	65.60	33.60	57.00	50.00	105.50	263.00	72.20	0.00	0.00	0.00		
2	0.00	0.00	73.40	28.70	57.00	57.00	112.50	261.00	71.00	0.00	0.00	0.00		
3	0.00	0.00	81.20	27.73	69.20	58.50	111.80	269.00	68.00	0.00	0.00	0.00		
4	0.00	0.00	83.60	43.00	77.60	56.50	110.40	278.00	62.60	0.00	0.00	0.00		
5	0.00	0.00	93.20	64.40	99.20	61.40	118.80	288.00	57.00	0.00	0.00	0.00		
6	0.00	0.00	109.00	63.20	98.50	67.40	122.30	296.00	56.50	0.00	0.00	0.00		
7	0.00	0.00	118.10	63.20	77.60	62.60	125.40	295.00	56.50	0.00	0.00	0.00		
8	0.00	0.00	120.20	60.80	61.40	60.80	133.40	290.00	54.50	0.00	0.00	0.00		
9	0.00	0.00	119.50	57.00	51.50	59.00	143.00	289.00	53.50	0.00	0.00	0.00		
10	0.00	0.00	107.60	56.50	48.50	61.40	141.40	288.00	49.50	0.00	0.00	0.00		
11	0.00	0.00	93.20	55.00	41.00	60.80	131.80	287.00	39.50	0.00	0.00	0.00		
12	0.00	23.50	82.40	55.50	32.25	59.00	116.70	287.00	29.03	0.00	0.00	0.00		
13	0.00	30.90	74.00	56.00	33.60	77.60	113.20	285.00	22.53	0.00	0.00	0.00		
14	0.00	69.80	90.20	56.00	34.50	131.00	114.60	279.00	16.03	0.00	0.00	0.00		
15	0.00	102.00	104.10	59.00	35.85	147.80	111.10	257.00	10.50	0.00	0.00	0.00		
16	0.00	120.20	82.40	58.00	40.00	162.20	106.20	223.00	5.63	0.00	0.00	0.00		
17	0.00	142.20	61.40	58.50	43.50	155.90	92.60	187.40	3.00	0.00	0.00	0.00		
18	0.00	157.70	52.50	58.00	44.00	144.60	95.00	161.30	0.00	0.00	0.00	0.00		
19	0.00	180.20	59.60	57.50	46.50	136.60	97.10	139.80	0.00	0.00	0.00	0.00		
20	0.00	154.20	73.40	59.60	40.00	145.40	86.00	127.00	0.00	0.00	0.00	0.00		
21	0.00	109.70	85.40	63.80	38.10	160.40	83.60	117.40	0.00	0.00	0.00	0.00		
22	0.00	87.20	78.80	74.00	37.20	176.60	90.20	117.40	0.00	0.00	0.00	0.00		
23	0.00	82.40	77.00	72.80	37.20	181.10	100.60	109.70	0.00	0.00	0.00	0.00		
24	0.00	76.40	74.60	69.80	37.20	180.20	94.40	101.30	0.00	0.00	0.00	0.00		
25	0.00	72.80	63.20	65.00	35.85	157.70	99.20	96.40	0.00	0.00	0.00	0.00		
26	0.00	70.40	58.50	62.00	34.50	121.60	106.90	89.60	0.00	0.00	0.00	0.00		
27	0.00	71.00	57.00	60.20	33.60	99.20	138.20	84.80	0.00	0.00	0.00	0.00		
28	0.00	70.40	56.50	59.00	32.25	99.20	167.60	80.60	0.00	0.00	0.00	0.00		
29	0.00	69.80	55.00	58.50	32.25	96.40	194.60	77.60	0.00	0.00		0.00		
30	0.00	64.40	49.50	56.50	34.95	97.80	212.00	75.80	0.00	0.00		0.00		
31		63.80		56.50	46.00		245.00		0.00	0.00		0.00		
Total	0.00	1819.00	2400.10	1769.33	1487.80	3185.70	3821.10	6001.10	727.52	0.00	0.00	0.00	21211.65	CMSDAY
Mean	0.00	58.68	80.00	57.08	47.99	106.19	123.26	200.04	23.47	0.00	0.00	0.00	58.11	CMS
Max	0.00	180.20	120.20	74.00	99.20	181.10	245.00	296.00	72.20	0.00	0.00	0.00	296.00	CMS
Min	0.00	0.00	49.50	27.73	32.25	50.00	83.60	75.80	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	157.16	207.37	152.87	128.55	275.24	330.14	518.50	62.86	0.00	0.00	0.00	1832.69	MCM

Momentary Peak 297.00 CMS. at 19.48 m. (MSL.) at 18.00 Hours , on Nov 6, 2008

Runoff Yield 15.96 Liters/Second/Square KM. Momentary Peak Yield 81.57 Liters/Second/Square KM.

WATER YEAR : 2008

SAKAE KRANG RIVER BASIN

Nam Mae Wong at Ban San Chao Kai To, Nakhon Sawan (Ct.4)

Lat 15 - 47 - 01 N Long 99 - 40 - 55 E

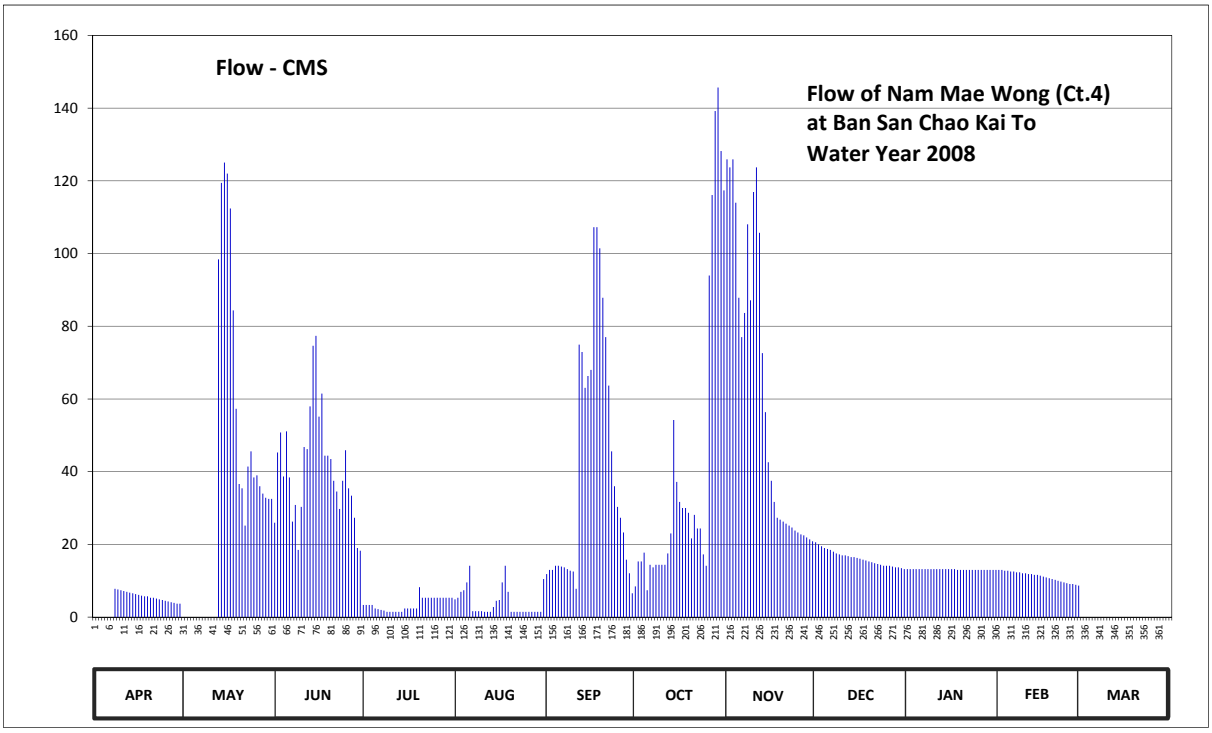
Location : on left bank at Ban San Chao Kai To.

	Ban San Chao Kai To	**Amphoe** Lat Yao	**Changwat** Nakhon Sawan
Drainge Area	1,386 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+65.880 m. (MSL.)		
Bench Mark	B.M.-H.D.		
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 mean of 5 readings		
Period of Available Gage Records	1987 to date		
Rating Operation			
Period of Rating	1987 to date		
Rated by Float	-		
Rated by Current Meter	1987 to date		
Stability of Channel Regimes	Fairly stable		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 11 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.27	65.27	66.94	65.98	66.06	66.38	66.23	69.88	66.74	66.44	66.43	65.27	
2	65.27	65.27	67.61	65.98	66.08	66.43	66.53	69.83	66.72	66.44	66.43	65.27	
3	65.27	65.27	67.79	65.98	66.16	66.43	66.53	69.88	66.70	66.44	66.42	65.27	
4	65.27	65.27	67.39	65.98	66.18	66.48	66.63	69.60	66.68	66.44	66.42	65.27	
5	65.27	65.27	67.80	65.93	66.28	66.48	66.18	68.91	66.67	66.44	66.41	65.27	
6	65.27	65.27	67.38	65.92	66.48	66.47	66.49	68.60	66.66	66.44	66.41	65.27	
7	65.27	65.27	66.95	65.91	65.89	66.46	66.46	68.79	66.64	66.44	66.40	65.27	
8	66.20	65.27	67.12	65.90	65.89	66.44	66.49	69.45	66.62	66.44	66.40	65.27	
9	66.19	65.27	66.66	65.88	65.89	66.42	66.49	68.89	66.61	66.44	66.39	65.27	
10	66.18	65.27	67.10	65.88	65.89	66.41	66.49	69.67	66.60	66.44	66.39	65.27	
11	66.17	65.27	67.66	65.88	65.88	66.20	66.49	69.83	66.60	66.44	66.38	65.27	
12	66.16	65.27	67.64	65.88	65.88	68.54	66.62	69.39	66.59	66.44	66.38	65.27	
13	66.15	69.20	68.02	65.88	65.88	68.48	66.83	68.47	66.58	66.44	66.37	65.27	
14	66.14	69.73	68.53	65.88	65.95	68.18	67.90	67.97	66.58	66.44	66.37	65.27	
15	66.13	69.86	68.61	65.93	66.04	68.28	67.34	67.52	66.57	66.44	66.36	65.27	
16	66.12	69.79	67.93	65.93	66.05	68.33	67.15	67.35	66.56	66.44	66.35	65.27	
17	66.11	69.56	68.13	65.93	66.28	69.43	67.09	67.15	66.55	66.44	66.34	65.27	
18	66.10	68.81	67.58	65.93	66.48	69.43	67.09	66.99	66.54	66.43	66.33	65.27	
19	66.10	68.00	67.58	65.93	66.16	69.28	67.04	66.97	66.53	66.43	66.32	65.27	
20	66.08	67.32	67.55	66.22	65.88	68.91	66.78	66.95	66.52	66.43	66.31	65.27	
21	66.08	67.28	67.35	66.08	65.88	68.60	67.02	66.93	66.51	66.43	66.30	65.27	
22	66.07	66.91	67.25	66.08	65.88	68.20	66.88	66.91	66.50	66.43	66.29	65.27	
23	66.06	67.48	67.08	66.08	65.88	67.62	66.88	66.89	66.49	66.43	66.28	65.27	
24	66.05	67.62	67.35	66.08	65.88	67.30	66.61	66.86	66.48	66.43	66.27	65.27	
25	66.04	67.38	67.63	66.08	65.88	67.10	66.48	66.84	66.48	66.43	66.26	65.27	
26	66.03	67.40	67.28	66.08	65.88	66.99	69.08	66.82	66.48	66.43	66.26	65.27	
27	66.02	67.30	67.21	66.08	65.88	66.84	69.65	66.81	66.47	66.43	66.25	65.27	
28	66.01	67.23	66.99	66.08	65.88	66.55	70.17	66.79	66.46	66.43	66.24	65.27	
29	66.00	67.19	66.68	66.08	65.88	66.39	70.31	66.77	66.46	66.43		65.27	
30	66.00	67.18	66.65	66.08	65.88	66.14	69.93	66.75	66.45	66.43		65.27	
31		67.18		66.08	66.32		69.68		66.44	66.43		65.27	
Mean	65.90	66.96	67.45	65.99	66.01	67.37	67.34	68.02	66.56	66.44	66.35	65.27	
Max	66.20	69.86	68.61	66.22	66.48	69.43	70.31	69.88	66.74	66.44	66.43	65.27	70.31
Min	65.27	65.27	66.65	65.88	65.88	66.14	66.18	66.75	66.44	66.43	66.24	65.27	65.27

Annual Max Momentary Gage Height	70.39	m. (MSL.) ,	at 09.00 Hours , on Oct 29, 2008		
Zero Gage at Bottom Elevation	65.88	m. (MSL.) ,	River Bed	65.27	m. (MSL.)
Left Bank Elevation	72.18	m. (MSL.) ,			
Right Bank Elevation	71.96	m. (MSL.) ,	Drainage Are	1,386	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	25.98	3.32	4.90	11.84	8.46	125.92	20.58	13.22	12.99	0.00		
2	0.00	0.00	45.30	3.32	5.30	12.99	15.32	123.72	20.04	13.22	12.99	0.00		
3	0.00	0.00	50.79	3.32	6.96	12.99	15.32	125.92	19.50	13.22	12.76	0.00		
4	0.00	0.00	38.70	3.32	7.38	14.14	17.75	114.00	19.00	13.22	12.76	0.00		
5	0.00	0.00	51.10	2.37	9.56	14.14	7.38	87.86	18.75	13.22	12.53	0.00		
6	0.00	0.00	38.40	2.18	14.14	13.91	14.37	77.00	18.50	13.22	12.53	0.00		
7	0.00	0.00	26.25	1.99	1.62	13.68	13.68	83.65	18.00	13.22	12.30	0.00		
8	7.80	0.00	30.86	1.80	1.62	13.22	14.37	108.05	17.50	13.22	12.30	0.00		
9	7.59	0.00	18.50	1.44	1.62	12.76	14.37	87.15	17.25	13.22	12.07	0.00		
10	7.38	0.00	30.30	1.44	1.62	12.53	14.37	116.94	17.00	13.22	12.07	0.00		
11	7.17	0.00	46.80	1.44	1.44	7.80	14.37	123.72	17.00	13.22	11.84	0.00		
12	6.96	0.00	46.20	1.44	1.44	74.96	17.50	105.71	16.76	13.22	11.84	0.00		
13	6.75	98.40	57.94	1.44	1.44	72.94	23.01	72.61	16.52	13.22	11.61	0.00		
14	6.54	119.46	74.62	1.44	2.75	63.06	54.20	56.37	16.52	13.22	11.61	0.00		
15	6.33	125.04	77.35	2.37	4.50	66.34	37.20	42.60	16.28	13.22	11.38	0.00		
16	6.12	121.98	55.13	2.37	4.70	67.99	31.70	37.50	16.04	13.22	11.15	0.00		
17	5.91	112.40	61.46	2.37	9.56	107.27	30.03	31.70	15.80	13.22	10.92	0.00		
18	5.70	84.35	44.40	2.37	14.14	107.27	30.03	27.33	15.56	12.99	10.69	0.00		
19	5.70	57.30	44.40	2.37	6.96	101.44	28.68	26.79	15.32	12.99	10.46	0.00		
20	5.30	36.60	43.50	8.24	1.44	87.86	21.66	26.25	15.08	12.99	10.23	0.00		
21	5.30	35.42	37.50	5.30	1.44	77.00	28.14	25.71	14.84	12.99	10.00	0.00		
22	5.10	25.17	34.55	5.30	1.44	63.70	24.36	25.17	14.60	12.99	9.78	0.00		
23	4.90	41.40	29.76	5.30	1.44	45.60	24.36	24.63	14.37	12.99	9.56	0.00		
24	4.70	45.60	37.50	5.30	1.44	36.00	17.25	23.82	14.14	12.99	9.34	0.00		
25	4.50	38.40	45.90	5.30	1.44	30.30	14.14	23.28	14.14	12.99	9.12	0.00		
26	4.30	39.00	35.42	5.30	1.44	27.33	93.98	22.74	14.14	12.99	9.12	0.00		
27	4.10	36.00	33.39	5.30	1.44	23.28	116.10	22.47	13.91	12.99	8.90	0.00		
28	3.90	33.97	27.33	5.30	1.44	15.80	139.22	21.93	13.68	12.99	8.68	0.00		
29	3.70	32.82	19.00	5.30	1.44	12.07	145.68	21.39	13.68	12.99		0.00		
30	3.70	32.54	18.25	5.30	1.44	6.54	128.18	20.85	13.45	12.99		0.00		
31		32.54		5.30	10.46		117.36		13.22	12.99		0.00		
Total	129.45	1148.39	1226.58	108.65	127.95	1226.75	1272.54	1832.78	501.17	406.60	311.53	0.00	8292.39	CMSDAY
Mean	4.31	37.04	40.89	3.50	4.13	40.89	41.05	61.09	16.17	13.12	11.13	0.00	22.72	CMS
Max	7.80	125.04	77.35	8.24	14.14	107.27	145.68	125.92	20.58	13.22	12.99	0.00	145.68	CMS
Min	0.00	0.00	18.25	1.44	1.44	6.54	7.38	20.85	13.22	12.99	8.68	0.00	0.00	CMS
Runoff	11.18	99.22	105.98	9.39	11.05	105.99	109.95	158.35	43.30	35.13	26.92	0.00	716.46	MCM

Momentary Peak 149.52 CMS. at 70.39 m. (MSL.) at 09.00 Hours , on Oct 29, 2008

Runoff Yield 16.39 Liters/Second/Square KM. Momentary Peak Yield 107.88 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	977 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+102.480 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	In front of the station office **Elevation** +108.090 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1969 to date
Rating Operation	
Period of Rating	1969 to date
Rated by Float	-
Rated by Current Meter	1969 to date
Stability of Channel Regimes	Fairly stable
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir above gage site estimated by recession equation. Stage-discharge relation defined by 19 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

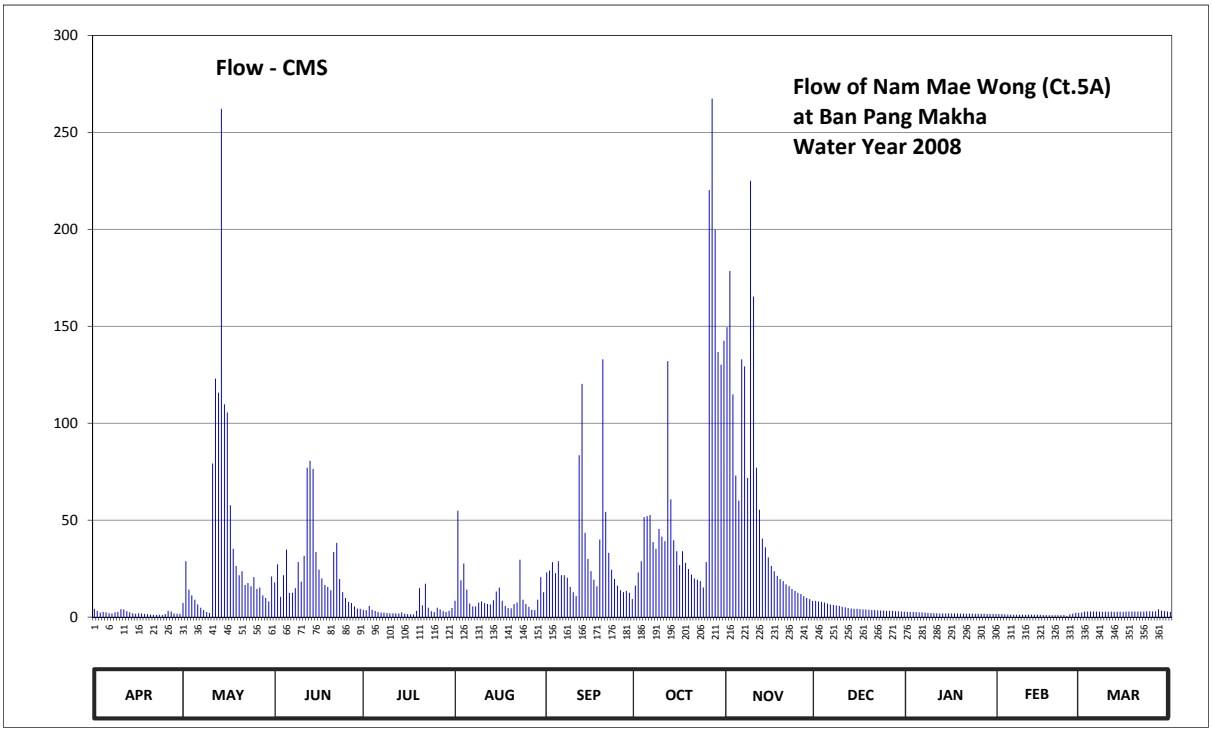
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	103.45	103.59	103.92	103.42	103.63	104.07	103.87	105.98	103.63	103.35	103.24	103.72	
2	103.38	104.22	104.18	103.41	104.77	104.10	104.07	106.25	103.62	103.35	103.23	103.86	
3	103.32	103.81	103.70	103.53	103.95	104.21	104.22	105.61	103.61	103.34	103.21	103.84	
4	103.35	103.72	104.03	103.42	104.19	104.06	104.71	105.07	103.60	103.34	103.20	103.86	
5	103.33	103.65	104.37	103.38	103.81	104.22	104.72	104.86	103.58	103.33	103.19	103.85	
6	103.30	103.56	103.76	103.35	103.58	104.03	104.73	105.81	103.56	103.33	103.19	103.84	
7	103.28	103.49	103.76	103.32	103.52	104.03	104.46	105.77	103.55	103.32	103.19	103.83	
8	103.33	103.41	103.83	103.32	103.52	103.99	104.38	105.05	103.54	103.31	103.18	103.83	
9	103.35	103.34	104.21	103.31	103.60	103.85	104.60	106.65	103.53	103.31	103.18	103.83	
10	103.44	103.31	103.93	103.30	103.62	103.77	104.52	106.13	103.51	103.30	103.17	103.82	
11	103.43	105.16	104.29	103.30	103.59	103.71	104.47	105.13	103.50	103.30	103.20	103.82	
12	103.37	105.70	105.13	103.29	103.57	105.22	105.80	104.78	103.48	103.29	103.19	103.82	
13	103.33	105.62	105.18	103.29	103.56	105.67	104.87	104.50	103.46	103.29	103.19	103.82	
14	103.30	106.94	105.12	103.33	103.64	104.56	104.48	104.40	103.45	103.28	103.18	103.82	
15	103.26	105.55	104.34	103.27	103.78	104.25	104.35	104.27	103.45	103.28	103.18	103.81	
16	103.30	105.50	104.11	103.24	103.84	104.09	104.17	104.16	103.44	103.28	103.16	103.86	
17	103.28	104.82	103.98	103.22	103.63	103.96	104.35	104.09	103.43	103.28	103.16	103.85	
18	103.25	104.38	103.88	103.21	103.53	103.86	104.20	104.02	103.43	103.28	103.15	103.85	
19	103.22	104.16	103.85	103.38	103.48	104.49	104.12	103.97	103.42	103.27	103.15	103.84	
20	103.19	104.03	103.80	103.83	103.47	105.81	104.04	103.94	103.41	103.27	103.15	103.86	
21	103.18	104.09	104.34	103.54	103.57	104.76	103.98	103.89	103.41	103.27	103.15	103.86	
22	103.17	103.88	104.45	103.90	103.60	104.33	103.96	103.86	103.40	103.27	103.15	103.86	
23	103.18	103.91	103.97	103.49	104.24	104.11	103.94	103.82	103.39	103.27	103.16	103.88	
24	103.16	103.86	103.77	103.37	103.65	103.97	103.84	103.79	103.39	103.26	103.26	103.87	
25	103.23	104.00	103.68	103.34	103.57	103.87	104.21	103.76	103.38	103.26	103.46	103.88	
26	103.38	103.82	103.61	103.49	103.51	103.80	106.61	103.74	103.38	103.26	103.57	103.87	
27	103.36	103.84	103.59	103.43	103.42	103.77	106.98	103.71	103.38	103.26	103.67	104.15	
28	103.29	103.72	103.52	103.37	103.41	103.79	106.44	103.68	103.37	103.25	103.67	103.95	
29	103.26	103.68	103.46	103.34	103.65	103.76	105.85	103.66	103.37	103.25		103.91	
30	103.26	103.62	103.45	103.38	104.00	103.66	105.78	103.63	103.36	103.25		103.84	
31		104.01		103.48	103.77		105.91		103.36	103.24		103.80	
Mean	103.30	104.21	104.04	103.40	103.70	104.19	104.73	104.60	103.46	103.29	103.24	103.85	
Max	103.45	106.94	105.18	103.90	104.77	105.81	106.98	106.65	103.63	103.35	103.67	104.15	106.98
Min	103.16	103.31	103.45	103.21	103.41	103.66	103.84	103.63	103.36	103.24	103.15	103.72	103.15

Annual Max Momentary Gage Height 107.22 m. (MSL.) , at 23.00 Hours , on Nov 9, 2008

Zero Gage at Bottom Elevation 102.48 m. (MSL.) , River Bed 102.61 m. (MSL.)

Left Bank Elevation 107.69 m. (MSL.) ,

Right Bank Elevation 108.01 m. (MSL.) , Drainage Are 977 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.25	7.25	17.93	3.80	8.40	22.99	16.24	149.50	8.40	2.75	1.60	2.39		
2	3.20	28.80	27.20	3.65	54.85	24.00	22.99	178.50	8.10	2.75	1.53	2.92		
3	2.30	14.21	10.50	5.75	18.94	28.40	28.80	114.90	7.80	2.60	1.40	2.85		
4	2.75	11.18	21.64	3.80	27.60	22.65	51.55	73.05	7.50	2.60	1.33	2.92		
5	2.45	9.00	34.80	3.20	14.21	28.80	52.10	60.10	7.00	2.45	1.27	2.89		
6	2.00	6.50	12.53	2.75	7.00	21.64	52.65	132.95	6.50	2.45	1.27	2.85		
7	1.87	4.85	12.53	2.30	5.50	21.64	38.70	129.30	6.25	2.30	1.27	2.81		
8	2.45	3.65	14.89	2.30	5.50	20.29	35.20	71.75	6.00	2.15	1.20	2.81		
9	2.75	2.60	28.40	2.15	7.50	15.56	45.50	225.00	5.75	2.15	1.20	2.81		
10	4.10	2.15	18.26	2.00	8.10	12.86	41.50	165.30	5.25	2.00	1.13	2.77		
11	3.95	79.20	31.60	2.00	7.25	10.84	39.15	77.10	5.00	2.00	1.33	2.77		
12	3.05	123.00	77.10	1.93	6.75	83.50	132.00	55.40	4.70	1.93	1.27	2.77		
13	2.45	115.80	80.60	1.93	6.50	120.30	60.70	40.50	4.40	1.93	1.27	2.77		
14	2.00	262.20	76.40	2.45	8.70	43.50	39.60	36.00	4.25	1.87	1.20	2.77		
15	1.73	109.75	33.60	1.80	13.20	30.00	34.00	30.80	4.25	1.87	1.20	2.73		
16	2.00	105.50	24.40	1.60	15.23	23.66	26.80	26.40	4.10	1.87	1.07	2.92		
17	1.87	57.70	19.95	1.47	8.40	19.28	34.00	23.66	3.95	1.87	1.07	2.89		
18	1.67	35.20	16.58	1.40	5.75	15.90	28.00	21.30	3.95	1.87	1.00	2.89		
19	1.47	26.40	15.56	3.20	4.70	40.05	24.80	19.61	3.80	1.80	1.00	2.85		
20	1.27	21.64	13.88	14.89	4.55	132.95	21.98	18.60	3.65	1.80	1.00	2.92		
21	1.20	23.66	33.60	6.00	6.75	54.30	19.95	16.91	3.65	1.80	1.00	2.92		
22	1.13	16.58	38.25	17.25	7.50	33.20	19.28	15.90	3.50	1.80	1.00	2.92		
23	1.20	17.59	19.61	4.85	29.60	24.40	18.60	14.55	3.35	1.80	1.07	3.00		
24	1.07	15.90	12.86	3.05	9.00	19.61	15.23	13.54	3.35	1.73	0.62	2.96		
25	1.53	20.63	9.90	2.60	6.75	16.24	28.40	12.53	3.20	1.73	1.39	3.00		
26	3.20	14.55	7.80	4.85	5.25	13.88	220.20	11.85	3.20	1.73	1.81	2.96		
27	2.90	15.23	7.25	3.95	3.80	12.86	267.40	10.84	3.20	1.73	2.19	4.04		
28	1.93	11.18	5.50	3.05	3.65	13.54	199.80	9.90	3.05	1.67	2.19	3.27		
29	1.73	9.90	4.40	2.60	9.00	12.53	136.75	9.30	3.05	1.67		3.12		
30	1.73	8.10	4.25	3.20	20.63	9.30	130.20	8.40	2.90	1.67		2.85		
31		20.96		4.70	12.86		142.50		2.90	1.60		2.69		
Total	67.20	1200.86	731.77	120.47	353.42	948.67	2024.57	1773.44	145.95	61.94	35.88	90.03	7554.20	CMSDAY
Mean	2.24	38.74	24.39	3.89	11.40	31.62	65.31	59.11	4.71	2.00	1.28	2.90	20.70	CMS
Max	4.25	262.20	80.60	17.25	54.85	132.95	267.40	225.00	8.40	2.75	2.19	4.04	267.40	CMS
Min	1.07	2.15	4.25	1.40	3.65	9.30	15.23	8.40	2.90	1.60	0.62	2.39	0.62	CMS
Runoff	5.81	103.75	63.22	10.41	30.54	81.97	174.92	153.23	12.61	5.35	3.10	7.78	652.68	MCM

Momentary Peak 298.80 CMS. at 107.22 m. (MSL.) at 23.00 Hours , on Nov 9, 2008

Runoff Yield 21.18 Liters/Second/Square KM. Momentary Peak Yield 305.83 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	- sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+26.230 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the sling pole		**Elevation** +34.250 m. (MSL.)
Gage Reading Frequency	Recordings.		
Basis of Mean Daily Gage Height	Arithmetic means of 24 readings		
Period of Available Gage Records	1975 - 1978, 2008 to date		
Rating Operation			
Period of Rating	1975 - 1978, 2008 to date		
Rated by Float	-		
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 12 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

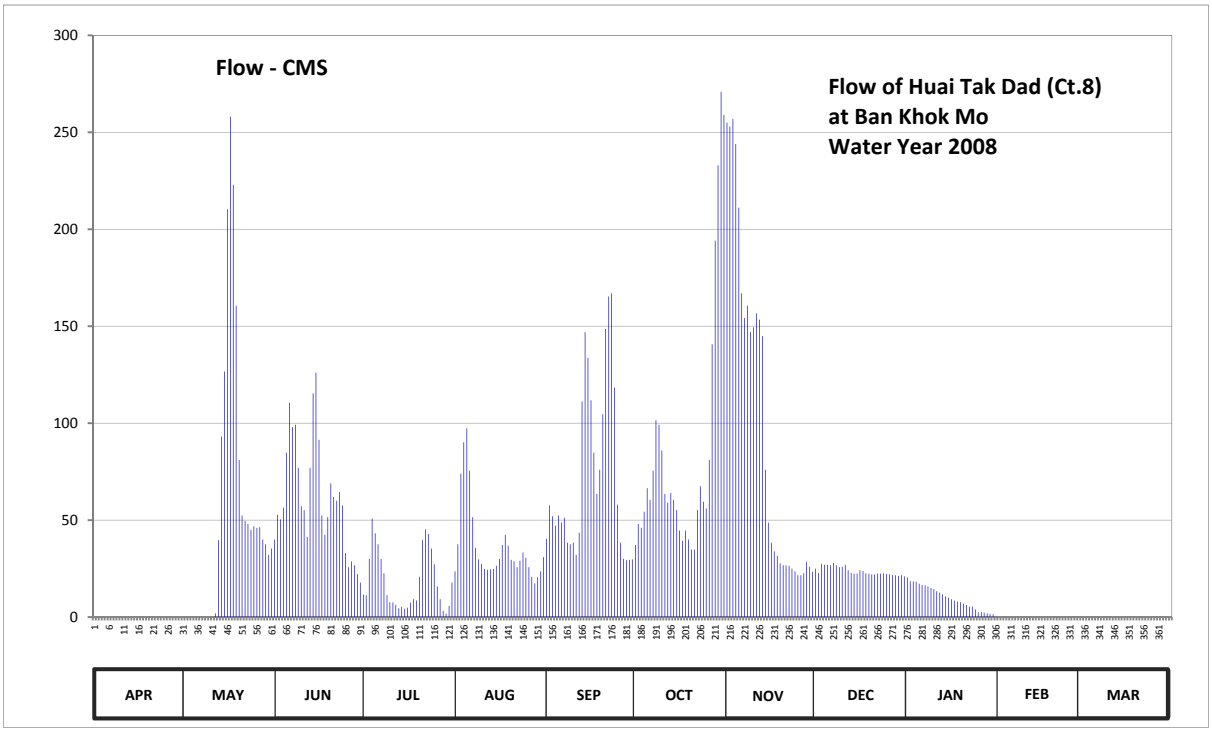
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.56	26.39	30.93	29.64	30.33	30.94	30.84	34.12	30.40	30.17	28.78	28.18	
2	27.55	26.44	31.27	29.62	30.85	31.39	31.15	34.10	30.29	30.08	28.75	28.18	
3	27.52	26.44	31.21	30.60	31.72	31.25	31.10	34.14	30.50	30.07	28.72	28.18	
4	27.44	26.44	31.36	31.22	32.02	31.13	31.31	34.01	30.48	30.06	28.69	28.15	
5	27.40	26.46	31.93	31.02	32.14	31.26	31.57	33.68	30.48	30.01	28.67	28.08	
6	27.37	26.46	32.36	30.85	31.75	31.17	31.45	33.15	30.47	29.98	28.66	28.04	
7	27.34	26.46	32.15	30.60	31.24	31.23	31.75	32.99	30.52	29.96	28.63	28.01	
8	27.33	26.46	32.17	30.28	30.79	30.88	32.21	33.07	30.47	29.92	28.62	27.98	
9	27.31	26.46	31.78	29.62	30.59	30.85	32.17	32.90	30.43	29.87	28.56	28.00	
10	27.28	26.46	31.38	29.38	30.50	30.88	31.95	32.93	30.44	29.83	28.52	28.03	
11	27.26	27.37	31.33	29.37	30.39	30.67	31.51	33.02	30.48	29.76	28.48	28.05	
12	27.22	28.99	30.97	29.29	30.37	31.03	31.42	32.98	30.36	29.71	28.43	28.10	
13	27.21	30.92	31.78	29.17	30.38	32.37	31.52	32.87	30.29	29.65	28.37	28.06	
14	27.18	32.07	32.44	29.22	30.39	32.90	31.45	31.76	30.27	29.58	28.32	28.04	
15	27.16	32.61	32.60	29.16	30.46	32.71	31.33	31.17	30.27	29.54	28.28	28.04	
16	27.15	33.67	32.04	29.19	30.60	32.38	31.06	30.88	30.36	29.48	28.25	28.04	
17	27.11	34.15	31.26	29.37	30.84	31.93	30.91	30.73	30.34	29.44	28.23	28.02	
18	27.08	33.80	31.00	29.48	31.00	31.51	31.06	30.65	30.28	29.40	28.26	28.01	
19	27.06	33.07	31.24	29.44	30.83	31.76	30.93	30.51	30.27	29.38	28.27	27.96	
20	27.02	31.86	31.62	30.19	30.58	32.26	30.76	30.47	30.25	29.33	28.25	27.97	
21	27.00	31.26	31.48	30.92	30.55	32.92	30.76	30.47	30.25	29.28	28.20	28.00	
22	26.98	31.19	31.44	31.08	30.43	33.13	31.33	30.46	30.27	29.23	28.21	27.99	
23	26.72	31.15	31.53	31.01	30.56	33.15	31.59	30.40	30.27	29.23	28.21	28.02	
24	26.62	31.07	31.39	30.78	30.71	32.49	31.43	30.33	30.28	29.13	28.18	27.98	
25	26.51	31.12	30.70	30.49	30.62	31.40	31.35	30.23	30.26	29.03	28.19	27.98	
26	26.46	31.10	30.43	29.92	30.43	30.88	31.86	30.23	30.25	29.04	28.18	27.98	
27	26.43	31.11	30.55	29.48	30.19	30.60	32.81	30.28	30.24	29.02	28.18	28.02	
28	26.41	30.93	30.47	29.08	30.02	30.57	33.49	30.54	30.23	28.99	28.17	28.08	
29	26.38	30.85	30.26	28.98	30.18	30.58	33.90	30.44	30.21	28.96		28.07	
30	26.39	30.67	30.04	29.25	30.33	30.59	34.28	30.32	30.23	28.95		28.05	
31		30.78		30.04	30.63		34.16		30.20	28.82		28.07	
Mean	27.05	29.81	31.37	29.93	30.72	31.56	31.76	31.79	30.33	29.51	28.40	28.04	
Max	27.56	34.15	32.60	31.22	32.14	33.15	34.28	34.14	30.52	30.17	28.78	28.18	34.28
Min	26.38	26.39	30.04	28.98	30.02	30.57	30.76	30.23	30.20	28.82	28.17	27.96	26.38

Annual Max Momentary Gage Height 34.29 m. (MSL.) , at 12.00 Hours , on Oct 30, 2008

Zero Gage at Bottom Elevation 26.23 m. (MSL.) , River Bed 26.66 m. (MSL)

Left Bank Elevation 34.28 m. (MSL.) ,

Right Bank Elevation 34.28 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	40.05	11.60	23.60	40.40	37.20	255.00	25.00	20.40	0.00	0.00		
2	0.00	0.00	52.80	11.30	37.50	57.60	48.00	253.00	22.80	18.60	0.00	0.00		
3	0.00	0.00	50.40	30.00	74.00	52.00	46.00	257.00	27.50	18.40	0.00	0.00		
4	0.00	0.00	56.40	50.80	90.20	47.20	54.40	244.00	27.00	18.20	0.00	0.00		
5	0.00	0.00	84.80	43.20	97.40	52.40	66.50	211.20	27.00	17.20	0.00	0.00		
6	0.00	0.00	110.60	37.50	75.50	48.80	60.50	167.00	26.75	16.70	0.00	0.00		
7	0.00	0.00	98.00	30.00	51.60	51.20	75.50	154.20	28.00	16.40	0.00	0.00		
8	0.00	0.00	99.20	22.60	35.70	38.40	101.60	160.60	26.75	15.80	0.00	0.00		
9	0.00	0.00	77.00	11.30	29.75	37.50	99.20	147.00	25.75	15.05	0.00	0.00		
10	0.00	0.00	57.20	7.70	27.50	38.40	86.00	149.40	26.00	14.45	0.00	0.00		
11	0.00	0.00	55.20	7.55	24.80	32.10	63.50	156.60	27.00	13.40	0.00	0.00		
12	0.00	1.90	41.45	6.35	24.40	43.55	59.00	153.40	24.20	12.65	0.00	0.00		
13	0.00	39.70	77.00	4.55	24.60	111.20	64.00	144.90	22.80	11.75	0.00	0.00		
14	0.00	93.20	115.40	5.30	24.80	147.00	60.50	76.00	22.40	10.70	0.00	0.00		
15	0.00	126.70	126.00	4.40	26.50	133.70	55.20	48.80	22.40	10.10	0.00	0.00		
16	0.00	210.30	91.40	4.85	30.00	111.80	44.60	38.40	24.20	9.20	0.00	0.00		
17	0.00	258.00	52.40	7.55	37.20	84.80	39.35	33.90	23.80	8.60	0.00	0.00		
18	0.00	223.00	42.50	9.20	42.50	63.50	44.60	31.50	22.60	8.00	0.00	0.00		
19	0.00	160.60	51.60	8.60	36.90	76.00	40.05	27.75	22.40	7.70	0.00	0.00		
20	0.00	81.00	69.00	20.80	29.50	104.60	34.80	26.75	22.00	6.95	0.00	0.00		
21	0.00	52.40	62.00	39.70	28.75	148.60	34.80	26.75	22.00	6.20	0.00	0.00		
22	0.00	49.60	60.00	45.30	25.75	165.40	55.20	26.50	22.40	5.45	0.00	0.00		
23	0.00	48.00	64.50	42.85	29.00	167.00	67.50	25.00	22.40	5.45	0.00	0.00		
24	0.00	44.95	57.60	35.40	33.30	118.40	59.50	23.60	22.60	3.95	0.00	0.00		
25	0.00	46.80	33.00	27.25	30.60	58.00	56.00	21.60	22.20	2.45	0.00	0.00		
26	0.00	46.00	25.75	15.80	25.75	38.40	81.00	21.60	22.00	2.60	0.00	0.00		
27	0.00	46.40	28.75	9.20	20.80	30.00	140.70	22.60	21.80	2.30	0.00	0.00		
28	0.00	40.05	26.75	3.20	17.40	29.25	194.20	28.50	21.60	1.90	0.00	0.00		
29	0.00	37.50	22.20	1.80	20.60	29.50	233.00	26.00	21.20	1.60		0.00		
30	0.00	32.10	17.80	5.75	23.60	29.75	271.00	23.40	21.60	1.50		0.00		
31		35.40		17.80	30.90		259.00		21.00	0.20		0.00		
Total	0.00	1673.60	1846.75	579.20	1130.40	2186.45	2632.40	2981.95	737.15	303.85	0.00	0.00	14071.75	CMSDAY
Mean	0.00	53.99	61.56	18.68	36.46	72.88	84.92	99.40	23.78	9.80	0.00	0.00	38.55	CMS
Max	0.00	258.00	126.00	50.80	97.40	167.00	271.00	257.00	28.00	20.40	0.00	0.00	271.00	CMS
Min	0.00	0.00	17.80	1.80	17.40	29.25	34.80	21.60	21.00	0.20	0.00	0.00	0.00	CMS
Runoff	0.00	144.60	159.56	50.04	97.67	188.91	227.44	257.64	63.69	26.25	0.00	0.00	1215.80	MCM

Momentary Peak 272.00 CMS. at 34.29 m. (MSL.) at 12.00 Hours , on Oct 30, 2008

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

WATER YEAR : 2008

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

Drainge Area	528 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+123.450 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 mean of 5 readings
Period of Available Gage Records	1977 to date
Rating Operation	
Period of Rating	1977 to date
Rated by Float	-
Rated by Current Meter	1977 to date
Stability of Channel Regimes	Fairly stable
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Rabum Dam above gage site. Stage-discharge relation defined by 10 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

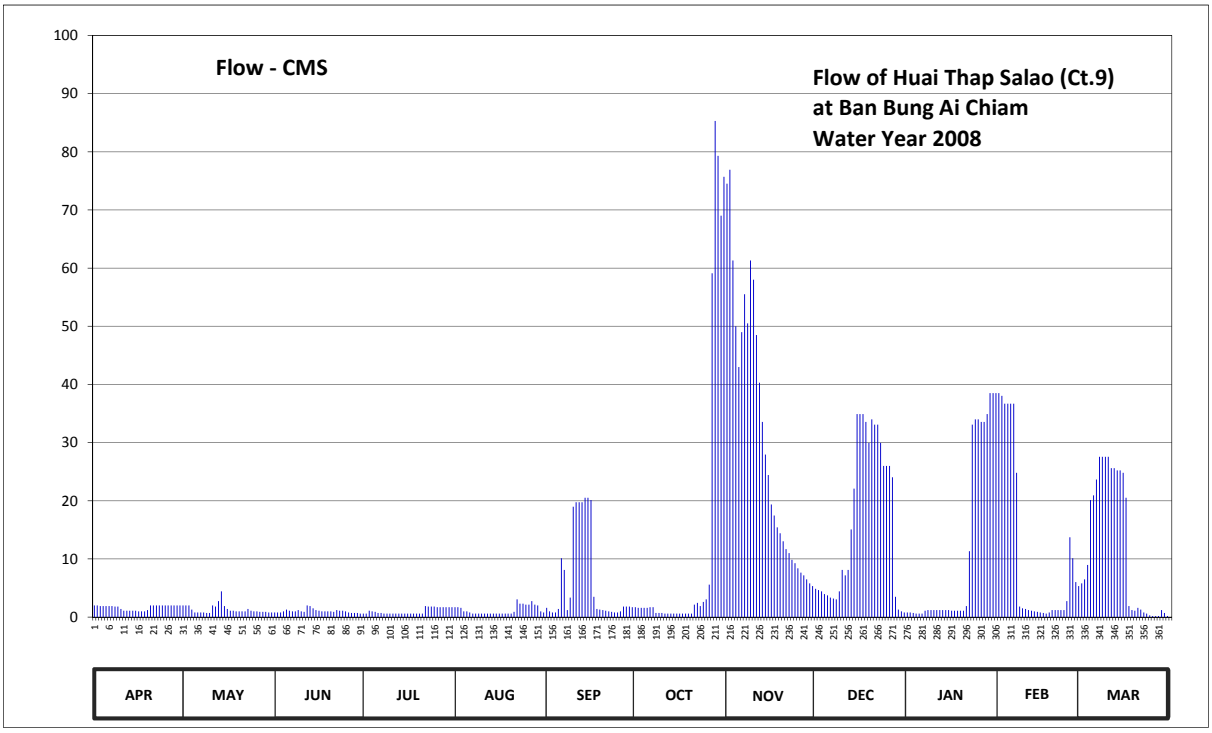
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	123.60	123.60	123.48	123.46	123.57	123.56	123.57	125.40	123.76	123.48	124.70	123.80	
2	123.60	123.60	123.48	123.46	123.57	123.50	123.56	125.44	123.75	123.48	124.69	123.83	
3	123.59	123.60	123.48	123.51	123.56	123.48	123.56	125.16	123.74	123.47	124.66	123.93	
4	123.59	123.53	123.50	123.50	123.50	123.48	123.56	124.94	123.72	123.46	124.66	124.26	
5	123.59	123.48	123.53	123.49	123.50	123.54	123.56	124.80	123.71	123.46	124.66	124.28	
6	123.59	123.48	123.51	123.47	123.48	123.97	123.57	124.92	123.69	123.46	124.66	124.35	
7	123.59	123.48	123.50	123.47	123.46	123.90	123.57	125.05	123.68	123.51	124.38	124.45	
8	123.58	123.48	123.50	123.46	123.46	123.52	123.47	124.95	123.67	123.52	123.58	124.45	
9	123.58	123.47	123.52	123.46	123.46	123.69	123.47	125.16	123.74	123.52	123.55	124.45	
10	123.54	123.47	123.50	123.46	123.46	124.23	123.47	125.10	123.90	123.52	123.54	124.45	
11	123.51	123.60	123.49	123.46	123.46	124.25	123.46	124.91	123.86	123.52	123.52	124.40	
12	123.51	123.58	123.60	123.46	123.46	124.25	123.46	124.74	123.90	123.52	123.51	124.40	
13	123.51	123.65	123.59	123.46	123.46	124.25	123.46	124.59	124.12	123.52	123.50	124.39	
14	123.51	123.74	123.55	123.46	123.46	124.27	123.46	124.46	124.31	123.52	123.49	124.39	
15	123.51	123.59	123.52	123.46	123.46	124.27	123.46	124.37	124.62	123.52	123.48	124.38	
16	123.50	123.54	123.51	123.46	123.46	124.26	123.46	124.24	124.62	123.51	123.47	124.27	
17	123.50	123.51	123.50	123.46	123.46	123.70	123.46	124.19	124.62	123.51	123.46	123.59	
18	123.50	123.51	123.50	123.46	123.46	123.54	123.46	124.13	124.59	123.51	123.48	123.52	
19	123.52	123.50	123.50	123.46	123.46	123.53	123.46	124.10	124.51	123.51	123.52	123.51	
20	123.60	123.50	123.50	123.46	123.46	123.52	123.46	124.06	124.60	123.51	123.52	123.56	
21	123.60	123.50	123.49	123.46	123.49	123.51	123.61	124.02	124.58	123.59	123.52	123.53	
22	123.60	123.50	123.52	123.59	123.67	123.50	123.63	124.00	124.58	124.01	123.52	123.48	
23	123.60	123.54	123.51	123.58	123.62	123.49	123.59	123.96	124.51	124.58	123.52	123.46	
24	123.60	123.51	123.51	123.58	123.62	123.48	123.64	123.94	124.41	124.60	123.65	123.43	
25	123.60	123.50	123.50	123.58	123.61	123.48	123.67	123.91	124.41	124.60	124.08	123.42	
26	123.60	123.50	123.48	123.57	123.61	123.50	123.79	123.88	124.41	124.59	123.97	123.42	
27	123.60	123.49	123.47	123.57	123.65	123.58	125.12	123.86	124.36	124.59	123.81	123.42	
28	123.60	123.49	123.47	123.57	123.61	123.58	125.58	123.83	123.70	124.62	123.78	123.52	
29	123.60	123.49	123.47	123.57	123.60	123.58	125.48	123.80	123.53	124.70		123.47	
30	123.60	123.48	123.46	123.57	123.50	123.57	125.30	123.78	123.50	124.70		123.42	
31		123.48		123.57	123.48		125.42		123.48	124.70		123.40	
Mean	123.57	123.53	123.50	123.50	123.52	123.73	123.83	124.46	124.08	123.85	123.85	123.89	
Max	123.60	123.74	123.60	123.59	123.67	124.27	125.58	125.44	124.62	124.70	124.70	124.45	125.58
Min	123.50	123.47	123.46	123.46	123.46	123.48	123.46	123.78	123.48	123.46	123.46	123.40	123.40

Annual Max Momentary Gage Height 125.58 m. (MSL.) , at 06.00 Hours , on Oct 28, 2008

Zero Gage at Bottom Elevation 123.45 m. (MSL.) , River Bed 123.03 m. (MSL.)

Left Bank Elevation 127.52 m. (MSL.) ,

Right Bank Elevation 127.71 m. (MSL.) , Drainage Are 528 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.00	2.00	0.80	0.60	1.70	1.60	1.70	74.50	4.88	0.80	38.50	5.80		
2	2.00	2.00	0.80	0.60	1.70	1.00	1.60	76.90	4.65	0.80	38.05	6.49		
3	1.90	2.00	0.80	1.10	1.60	0.80	1.60	61.30	4.42	0.70	36.70	8.97		
4	1.90	1.30	1.00	1.00	1.00	0.80	1.60	50.00	3.96	0.60	36.70	20.14		
5	1.90	0.80	1.30	0.90	1.00	1.40	1.60	43.00	3.73	0.60	36.70	20.92		
6	1.90	0.80	1.10	0.70	0.80	10.13	1.70	49.00	3.35	0.60	36.70	23.65		
7	1.90	0.80	1.00	0.70	0.60	8.10	1.70	55.50	3.20	1.10	24.82	27.55		
8	1.80	0.80	1.00	0.60	0.60	1.20	0.70	50.50	3.05	1.20	1.80	27.55		
9	1.80	0.70	1.20	0.60	0.60	3.35	0.70	61.30	4.42	1.20	1.50	27.55		
10	1.40	0.70	1.00	0.60	0.60	18.97	0.70	58.00	8.10	1.20	1.40	27.55		
11	1.10	2.00	0.90	0.60	0.60	19.75	0.60	48.50	7.18	1.20	1.20	25.60		
12	1.10	1.80	2.00	0.60	0.60	19.75	0.60	40.30	8.10	1.20	1.10	25.60		
13	1.10	2.75	1.90	0.60	0.60	19.75	0.60	33.55	15.08	1.20	1.00	25.21		
14	1.10	4.42	1.50	0.60	0.60	20.53	0.60	27.94	22.09	1.20	0.90	25.21		
15	1.10	1.90	1.20	0.60	0.60	20.53	0.60	24.43	34.90	1.20	0.80	24.82		
16	1.00	1.40	1.10	0.60	0.60	20.14	0.60	19.36	34.90	1.10	0.70	20.53		
17	1.00	1.10	1.00	0.60	0.60	3.50	0.60	17.46	34.90	1.10	0.60	1.90		
18	1.00	1.10	1.00	0.60	0.60	1.40	0.60	15.42	33.55	1.10	0.80	1.20		
19	1.20	1.00	1.00	0.60	0.60	1.30	0.60	14.40	29.95	1.10	1.20	1.10		
20	2.00	1.00	1.00	0.60	0.60	1.20	0.60	13.04	34.00	1.10	1.20	1.60		
21	2.00	1.00	0.90	0.60	0.90	1.10	2.15	11.68	33.10	1.90	1.20	1.30		
22	2.00	1.00	1.20	1.90	3.05	1.00	2.45	11.00	33.10	11.34	1.20	0.80		
23	2.00	1.40	1.10	1.80	2.30	0.90	1.90	9.84	29.95	33.10	1.20	0.60		
24	2.00	1.10	1.10	1.80	2.30	0.80	2.60	9.26	25.99	34.00	2.75	0.30		
25	2.00	1.00	1.00	1.80	2.15	0.80	3.05	8.39	25.99	34.00	13.72	0.20		
26	2.00	1.00	0.80	1.70	2.15	1.00	5.57	7.64	25.99	33.55	10.13	0.20		
27	2.00	0.90	0.70	1.70	2.75	1.80	59.10	7.18	24.04	33.55	6.03	0.20		
28	2.00	0.90	0.70	1.70	2.15	1.80	85.30	6.49	3.50	34.90	5.34	1.20		
29	2.00	0.90	0.70	1.70	2.00	1.80	79.30	5.80	1.30	38.50		0.70		
30	2.00	0.80	0.60	1.70	1.00	1.70	69.00	5.34	1.00	38.50		0.20		
31		0.80		1.70	0.80		75.70		0.80	38.50		0.00		
Total	50.20	41.17	31.40	31.50	37.75	187.90	405.72	917.02	503.17	352.14	303.94	354.64	3216.55	CMSDAY
Mean	1.67	1.33	1.05	1.02	1.22	6.26	13.09	30.57	16.23	11.36	10.85	11.44	8.81	CMS
Max	2.00	4.42	2.00	1.90	3.05	20.53	85.30	76.90	34.90	38.50	38.50	27.55	85.30	CMS
Min	1.00	0.70	0.60	0.60	0.60	0.80	0.60	5.34	0.80	0.60	0.60	0.00	0.00	CMS
Runoff	4.34	3.56	2.71	2.72	3.26	16.23	35.05	79.23	43.47	30.42	26.26	30.64	277.91	MCM

Momentary Peak 85.30 CMS. at 125.58 m. (MSL.) at 06.00 Hours , on Oct 28, 2008

Runoff Yield 16.68 Liters/Second/Square KM. Momentary Peak Yield 161.47 Liters/Second/Square KM.

WATER YEAR : 2008

SAKAE KRANG RIVER BASIN

Huai Tak Daet at Ban Tak Daet, Uthai Thani (Ct.19)

Lat 15 - 27 - 07 N Long 100 - 02 - 00 E

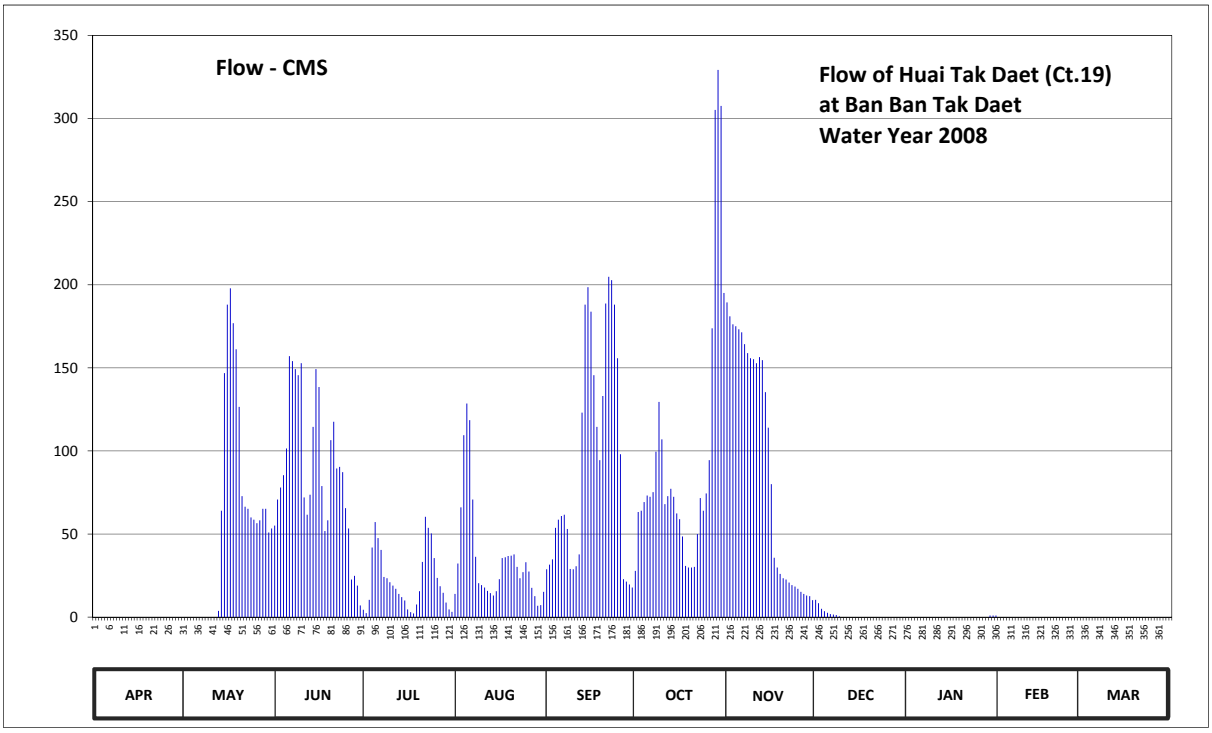
Location : on left bank near Ban Tak Daet.

	Ban Tak Daet	**Amphoe** Mueang	**Changwat** Uthai Thani
Drainge Area	3,454 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+10.000 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank about 5.00 meters from the top staff gage.	**Elevation** +22.890 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 mean of 5 readings		
Period of Available Gage Records	1998 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Float	-		
Rated by Current Meter	1998 to date		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	Overbank flow starts at elevation +24.350 m.(MSL.), and is including overbank flow.		
General Description	Records good. Stage-discharge relation defined by 15 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.07	17.20	20.36	18.16	18.65	19.39	19.34	23.02	18.47	17.00	17.09	17.05	
2	17.07	17.20	20.77	18.05	19.56	19.53	20.58	22.90	18.37	17.13	17.09	17.04	
3	17.07	17.20	20.95	18.47	20.65	19.67	20.60	22.82	18.19	17.13	17.09	17.04	
4	17.13	17.20	21.12	19.93	21.63	20.32	20.73	22.80	18.11	17.13	17.09	17.03	
5	17.12	17.20	21.47	20.42	22.01	20.46	20.83	22.77	18.06	17.13	17.09	17.03	
6	17.12	17.20	22.50	20.12	21.81	20.52	20.81	22.74	18.02	17.13	17.08	17.03	
7	17.11	17.20	22.45	19.88	20.77	20.54	20.88	22.62	18.00	17.13	17.08	17.01	
8	17.11	17.20	22.37	19.16	19.73	20.30	21.43	22.53	17.94	17.13	17.08	17.01	
9	17.11	17.20	22.31	19.12	18.97	19.40	22.03	22.48	17.85	17.13	17.08	17.00	
10	17.10	17.20	22.43	19.00	18.91	19.39	21.58	22.47	17.73	17.13	17.07	16.34	
11	17.10	17.16	20.80	18.90	18.84	19.48	20.70	22.43	17.62	17.12	17.07	16.34	
12	17.10	17.23	20.54	18.80	18.74	19.79	20.82	22.49	17.55	17.12	17.07	16.34	
13	17.10	18.12	20.84	18.65	18.67	21.90	20.93	22.46	17.51	17.12	17.07	16.34	
14	17.09	20.60	21.73	18.55	18.60	23.00	20.81	22.14	17.48	17.12	17.06	16.34	
15	17.09	22.33	22.37	18.45	18.73	23.15	20.56	21.72	17.41	17.12	17.08	16.34	
16	17.09	23.00	22.19	18.17	19.09	22.94	20.47	21.00	17.36	17.12	17.08	16.34	
17	17.08	23.14	20.97	18.08	19.70	22.31	20.15	19.71	17.29	17.12	17.07	16.34	
18	17.09	22.83	20.26	18.04	19.72	21.73	19.49	19.44	17.23	17.12	17.07	16.34	
19	17.09	22.57	20.45	18.33	19.75	21.32	19.44	19.25	17.18	17.12	17.07	16.34	
20	17.09	21.97	21.57	18.73	19.76	22.10	19.44	19.12	17.12	17.12	17.06	16.34	
21	17.12	20.82	21.79	19.61	19.79	23.01	19.46	19.08	17.09	17.11	17.06	16.34	
22	17.12	20.66	21.21	20.51	19.46	23.24	20.20	18.99	17.07	17.11	17.06	16.34	
23	17.11	20.63	21.23	20.32	19.12	23.21	20.79	18.91	17.04	17.11	17.06	16.34	
24	17.10	20.50	21.16	20.21	19.30	23.00	20.60	18.87	17.02	17.11	17.05	16.34	
25	17.09	20.46	20.64	19.70	19.60	22.48	20.86	18.80	17.01	17.11	17.05	16.34	
26	17.09	20.40	20.31	19.13	19.32	21.40	21.32	18.71	17.01	17.10	17.05	16.34	
27	17.09	20.45	19.08	18.88	18.83	19.09	22.78	18.65	17.01	17.10	17.05	16.34	
28	17.09	20.63	19.19	18.68	18.58	19.02	24.59	18.60	17.00	17.10	17.05	16.34	
29	17.20	20.63	18.90	18.39	18.29	18.93	24.89	18.58	17.00	17.90		16.34	
30	17.20	20.23	18.30	18.17	18.31	18.84	24.62	18.46	17.00	17.90		16.34	
31		20.31		18.09	18.71		23.10		17.00	17.90		16.34	
Mean	17.10	19.57	21.01	18.99	19.47	20.98	21.12	20.82	17.48	17.19	17.07	16.54	
Max	17.20	23.14	22.50	20.51	22.01	23.24	24.89	23.02	18.47	17.90	17.09	17.05	24.89
Min	17.07	17.16	18.30	18.04	18.29	18.84	19.34	18.46	17.00	17.00	17.05	16.34	16.34

Annual Max Momentary Gage Height	24.91	m. (MSL.) ,	at 15.00 Hours , on Oct 29 , 2008		
Zero Gage at Bottom Elevation	10.00	m. (MSL.) ,	River Bed	16.34	m. (MSL.)
Left Bank Elevation	24.36	m. (MSL.) ,			
Right Bank Elevation	24.35	m. (MSL.) ,	Drainage Are	3,454	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	55.10	4.43	14.00	28.80	27.80	189.40	10.40	0.00	0.00	0.00		
2	0.00	0.00	70.80	2.42	32.20	31.60	63.20	181.00	8.40	0.00	0.00	0.00		
3	0.00	0.00	78.00	10.40	66.00	34.75	64.00	176.20	4.98	0.00	0.00	0.00		
4	0.00	0.00	85.40	41.90	109.50	53.70	69.20	175.00	3.52	0.00	0.00	0.00		
5	0.00	0.00	101.50	57.20	128.50	58.60	73.20	173.20	2.60	0.00	0.00	0.00		
6	0.00	0.00	157.00	47.60	118.50	60.80	72.40	171.40	1.87	0.00	0.00	0.00		
7	0.00	0.00	154.00	40.40	70.80	61.60	75.20	164.20	1.50	0.00	0.00	0.00		
8	0.00	0.00	149.20	24.20	36.25	53.00	99.50	158.80	1.20	0.00	0.00	0.00		
9	0.00	0.00	145.60	23.40	20.40	29.00	129.50	155.80	0.50	0.00	0.00	0.00		
10	0.00	0.00	152.80	21.00	19.20	28.80	107.00	155.20	0.00	0.00	0.00	0.00		
11	0.00	0.00	72.00	19.00	17.80	30.60	68.00	152.80	0.00	0.00	0.00	0.00		
12	0.00	0.00	61.60	17.00	15.80	37.75	72.80	156.40	0.00	0.00	0.00	0.00		
13	0.00	3.70	73.60	14.00	14.40	123.00	77.20	154.60	0.00	0.00	0.00	0.00		
14	0.00	64.00	114.50	12.00	13.00	188.00	72.40	135.40	0.00	0.00	0.00	0.00		
15	0.00	146.80	149.20	10.00	15.60	198.50	62.40	114.00	0.00	0.00	0.00	0.00		
16	0.00	188.00	138.40	4.62	22.80	183.80	58.95	80.00	0.00	0.00	0.00	0.00		
17	0.00	197.80	78.80	2.97	35.50	145.60	48.50	35.75	0.00	0.00	0.00	0.00		
18	0.00	176.80	51.80	2.23	36.00	114.50	30.80	29.80	0.00	0.00	0.00	0.00		
19	0.00	161.20	58.25	7.60	36.75	94.40	29.80	26.00	0.00	0.00	0.00	0.00		
20	0.00	126.50	106.50	15.60	37.00	133.00	29.80	23.40	0.00	0.00	0.00	0.00		
21	0.00	72.80	117.50	33.25	37.75	188.70	30.20	22.60	0.00	0.00	0.00	0.00		
22	0.00	66.40	89.45	60.40	30.20	204.80	50.00	20.80	0.00	0.00	0.00	0.00		
23	0.00	65.20	90.35	53.70	23.40	202.70	71.60	19.20	0.00	0.00	0.00	0.00		
24	0.00	60.00	87.20	50.30	27.00	188.00	64.00	18.40	0.00	0.00	0.00	0.00		
25	0.00	58.60	65.60	35.50	33.00	155.80	74.40	17.00	0.00	0.00	0.00	0.00		
26	0.00	56.50	53.35	23.60	27.40	98.00	94.40	15.20	0.00	0.00	0.00	0.00		
27	0.00	58.25	22.60	18.60	17.60	22.80	173.80	14.00	0.00	0.00	0.00	0.00		
28	0.00	65.20	24.80	14.60	12.60	21.40	305.20	13.00	0.00	0.00	0.00	0.00		
29	0.00	65.20	19.00	8.80	6.82	19.60	329.20	12.60	0.00	1.00		0.00		
30	0.00	50.90	7.00	4.62	7.20	17.80	307.60	10.20	0.00	1.00		0.00		
31		53.35		3.15	15.20		195.00		0.00	1.00		0.00		
Total	0.00	1737.20	2630.90	684.49	1098.17	2809.40	3027.05	2771.35	34.97	3.00	0.00	0.00	14796.53	CMSDAY
Mean	0.00	56.04	87.70	22.08	35.42	93.65	97.65	92.38	1.13	0.10	0.00	0.00	40.54	CMS
Max	0.00	197.80	157.00	60.40	128.50	204.80	329.20	189.40	10.40	1.00	0.00	0.00	329.20	CMS
Min	0.00	0.00	7.00	2.23	6.82	17.80	27.80	10.20	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	150.09	227.31	59.14	94.88	242.73	261.54	239.44	3.02	0.26	0.00	0.00	1278.42	MCM

Momentary Peak 330.80 CMS. at 24.91 m. (MSL.) at 15.00 Hours , on Oct 29, 2008

Runoff Yield 11.74 Liters/Second/Square KM. Momentary Peak Yield 95.77 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	691 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+96.620 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank near the automatic gage buiding		**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 Float	-		
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 good. Stage-discharge relation defined by 15 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

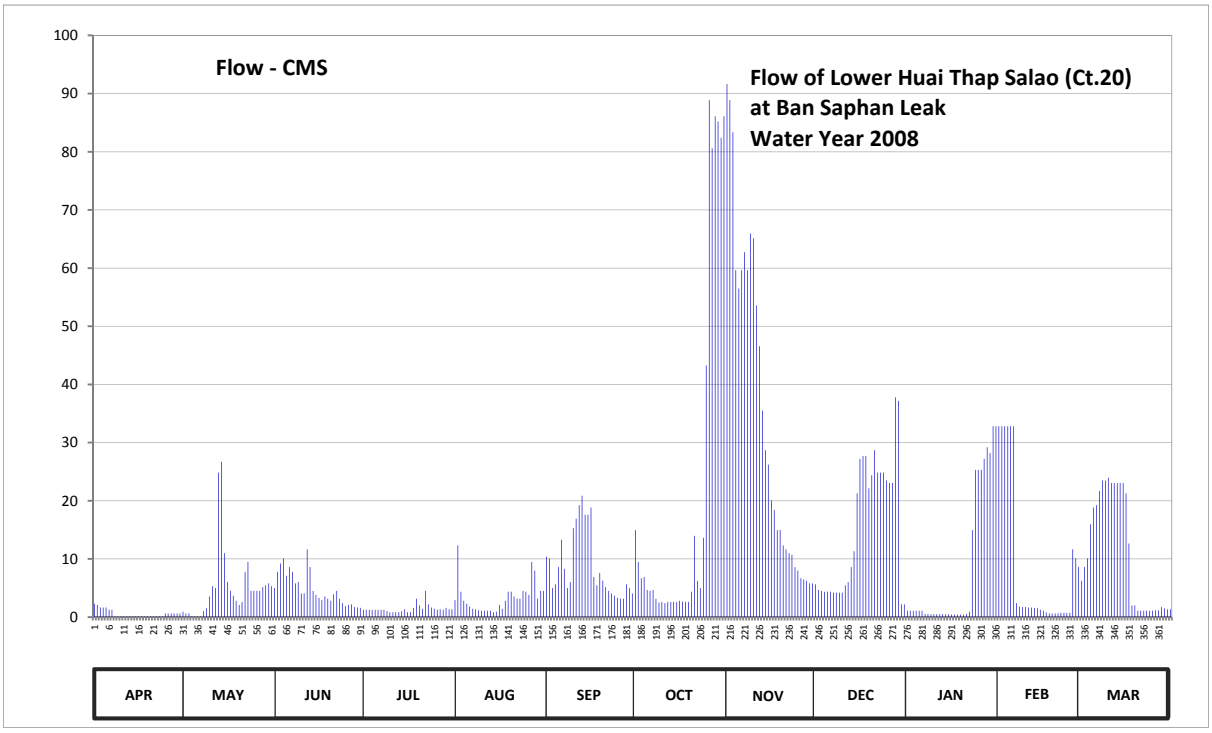
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	98.94	98.77	99.15	98.82	99.00	99.38	99.52	100.71	99.19	98.80	99.93	99.22	
2	98.92	98.72	99.29	98.82	99.44	99.37	99.35	100.68	99.13	98.80	99.93	99.32	
3	98.87	98.72	99.34	98.82	99.11	99.15	99.24	100.62	99.12	98.80	99.93	99.37	
4	98.87	98.62	99.37	98.82	98.99	99.19	99.25	100.34	99.11	98.80	99.93	99.55	
5	98.87	98.62	99.26	98.82	98.94	99.32	99.13	100.30	99.11	98.80	99.93	99.63	
6	98.82	98.62	99.32	98.82	98.89	99.47	99.12	100.34	99.11	98.80	99.93	99.64	
7	98.82	98.62	99.29	98.82	98.84	99.31	99.13	100.38	99.10	98.71	98.95	99.70	
8	98.62	98.79	99.20	98.82	98.83	99.15	99.02	100.34	99.10	98.71	98.89	99.74	
9	98.62	98.85	99.21	98.79	98.81	99.21	98.96	100.42	99.10	98.70	98.88	99.74	
10	98.62	99.05	99.09	98.76	98.80	99.53	98.97	100.41	99.10	98.70	98.88	99.75	
11	98.62	99.17	99.09	98.76	98.80	99.58	98.95	100.26	99.18	98.70	98.87	99.73	
12	98.62	99.15	99.42	98.76	98.80	99.64	98.97	100.16	99.21	98.70	98.87	99.73	
13	98.62	99.77	99.32	98.76	98.80	99.68	98.97	99.98	99.32	98.70	98.86	99.73	
14	98.62	99.81	99.12	98.78	98.76	99.60	98.97	99.85	99.41	98.70	98.85	99.73	
15	98.62	99.40	99.07	98.83	98.77	99.60	98.97	99.80	99.69	98.70	98.82	99.73	
16	98.62	99.21	99.03	98.76	98.92	99.63	98.99	99.66	99.82	98.69	98.80	99.69	
17	98.62	99.12	99.00	98.76	98.84	99.25	98.98	99.62	99.83	98.69	98.75	99.45	
18	98.62	99.06	99.05	98.86	98.99	99.18	98.97	99.52	99.83	98.69	98.72	98.91	
19	98.62	98.99	99.02	99.02	99.11	99.28	98.97	99.52	99.71	98.69	98.72	98.91	
20	98.62	98.92	98.99	98.91	99.11	99.22	99.11	99.44	99.76	98.69	98.72	98.80	
21	98.62	98.97	99.08	98.84	99.05	99.16	99.49	99.42	99.85	98.71	98.72	98.80	
22	98.62	99.29	99.12	99.12	99.02	99.12	99.22	99.40	99.77	98.77	98.74	98.80	
23	98.62	99.35	99.02	98.93	99.02	99.09	99.15	99.39	99.77	99.52	98.74	98.80	
24	98.62	99.12	98.95	98.87	99.12	99.06	99.48	99.32	99.77	99.78	98.74	98.80	
25	98.72	99.12	98.90	98.84	99.11	99.03	100.11	99.30	99.74	99.78	98.74	98.80	
26	98.72	99.12	98.92	98.82	99.07	99.02	100.68	99.24	99.73	99.78	99.42	98.81	
27	98.72	99.12	98.93	98.83	99.35	99.02	100.59	99.23	99.73	99.82	99.37	98.81	
28	98.72	99.16	98.88	98.82	99.30	99.19	100.65	99.22	100.02	99.86	99.32	98.88	
29	98.72	99.18	98.87	98.86	99.02	99.15	100.64	99.20	100.01	99.84		98.85	
30	98.72	99.20	98.86	98.83	99.12	99.09	100.61	99.20	98.93	99.93		98.83	
31		99.17		98.83	99.12		100.65		98.93	99.93		98.83	
Mean	98.70	99.06	99.11	98.84	99.00	99.29	99.45	99.84	99.46	99.04	99.11	99.26	
Max	98.94	99.81	99.42	99.12	99.44	99.68	100.68	100.71	100.02	99.93	99.93	99.75	100.71
Min	98.62	98.62	98.86	98.76	98.76	99.02	98.95	99.20	98.93	98.69	98.72	98.80	98.62

Annual Max Momentary Gage Height 100.82 m. (MSL.) , at 12.00 Hours , on Oct 26, 2008

Zero Gage at Bottom Elevation 96.62 m. (MSL.) , River Bed 98.21 m. (MSL)

Left Bank Elevation 104.35 m. (MSL.) ,

Right Bank Elevation 104.34 m. (MSL.) , Drainage Are 691 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.30	0.92	5.00	1.26	2.90	10.40	14.96	91.65	5.64	1.10	32.82	6.24		
2	2.10	0.62	7.78	1.26	12.32	10.10	9.50	88.86	4.68	1.10	32.82	8.60		
3	1.66	0.62	9.20	1.26	4.36	5.00	6.68	83.34	4.52	1.10	32.82	10.10		
4	1.66	0.10	10.10	1.26	2.80	5.64	6.90	59.62	4.36	1.10	32.82	15.95		
5	1.66	0.10	7.12	1.26	2.30	8.60	4.68	56.50	4.36	1.10	32.82	18.83		
6	1.26	0.10	8.60	1.26	1.82	13.31	4.52	59.62	4.36	1.10	32.82	19.24		
7	1.26	0.10	7.78	1.26	1.42	8.30	4.68	62.74	4.20	0.56	2.40	21.70		
8	0.10	1.04	5.80	1.26	1.34	5.00	3.16	59.62	4.20	0.56	1.82	23.50		
9	0.10	1.50	6.02	1.04	1.18	6.02	2.50	65.94	4.20	0.50	1.74	23.50		
10	0.10	3.55	4.07	0.86	1.10	15.29	2.60	65.12	4.20	0.50	1.74	23.95		
11	0.10	5.32	4.07	0.86	1.10	16.94	2.40	53.58	5.48	0.50	1.66	23.05		
12	0.10	5.00	11.66	0.86	1.10	19.24	2.60	46.56	6.02	0.50	1.66	23.05		
13	0.10	24.85	8.60	0.86	1.10	20.88	2.60	35.52	8.60	0.50	1.58	23.05		
14	0.10	26.70	4.52	0.98	0.86	17.60	2.60	28.70	11.33	0.50	1.50	23.05		
15	0.10	11.00	3.81	1.34	0.92	17.60	2.60	26.20	21.29	0.50	1.26	23.05		
16	0.10	6.02	3.29	0.86	2.10	18.83	2.80	20.06	27.20	0.45	1.10	21.29		
17	0.10	4.52	2.90	0.86	1.42	6.90	2.70	18.42	27.70	0.45	0.80	12.65		
18	0.10	3.68	3.55	1.58	2.80	5.48	2.60	14.96	27.70	0.45	0.62	2.00		
19	0.10	2.80	3.16	3.16	4.36	7.56	2.60	14.96	22.15	0.45	0.62	2.00		
20	0.10	2.10	2.80	2.00	4.36	6.24	4.36	12.32	24.40	0.45	0.62	1.10		
21	0.10	2.60	3.94	1.42	3.55	5.16	13.97	11.66	28.70	0.56	0.62	1.10		
22	0.10	7.78	4.52	4.52	3.16	4.52	6.24	11.00	24.85	0.92	0.74	1.10		
23	0.10	9.50	3.16	2.20	3.16	4.07	5.00	10.70	24.85	14.96	0.74	1.10		
24	0.10	4.52	2.40	1.66	4.52	3.68	13.64	8.60	24.85	25.30	0.74	1.10		
25	0.62	4.52	1.90	1.42	4.36	3.29	43.26	8.00	23.50	25.30	0.74	1.10		
26	0.62	4.52	2.10	1.26	3.81	3.16	88.86	6.68	23.05	25.30	11.66	1.18		
27	0.62	4.52	2.20	1.34	9.50	3.16	80.60	6.46	23.05	27.20	10.10	1.18		
28	0.62	5.16	1.74	1.26	8.00	5.64	86.10	6.24	37.80	29.20	8.60	1.74		
29	0.62	5.48	1.66	1.58	3.16	5.00	85.18	5.80	37.20	28.20		1.50		
30	0.62	5.80	1.58	1.34	4.52	4.07	82.42	5.80	2.20	32.82		1.34		
31		5.32		1.34	4.52		86.10		2.20	32.82		1.34		
Total	17.32	160.36	145.03	44.68	103.92	266.68	679.41	1045.23	478.84	256.05	249.98	339.68	3787.18	CMSDAY
Mean	0.58	5.17	4.83	1.44	3.35	8.89	21.92	34.84	15.45	8.26	8.93	10.96	10.38	CMS
Max	2.30	26.70	11.66	4.52	12.32	20.88	88.86	91.65	37.80	32.82	32.82	23.95	91.65	CMS
Min	0.10	0.10	1.58	0.86	0.86	3.16	2.40	5.80	2.20	0.45	0.62	1.10	0.10	CMS
Runoff	1.50	13.86	12.53	3.86	8.98	23.04	58.70	90.31	41.37	22.12	21.60	29.35	327.21	MCM

Momentary Peak 102.20 CMS. at 100.82 m. (MSL.) at 12.00 Hours , on Oct 26, 2008

Runoff Yield 15.01 Liters/Second/Square KM. Momentary Peak Yield 147.87 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	- 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**	+4.920 m. (A.D)
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 Float	-		
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 15 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

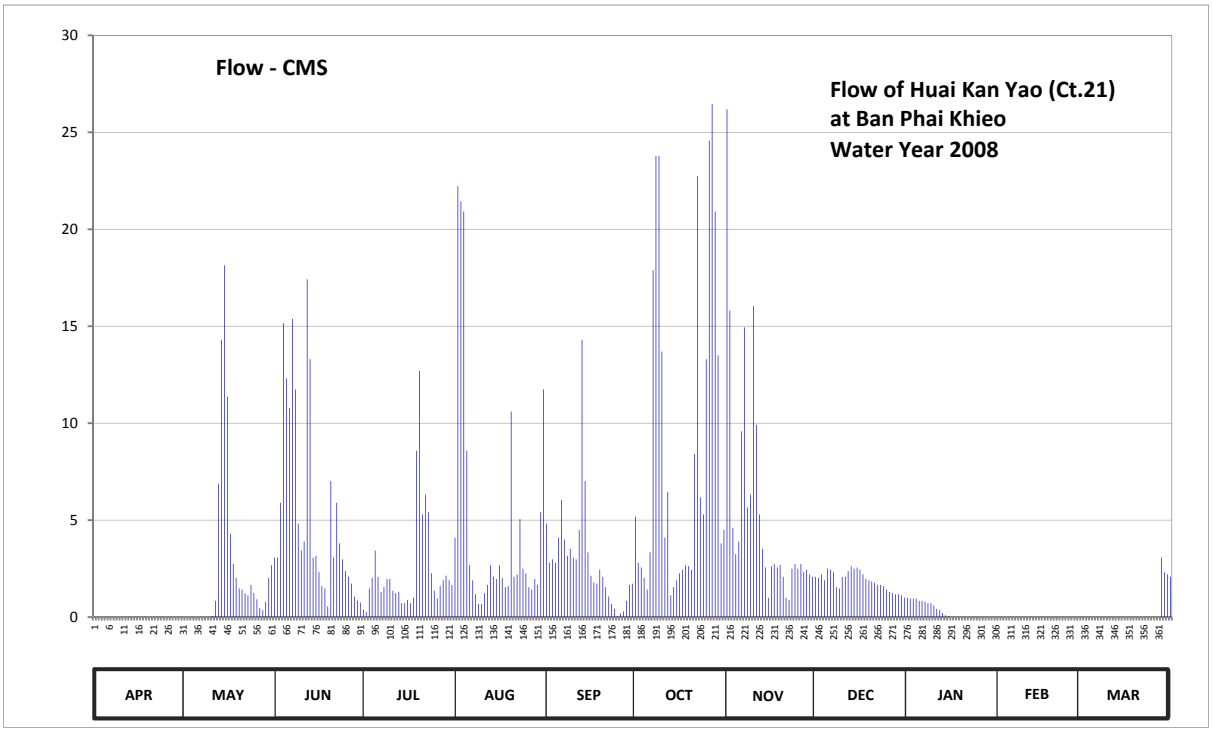
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.33	0.14	1.13	0.63	1.24	1.31	1.34	2.37	0.98	0.80	0.37	0.24	
2	-0.33	0.21	1.13	0.59	2.22	1.10	1.10	1.96	0.97	0.79	0.37	0.22	
3	-0.33	0.22	1.40	0.88	2.19	1.12	1.06	1.29	1.00	0.79	0.37	0.20	
4	-0.33	0.23	1.93	0.97	2.17	1.10	0.97	1.15	0.95	0.79	0.36	0.18	
5	-0.33	0.22	1.79	1.17	1.58	1.24	0.87	1.22	1.05	0.76	0.36	0.16	
6	-0.33	0.19	1.71	0.98	1.08	1.41	1.16	1.64	1.04	0.76	0.35	0.11	
7	-0.33	0.18	1.94	0.85	0.95	1.23	2.05	1.92	1.02	0.75	0.35	0.06	
8	-0.33	0.17	1.76	0.89	0.83	1.14	2.28	1.38	0.89	0.73	0.35	-0.33	
9	-0.33	0.16	1.31	0.96	0.72	1.18	2.28	1.43	0.88	0.73	0.34	-0.33	
10	-0.33	0.19	1.17	0.96	0.72	1.13	1.86	1.97	0.98	0.70	0.34	-0.33	
11	-0.33	0.52	1.22	0.86	0.84	1.12	1.24	1.66	0.98	0.64	0.34	-0.33	
12	-0.33	0.76	2.03	0.84	0.91	1.28	1.44	1.35	1.03	0.62	0.33	-0.33	
13	-0.33	1.47	1.84	0.85	1.08	1.89	0.82	1.18	1.07	0.57	0.33	-0.33	
14	-0.33	1.89	1.13	0.73	0.98	1.48	0.89	1.06	1.05	0.53	0.32	-0.33	
15	-0.33	2.06	1.14	0.73	0.96	1.16	0.95	0.80	1.06	0.52	0.32	-0.33	
16	-0.33	1.74	1.02	0.77	1.08	0.99	1.01	1.07	1.04	0.49	0.32	-0.33	
17	-0.33	1.26	0.90	0.73	0.97	0.93	1.04	1.09	1.00	0.46	0.31	-0.33	
18	-0.33	1.09	0.88	0.80	0.89	0.92	1.08	1.06	0.96	0.45	0.31	-0.33	
19	-0.33	0.97	0.68	1.58	0.90	1.04	1.07	1.08	0.95	0.44	0.30	-0.33	
20	-0.33	0.88	1.48	1.81	1.70	0.98	1.04	0.98	0.94	0.40	0.30	-0.33	
21	-0.33	0.87	1.13	1.35	0.98	0.89	1.57	0.80	0.93	0.40	0.29	-0.33	
22	-0.33	0.84	1.40	1.43	1.00	0.81	2.24	0.77	0.91	0.40	0.28	-0.33	
23	-0.33	0.82	1.21	1.36	1.33	0.72	1.42	1.05	0.91	0.40	0.28	-0.33	
24	-0.33	0.91	1.12	1.01	1.05	0.64	1.35	1.09	0.90	0.40	0.28	-0.33	
25	-0.33	0.84	1.03	0.86	1.01	0.52	1.84	1.05	0.87	0.40	0.27	-0.33	
26	-0.33	0.78	0.98	0.79	0.89	0.56	2.31	1.09	0.85	0.38	0.26	-0.33	
27	-0.33	0.66	0.92	0.90	0.87	0.60	2.38	1.02	0.84	0.38	0.26	-0.33	
28	-0.33	0.62	0.81	0.95	0.96	0.76	2.17	1.04	0.83	0.38	0.25	1.13	
29	-0.33	0.75	0.76	0.99	0.91	0.91	1.85	1.00	0.83	0.37		1.02	
30	-0.33	0.97	0.74	0.95	1.36	0.92	1.21	0.98	0.82	0.37		1.00	
31		1.08		0.91	1.76		1.28		0.80	0.37		0.98	
Mean	-0.33	0.76	1.26	0.97	1.17	1.04	1.46	1.25	0.95	0.55	0.32	-0.04	
Max	-0.33	2.06	2.03	1.81	2.22	1.89	2.38	2.37	1.07	0.80	0.37	1.13	2.38
Min	-0.33	0.14	0.68	0.59	0.72	0.52	0.82	0.77	0.80	0.37	0.25	-0.33	-0.33

Annual Max Momentary Gage Height 2.60 m. (A.D.) , at 06.00 Hours , on Oct 7, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed -0.24 m. (A.D.)

Left Bank Elevation 4.10 m. (A.D.) ,

Right Bank Elevation 4.09 m. (A.D.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	3.07	0.39	4.10	4.82	5.18	26.19	2.08	1.00	0.00	0.00		
2	0.00	0.00	3.07	0.27	22.22	2.80	2.80	15.82	2.02	0.96	0.00	0.00		
3	0.00	0.00	5.90	1.48	21.44	2.98	2.56	4.60	2.20	0.96	0.00	0.00		
4	0.00	0.00	15.16	2.02	20.92	2.80	2.02	3.25	1.90	0.96	0.00	0.00		
5	0.00	0.00	12.31	3.43	8.58	4.10	1.42	3.90	2.50	0.84	0.00	0.00		
6	0.00	0.00	10.79	2.08	2.68	6.04	3.34	9.58	2.44	0.84	0.00	0.00		
7	0.00	0.00	15.38	1.30	1.90	4.00	17.90	14.94	2.32	0.80	0.00	0.00		
8	0.00	0.00	11.74	1.54	1.18	3.16	23.78	5.66	1.54	0.72	0.00	0.00		
9	0.00	0.00	4.82	1.96	0.68	3.52	23.78	6.32	1.48	0.72	0.00	0.00		
10	0.00	0.00	3.43	1.96	0.68	3.07	13.70	16.04	2.08	0.60	0.00	0.00		
11	0.00	0.06	3.90	1.36	1.24	2.98	4.10	9.92	2.08	0.42	0.00	0.00		
12	0.00	0.84	17.42	1.24	1.66	4.50	6.46	5.30	2.38	0.36	0.00	0.00		
13	0.00	6.88	13.30	1.30	2.68	14.30	1.12	3.52	2.62	0.21	0.00	0.00		
14	0.00	14.30	3.07	0.72	2.08	7.02	1.54	2.56	2.50	0.09	0.00	0.00		
15	0.00	18.14	3.16	0.72	1.96	3.34	1.90	1.00	2.56	0.06	0.00	0.00		
16	0.00	11.36	2.32	0.88	2.68	2.14	2.26	2.62	2.44	0.00	0.00	0.00		
17	0.00	4.30	1.60	0.72	2.02	1.78	2.44	2.74	2.20	0.00	0.00	0.00		
18	0.00	2.74	1.48	1.00	1.54	1.72	2.68	2.56	1.96	0.00	0.00	0.00		
19	0.00	2.02	0.54	8.58	1.60	2.44	2.62	2.68	1.90	0.00	0.00	0.00		
20	0.00	1.48	7.02	12.70	10.60	2.08	2.44	2.08	1.84	0.00	0.00	0.00		
21	0.00	1.42	3.07	5.30	2.08	1.54	8.42	1.00	1.78	0.00	0.00	0.00		
22	0.00	1.24	5.90	6.32	2.20	1.06	22.74	0.88	1.66	0.00	0.00	0.00		
23	0.00	1.12	3.80	5.42	5.06	0.68	6.18	2.50	1.66	0.00	0.00	0.00		
24	0.00	1.66	2.98	2.26	2.50	0.42	5.30	2.74	1.60	0.00	0.00	0.00		
25	0.00	1.24	2.38	1.36	2.26	0.06	13.30	2.50	1.42	0.00	0.00	0.00		
26	0.00	0.92	2.08	0.96	1.54	0.18	24.57	2.74	1.30	0.00	0.00	0.00		
27	0.00	0.48	1.72	1.60	1.42	0.30	26.46	2.32	1.24	0.00	0.00	0.00		
28	0.00	0.36	1.06	1.90	1.96	0.84	20.92	2.44	1.18	0.00	0.00	3.07		
29	0.00	0.80	0.84	2.14	1.66	1.66	13.50	2.20	1.18	0.00		2.32		
30	0.00	2.02	0.76	1.90	5.42	1.72	3.80	2.08	1.12	0.00		2.20		
31		2.68		1.66	11.74		4.50		1.00	0.00		2.08		
Total	0.00	76.06	164.07	76.47	150.28	88.05	273.73	162.68	58.18	9.54	0.00	9.67	1068.73	CMSDAY
Mean	0.00	2.45	5.47	2.47	4.85	2.94	8.83	5.42	1.88	0.31	0.00	0.31	2.93	CMS
Max	0.00	18.14	17.42	12.70	22.22	14.30	26.46	26.19	2.62	1.00	0.00	3.07	26.46	CMS
Min	0.00	0.00	0.54	0.27	0.68	0.06	1.12	0.88	1.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	6.57	14.18	6.61	12.98	7.61	23.65	14.06	5.03	0.82	0.00	0.84	92.34	MCM

Momentary Peak 32.60 CMS. at 2.60 m. (A.D.) at 06.00 Hours , on Oct 7, 2008

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

WATER YEAR : 2008

PASAK RIVER BASIN

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

Lat 16 - 46 - 51 N Long 101 - 14 - 57 E

Location : on left bank near the bridge of Samakkhichai - Nonthakit Road.

Ban Tan Dieo **Amphoe** Lom Sak **Changwat** Phetchabun

Drainge Area	1,037 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+136.630 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the staff gage. **Elevation** +142.630 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	1950 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by the concrete weir about 150 meters downstream from the gage site. Stage-discharge relation defined by 20 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

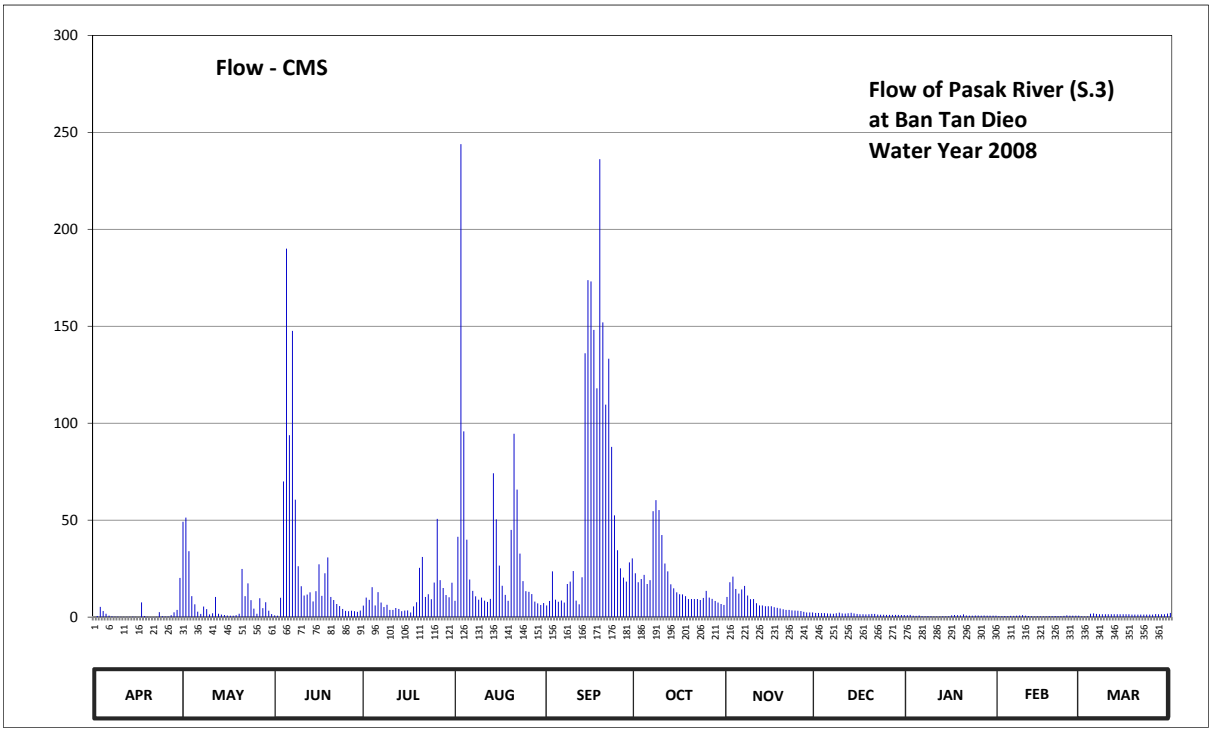
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	137.53	141.54	138.24	139.12	139.44	139.13	140.48	139.64	138.58	138.25	137.98	137.91	
2	138.05	141.61	138.15	139.61	141.28	139.43	140.20	140.20	138.58	138.33	138.00	137.84	
3	139.04	141.00	139.60	139.49	145.09	140.53	140.31	140.39	138.57	138.14	138.06	137.93	
4	138.74	139.68	142.20	140.03	142.87	139.50	140.44	139.97	138.57	138.12	138.02	138.48	
5	138.49	139.21	144.55	139.13	141.23	139.39	140.14	139.81	138.53	138.21	138.11	138.53	
6	138.13	138.69	142.82	139.86	140.29	139.46	140.27	139.95	138.50	138.00	138.11	138.47	
7	137.88	138.46	143.92	139.33	139.90	139.33	141.72	140.07	138.48	137.94	138.18	138.43	
8	137.78	139.06	141.92	139.03	139.67	140.14	141.91	139.71	138.55	137.99	138.20	138.41	
9	137.71	138.88	140.66	139.18	139.50	140.22	141.74	139.52	138.62	137.93	138.26	138.41	
10	137.69	138.39	140.06	138.83	139.61	140.54	141.31	139.53	138.53	137.83	138.14	138.41	
11	137.67	138.54	139.71	138.83	139.45	139.45	140.73	139.29	138.50	137.85	138.04	138.41	
12	137.67	139.64	139.76	138.96	139.38	139.21	140.53	139.13	138.55	137.83	137.89	138.41	
13	137.67	138.49	139.85	138.89	139.54	140.37	140.13	139.13	138.60	137.90	137.84	138.41	
14	137.72	138.36	139.41	138.73	142.32	143.71	139.99	139.08	138.52	137.88	137.88	138.41	
15	137.65	138.28	139.89	138.78	141.58	144.34	139.85	139.08	138.47	137.94	137.93	138.41	
16	137.56	138.20	140.71	138.79	140.68	144.33	139.78	139.08	138.43	138.23	137.93	138.41	
17	139.34	138.17	139.70	138.63	140.08	143.93	139.77	139.01	138.41	138.28	137.93	138.41	
18	138.06	138.15	140.48	139.07	139.75	143.36	139.68	138.97	138.39	138.26	137.98	138.38	
19	137.70	138.27	140.87	139.35	139.44	145.02	139.53	138.93	138.42	138.23	138.00	138.37	
20	137.59	138.49	139.64	140.62	141.40	144.00	139.53	138.87	138.46	138.40	138.04	138.37	
21	137.61	140.59	139.48	140.88	142.84	143.19	139.53	138.83	138.47	138.22	137.98	138.37	
22	137.68	139.68	139.23	139.64	142.08	143.66	139.53	138.83	138.36	138.17	137.98	138.37	
23	138.65	140.16	139.09	139.78	140.95	142.67	139.48	138.80	138.34	138.13	138.10	138.36	
24	138.02	139.47	138.89	139.52	140.24	141.65	139.59	138.78	138.34	138.19	138.23	138.36	
25	137.81	138.92	138.76	140.19	139.89	141.02	139.90	138.77	138.32	138.20	138.18	138.38	
26	137.83	138.48	138.73	141.59	139.87	140.61	139.61	138.74	138.31	138.18	138.16	138.44	
27	138.27	139.57	138.77	140.27	139.79	140.36	139.54	138.68	138.31	138.20	138.15	138.43	
28	138.64	138.95	138.73	140.00	139.40	140.22	139.43	138.63	138.31	138.18	138.13	138.41	
29	138.83	139.35	138.68	139.74	139.28	140.76	139.33	138.63	138.31	138.18		138.41	
30	140.35	138.77	138.78	139.62	139.17	140.85	139.24	138.63	138.30	138.15		138.51	
31		138.45		140.18	139.30		139.17		138.29	138.13		138.59	
Mean	138.11	139.15	140.04	139.54	140.49	141.35	140.08	139.22	138.45	138.11	138.05	138.37	
Max	140.35	141.61	144.55	141.59	145.09	145.02	141.91	140.39	138.62	138.40	138.26	138.59	145.09
Min	137.53	138.15	138.15	138.63	139.17	139.13	139.17	138.63	138.29	137.83	137.84	137.84	137.53

Annual Max Momentary Gage Height 145.15 m. (MSL.) , at 12.00 Hours , on Aug 3, 2008

Zero Gage at Bottom Elevation 136.63 m. (MSL.) , River Bed 136.33 m. (MSL.)

Left Bank Elevation 145.93 m. (MSL.) ,

Right Bank Elevation 146.23 m. (MSL.) , Drainage Are 1,037 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.03	49.20	0.92	5.90	8.40	5.98	22.60	10.40	2.12	0.95	0.48	0.41		
2	0.58	51.30	0.73	10.10	41.40	8.30	18.00	18.00	2.12	1.19	0.50	0.34		
3	5.30	34.00	10.00	8.90	243.90	23.60	19.65	20.85	2.08	0.71	0.59	0.43		
4	3.11	10.80	70.00	15.45	95.80	9.00	21.80	14.55	2.08	0.68	0.53	1.72		
5	1.76	6.58	190.00	5.98	39.90	7.93	17.10	12.15	1.92	0.83	0.67	1.92		
6	0.70	2.79	93.80	12.90	19.35	8.60	19.05	14.25	1.80	0.50	0.67	1.68		
7	0.38	1.64	147.60	7.48	13.50	7.48	54.60	16.05	1.72	0.44	0.77	1.52		
8	0.28	5.45	60.60	5.23	10.70	17.10	60.30	11.10	2.00	0.49	0.80	1.44		
9	0.21	4.10	26.20	6.35	9.00	18.30	55.20	9.20	2.33	0.43	0.98	1.44		
10	0.19	1.37	15.90	3.73	10.10	23.80	42.30	9.30	1.92	0.33	0.71	1.44		
11	0.17	1.96	11.10	3.73	8.50	8.50	27.60	7.18	1.80	0.35	0.56	1.44		
12	0.17	10.40	11.60	4.70	7.85	6.58	23.60	5.98	2.00	0.33	0.39	1.44		
13	0.17	1.76	12.75	4.18	9.40	20.55	16.95	5.98	2.20	0.40	0.34	1.44		
14	0.22	1.28	8.10	3.05	74.20	136.05	14.85	5.60	1.88	0.38	0.38	1.44		
15	0.15	1.04	13.35	3.37	50.40	173.80	12.75	5.60	1.68	0.44	0.43	1.44		
16	0.06	0.80	27.20	3.44	26.60	173.10	11.80	5.60	1.52	0.89	0.43	1.44		
17	7.55	0.76	11.00	2.40	16.20	148.15	11.70	5.08	1.44	1.04	0.43	1.44		
18	0.59	0.73	22.60	5.53	11.50	118.00	10.80	4.78	1.37	0.98	0.48	1.34		
19	0.20	1.01	30.75	7.63	8.40	236.20	9.30	4.48	1.48	0.89	0.50	1.31		
20	0.09	1.76	10.40	25.40	45.00	152.00	9.30	4.03	1.64	1.40	0.56	1.31		
21	0.11	24.80	8.80	31.00	94.60	109.55	9.30	3.73	1.68	0.86	0.48	1.31		
22	0.18	10.80	6.73	10.40	65.80	133.30	9.30	3.73	1.28	0.76	0.48	1.31		
23	2.53	17.40	5.68	11.80	32.75	87.80	8.80	3.50	1.22	0.70	0.65	1.28		
24	0.53	8.70	4.18	9.20	18.60	52.50	9.90	3.37	1.22	0.79	0.89	1.28		
25	0.31	4.40	3.24	17.85	13.35	34.50	13.50	3.31	1.16	0.80	0.77	1.34		
26	0.33	1.72	3.05	50.70	13.05	25.20	10.10	3.11	1.13	0.77	0.74	1.56		
27	1.01	9.70	3.31	19.05	11.90	20.40	9.40	2.72	1.13	0.80	0.73	1.52		
28	2.46	4.63	3.05	15.00	8.00	18.30	8.30	2.40	1.13	0.77	0.70	1.44		
29	3.73	7.63	2.72	11.40	7.10	28.20	7.48	2.40	1.13	0.77		1.44		
30	20.25	3.31	3.37	10.20	6.28	30.25	6.80	2.40	1.10	0.73		1.84		
31		1.60		17.70	7.25		6.28		1.07	0.70		2.16		
Total	53.35	283.42	818.73	349.75	1028.78	1843.02	578.41	220.83	50.35	22.10	16.64	42.86	5308.24	CMSDAY
Mean	1.78	9.14	27.29	11.28	33.19	61.43	18.66	7.36	1.62	0.71	0.59	1.38	14.54	CMS
Max	20.25	51.30	190.00	50.70	243.90	236.20	60.30	20.85	2.33	1.40	0.98	2.16	243.90	CMS
Min	0.03	0.73	0.73	2.40	6.28	5.98	6.28	2.40	1.07	0.33	0.34	0.34	0.03	CMS
Runoff	4.61	24.49	70.74	30.22	88.89	159.24	49.97	19.08	4.35	1.91	1.44	3.70	458.63	MCM

Momentary Peak 250.50 CMS. at 145.15 m. (MSL.) at 12.00 Hours , on Aug 3, 2008

Runoff Yield 14.02 Liters/Second/Square KM. Momentary Peak Yield 241.56 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir about 400 meters downstream from the gage site. Stage-discharge relation defined by 10 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

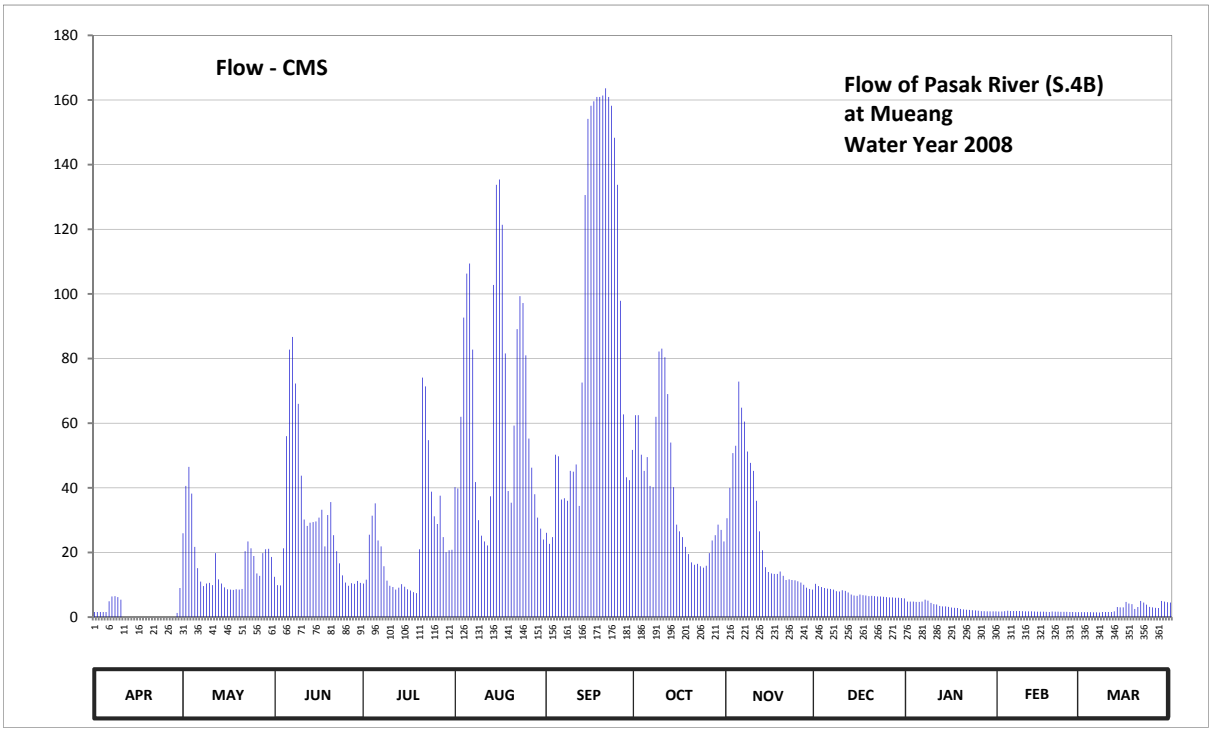
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.22	111.33	110.43	110.24	112.06	111.34	112.98	111.58	110.23	109.68	109.25	109.21	
2	109.22	112.08	110.19	110.36	112.04	111.11	112.98	112.05	110.16	109.68	109.25	109.21	
3	109.22	112.34	110.18	111.30	112.96	111.25	112.49	112.51	110.13	109.68	109.27	109.21	
4	109.22	111.96	111.02	111.62	113.99	112.49	112.29	112.60	110.10	109.67	109.30	109.21	
5	109.22	111.05	112.72	111.81	114.38	112.47	112.46	113.33	110.08	109.67	109.28	109.20	
6	109.69	110.61	113.66	111.18	114.46	111.87	112.08	113.06	110.07	109.68	109.28	109.20	
7	109.84	110.30	113.79	111.06	113.66	111.89	112.06	112.90	110.05	109.74	109.28	109.19	
8	109.85	110.16	113.31	110.65	112.14	111.85	112.96	112.53	110.00	109.71	109.28	109.22	
9	109.82	110.24	113.10	110.33	111.55	112.29	113.64	112.39	109.99	109.64	109.27	109.22	
10	109.74	110.26	112.23	110.17	111.28	112.28	113.67	112.29	110.03	109.60	109.26	109.22	
11	108.72	110.19	111.56	110.13	111.16	112.37	113.58	111.85	110.01	109.59	109.26	109.22	
12	108.70	110.92	111.46	110.05	111.08	111.77	113.20	111.37	109.96	109.53	109.26	109.26	
13	108.68	110.37	111.51	110.11	111.92	113.32	112.64	110.98	109.90	109.51	109.25	109.48	
14	108.66	110.24	111.52	110.22	114.28	114.99	112.06	110.63	109.87	109.51	109.24	109.47	
15	108.61	110.12	111.53	110.14	115.07	115.56	111.48	110.53	109.86	109.49	109.24	109.47	
16	108.70	110.06	111.59	110.06	115.11	115.65	111.37	110.50	109.90	109.46	109.24	109.67	
17	108.68	110.05	111.71	110.02	114.76	115.68	111.25	110.49	109.88	109.45	109.23	109.62	
18	108.62	110.04	111.06	109.97	113.62	115.71	111.05	110.49	109.87	109.44	109.22	109.60	
19	108.50	110.06	111.63	109.94	112.00	115.71	110.90	110.54	109.85	109.40	109.25	109.40	
20	108.58	110.05	111.83	111.00	111.82	115.72	110.73	110.45	109.86	109.37	109.24	109.48	
21	108.56	110.07	111.29	113.37	112.85	115.77	110.68	110.35	109.85	109.35	109.24	109.70	
22	108.55	110.96	110.96	113.28	113.87	115.71	110.70	110.37	109.84	109.34	109.23	109.65	
23	108.55	111.16	110.71	112.67	114.18	115.65	110.65	110.35	109.84	109.33	109.23	109.58	
24	108.59	111.02	110.46	111.99	114.12	115.43	110.62	110.34	109.83	109.32	109.23	109.49	
25	108.56	110.86	110.27	111.61	113.60	115.07	110.66	110.31	109.82	109.30	109.22	109.47	
26	108.55	110.50	110.17	111.49	112.69	114.14	110.92	110.27	109.81	109.27	109.22	109.45	
27	108.55	110.45	110.25	111.93	112.33	112.99	111.18	110.20	109.81	109.27	109.21	109.44	
28	108.71	110.92	110.23	111.25	111.95	112.21	111.29	110.11	109.80	109.26	109.21	109.70	
29	109.16	111.00	110.32	110.94	111.59	112.17	111.48	110.07	109.80	109.26		109.68	
30	110.10	111.01	110.26	110.98	111.42	112.55	111.40	110.05	109.79	109.26		109.66	
31		110.84		110.99	111.20		111.16		109.78	109.26		109.65	
Mean	108.98	110.68	111.37	111.00	112.88	113.57	111.83	111.18	109.93	109.47	109.25	109.43	
Max	110.10	112.34	113.79	113.37	115.11	115.77	113.67	113.33	110.23	109.74	109.30	109.70	115.77
Min	108.50	110.04	110.17	109.94	111.08	111.11	110.62	110.05	109.78	109.26	109.21	109.19	108.50

Annual Max Momentary Gage Height 115.78 m. (MSL.) , at 06.00 Hours , on Sep 21, 2008

Zero Gage at Bottom Elevation 106.50 m. (MSL.) , River Bed 106.86 m. (MSL)

Left Bank Elevation 115.90 m. (MSL.) ,

Right Bank Elevation 115.90 m. (MSL.) , Drainage Are 3,459 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.60	25.95	12.45	10.40	40.20	26.10	62.50	30.60	10.30	4.80	1.75	1.55		
2	1.60	40.60	9.90	11.60	39.80	22.65	62.50	40.00	9.60	4.80	1.75	1.55		
3	1.60	46.50	9.80	25.50	62.00	24.75	50.25	50.75	9.30	4.80	1.85	1.55		
4	1.60	38.20	21.30	31.40	92.70	50.25	45.25	53.00	9.00	4.70	2.00	1.55		
5	1.60	21.75	56.00	35.20	106.30	49.75	49.50	72.90	8.80	4.70	1.90	1.50		
6	4.90	15.15	82.80	23.70	109.40	36.40	40.60	64.80	8.70	4.80	1.90	1.50		
7	6.40	11.00	86.70	21.90	82.80	36.80	40.20	60.50	8.50	5.40	1.90	1.45		
8	6.50	9.60	72.30	15.75	41.80	36.00	62.00	51.25	8.00	5.10	1.90	1.60		
9	6.20	10.40	66.00	11.30	30.00	45.25	82.20	47.75	7.90	4.40	1.85	1.60		
10	5.40	10.60	43.75	9.70	25.20	45.00	83.10	45.25	8.30	4.00	1.80	1.60		
11	0.00	9.90	30.20	9.30	23.40	47.25	80.40	36.00	8.10	3.93	1.80	1.60		
12	0.00	19.80	28.20	8.50	22.20	34.40	69.00	26.55	7.60	3.48	1.80	1.80		
13	0.00	11.70	29.20	9.10	37.40	72.60	54.00	20.70	7.00	3.33	1.75	3.10		
14	0.00	10.40	29.40	10.20	102.80	130.60	40.20	15.45	6.70	3.33	1.70	3.03		
15	0.00	9.20	29.60	9.40	133.80	154.20	28.60	13.95	6.60	3.18	1.70	3.03		
16	0.00	8.60	30.80	8.60	135.40	158.25	26.55	13.50	7.00	2.95	1.70	4.70		
17	0.00	8.50	33.20	8.20	121.40	159.60	24.75	13.35	6.80	2.88	1.65	4.20		
18	0.00	8.40	21.90	7.70	81.60	160.95	21.75	13.35	6.70	2.80	1.60	4.00		
19	0.00	8.60	31.60	7.40	39.00	160.95	19.50	14.10	6.50	2.50	1.75	2.50		
20	0.00	8.50	35.60	21.00	35.40	161.40	16.95	12.75	6.60	2.35	1.70	3.10		
21	0.00	8.70	25.35	74.10	59.25	163.65	16.20	11.50	6.50	2.25	1.70	5.00		
22	0.00	20.40	20.40	71.40	89.10	160.95	16.50	11.70	6.40	2.20	1.65	4.50		
23	0.00	23.40	16.65	54.75	99.30	158.25	15.75	11.50	6.40	2.15	1.65	3.85		
24	0.00	21.30	12.90	38.80	97.20	148.35	15.30	11.40	6.30	2.10	1.65	3.18		
25	0.00	18.90	10.70	31.20	81.00	133.80	15.90	11.10	6.20	2.00	1.60	3.03		
26	0.00	13.50	9.70	28.80	55.25	97.90	19.80	10.70	6.10	1.85	1.60	2.88		
27	0.00	12.75	10.50	37.60	46.25	62.75	23.70	10.00	6.10	1.85	1.55	2.80		
28	0.00	19.80	10.30	24.75	38.00	43.25	25.35	9.10	6.00	1.80	1.55	5.00		
29	1.30	21.00	11.20	20.10	30.80	42.40	28.60	8.70	6.00	1.80		4.80		
30	9.00	21.15	10.60	20.70	27.40	51.75	27.00	8.50	5.90	1.80		4.60		
31		18.60		20.85	24.00		23.40		5.80	1.80		4.50		
Total	47.70	532.85	899.00	718.90	2010.15	2676.20	1187.30	800.70	225.70	99.83	48.70	90.65	9337.68	CMSDAY
Mean	1.59	17.19	29.97	23.19	64.84	89.21	38.30	26.69	7.28	3.22	1.74	2.92	25.58	CMS
Max	9.00	46.50	86.70	74.10	135.40	163.65	83.10	72.90	10.30	5.40	2.00	5.00	163.65	CMS
Min	0.00	8.40	9.70	7.40	22.20	22.65	15.30	8.50	5.80	1.80	1.55	1.45	0.00	CMS
Runoff	4.12	46.04	77.67	62.11	173.68	231.22	102.58	69.18	19.50	8.63	4.21	7.83	806.78	MCM

Momentary Peak 164.10 CMS. at 115.78 m. (MSL.) at 06.00 Hours , on Sep 21, 2008

Runoff Yield 7.40 Liters/Second/Square KM. Momentary Peak Yield 47.44 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	14,449 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 Float	-
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 19 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

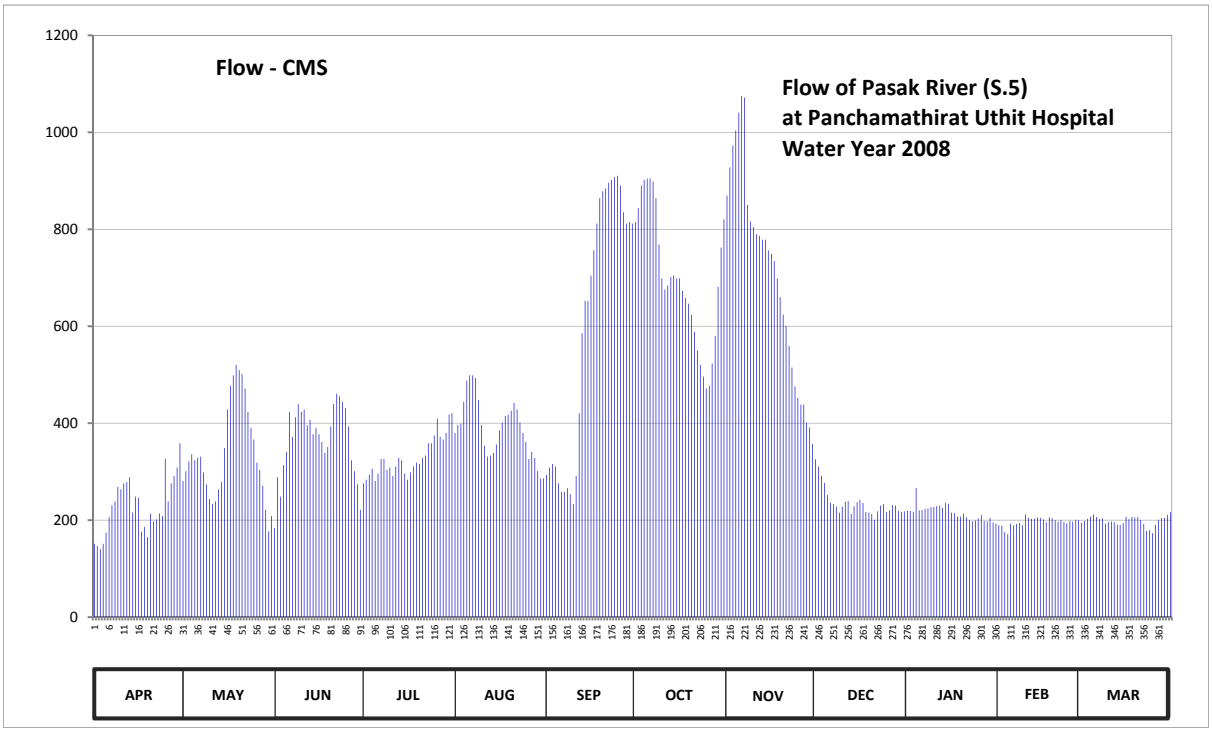
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.34	0.88	0.48	0.86	1.27	0.93	2.82	3.01	1.64	0.89	0.52	0.59	
2	0.32	0.96	0.91	0.89	1.33	0.99	2.92	3.21	1.55	0.89	0.51	0.65	
3	0.29	1.04	0.75	0.93	1.34	1.02	3.08	3.36	1.44	0.87	0.44	0.71	
4	0.34	1.10	1.01	0.98	1.51	1.00	3.12	3.46	1.35	1.28	0.42	0.76	
5	0.44	1.05	1.12	0.88	1.67	0.86	3.13	3.58	1.17	0.90	0.57	0.81	
6	0.58	1.07	1.43	0.94	1.71	0.79	3.13	3.69	1.04	0.91	0.52	0.75	
7	0.68	1.08	1.24	1.06	1.71	0.79	3.11	3.68	1.02	0.93	0.56	0.70	
8	0.71	0.95	1.39	1.06	1.69	0.82	2.99	3.59	0.97	0.94	0.59	0.72	
9	0.83	0.85	1.49	0.97	1.52	0.77	2.66	3.51	0.85	0.96	0.52	0.57	
10	0.81	0.73	1.43	0.99	1.33	0.69	2.42	3.48	0.97	0.96	0.81	0.61	
11	0.86	0.69	1.45	0.92	1.17	0.92	2.34	3.44	1.06	0.98	0.73	0.63	
12	0.87	0.71	1.33	1.00	1.08	1.42	2.37	3.43	1.07	0.99	0.71	0.61	
13	0.91	0.81	1.37	1.07	1.09	2.03	2.43	3.41	0.82	0.95	0.71	0.54	
14	0.62	0.87	1.26	1.05	1.11	2.26	2.44	3.41	0.98	1.04	0.74	0.53	
15	0.75	1.15	1.31	0.94	1.18	2.26	2.42	3.35	1.05	1.02	0.73	0.58	
16	0.74	1.45	1.26	0.89	1.29	2.44	2.42	3.33	1.09	0.85	0.69	0.76	
17	0.45	1.63	1.20	0.95	1.35	2.62	2.33	3.29	1.04	0.84	0.61	0.70	
18	0.49	1.71	1.11	1.00	1.40	2.81	2.28	3.18	0.86	0.76	0.74	0.75	
19	0.40	1.79	1.16	1.03	1.41	2.99	2.24	3.06	0.85	0.76	0.72	0.74	
20	0.61	1.75	1.32	1.02	1.44	3.04	2.16	2.94	0.82	0.83	0.67	0.75	
21	0.54	1.72	1.49	1.07	1.50	3.06	2.04	2.86	0.68	0.74	0.63	0.68	
22	0.56	1.61	1.57	1.09	1.45	3.10	1.90	2.70	0.88	0.67	0.67	0.56	
23	0.61	1.43	1.55	1.19	1.35	3.12	1.79	2.53	0.99	0.64	0.62	0.45	
24	0.59	1.31	1.51	1.19	1.27	3.14	1.70	2.37	1.02	0.66	0.58	0.46	
25	1.06	1.22	1.46	1.25	1.20	3.15	1.61	2.27	0.86	0.72	0.65	0.43	
26	0.71	1.03	1.32	1.38	1.06	3.08	1.63	2.21	0.90	0.80	0.63	0.53	
27	0.86	0.97	1.05	1.24	1.12	2.89	1.80	2.21	1.00	0.65	0.68	0.68	
28	0.92	0.84	0.96	1.22	1.07	2.81	2.01	2.03	0.99	0.64	0.67	0.73	
29	0.99	0.64	0.85	1.27	0.96	2.82	2.36	1.98	0.89	0.73		0.73	
30	1.19	0.45	0.64	1.41	0.90	2.81	2.64	1.81	0.87	0.60		0.80	
31		0.59		1.42	0.90		2.84		0.88	0.57		0.86	
Mean	0.67	1.10	1.21	1.07	1.30	2.05	2.42	3.01	1.02	0.84	0.63	0.66	
Max	1.19	1.79	1.57	1.42	1.71	3.15	3.13	3.69	1.64	1.28	0.81	0.86	3.69
Min	0.29	0.45	0.48	0.86	0.90	0.69	1.61	1.81	0.68	0.57	0.42	0.43	0.29

Annual Max Momentary Gage Height 3.73 m. (MSL.) , at 03.00 Hours , on Nov 7, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -8.37 m. (MSL)

Left Bank Elevation 5.10 m. (MSL.) ,

Right Bank Elevation 7.22 m. (MSL.) , Drainage Are 14,449 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	151.20	281.00	183.40	276.00	379.90	293.50	814.80	869.90	325.80	219.10	189.40	194.30		
2	146.60	301.00	288.50	283.50	396.10	308.50	843.80	927.90	310.50	219.10	188.70	198.50		
3	139.93	321.00	248.50	293.50	398.80	316.00	890.20	972.60	291.80	217.30	175.25	202.90		
4	151.20	336.00	313.50	306.00	444.70	311.00	901.80	1003.60	277.00	266.40	171.00	207.40		
5	174.20	323.50	341.00	281.00	487.90	276.00	904.70	1040.80	252.10	220.00	192.90	211.90		
6	206.40	328.50	423.10	296.00	498.70	258.50	904.70	1074.90	235.80	221.10	189.40	206.50		
7	231.00	331.00	371.80	326.00	498.70	258.50	898.90	1071.80	233.40	223.30	192.20	202.00		
8	238.50	298.50	412.30	326.00	493.30	266.00	864.10	850.70	227.70	224.40	194.30	203.80		
9	268.50	273.50	439.30	303.50	447.40	253.50	768.40	816.30	215.50	226.60	189.40	192.90		
10	263.50	243.50	423.10	308.50	396.10	233.50	698.80	804.60	227.70	226.60	211.90	195.70		
11	276.00	233.50	428.50	291.00	353.50	291.00	675.60	789.80	238.20	228.80	204.70	197.10		
12	278.50	238.50	396.10	311.00	331.00	420.40	684.30	786.10	239.40	229.90	202.90	195.70		
13	288.50	263.50	406.90	328.50	333.50	585.70	701.70	778.70	212.80	225.50	202.90	190.80		
14	216.00	278.50	377.20	323.50	338.50	652.40	704.60	778.70	228.80	235.80	205.60	190.10		
15	248.50	348.50	390.70	296.00	356.00	652.40	698.80	756.50	237.00	233.40	204.70	193.60		
16	246.00	428.50	377.20	283.50	385.30	704.60	698.80	749.10	241.80	215.50	201.30	207.40		
17	176.50	477.10	361.00	298.50	401.50	756.80	672.70	734.70	235.80	214.60	195.70	202.00		
18	185.70	498.70	338.50	311.00	415.00	811.90	658.20	698.40	216.40	207.40	205.60	206.50		
19	165.00	520.30	351.00	318.50	417.70	864.10	646.60	660.00	215.50	207.40	203.80	205.60		
20	213.50	509.50	393.40	316.00	425.80	878.60	623.40	624.00	212.80	213.70	199.90	206.50		
21	197.20	501.40	439.30	328.50	442.00	884.40	588.60	601.20	200.60	205.60	197.10	200.60		
22	201.80	471.70	460.90	333.50	428.50	896.00	550.00	559.00	218.20	199.90	199.90	192.20		
23	213.50	423.10	455.50	358.50	401.50	901.80	520.30	514.80	229.90	197.80	196.40	177.38		
24	208.70	390.70	444.70	358.50	379.90	907.60	496.00	475.80	233.40	199.20	193.60	179.50		
25	326.00	366.40	431.20	374.50	361.00	910.50	471.70	452.10	216.40	203.80	198.50	173.13		
26	238.50	318.50	393.40	409.60	326.00	890.20	477.10	438.30	220.00	211.00	197.10	190.10		
27	276.00	303.50	323.50	371.80	341.00	835.10	523.00	438.30	231.00	198.50	200.60	200.60		
28	291.00	271.00	301.00	366.40	328.50	811.90	579.90	401.00	229.90	197.80	199.90	204.70		
29	308.50	221.00	273.50	379.90	301.00	814.80	681.40	391.00	219.10	204.70		204.70		
30	358.50	176.50	221.00	417.70	286.00	811.90	762.60	357.00	217.30	195.00		211.00		
31		208.70		420.40	286.00		820.60		218.20	192.90		216.40		
Total	6884.93	10486.60	11009.00	10196.80	12080.80	18057.10	21726.10	21417.60	7309.80	6682.10	5504.65	6161.51	137516.99	CMSDAY
Mean	229.50	338.28	366.97	328.93	389.70	601.90	700.84	713.92	235.80	215.55	196.59	198.76	376.76	CMS
Max	358.50	520.30	460.90	420.40	498.70	910.50	904.70	1074.90	325.80	266.40	211.90	216.40	1074.90	CMS
Min	139.93	176.50	183.40	276.00	286.00	233.50	471.70	357.00	200.60	192.90	171.00	173.13	139.93	CMS
Runoff	594.86	906.04	951.18	881	1043.78	1560.13	1877.14	1850.48	631.57	577.33	475.6	532.35	11881.47	MCM

Momentary Peak 1087.30 CMS. at 3.73 m. (MSL.) at 03.00 Hours , on Nov 7, 2008

Runoff Yield 26.08 Liters/Second/Square KM. Momentary Peak Yield 75.25 Liters/Second/Square KM.

WATER YEAR : 2008

PASAK RIVER BASIN

Lam Muak Lek at Ban Tharahad , Saraburi (S.7A)

Lat 14 - 47 - 17 N Long 101 - 07 - 18 E

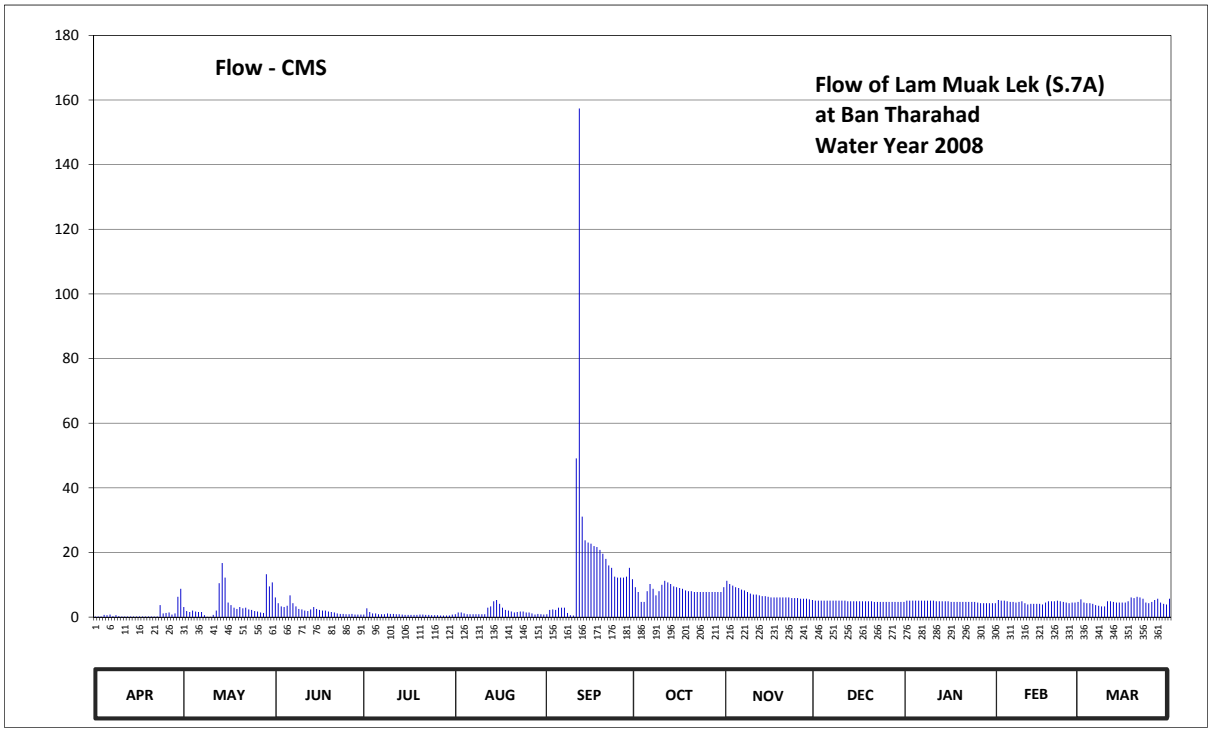
Location : on right bank at Ban Tharahad.

	Ban Tharahad	**Amphoe** Wang Muang	**Changwat** Saraburi		
Drainge Area	580 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 near the bridge.		**Elevation** +11.282 m.(A.D.)		
Gage Reading Frequency	Recording.				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	2003 to date				
Rating Operation					
Period of Rating	2003 to date				
Rated by Float	-				
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 45 discharge measurements made in 2008.				

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.42	0.63	0.78	0.48	0.49	0.49	0.91	0.99	0.73	0.73	0.74	0.75	
2	0.42	0.56	0.69	0.61	0.53	0.58	0.85	0.95	0.73	0.73	0.73	0.70	
3	0.42	0.54	0.64	0.54	0.53	0.59	0.71	0.93	0.73	0.73	0.73	0.69	
4	0.47	0.57	0.63	0.51	0.51	0.58	0.71	0.91	0.73	0.73	0.72	0.69	
5	0.46	0.55	0.65	0.51	0.49	0.62	0.86	0.90	0.73	0.73	0.71	0.68	
6	0.48	0.54	0.81	0.49	0.49	0.62	0.95	0.88	0.73	0.73	0.71	0.66	
7	0.43	0.54	0.69	0.49	0.49	0.62	0.89	0.87	0.73	0.73	0.70	0.65	
8	0.46	0.46	0.64	0.49	0.49	0.52	0.81	0.85	0.73	0.73	0.71	0.64	
9	0.43	0.41	0.60	0.51	0.49	0.46	0.86	0.83	0.73	0.73	0.72	0.64	
10	0.42	0.41	0.59	0.50	0.49	0.45	0.94	0.82	0.73	0.73	0.69	0.72	
11	0.42	0.47	0.57	0.50	0.49	2.14	0.99	0.82	0.73	0.72	0.67	0.72	
12	0.42	0.57	0.56	0.49	0.62	4.22	0.97	0.81	0.72	0.72	0.68	0.71	
13	0.42	0.96	0.59	0.49	0.64	1.66	0.95	0.80	0.72	0.72	0.68	0.70	
14	0.42	1.21	0.63	0.48	0.72	1.45	0.92	0.80	0.72	0.72	0.68	0.70	
15	0.42	1.03	0.60	0.47	0.74	1.43	0.91	0.79	0.72	0.72	0.68	0.70	
16	0.42	0.70	0.58	0.47	0.68	1.42	0.90	0.78	0.72	0.71	0.67	0.70	
17	0.42	0.66	0.57	0.47	0.62	1.40	0.89	0.78	0.72	0.71	0.70	0.72	
18	0.42	0.62	0.57	0.47	0.58	1.39	0.87	0.78	0.72	0.71	0.72	0.78	
19	0.42	0.60	0.55	0.47	0.57	1.36	0.86	0.78	0.72	0.71	0.72	0.77	
20	0.42	0.63	0.54	0.48	0.55	1.32	0.86	0.78	0.72	0.71	0.72	0.79	
21	0.42	0.61	0.53	0.48	0.53	1.26	0.85	0.78	0.71	0.71	0.73	0.78	
22	0.42	0.62	0.51	0.47	0.54	1.18	0.85	0.78	0.71	0.71	0.72	0.76	
23	0.66	0.59	0.50	0.47	0.55	1.15	0.85	0.77	0.71	0.71	0.71	0.70	
24	0.51	0.58	0.50	0.46	0.55	1.04	0.85	0.77	0.71	0.71	0.70	0.69	
25	0.52	0.56	0.49	0.46	0.53	1.03	0.85	0.77	0.71	0.70	0.69	0.71	
26	0.53	0.55	0.49	0.46	0.53	1.03	0.85	0.76	0.71	0.69	0.70	0.74	
27	0.48	0.53	0.50	0.45	0.51	1.03	0.85	0.76	0.71	0.69	0.70	0.76	
28	0.51	0.52	0.48	0.45	0.48	1.04	0.85	0.76	0.71	0.69	0.71	0.70	
29	0.79	1.07	0.48	0.45	0.50	1.15	0.85	0.75	0.71	0.69		0.68	
30	0.89	0.92	0.48	0.45	0.49	1.01	0.85	0.74	0.71	0.69		0.67	
31		0.97		0.48	0.48		0.91		0.71	0.69		0.76	
Mean	0.48	0.65	0.58	0.48	0.55	1.14	0.87	0.82	0.72	0.71	0.71	0.71	
Max	0.89	1.21	0.81	0.61	0.74	4.22	0.99	0.99	0.73	0.73	0.74	0.79	4.22
Min	0.42	0.41	0.48	0.45	0.48	0.45	0.71	0.74	0.71	0.69	0.67	0.64	0.41

Annual Max Momentary Gage Height	5.20	m. (A.D.) ,	at 01.00 Hours , on Sep 12, 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	-0.01	m. (A.D.)
Left Bank Elevation	11.23	m. (A.D.) ,			
Right Bank Elevation	11.09	m. (A.D.) ,	Drainage Are	580	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	3.10	6.10	0.80	0.90	0.90	9.25	11.25	5.10	5.10	5.30	5.50		
2	0.20	1.90	4.30	2.70	1.45	2.20	7.75	10.25	5.10	5.10	5.10	4.50		
3	0.20	1.60	3.30	1.60	1.45	2.35	4.70	9.75	5.10	5.10	5.10	4.30		
4	0.70	2.05	3.10	1.15	1.15	2.20	4.70	9.25	5.10	5.10	4.90	4.30		
5	0.60	1.75	3.50	1.15	0.90	2.90	8.00	9.00	5.10	5.10	4.70	4.10		
6	0.80	1.60	6.75	0.90	0.90	2.90	10.25	8.50	5.10	5.10	4.70	3.70		
7	0.30	1.60	4.30	0.90	0.90	2.90	8.75	8.25	5.10	5.10	4.50	3.50		
8	0.60	0.60	3.30	0.90	0.90	1.30	6.75	7.75	5.10	5.10	4.70	3.30		
9	0.30	0.10	2.50	1.15	0.90	0.60	8.00	7.25	5.10	5.10	4.90	3.30		
10	0.20	0.10	2.35	1.00	0.90	0.50	10.00	7.00	5.10	5.10	4.30	4.90		
11	0.20	0.70	2.05	1.00	0.90	49.10	11.25	7.00	5.10	4.90	3.90	4.90		
12	0.20	2.05	1.90	0.90	2.90	157.40	10.75	6.75	4.90	4.90	4.10	4.70		
13	0.20	10.50	2.35	0.90	3.30	31.10	10.25	6.50	4.90	4.90	4.10	4.50		
14	0.20	16.75	3.10	0.80	4.90	23.75	9.50	6.50	4.90	4.90	4.10	4.50		
15	0.20	12.25	2.50	0.70	5.30	23.05	9.25	6.30	4.90	4.90	4.10	4.50		
16	0.20	4.50	2.20	0.70	4.10	22.70	9.00	6.10	4.90	4.70	3.90	4.50		
17	0.20	3.70	2.05	0.70	2.90	22.00	8.75	6.10	4.90	4.70	4.50	4.90		
18	0.20	2.90	2.05	0.70	2.20	21.70	8.25	6.10	4.90	4.70	4.90	6.10		
19	0.20	2.50	1.75	0.70	2.05	20.80	8.00	6.10	4.90	4.70	4.90	5.90		
20	0.20	3.10	1.60	0.80	1.75	19.60	8.00	6.10	4.90	4.70	4.90	6.30		
21	0.20	2.70	1.45	0.80	1.45	18.00	7.75	6.10	4.70	4.70	5.10	6.10		
22	0.20	2.90	1.15	0.70	1.60	16.00	7.75	6.10	4.70	4.70	4.90	5.70		
23	3.70	2.35	1.00	0.70	1.75	15.25	7.75	5.90	4.70	4.70	4.70	4.50		
24	1.15	2.20	1.00	0.60	1.75	12.50	7.75	5.90	4.70	4.70	4.50	4.30		
25	1.30	1.90	0.90	0.60	1.45	12.25	7.75	5.90	4.70	4.50	4.30	4.70		
26	1.45	1.75	0.90	0.60	1.45	12.25	7.75	5.70	4.70	4.30	4.50	5.30		
27	0.80	1.45	1.00	0.50	1.15	12.25	7.75	5.70	4.70	4.30	4.50	5.70		
28	1.15	1.30	0.80	0.50	0.80	12.50	7.75	5.70	4.70	4.30	4.70	4.50		
29	6.30	13.25	0.80	0.50	1.00	15.25	7.75	5.50	4.70	4.30		4.10		
30	8.75	9.50	0.80	0.50	0.90	11.75	7.75	5.30	4.70	4.30		3.90		
31		10.75		0.80	0.80		9.25		4.70	4.30		5.70		
Total	31.10	123.40	70.85	26.95	54.75	547.95	257.90	209.60	151.90	148.10	128.80	146.70	1898.00	CMSDAY
Mean	1.04	3.98	2.36	0.87	1.77	18.27	8.32	6.99	4.90	4.78	4.60	4.73	5.20	CMS
Max	8.75	16.75	6.75	2.70	5.30	157.40	11.25	11.25	5.10	5.10	5.30	6.30	157.40	CMS
Min	0.20	0.10	0.80	0.50	0.80	0.50	4.70	5.30	4.70	4.30	3.90	3.30	0.10	CMS
Runoff	2.69	10.66	6.12	2.33	4.73	47.34	22.28	18.11	13.12	12.80	11.13	12.67	163.99	MCM

Momentary Peak 251.00 CMS. at 5.20 m. (A.D.) at 01.00 Hours , on Sep 12, 2008

Runoff Yield 8.97 Liters/Second/Square KM. Momentary Peak Yield 432.76 Liters/Second/Square KM.

WATER YEAR : 2008

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.

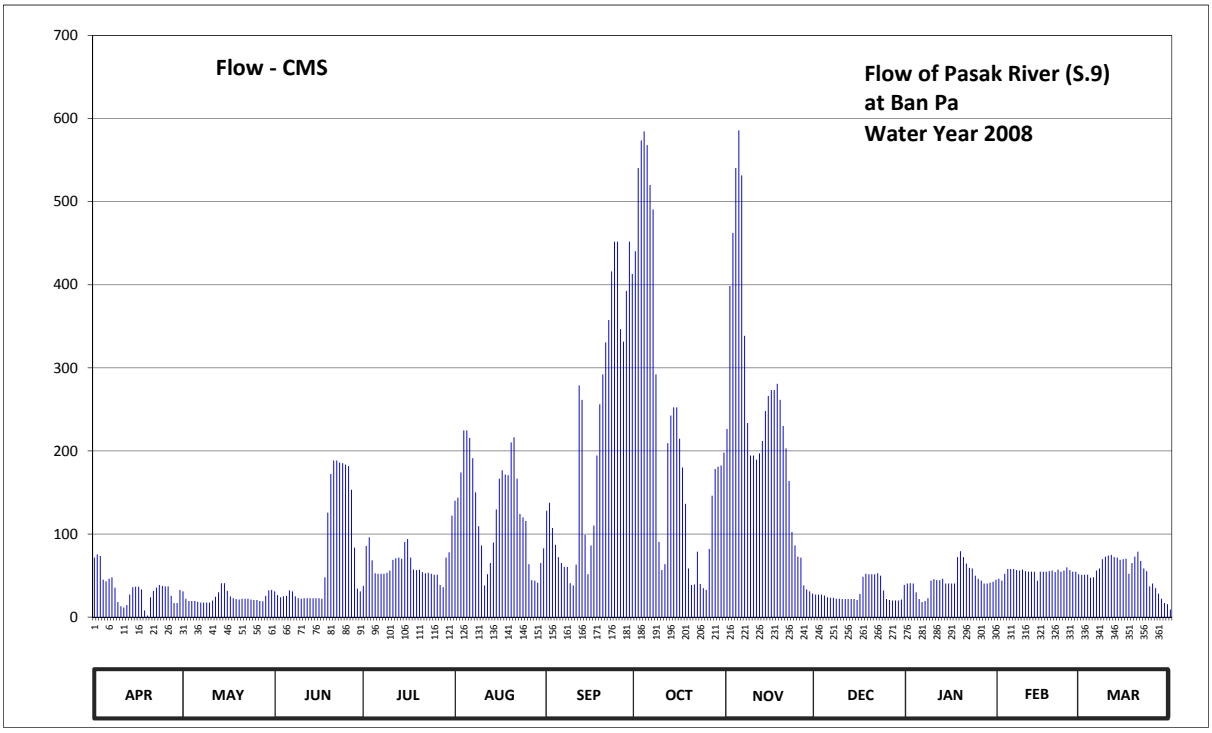
Ban Pa **Amphoe** Kaeng Khoi **Changwat** Saraburi

Drainge Area	14,233 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+7.490 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank under tamarind tree along the measuring line. **Elevation** +23.099 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 mean of 5 readings
Period of Available Gage Records	1973 to date
Rating Operation	
Period of Rating	1973 to date
Rated by Float	-
Rated by Current Meter	1973 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Pasak Dam above gage site. Stage-discharge relation defined by 47 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.67	9.00	9.00	9.12	10.64	10.48	13.85	11.66	8.93	9.17	9.27	9.35	
2	9.73	8.84	8.92	9.88	10.69	10.61	14.80	13.45	8.93	9.18	9.23	9.35	
3	9.70	8.79	8.87	10.03	11.06	10.19	15.10	14.06	8.93	9.17	9.37	9.35	
4	9.25	8.79	8.89	9.62	11.64	9.90	15.20	14.80	8.91	8.98	9.46	9.29	
5	9.22	8.79	8.90	9.38	11.64	9.68	15.05	15.21	8.87	8.83	9.46	9.30	
6	9.27	8.77	9.02	9.37	11.54	9.57	14.61	14.72	8.86	8.76	9.46	9.43	
7	9.30	8.75	9.00	9.37	11.26	9.50	14.33	12.85	8.86	8.79	9.44	9.47	
8	9.08	8.75	8.89	9.37	10.77	9.50	12.38	11.74	8.84	8.85	9.43	9.64	
9	8.76	8.75	8.85	9.39	10.22	9.18	9.95	11.30	8.84	9.23	9.45	9.69	
10	8.66	8.75	8.84	9.43	9.89	9.13	9.44	11.30	8.83	9.26	9.42	9.71	
11	8.63	8.80	8.85	9.63	9.13	9.54	9.55	11.24	8.83	9.24	9.41	9.72	
12	8.69	8.88	8.85	9.66	9.36	12.24	11.47	11.33	8.83	9.24	9.41	9.68	
13	8.93	8.98	8.85	9.67	9.57	12.05	11.84	11.50	8.83	9.27	9.41	9.67	
14	9.09	9.18	8.85	9.65	9.94	10.07	11.95	11.90	8.83	9.17	9.23	9.63	
15	9.10	9.18	8.85	9.95	10.50	9.36	11.95	12.10	8.81	9.17	9.41	9.64	
16	9.10	9.01	8.85	10.00	10.97	9.89	11.53	12.18	8.94	9.17	9.41	9.65	
17	9.04	8.89	8.84	9.67	11.09	10.23	11.13	12.18	9.31	9.17	9.41	9.37	
18	8.56	8.85	9.30	9.45	11.03	11.30	10.59	12.26	9.37	9.68	9.42	9.57	
19	8.44	8.83	10.45	9.44	11.02	11.99	9.47	12.05	9.36	9.79	9.43	9.69	
20	8.87	8.82	11.04	9.45	11.48	12.38	9.14	11.70	9.36	9.68	9.40	9.78	
21	9.01	8.84	11.23	9.40	11.55	12.77	9.15	11.40	9.36	9.56	9.45	9.61	
22	9.08	8.84	11.23	9.38	10.97	13.04	9.78	10.94	9.38	9.48	9.41	9.47	
23	9.14	8.84	11.20	9.39	10.43	13.62	9.16	10.12	9.33	9.47	9.43	9.42	
24	9.12	8.82	11.19	9.37	10.37	13.96	9.07	9.89	9.02	9.33	9.49	9.11	
25	9.11	8.81	11.17	9.35	10.31	13.96	9.03	9.69	8.83	9.27	9.44	9.17	
26	9.11	8.81	11.15	9.35	9.55	12.93	9.83	9.67	8.81	9.23	9.41	9.07	
27	8.90	8.79	10.81	9.14	9.24	12.78	10.72	9.13	8.80	9.17	9.41	8.95	
28	8.74	8.78	9.85	9.09	9.23	13.39	11.11	9.04	8.80	9.17	9.36	8.84	
29	8.74	8.90	9.06	9.67	9.19	13.96	11.14	9.00	8.80	9.19		8.74	
30	9.03	9.02	9.00	9.77	9.57	13.59	11.16	8.95	8.82	9.21		8.71	
31		9.03		10.40	9.84		11.34		9.14	9.25		8.58	
Mean	9.04	8.87	9.59	9.54	10.44	11.36	11.45	11.58	8.98	9.23	9.40	9.38	
Max	9.73	9.18	11.23	10.40	11.64	13.96	15.20	15.21	9.38	9.79	9.49	9.78	15.21
Min	8.44	8.75	8.84	9.09	9.13	9.13	9.03	8.95	8.80	8.76	9.23	8.58	8.44

Annual Max Momentary Gage Height	15.24	m. (MSL.) ,	at 12.00 Hours , on Nov 5, 2008		
Zero Gage at Bottom Elevation	7.49	m. (MSL.) ,	River Bed	5.52	m. (MSL.)
Left Bank Elevation	23.10	m. (MSL.) ,			
Right Bank Elevation	22.57	m. (MSL.) ,	Drainage Are	14,233	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	71.55	31.00	31.00	37.60	140.00	128.00	440.25	226.40	27.15	40.35	46.20	51.00		
2	75.45	22.20	26.60	85.60	143.75	137.75	540.50	398.50	27.15	40.90	43.80	51.00		
3	73.50	19.50	23.85	96.10	174.10	107.30	573.50	462.30	27.15	40.35	52.20	51.00		
4	45.00	19.50	24.95	68.30	224.60	87.00	584.50	540.50	26.05	29.90	57.90	47.40		
5	43.20	19.50	25.50	52.80	224.60	72.20	568.00	585.65	23.85	21.65	57.90	48.00		
6	46.20	18.50	32.10	52.20	215.60	65.05	520.05	531.70	23.30	18.00	57.90	55.95		
7	48.00	17.50	31.00	52.20	191.10	60.50	490.65	338.50	23.30	19.50	56.60	58.55		
8	35.40	17.50	24.95	52.20	150.10	60.50	292.10	233.60	22.20	22.75	55.95	69.60		
9	18.00	17.50	22.75	53.40	109.40	40.90	90.50	194.50	22.20	43.80	57.25	72.85		
10	13.00	17.50	22.20	55.95	86.30	38.15	56.60	194.50	21.65	45.60	55.30	74.15		
11	11.50	20.00	22.75	68.95	38.15	63.10	63.75	189.40	21.65	44.40	54.65	74.80		
12	14.50	24.40	22.75	70.90	51.60	278.80	209.30	197.05	21.65	44.40	54.65	72.20		
13	27.15	29.90	22.75	71.55	65.05	261.50	242.60	212.00	21.65	46.20	54.65	71.55		
14	35.95	40.90	22.75	70.25	89.80	98.90	252.50	248.00	21.65	40.35	43.80	68.95		
15	36.50	40.90	22.75	90.50	129.50	51.60	252.50	266.00	20.55	40.35	54.65	69.60		
16	36.50	31.55	22.75	94.00	166.45	86.30	214.70	273.20	27.70	40.35	54.65	70.25		
17	33.20	24.95	22.20	71.55	176.65	110.10	180.05	273.20	48.60	40.35	54.65	52.20		
18	8.00	22.75	48.00	57.25	171.55	194.50	136.25	280.70	52.20	72.20	55.30	65.05		
19	2.00	21.65	125.75	56.60	170.70	256.10	58.55	261.50	51.60	79.35	55.95	72.85		
20	23.85	21.10	172.40	57.25	210.20	292.10	38.70	230.00	51.60	72.20	54.00	78.70		
21	31.55	22.20	188.55	54.00	216.50	330.50	39.25	203.00	51.60	64.40	57.25	67.65		
22	35.40	22.20	188.55	52.80	166.45	357.50	78.70	163.90	52.80	59.20	54.65	58.55		
23	38.70	22.20	186.00	53.40	124.25	416.10	39.80	102.40	49.80	58.55	55.95	55.30		
24	37.60	21.10	185.15	52.20	119.90	451.80	34.85	86.30	32.10	49.80	59.85	37.05		
25	37.05	20.55	183.45	51.00	115.70	451.80	32.65	72.85	21.65	46.20	56.60	40.35		
26	37.05	20.55	181.75	51.00	63.75	346.50	82.10	71.55	20.55	43.80	54.65	34.85		
27	25.50	19.50	153.30	38.70	44.40	331.50	146.10	38.15	20.00	40.35	54.65	28.25		
28	17.00	19.00	83.50	35.95	43.80	392.50	178.35	33.20	20.00	40.35	51.60	22.20		
29	17.00	25.50	34.30	71.55	41.45	451.80	180.90	31.00	20.00	41.45		17.00		
30	32.65	32.10	31.00	78.05	65.05	412.95	182.60	28.25	21.10	42.60		15.50		
31		32.65		122.00	82.80		197.90		38.70	45.00		9.00		
Total	1007.95	735.85	2185.30	1975.80	4013.25	6433.30	6998.75	6967.80	931.15	1374.65	1523.15	1661.35	35808.30	CMSDAY
Mean	33.60	23.74	72.84	63.74	129.46	214.44	225.77	232.26	30.04	44.34	54.40	53.59	98.10	CMS
Max	75.45	40.90	188.55	122.00	224.60	451.80	584.50	585.65	52.80	79.35	59.85	78.70	585.65	CMS
Min	2.00	17.50	22.20	35.95	38.15	38.15	32.65	28.25	20.00	18.00	43.80	9.00	2.00	CMS
Runoff	87.09	63.58	188.81	170.71	346.74	555.84	604.69	602.02	80.45	118.77	131.60	143.54	3093.84	MCM

Momentary Peak 589.10 CMS. at 15.24 m. (MSL.) at 12.00 Hours , on Nov 5, 2008

Runoff Yield 6.89 Liters/Second/Square KM. Momentary Peak Yield 41.39 Liters/Second/Square KM.

WATER YEAR : 2008

PASAK RIVER BASIN

Huai Nam Phung at Ban Hin Hao, Phetchabun (S.10)

Lat 16 - 56 - 50 N Long 101 - 13 - 10 E

Location : on left bank at Ban Hin Hao.

Ban Hin Hao **Amphoe** Lom Kao **Changwat** Phetchabun

Drainge Area	269 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+153.467 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the gage site. **Elevation** +162.290 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 mean of 5 readings
Period of Available Gage Records	2003 to date
Rating Operation	
Period of Rating	2003 to date
Rated by Float	-
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 3 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

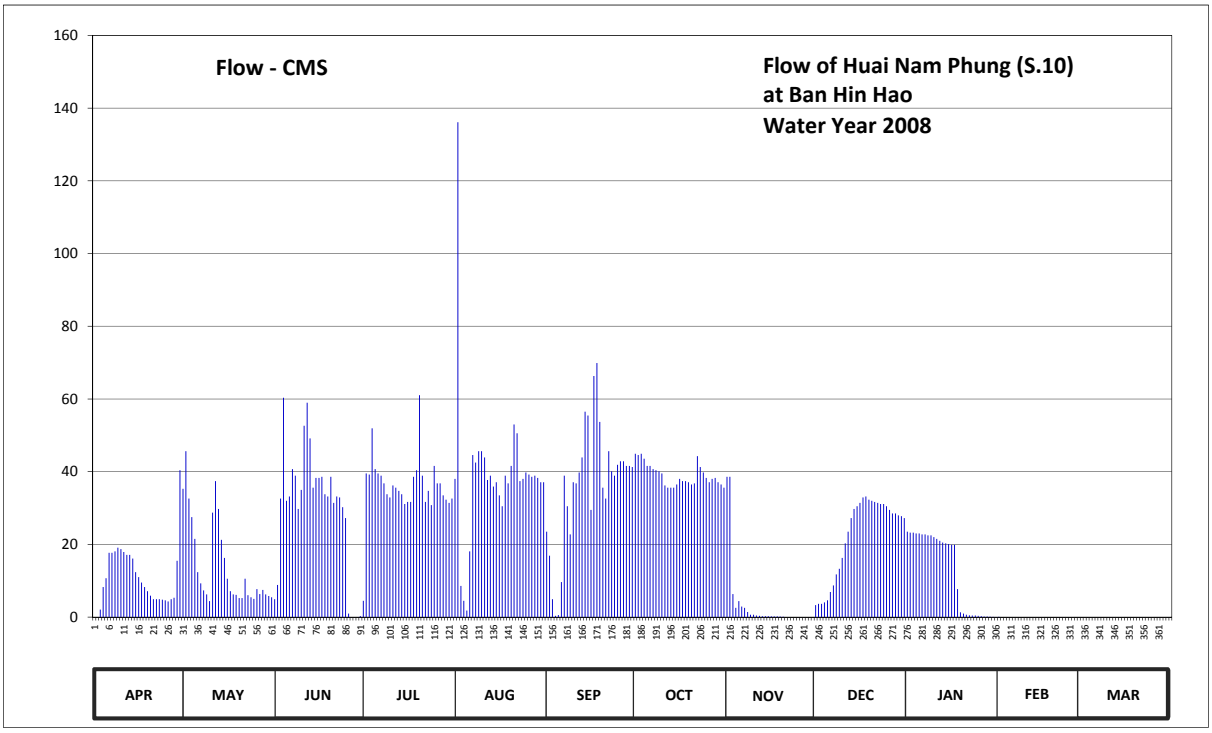
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	154.57	157.36	155.79	155.73	157.45	156.92	157.67	157.47	155.57	156.92	155.04	154.47	
2	154.77	157.69	156.14	157.50	159.64	156.62	157.66	157.47	155.62	156.91	155.00	154.47	
3	155.41	157.27	157.27	157.49	156.12	155.79	157.67	155.92	155.62	156.91	154.97	154.47	
4	156.09	157.08	158.11	157.87	155.73	155.13	157.63	155.47	155.67	156.90	154.87	154.44	
5	156.28	156.84	157.25	157.54	155.37	155.21	157.57	155.72	155.75	156.90	154.91	154.42	
6	156.66	156.39	157.29	157.50	156.68	156.21	157.57	155.52	155.97	156.89	154.87	154.37	
7	156.66	156.18	157.54	157.48	157.66	157.48	157.54	155.47	156.13	156.89	154.85	154.32	
8	156.68	156.01	157.48	157.41	157.60	157.20	157.53	155.32	156.35	156.88	154.83	154.27	
9	156.73	155.91	157.17	157.31	157.69	156.89	157.52	155.22	156.44	156.88	154.81	154.27	
10	156.71	155.72	157.35	157.28	157.69	157.42	157.50	155.22	156.59	156.86	154.79	154.27	
11	156.67	157.13	157.89	157.39	157.64	157.41	157.39	155.17	156.79	156.84	154.77	154.27	
12	156.63	157.43	158.07	157.37	157.44	157.51	157.37	155.14	156.92	156.82	154.76	154.27	
13	156.63	157.17	157.79	157.34	157.48	157.64	157.37	155.11	157.07	156.80	154.74	154.27	
14	156.58	156.83	157.37	157.31	157.38	158.00	157.37	155.11	157.17	156.79	154.73	154.27	
15	156.39	156.59	157.46	157.22	157.42	157.97	157.40	155.11	157.20	156.78	154.76	154.27	
16	156.30	156.27	157.46	157.24	157.30	157.16	157.45	155.09	157.23	156.77	154.76	154.27	
17	156.20	155.99	157.47	157.24	157.20	158.27	157.43	155.09	157.28	156.77	154.75	154.27	
18	156.09	155.91	157.31	157.47	157.48	158.36	157.43	155.09	157.29	156.04	154.71	154.27	
19	155.99	155.90	157.29	157.53	157.41	157.92	157.42	155.07	157.26	155.31	154.71	154.27	
20	155.88	155.82	157.47	158.13	157.57	157.37	157.40	155.05	157.25	155.26	154.70	154.27	
21	155.79	155.82	157.23	157.48	157.90	157.27	157.41	154.95	157.24	155.22	154.70	154.27	
22	155.79	156.27	157.29	157.24	157.83	157.69	157.65	154.92	157.23	155.20	154.70	154.27	
23	155.79	155.89	157.28	157.34	157.43	157.52	157.56	154.92	157.22	155.17	154.49	154.27	
24	155.77	155.84	157.19	157.21	157.45	157.48	157.51	154.90	157.22	155.17	154.49	154.27	
25	155.75	155.80	157.07	157.57	157.51	157.58	157.46	154.90	157.20	155.14	154.49	154.27	
26	155.71	156.04	155.26	157.41	157.49	157.61	157.42	154.87	157.16	155.10	154.47	154.47	
27	155.79	155.92	154.86	157.41	157.47	157.61	157.45	154.87	157.12	155.07	154.47	154.61	
28	155.83	156.02	154.76	157.30	157.48	157.57	157.46	154.86	157.12	155.07	154.47	154.57	
29	156.55	155.91	154.91	157.26	157.46	157.57	157.42	154.84	157.10	155.05		154.52	
30	157.53	155.87	155.12	157.23	157.42	157.56	157.40	154.82	157.09	155.04		154.47	
31		155.84		157.27	157.42		157.37		157.07	155.02		154.47	
Mean	156.14	156.35	156.93	157.36	157.38	157.26	157.48	155.29	156.77	156.11	154.74	154.35	
Max	157.53	157.69	158.11	158.13	159.64	158.36	157.67	157.47	157.29	156.92	155.04	154.61	159.64
Min	154.57	155.72	154.76	155.73	155.37	155.13	157.37	154.82	155.57	155.02	154.47	154.27	154.27

Annual Max Momentary Gage Height 159.87 m. (MSL.) , at 12.00 Hours , on Aug 2, 2008

Zero Gage at Bottom Elevation 153.47 m. (MSL.) , River Bed 153.98 m. (MSL.)

Left Bank Elevation 163.40 m. (MSL.) ,

Right Bank Elevation 163.40 m. (MSL.) , Drainage Are 269 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	35.30	4.93	4.48	38.00	23.50	44.95	38.60	3.28	23.50	0.10	0.00		
2	0.00	45.65	8.83	39.50	136.10	16.90	44.60	38.60	3.65	23.25	0.00	0.00		
3	2.08	32.60	32.60	39.20	8.60	4.93	44.95	6.35	3.65	23.25	0.00	0.00		
4	8.26	27.50	60.35	51.95	4.48	0.33	43.55	2.53	4.03	23.00	0.00	0.00		
5	10.70	21.50	32.00	40.70	1.78	0.58	41.60	4.40	4.63	23.00	0.00	0.00		
6	17.70	12.35	33.20	39.50	18.10	9.65	41.60	2.90	6.91	22.75	0.00	0.00		
7	17.70	9.28	40.70	38.90	44.60	38.90	40.70	2.53	8.71	22.75	0.00	0.00		
8	18.10	7.36	38.90	36.80	42.50	30.50	40.40	1.40	11.75	22.50	0.00	0.00		
9	19.10	6.24	29.75	33.80	45.65	22.75	40.10	0.65	13.30	22.50	0.00	0.00		
10	18.70	4.40	35.00	32.90	45.65	37.10	39.50	0.65	16.30	22.00	0.00	0.00		
11	17.90	28.75	52.65	36.20	43.90	36.80	36.20	0.43	20.30	21.50	0.00	0.00		
12	17.10	37.40	58.95	35.60	37.70	39.80	35.60	0.35	23.50	21.00	0.00	0.00		
13	17.10	29.75	49.15	34.70	38.90	43.90	35.60	0.28	27.25	20.50	0.00	0.00		
14	16.10	21.25	35.60	33.80	35.90	56.50	35.60	0.28	29.75	20.30	0.00	0.00		
15	12.35	16.30	38.30	31.10	37.10	55.45	36.50	0.28	30.50	20.10	0.00	0.00		
16	11.00	10.55	38.30	31.70	33.50	29.50	38.00	0.23	31.40	19.90	0.00	0.00		
17	9.50	7.14	38.60	31.70	30.50	66.30	37.40	0.23	32.90	19.90	0.00	0.00		
18	8.26	6.24	33.80	38.60	38.90	69.90	37.40	0.23	33.20	7.70	0.00	0.00		
19	7.14	6.13	33.20	40.40	36.80	53.70	37.10	0.18	32.30	1.33	0.00	0.00		
20	5.90	5.23	38.60	61.05	41.60	35.60	36.50	0.13	32.00	0.95	0.00	0.00		
21	4.93	5.23	31.40	38.90	53.00	32.60	36.80	0.00	31.70	0.65	0.00	0.00		
22	4.93	10.55	33.20	31.70	50.55	45.65	44.25	0.00	31.40	0.50	0.00	0.00		
23	4.93	6.01	32.90	34.70	37.40	40.10	41.30	0.00	31.10	0.43	0.00	0.00		
24	4.78	5.45	30.25	30.80	38.00	38.90	39.80	0.00	31.10	0.43	0.00	0.00		
25	4.63	5.00	27.25	41.60	39.80	41.90	38.30	0.00	30.50	0.35	0.00	0.00		
26	4.33	7.70	0.95	36.80	39.20	42.85	37.10	0.00	29.50	0.25	0.00	0.00		
27	4.93	6.35	0.00	36.80	38.60	42.85	38.00	0.00	28.50	0.18	0.00	0.00		
28	5.34	7.48	0.00	33.50	38.90	41.60	38.30	0.00	28.50	0.18	0.00	0.00		
29	15.50	6.24	0.00	32.30	38.30	41.60	37.10	0.00	28.00	0.13		0.00		
30	40.40	5.79	0.30	31.40	37.10	41.30	36.50	0.00	27.75	0.10		0.00		
31		5.45		32.60	37.10		35.60		27.25	0.05		0.00		
Total	329.39	442.17	889.66	1113.68	1208.21	1081.94	1210.90	101.23	694.61	384.93	0.10	0.00	7456.82	CMSDAY
Mean	10.98	14.26	29.66	35.93	38.97	36.06	39.06	3.37	22.41	12.42	0.00	0.00	20.43	CMS
Max	40.40	45.65	60.35	61.05	136.10	69.90	44.95	38.60	33.20	23.50	0.10	0.00	136.10	CMS
Min	0.00	4.40	0.00	4.48	1.78	0.33	35.60	0.00	3.28	0.05	0.00	0.00	0.00	CMS
Runoff	28.46	38.20	76.87	96.22	104.39	93.48	104.62	8.75	60.01	33.26	0.01	0.00	644.27	MCM

Momentary Peak 151.05 CMS. at 159.87 m. (MSL.) at 12.00 Hours , on Aug 2, 2008

Runoff Yield 75.82 Liters/Second/Square KM. Momentary Peak Yield 560.59 Liters/Second/Square KM.

WATER YEAR : 2008

PASAK RIVER BASIN

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

Lat 15 - 59 - 50 N Long 101 - 14 - 31 E

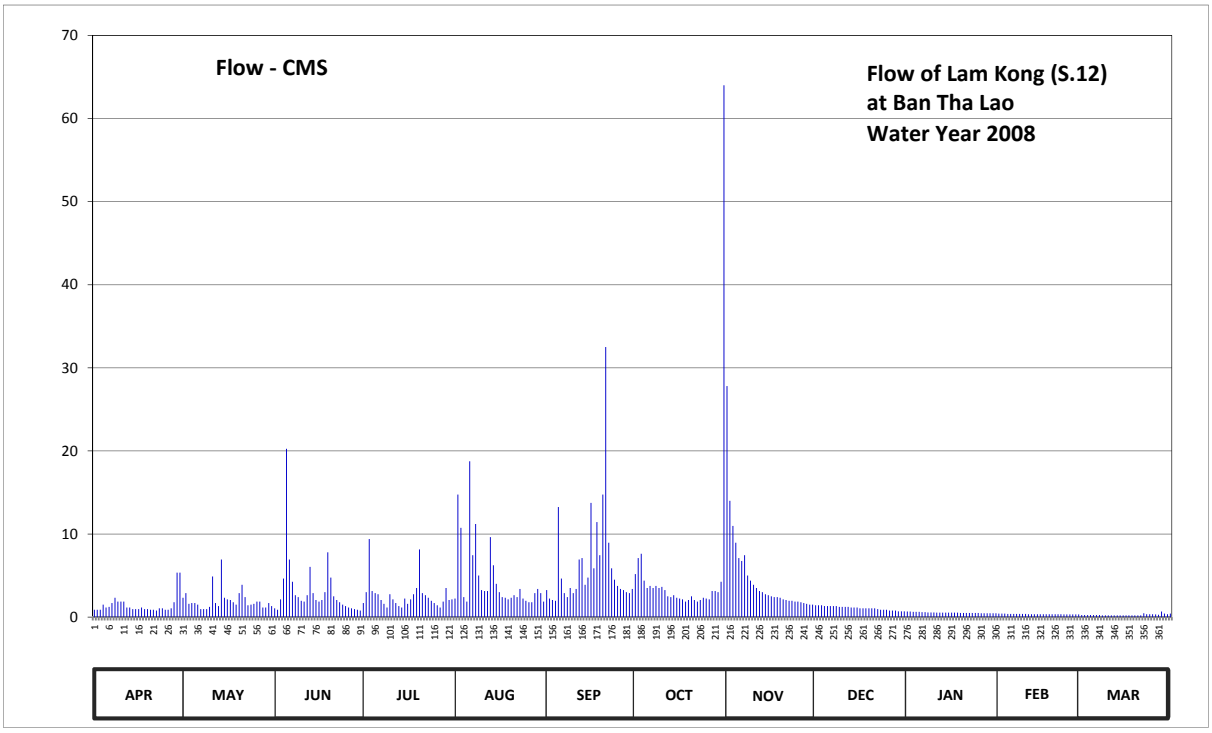
Location : on left bank at Ban Tha Lao.

	Ban Tha Lao	**Amphoe** Nong Phai	**Changwat** Phetchabun
Drainge Area	477 sq.km.		
Type of Gage	Staff gage.		
Zero Gage at Bottom	+108.590 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank along the gage line.		**Elevation** +113.514 m. (MSL.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1978 to date		
Rating Operation			
Period of Rating	1978 to date		
Rated by Float	-		
Rated by Current Meter	1978 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +111.290 m.(MSL.) and is including overbank flow.		
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	109.42	109.58	109.44	109.51	109.57	109.66	109.81	110.76	109.48	109.39	109.32	109.27	
2	109.42	109.63	109.42	109.64	110.27	109.57	109.92	110.24	109.48	109.39	109.32	109.27	
3	109.42	109.50	109.56	110.04	110.10	109.55	109.95	110.11	109.48	109.38	109.32	109.27	
4	109.49	109.51	109.77	109.65	109.59	109.54	109.75	110.02	109.47	109.38	109.31	109.27	
5	109.45	109.51	110.49	109.63	109.53	110.21	109.68	109.92	109.47	109.38	109.31	109.27	
6	109.46	109.49	109.91	109.62	110.43	109.77	109.70	109.90	109.47	109.37	109.31	109.27	
7	109.51	109.43	109.74	109.55	109.94	109.63	109.68	109.94	109.47	109.37	109.31	109.27	
8	109.58	109.43	109.61	109.50	110.12	109.59	109.70	109.80	109.47	109.36	109.31	109.26	
9	109.53	109.43	109.59	109.45	109.80	109.68	109.68	109.75	109.46	109.36	109.31	109.26	
10	109.53	109.46	109.54	109.62	109.66	109.63	109.69	109.71	109.46	109.36	109.31	109.26	
11	109.53	109.79	109.53	109.56	109.65	109.67	109.66	109.68	109.46	109.35	109.30	109.26	
12	109.45	109.51	109.61	109.51	109.65	109.91	109.60	109.65	109.46	109.35	109.30	109.26	
13	109.45	109.47	109.86	109.47	110.05	109.92	109.59	109.64	109.45	109.35	109.30	109.26	
14	109.43	109.91	109.63	109.45	109.87	109.71	109.61	109.62	109.45	109.35	109.30	109.26	
15	109.43	109.58	109.55	109.57	109.72	109.78	109.58	109.61	109.45	109.35	109.30	109.26	
16	109.43	109.56	109.53	109.50	109.64	110.23	109.57	109.60	109.44	109.35	109.30	109.26	
17	109.45	109.55	109.55	109.56	109.59	109.85	109.56	109.59	109.44	109.35	109.30	109.26	
18	109.43	109.52	109.64	109.62	109.58	110.13	109.53	109.59	109.44	109.35	109.30	109.26	
19	109.43	109.49	109.96	109.68	109.56	109.94	109.55	109.58	109.44	109.34	109.30	109.26	
20	109.42	109.63	109.78	109.98	109.58	110.27	109.60	109.56	109.44	109.34	109.30	109.26	
21	109.42	109.71	109.60	109.63	109.61	110.90	109.55	109.55	109.44	109.34	109.30	109.26	
22	109.41	109.59	109.55	109.61	109.59	110.02	109.53	109.54	109.43	109.34	109.30	109.33	
23	109.44	109.48	109.52	109.58	109.67	109.85	109.55	109.54	109.42	109.34	109.29	109.30	
24	109.44	109.49	109.49	109.54	109.57	109.76	109.58	109.53	109.42	109.34	109.29	109.30	
25	109.42	109.50	109.47	109.51	109.54	109.70	109.57	109.53	109.42	109.34	109.29	109.30	
26	109.42	109.53	109.45	109.48	109.52	109.67	109.56	109.52	109.41	109.33	109.29	109.29	
27	109.44	109.53	109.44	109.45	109.52	109.66	109.65	109.51	109.41	109.33	109.29	109.28	
28	109.52	109.45	109.43	109.53	109.63	109.64	109.65	109.50	109.41	109.33	109.29	109.39	
29	109.82	109.45	109.42	109.68	109.67	109.63	109.64	109.49	109.40	109.33		109.32	
30	109.82	109.51	109.41	109.55	109.63	109.67	109.74	109.49	109.40	109.33		109.30	
31		109.47		109.56	109.53		111.66		109.40	109.33		109.32	
Mean	109.48	109.54	109.62	109.59	109.72	109.82	109.71	109.72	109.44	109.35	109.30	109.28	
Max	109.82	109.91	110.49	110.04	110.43	110.90	111.66	110.76	109.48	109.39	109.32	109.39	111.66
Min	109.41	109.43	109.41	109.45	109.52	109.54	109.53	109.49	109.40	109.33	109.29	109.26	109.26

Annual Max Momentary Gage Height	111.81	m. (MSL.) ,	at 09.00 Hours , on Oct 31, 2008		
Zero Gage at Bottom Elevation	108.59	m. (MSL.) ,	River Bed	107.00	m. (MSL.)
Left Bank Elevation	112.50	m. (MSL.) ,			
Right Bank Elevation	111.28	m. (MSL.) ,	Drainage Are	477	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.88	2.32	1.06	1.69	2.23	3.25	5.18	27.80	1.42	0.67	0.42	0.25		
2	0.88	2.88	0.88	3.00	14.75	2.23	7.10	14.00	1.42	0.67	0.42	0.25		
3	0.88	1.60	2.14	9.40	10.75	2.05	7.63	10.98	1.42	0.63	0.42	0.25		
4	1.51	1.69	4.63	3.13	2.41	1.96	4.38	8.95	1.33	0.63	0.39	0.25		
5	1.15	1.69	20.25	2.88	1.87	13.25	3.50	7.10	1.33	0.63	0.39	0.25		
6	1.24	1.51	6.93	2.75	18.75	4.63	3.75	6.75	1.33	0.60	0.39	0.25		
7	1.69	0.97	4.25	2.05	7.45	2.88	3.50	7.45	1.33	0.60	0.39	0.25		
8	2.32	0.97	2.63	1.60	11.20	2.41	3.75	5.00	1.33	0.56	0.39	0.21		
9	1.87	0.97	2.41	1.15	5.00	3.50	3.50	4.38	1.24	0.56	0.39	0.21		
10	1.87	1.24	1.96	2.75	3.25	2.88	3.63	3.88	1.24	0.56	0.39	0.21		
11	1.87	4.88	1.87	2.14	3.13	3.38	3.25	3.50	1.24	0.53	0.35	0.21		
12	1.15	1.69	2.63	1.69	3.13	6.93	2.50	3.13	1.24	0.53	0.35	0.21		
13	1.15	1.33	6.05	1.33	9.63	7.10	2.41	3.00	1.15	0.53	0.35	0.21		
14	0.97	6.93	2.88	1.15	6.23	3.88	2.63	2.75	1.15	0.53	0.35	0.21		
15	0.97	2.32	2.05	2.23	4.00	4.75	2.32	2.63	1.15	0.53	0.35	0.21		
16	0.97	2.14	1.87	1.60	3.00	13.75	2.23	2.50	1.06	0.53	0.35	0.21		
17	1.15	2.05	2.05	2.14	2.41	5.88	2.14	2.41	1.06	0.53	0.35	0.21		
18	0.97	1.78	3.00	2.75	2.32	11.43	1.87	2.41	1.06	0.53	0.35	0.21		
19	0.97	1.51	7.80	3.50	2.14	7.45	2.05	2.32	1.06	0.49	0.35	0.21		
20	0.88	2.88	4.75	8.15	2.32	14.75	2.50	2.14	1.06	0.49	0.35	0.21		
21	0.88	3.88	2.50	2.88	2.63	32.50	2.05	2.05	1.06	0.49	0.35	0.21		
22	0.79	2.41	2.05	2.63	2.41	8.95	1.87	1.96	0.97	0.49	0.35	0.46		
23	1.06	1.42	1.78	2.32	3.38	5.88	2.05	1.96	0.88	0.49	0.32	0.35		
24	1.06	1.51	1.51	1.96	2.23	4.50	2.32	1.87	0.88	0.49	0.32	0.35		
25	0.88	1.60	1.33	1.69	1.96	3.75	2.23	1.87	0.88	0.49	0.32	0.35		
26	0.88	1.87	1.15	1.42	1.78	3.38	2.14	1.78	0.79	0.46	0.32	0.32		
27	1.06	1.87	1.06	1.15	1.78	3.25	3.13	1.69	0.79	0.46	0.32	0.28		
28	1.78	1.15	0.97	1.87	2.88	3.00	3.13	1.60	0.79	0.46	0.32	0.67		
29	5.35	1.15	0.88	3.50	3.38	2.88	3.00	1.51	0.70	0.46		0.42		
30	5.35	1.69	0.79	2.05	2.88	3.38	4.25	1.51	0.70	0.46		0.35		
31		1.33		2.14	1.87		64.00		0.70	0.46		0.42		
Total	44.43	63.23	96.11	80.69	143.15	189.81	159.99	140.88	33.76	16.54	10.11	8.66	987.36	CMSDAY
Mean	1.48	2.04	3.20	2.60	4.62	6.33	5.16	4.70	1.09	0.53	0.36	0.28	2.71	CMS
Max	5.35	6.93	20.25	9.40	18.75	32.50	64.00	27.80	1.42	0.67	0.42	0.67	64.00	CMS
Min	0.79	0.97	0.79	1.15	1.78	1.96	1.87	1.51	0.70	0.46	0.32	0.21	0.21	CMS
Runoff	3.84	5.46	8.30	6.97	12.37	16.40	13.82	12.17	2.92	1.43	0.87	0.75	85.31	MCM

Momentary Peak 71.50 CMS. at 111.81 m. (MSL.) at 09.00 Hours , on Oct 31, 2008

Runoff Yield 5.67 Liters/Second/Square KM. Momentary Peak Yield 149.90 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	357 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+80.910 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 Float	-
Rated by Current Meter	1978 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 30 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

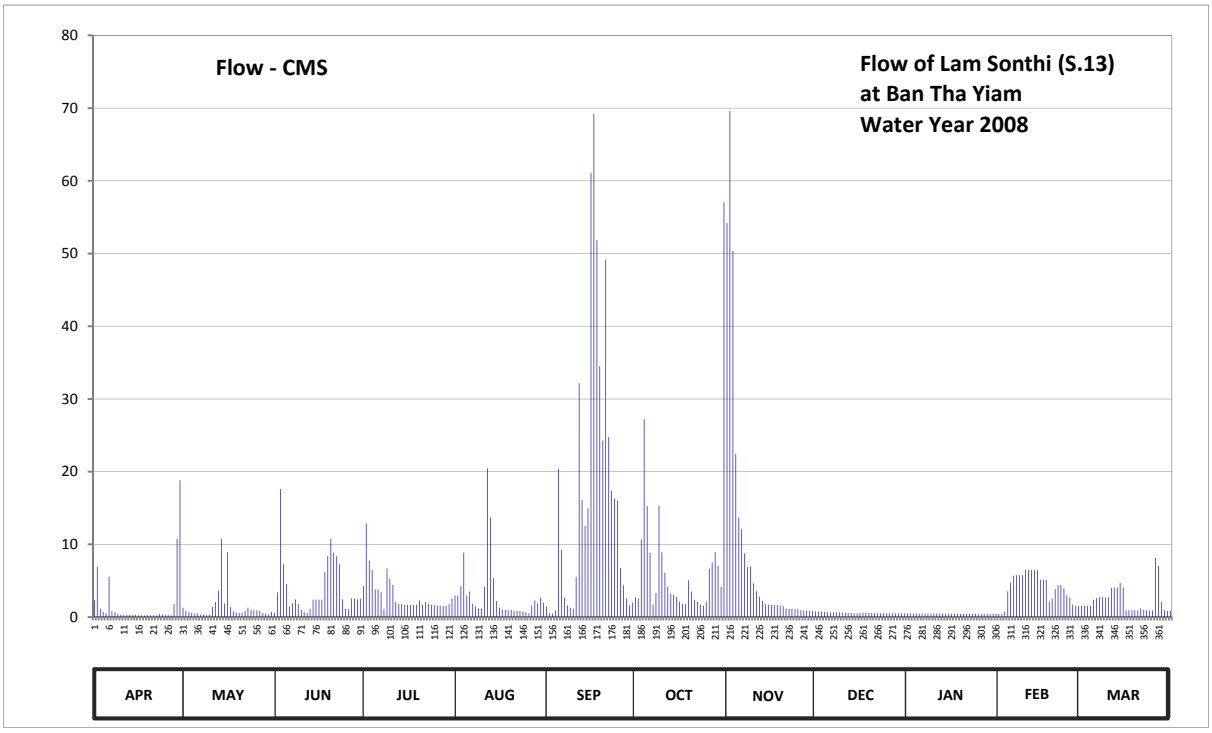
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	81.85	81.65	81.42	82.20	81.96	81.70	81.92	86.45	81.50	81.40	81.37	81.71	
2	82.58	81.53	82.04	83.30	81.96	81.40	81.89	87.32	81.49	81.40	81.37	81.71	
3	81.60	81.46	83.80	82.68	82.19	81.39	83.05	86.22	81.48	81.40	81.48	81.71	
4	81.48	81.42	82.62	82.51	82.82	81.54	84.64	84.24	81.47	81.40	82.07	81.71	
5	81.41	81.40	82.24	82.11	81.96	84.05	83.56	83.39	81.46	81.39	82.26	81.86	
6	82.38	81.39	81.70	82.11	82.06	82.87	82.82	83.21	81.45	81.39	82.40	81.90	
7	81.50	81.35	81.77	82.04	81.76	81.91	81.74	82.81	81.45	81.39	82.41	81.92	
8	81.46	81.35	81.87	81.59	81.70	81.72	82.02	82.57	81.45	81.39	82.41	81.92	
9	81.38	81.31	81.75	82.54	81.61	81.65	83.57	82.58	81.45	81.39	82.41	81.92	
10	81.34	81.31	81.56	82.34	81.61	81.60	82.83	82.25	81.44	81.39	82.51	81.92	
11	81.33	81.68	81.48	82.22	82.17	82.37	82.46	82.07	81.43	81.39	82.51	82.15	
12	81.33	81.80	81.43	81.80	84.06	85.02	82.17	81.93	81.42	81.39	82.51	82.16	
13	81.33	82.08	81.60	81.76	83.39	83.65	82.01	81.83	81.42	81.39	82.51	82.16	
14	81.33	83.06	81.86	81.75	82.35	83.26	81.98	81.75	81.41	81.39	82.51	82.26	
15	81.33	81.76	81.86	81.74	81.83	83.53	81.93	81.74	81.41	81.38	82.32	82.16	
16	81.31	82.83	81.86	81.74	81.65	86.85	81.80	81.73	81.43	81.38	82.32	81.55	
17	81.30	81.67	81.86	81.73	81.58	87.30	81.76	81.73	81.43	81.38	82.32	81.55	
18	81.30	81.50	82.47	81.73	81.56	86.31	81.75	81.73	81.43	81.38	81.81	81.55	
19	81.29	81.45	82.76	81.73	81.53	85.20	82.31	81.72	81.42	81.38	81.89	81.55	
20	81.29	81.43	83.06	81.84	81.56	84.40	82.06	81.70	81.42	81.38	82.12	81.55	
21	81.29	81.43	82.82	81.73	81.53	86.15	81.86	81.61	81.41	81.38	82.21	81.62	
22	81.29	81.52	82.76	81.80	81.51	84.44	81.81	81.61	81.41	81.38	82.21	81.56	
23	81.38	81.65	82.62	81.76	81.51	83.78	81.73	81.61	81.41	81.38	82.14	81.55	
24	81.34	81.56	81.87	81.73	81.49	83.67	81.71	81.60	81.41	81.38	81.96	81.53	
25	81.33	81.55	81.61	81.73	81.45	83.64	81.81	81.59	81.41	81.38	81.91	81.53	
26	81.33	81.55	81.59	81.72	81.41	82.55	82.53	81.55	81.41	81.38	81.74	82.73	
27	81.29	81.51	81.89	81.72	81.72	82.21	82.65	81.53	81.41	81.38	81.71	82.59	
28	81.75	81.42	81.89	81.71	81.84	81.89	82.83	81.53	81.41	81.38	81.71	81.80	
29	83.06	81.39	81.87	81.71	81.76	81.72	82.59	81.52	81.41	81.38		81.55	
30	83.91	81.36	81.89	81.75	81.91	81.79	82.18	81.51	81.40	81.38		81.51	
31		81.47		81.89	81.78		86.62		81.40	81.38		81.51	
Mean	81.60	81.61	82.06	81.96	81.91	83.32	82.47	82.49	81.43	81.39	82.11	81.82	
Max	83.91	83.06	83.80	83.30	84.06	87.30	86.62	87.32	81.50	81.40	82.51	82.73	87.32
Min	81.29	81.31	81.42	81.59	81.41	81.39	81.71	81.51	81.40	81.38	81.37	81.51	81.29

Annual Max Momentary Gage Height 88.05 m. (MSL.) , at 24.00 Hours , on Sep 16, 2008

Zero Gage at Bottom Elevation 80.91 m. (MSL.) , River Bed 80.84 m. (MSL.) ,

Left Bank Elevation 89.70 m. (MSL.) ,

Right Bank Elevation 89.68 m. (MSL.) , Drainage Are 357 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.34	1.30	0.56	4.30	2.96	1.50	2.73	54.21	0.80	0.50	0.43	1.56		
2	6.96	0.89	3.40	12.90	2.96	0.50	2.56	69.58	0.77	0.50	0.43	1.56		
3	1.10	0.68	17.60	7.74	4.24	0.48	10.70	50.35	0.74	0.50	0.74	1.56		
4	0.74	0.56	7.26	6.47	8.86	0.92	27.22	22.44	0.71	0.50	3.57	1.56		
5	0.53	0.50	4.58	3.80	2.96	20.35	15.24	13.71	0.68	0.48	4.72	2.40		
6	5.56	0.48	1.50	3.80	3.52	9.26	8.86	12.09	0.65	0.48	5.70	2.62		
7	0.80	0.38	1.89	3.40	1.84	2.68	1.72	8.78	0.65	0.48	5.77	2.73		
8	0.68	0.38	2.45	1.07	1.50	1.61	3.29	6.89	0.65	0.48	5.77	2.73		
9	0.45	0.28	1.78	6.68	1.14	1.30	15.33	6.96	0.65	0.48	5.77	2.73		
10	0.35	0.28	0.98	5.28	1.14	1.10	8.94	4.65	0.62	0.48	6.47	2.73		
11	0.33	1.42	0.74	4.44	4.13	5.49	6.12	3.57	0.59	0.48	6.47	4.02		
12	0.33	2.06	0.59	2.06	20.46	32.16	4.13	2.79	0.56	0.48	6.47	4.08		
13	0.33	3.63	1.10	1.84	13.71	16.10	3.24	2.23	0.56	0.48	6.47	4.08		
14	0.33	10.78	2.40	1.78	5.35	12.54	3.07	1.78	0.53	0.48	6.47	4.72		
15	0.33	1.84	2.40	1.72	2.23	14.97	2.79	1.72	0.53	0.45	5.14	4.08		
16	0.28	8.94	2.40	1.72	1.30	61.10	2.06	1.67	0.59	0.45	5.14	0.95		
17	0.25	1.38	2.40	1.67	1.04	69.20	1.84	1.67	0.59	0.45	5.14	0.95		
18	0.25	0.80	6.19	1.67	0.98	51.86	1.78	1.67	0.59	0.45	2.12	0.95		
19	0.23	0.65	8.38	1.67	0.89	34.50	5.07	1.61	0.56	0.45	2.56	0.95		
20	0.23	0.59	10.78	2.28	0.98	24.30	3.52	1.50	0.56	0.45	3.85	0.95		
21	0.23	0.59	8.86	1.67	0.89	49.17	2.40	1.14	0.53	0.45	4.37	1.18		
22	0.23	0.86	8.38	2.06	0.83	24.78	2.12	1.14	0.53	0.45	4.37	0.98		
23	0.45	1.30	7.26	1.84	0.83	17.40	1.67	1.14	0.53	0.45	3.96	0.95		
24	0.35	0.98	2.45	1.67	0.77	16.30	1.56	1.10	0.53	0.45	2.96	0.89		
25	0.33	0.95	1.14	1.67	0.65	16.00	2.12	1.07	0.53	0.45	2.68	0.89		
26	0.33	0.95	1.07	1.61	0.53	6.75	6.61	0.95	0.53	0.45	1.72	8.14		
27	0.23	0.83	2.56	1.61	1.61	4.37	7.50	0.89	0.53	0.45	1.56	7.03		
28	1.78	0.56	2.56	1.56	2.28	2.56	8.94	0.89	0.53	0.45	1.56	2.06		
29	10.78	0.48	2.45	1.56	1.84	1.61	7.03	0.86	0.53	0.45		0.95		
30	18.81	0.40	2.56	1.78	2.68	2.00	4.19	0.83	0.50	0.45		0.83		
31		0.71		2.56	1.95		57.06		0.50	0.45		0.83		
Total	55.92	46.43	118.67	95.88	97.05	502.86	231.41	279.88	18.35	14.45	112.38	72.64	1645.92	CMSDAY
Mean	1.86	1.50	3.96	3.09	3.13	16.76	7.46	9.33	0.59	0.47	4.01	2.34	4.51	CMS
Max	18.81	10.78	17.60	12.90	20.46	69.20	57.06	69.58	0.80	0.50	6.47	8.14	69.58	CMS
Min	0.23	0.28	0.56	1.07	0.53	0.48	1.56	0.83	0.50	0.45	0.43	0.83	0.23	CMS
Runoff	4.83	4.01	10.25	8.28	8.39	43.45	19.99	24.18	1.59	1.25	9.71	6.28	142.21	MCM

Momentary Peak 84.00 CMS. at 88.05 m. (MSL.) at 24.00 Hours , on Sep 16, 2008

Runoff Yield 12.62 Liters/Second/Square KM. Momentary Peak Yield 235.14 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	1,263 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+52.580 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 mean of 24 readings		
Period of Available Gage Records	1978 to date.		
Rating Operation			
Period of Rating	1980 to date.		
Rated by Float	-		
Rated by Current Meter	1980 to date.		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

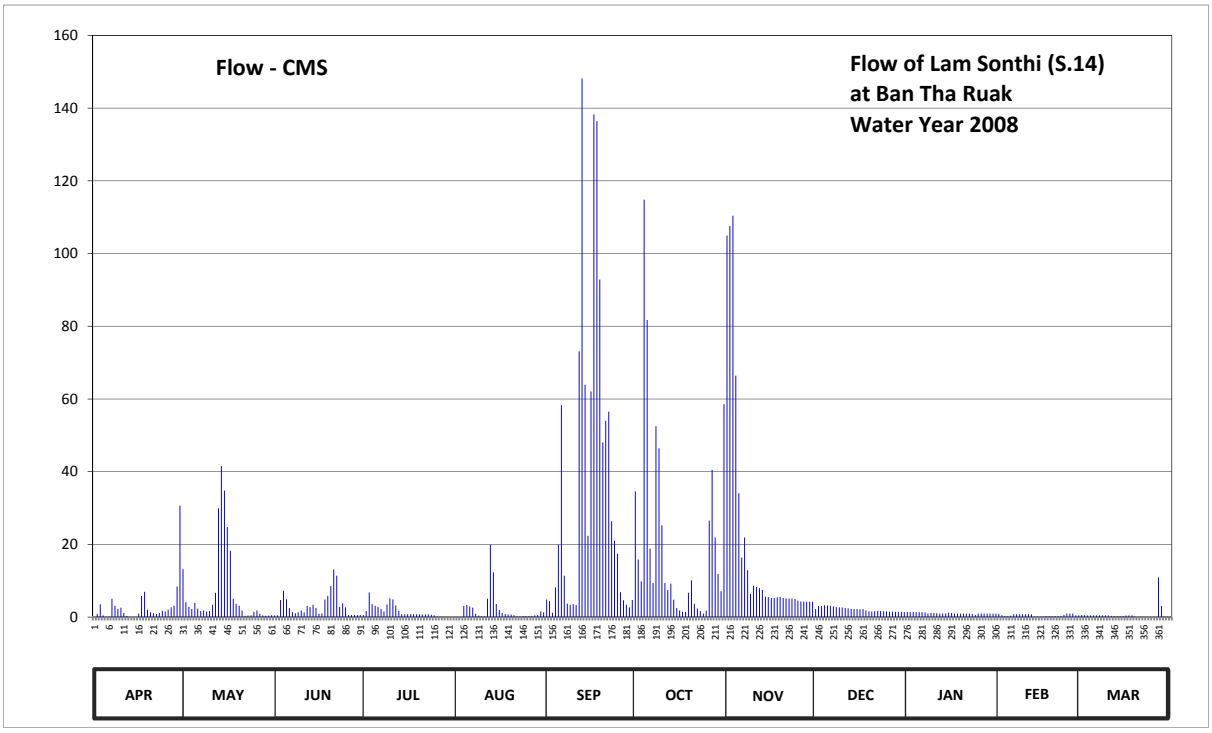
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	53.99	56.30	54.14	54.16	54.01	55.23	57.70	60.22	54.63	54.40	54.25	54.16	
2	54.25	55.08	54.14	54.48	54.02	55.14	56.51	60.29	54.83	54.40	54.15	54.15	
3	54.95	54.79	55.20	55.56	54.02	54.34	55.97	60.36	54.82	54.40	54.08	54.13	
4	54.14	54.63	55.64	54.96	54.83	55.77	60.47	59.05	54.89	54.39	54.08	54.13	
5	54.02	55.03	55.24	54.86	54.91	56.81	59.56	57.67	54.88	54.39	54.11	54.13	
6	54.04	54.66	54.69	54.78	54.80	58.75	56.73	56.55	54.86	54.39	54.22	54.13	
7	55.27	54.48	54.39	54.63	54.72	56.13	55.92	56.94	54.80	54.38	54.23	54.13	
8	54.86	54.51	54.30	54.44	54.26	55.00	58.52	56.27	54.76	54.29	54.23	54.13	
9	54.64	54.44	54.38	54.94	54.11	54.92	58.27	55.50	54.75	54.34	54.23	54.13	
10	54.72	54.48	54.51	55.29	54.07	54.96	57.16	55.83	54.73	54.32	54.23	54.13	
11	54.33	54.92	54.38	55.24	54.06	54.90	55.92	55.78	54.70	54.30	54.23	54.10	
12	54.09	55.55	54.84	54.88	55.27	59.28	55.66	55.74	54.68	54.28	54.21	54.08	
13	54.00	57.44	54.76	54.48	56.81	61.22	55.90	55.67	54.64	54.28	54.04	54.08	
14	53.99	58.05	54.92	54.22	56.22	58.96	55.22	55.37	54.62	54.29	54.03	54.08	
15	53.99	57.71	54.70	54.23	54.98	56.97	54.70	55.35	54.62	54.35	54.03	54.08	
16	54.28	57.13	54.26	54.22	54.56	58.89	54.52	55.31	54.61	54.32	54.03	54.12	
17	55.40	56.69	54.29	54.22	54.33	61.01	54.43	55.31	54.64	54.28	54.08	54.13	
18	55.59	55.27	55.23	54.22	54.24	60.97	54.42	55.34	54.53	54.28	54.08	54.13	
19	54.57	54.99	55.41	54.22	54.20	59.89	55.55	55.36	54.45	54.28	54.08	54.05	
20	54.38	54.85	55.82	54.21	54.20	58.34	56.00	55.31	54.44	54.28	54.08	54.01	
21	54.30	54.52	56.29	54.21	54.15	58.58	54.99	55.29	54.46	54.28	54.08	54.04	
22	54.24	54.11	56.13	54.21	54.06	58.68	54.66	55.28	54.49	54.28	54.08	54.02	
23	54.32	54.13	54.78	54.21	54.05	57.23	54.48	55.28	54.47	54.24	54.17	54.01	
24	54.49	54.15	55.02	54.19	54.09	56.88	54.28	55.26	54.45	54.18	54.27	54.01	
25	54.44	54.41	54.74	54.14	54.09	56.63	54.50	55.17	54.44	54.27	54.28	54.01	
26	54.58	54.52	54.18	54.04	54.08	55.58	57.24	55.12	54.43	54.28	54.27	54.01	
27	54.75	54.26	54.16	54.03	54.09	55.18	58.00	55.11	54.43	54.28	54.13	56.08	
28	54.86	54.13	54.17	54.02	54.13	54.93	56.94	55.10	54.42	54.28	54.14	54.84	
29	55.80	54.11	54.16	54.02	54.16	54.74	56.18	55.10	54.41	54.28		54.02	
30	57.48	54.12	54.16	54.01	54.45	55.20	55.62	55.10	54.41	54.28		54.02	
31		54.15		53.99	54.37		58.76		54.40	54.28		54.02	
Mean	54.63	55.08	54.77	54.43	54.46	57.04	56.28	56.17	54.60	54.31	54.15	54.17	
Max	57.48	58.05	56.29	55.56	56.81	61.22	60.47	60.36	54.89	54.40	54.28	56.08	61.22
Min	53.99	54.11	54.14	53.99	54.01	54.34	54.28	55.10	54.40	54.18	54.03	54.01	53.99

Annual Max Momentary Gage Height 61.48 m. (MSL.) , at 07.00 Hours , on Sep 13, 2008

Zero Gage at Bottom Elevation 52.58 m. (MSL.) , River Bed 53.38 m. (MSL.)

Left Bank Elevation 63.82 m. (MSL.) ,

Right Bank Elevation 63.84 m. (MSL.) , Drainage Are 1,263 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	13.20	0.49	0.56	0.04	4.85	34.60	104.96	2.22	1.40	0.88	0.56		
2	0.88	4.10	0.49	1.68	0.07	4.40	15.83	107.62	3.02	1.40	0.53	0.53		
3	3.50	2.86	4.70	6.76	0.07	1.19	9.83	110.40	2.98	1.40	0.28	0.46		
4	0.49	2.22	7.28	3.54	3.02	8.19	114.80	66.40	3.26	1.37	0.28	0.46		
5	0.07	3.85	4.90	3.14	3.34	19.95	81.72	34.06	3.22	1.37	0.39	0.46		
6	0.14	2.34	2.46	2.82	2.90	58.30	18.82	16.35	3.14	1.37	0.77	0.46		
7	5.05	1.68	1.37	2.22	2.58	11.40	9.38	21.90	2.90	1.33	0.81	0.46		
8	3.14	1.79	1.05	1.54	0.91	3.70	52.50	12.87	2.74	1.02	0.81	0.46		
9	2.26	1.54	1.33	3.46	0.39	3.38	46.41	6.40	2.70	1.19	0.81	0.46		
10	2.58	1.68	1.79	5.15	0.25	3.54	25.26	8.64	2.62	1.12	0.81	0.46		
11	1.16	3.38	1.33	4.90	0.21	3.30	9.38	8.26	2.50	1.05	0.81	0.35		
12	0.32	6.70	3.06	3.22	5.05	73.10	7.42	7.98	2.42	0.98	0.74	0.28		
13	0.00	29.92	2.74	1.68	19.95	148.20	9.20	7.49	2.26	0.98	0.14	0.28		
14	0.00	41.55	3.38	0.77	12.32	63.92	4.80	5.62	2.18	1.02	0.11	0.28		
15	0.00	34.79	2.50	0.81	3.62	22.35	2.50	5.50	2.18	1.23	0.11	0.28		
16	0.98	24.78	0.91	0.77	1.96	62.03	1.82	5.26	2.14	1.12	0.11	0.42		
17	5.80	18.26	1.02	0.77	1.16	138.26	1.51	5.26	2.26	0.98	0.28	0.46		
18	6.94	5.05	4.85	0.77	0.84	136.42	1.47	5.44	1.86	0.98	0.28	0.46		
19	2.00	3.66	5.86	0.77	0.70	92.85	6.70	5.56	1.58	0.98	0.28	0.18		
20	1.33	3.10	8.56	0.74	0.70	48.06	10.10	5.26	1.54	0.98	0.28	0.04		
21	1.05	1.82	13.09	0.74	0.53	54.00	3.66	5.15	1.61	0.98	0.28	0.14		
22	0.84	0.39	11.40	0.74	0.21	56.50	2.34	5.10	1.72	0.98	0.28	0.07		
23	1.12	0.46	2.82	0.74	0.18	26.38	1.68	5.10	1.65	0.84	0.60	0.04		
24	1.72	0.53	3.80	0.67	0.32	21.00	0.98	5.00	1.58	0.63	0.95	0.04		
25	1.54	1.44	2.66	0.49	0.32	17.42	1.75	4.55	1.54	0.95	0.98	0.04		
26	2.03	1.82	0.63	0.14	0.28	6.88	26.54	4.30	1.51	0.98	0.95	0.04		
27	2.70	0.91	0.56	0.11	0.32	4.60	40.50	4.25	1.51	0.98	0.46	10.90		
28	3.14	0.46	0.60	0.07	0.46	3.42	21.90	4.20	1.47	0.98	0.49	3.06		
29	8.40	0.39	0.56	0.07	0.56	2.66	11.90	4.20	1.44	0.98		0.07		
30	30.64	0.42	0.56	0.04	1.58	4.70	7.14	4.20	1.44	0.98		0.07		
31		0.53		0.00	1.30		58.56		1.40	0.98		0.07		
Total	89.82	215.62	96.75	49.88	66.14	1104.95	641.00	597.28	66.59	33.53	14.50	22.34	2998.40	CMSDAY
Mean	2.99	6.96	3.22	1.61	2.13	36.83	20.68	19.91	2.15	1.08	0.52	0.72	8.21	CMS
Max	30.64	41.55	13.09	6.76	19.95	148.20	114.80	110.40	3.26	1.40	0.98	10.90	148.20	CMS
Min	0.00	0.39	0.49	0.00	0.04	1.19	0.98	4.20	1.40	0.63	0.11	0.04	0.00	CMS
Runoff	7.76	18.63	8.36	4.31	5.71	95.47	55.38	51.60	5.75	2.90	1.25	1.93	259.06	MCM

Momentary Peak 161.20 CMS. at 61.48 m. (MSL.) at 07.00 Hours , on Sep 13, 2008

Runoff Yield 6.50 Liters/Second/Square KM. Momentary Peak Yield 127.63 Liters/Second/Square KM.

WATER YEAR : 2008

PASAK RIVER BASIN

Nam Chun at Ban Fai Wang Bon, Phetchabun (S.17)

Lat 16 - 45 - 43 N Long 101 - 08 - 44 E

Location : on left bank at Ban Fai Wang Bon.

Ban Fai Wang Bon **Amphoe** Lom Sak **Changwat** Phetchabun

Drainge Area	66 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+184.610 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank near the gage site. **Elevation** +187.610 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 mean of 5 readings
Period of Available Gage Records	2005 to date
Rating Operation	
Period of Rating	2005 to date
Rated by Float	-
Rated by Current Meter	2005 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

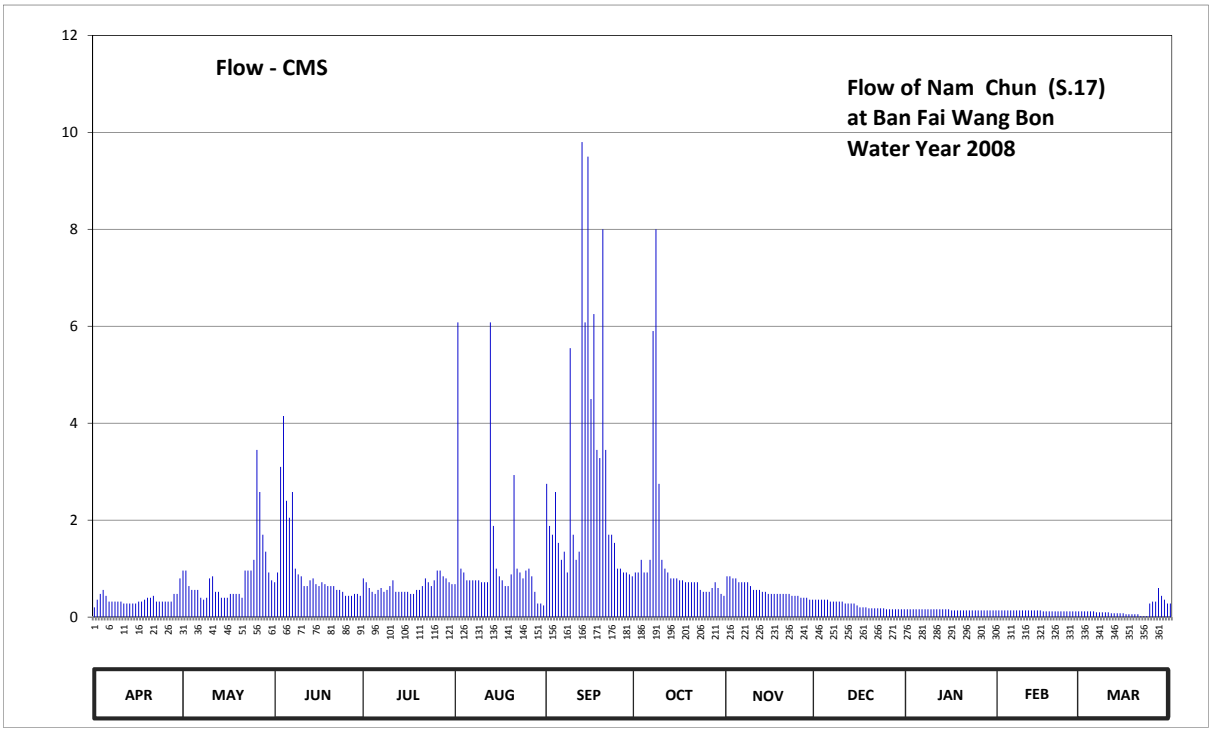
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	184.60	184.79	184.73	184.75	184.72	184.90	184.78	184.76	184.64	184.58	184.57	184.56	
2	184.64	184.79	184.78	184.73	185.09	184.85	184.78	184.76	184.64	184.58	184.57	184.56	
3	184.67	184.71	184.92	184.70	184.80	184.84	184.81	184.75	184.64	184.58	184.57	184.56	
4	184.69	184.69	184.98	184.68	184.78	184.89	184.78	184.75	184.64	184.58	184.57	184.56	
5	184.66	184.69	184.88	184.67	184.74	184.83	184.78	184.73	184.64	184.58	184.57	184.56	
6	184.63	184.69	184.86	184.69	184.74	184.81	184.81	184.73	184.63	184.58	184.57	184.55	
7	184.63	184.65	184.89	184.70	184.74	184.82	185.08	184.73	184.63	184.58	184.57	184.55	
8	184.63	184.64	184.80	184.68	184.74	184.78	185.20	184.73	184.63	184.58	184.57	184.55	
9	184.63	184.65	184.77	184.69	184.74	185.06	184.90	184.71	184.63	184.58	184.57	184.55	
10	184.63	184.75	184.76	184.71	184.73	184.84	184.81	184.69	184.63	184.58	184.57	184.55	
11	184.62	184.76	184.71	184.74	184.73	184.81	184.80	184.69	184.62	184.58	184.57	184.54	
12	184.62	184.68	184.71	184.68	184.73	184.82	184.78	184.69	184.62	184.58	184.57	184.54	
13	184.62	184.68	184.74	184.68	185.09	185.26	184.75	184.68	184.62	184.58	184.57	184.54	
14	184.62	184.65	184.75	184.68	184.85	185.09	184.75	184.68	184.62	184.58	184.57	184.54	
15	184.62	184.65	184.72	184.68	184.80	185.25	184.75	184.67	184.61	184.58	184.57	184.54	
16	184.63	184.65	184.71	184.68	184.76	185.00	184.74	184.67	184.60	184.57	184.56	184.53	
17	184.63	184.67	184.73	184.67	184.74	185.10	184.74	184.67	184.60	184.57	184.56	184.53	
18	184.64	184.67	184.72	184.67	184.71	184.94	184.73	184.67	184.60	184.57	184.56	184.53	
19	184.65	184.67	184.71	184.69	184.71	184.93	184.73	184.67	184.59	184.57	184.56	184.53	
20	184.65	184.67	184.71	184.69	184.77	185.20	184.73	184.67	184.59	184.57	184.56	184.53	
21	184.66	184.65	184.71	184.71	184.91	184.94	184.73	184.67	184.59	184.57	184.56	184.51	
22	184.63	184.79	184.69	184.75	184.80	184.84	184.73	184.67	184.59	184.57	184.56	184.51	
23	184.63	184.79	184.69	184.73	184.78	184.84	184.69	184.66	184.59	184.57	184.56	184.51	
24	184.63	184.79	184.68	184.71	184.75	184.83	184.68	184.66	184.59	184.57	184.56	184.62	
25	184.63	184.81	184.66	184.74	184.79	184.80	184.68	184.66	184.58	184.57	184.56	184.63	
26	184.63	184.94	184.66	184.79	184.80	184.80	184.68	184.65	184.58	184.57	184.56	184.63	
27	184.63	184.89	184.66	184.79	184.76	184.78	184.70	184.65	184.58	184.57	184.56	184.70	
28	184.67	184.84	184.67	184.76	184.68	184.78	184.73	184.65	184.58	184.57	184.56	184.66	
29	184.67	184.82	184.67	184.75	184.62	184.77	184.70	184.64	184.58	184.57		184.64	
30	184.75	184.78	184.66	184.73	184.62	184.76	184.67	184.64	184.58	184.57		184.62	
31		184.74		184.72	184.61		184.66		184.58	184.57		184.62	
Mean	184.64	184.73	184.74	184.71	184.77	184.91	184.77	184.69	184.61	184.57	184.57	184.57	
Max	184.75	184.94	184.98	184.79	185.09	185.26	185.20	184.76	184.64	184.58	184.57	184.70	185.26
Min	184.60	184.64	184.66	184.67	184.61	184.76	184.66	184.64	184.58	184.57	184.56	184.51	184.51

Annual Max Momentary Gage Height 185.33 m. (MSL.) , at 12.00 Hours , on Sep 13, 2008

Zero Gage at Bottom Elevation 184.61 m. (MSL.) , River Bed 184.30 m. (MSL.)

Left Bank Elevation 192.12 m. (MSL.) ,

Right Bank Elevation 189.51 m. (MSL.) , Drainage Are 66 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.20	0.96	0.72	0.80	0.68	2.75	0.92	0.84	0.36	0.16	0.14	0.12		
2	0.36	0.96	0.92	0.72	6.08	1.88	0.92	0.84	0.36	0.16	0.14	0.12		
3	0.48	0.64	3.10	0.60	1.00	1.70	1.18	0.80	0.36	0.16	0.14	0.12		
4	0.56	0.56	4.15	0.52	0.92	2.58	0.92	0.80	0.36	0.16	0.14	0.12		
5	0.44	0.56	2.40	0.48	0.76	1.53	0.92	0.72	0.36	0.16	0.14	0.12		
6	0.32	0.56	2.05	0.56	0.76	1.18	1.18	0.72	0.32	0.16	0.14	0.10		
7	0.32	0.40	2.58	0.60	0.76	1.35	5.90	0.72	0.32	0.16	0.14	0.10		
8	0.32	0.36	1.00	0.52	0.76	0.92	8.00	0.72	0.32	0.16	0.14	0.10		
9	0.32	0.40	0.88	0.56	0.76	5.55	2.75	0.64	0.32	0.16	0.14	0.10		
10	0.32	0.80	0.84	0.64	0.72	1.70	1.18	0.56	0.32	0.16	0.14	0.10		
11	0.28	0.84	0.64	0.76	0.72	1.18	1.00	0.56	0.28	0.16	0.14	0.08		
12	0.28	0.52	0.64	0.52	0.72	1.35	0.92	0.56	0.28	0.16	0.14	0.08		
13	0.28	0.52	0.76	0.52	6.08	9.80	0.80	0.52	0.28	0.16	0.14	0.08		
14	0.28	0.40	0.80	0.52	1.88	6.08	0.80	0.52	0.28	0.16	0.14	0.08		
15	0.28	0.40	0.68	0.52	1.00	9.50	0.80	0.48	0.24	0.16	0.14	0.08		
16	0.32	0.40	0.64	0.52	0.84	4.50	0.76	0.48	0.20	0.14	0.12	0.06		
17	0.32	0.48	0.72	0.48	0.76	6.25	0.76	0.48	0.20	0.14	0.12	0.06		
18	0.36	0.48	0.68	0.48	0.64	3.45	0.72	0.48	0.20	0.14	0.12	0.06		
19	0.40	0.48	0.64	0.56	0.64	3.28	0.72	0.48	0.18	0.14	0.12	0.06		
20	0.40	0.48	0.64	0.56	0.88	8.00	0.72	0.48	0.18	0.14	0.12	0.06		
21	0.44	0.40	0.64	0.64	2.93	3.45	0.72	0.48	0.18	0.14	0.12	0.02		
22	0.32	0.96	0.56	0.80	1.00	1.70	0.72	0.48	0.18	0.14	0.12	0.02		
23	0.32	0.96	0.56	0.72	0.92	1.70	0.56	0.44	0.18	0.14	0.12	0.02		
24	0.32	0.96	0.52	0.64	0.80	1.53	0.52	0.44	0.18	0.14	0.12	0.28		
25	0.32	1.18	0.44	0.76	0.96	1.00	0.52	0.44	0.16	0.14	0.12	0.32		
26	0.32	3.45	0.44	0.96	1.00	1.00	0.52	0.40	0.16	0.14	0.12	0.32		
27	0.32	2.58	0.44	0.96	0.84	0.92	0.60	0.40	0.16	0.14	0.12	0.60		
28	0.48	1.70	0.48	0.84	0.52	0.92	0.72	0.40	0.16	0.14	0.12	0.44		
29	0.48	1.35	0.48	0.80	0.28	0.88	0.60	0.36	0.16	0.14		0.36		
30	0.80	0.92	0.44	0.72	0.28	0.84	0.48	0.36	0.16	0.14		0.28		
31		0.76		0.68	0.24		0.44		0.16	0.14		0.28		
Total	10.96	26.42	30.48	19.96	37.13	88.47	38.27	16.60	7.56	4.64	3.66	4.74	288.89	CMSDAY
Mean	0.37	0.85	1.02	0.64	1.20	2.95	1.23	0.55	0.24	0.15	0.13	0.15	0.79	CMS
Max	0.80	3.45	4.15	0.96	6.08	9.80	8.00	0.84	0.36	0.16	0.14	0.60	9.80	CMS
Min	0.20	0.36	0.44	0.48	0.24	0.84	0.44	0.36	0.16	0.14	0.12	0.02	0.02	CMS
Runoff	0.95	2.28	2.63	1.72	3.21	7.64	3.31	1.43	0.65	0.40	0.32	0.41	24.96	MCM

Momentary Peak 11.90 CMS. at 185.33 m. (MSL.) at 12.00 Hours , on Sep 13, 2008

Runoff Yield 11.98 Liters/Second/Square KM. Momentary Peak Yield 180.17 Liters/Second/Square KM.

WATER YEAR : 2008

PASAK RIVER BASIN

Pasak River at Ban Kham Phran, Lop Buri (S.28A)

Lat 14 - 50 - 21 N Long 101 - 04 - 08 E

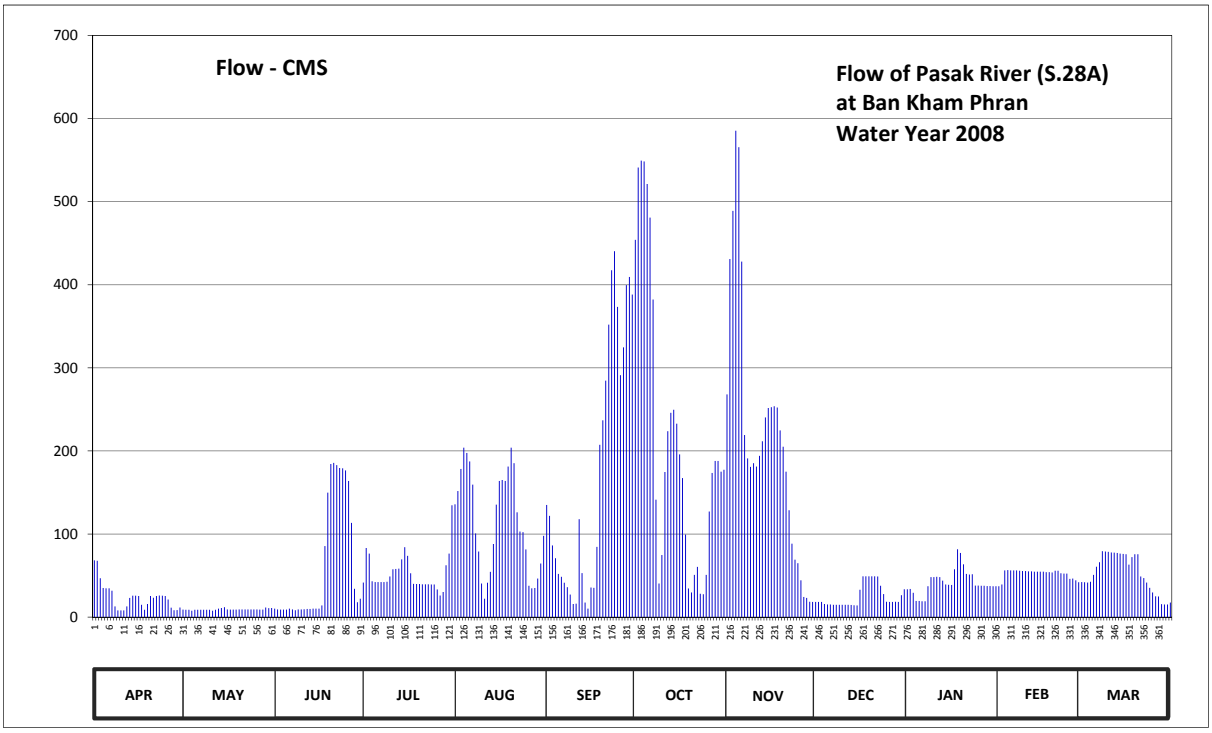
Location : on left bank at Ban Kam Pran.

	Ban Kham Phran	**Amphoe** Wang Muang	**Changwat** Lop Buri
Drainge Area	12,843 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+15.500 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the automatic gage buiding		**Elevation** +31.560 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1986 to date		
Rating Operation			
Period of Rating	1998 to date		
Rated by Float	-		
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 Pasak Cholasit Dam.		
	Stage-discharge relation defined by 78 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.44	16.58	16.62	17.67	20.22	20.20	25.77	23.12	16.89	17.40	17.52	17.69	
2	18.42	16.57	16.59	18.86	20.62	19.87	26.75	25.50	16.89	17.41	17.59	17.68	
3	17.82	16.57	16.58	18.67	21.28	18.95	26.84	26.17	16.89	17.26	18.09	17.67	
4	17.45	16.53	16.58	17.72	21.86	18.51	26.83	27.21	16.81	16.93	18.10	17.70	
5	17.44	16.57	16.58	17.69	21.72	17.97	26.53	27.01	16.79	16.93	18.09	17.94	
6	17.44	16.57	16.62	17.69	21.49	17.87	26.08	25.46	16.79	16.92	18.09	18.22	
7	17.34	16.57	16.59	17.69	20.81	17.66	24.87	22.18	16.78	16.92	18.09	18.37	
8	16.71	16.57	16.55	17.69	19.34	17.48	20.36	21.57	16.78	17.52	18.08	18.75	
9	16.54	16.57	16.59	17.70	18.74	17.19	17.63	21.34	16.78	17.86	18.07	18.74	
10	16.54	16.57	16.59	17.88	17.63	16.81	18.62	21.44	16.78	17.86	18.07	18.73	
11	16.54	16.53	16.60	18.13	17.02	16.82	21.19	21.35	16.78	17.87	18.06	18.71	
12	16.71	16.57	16.61	18.14	17.66	19.77	22.27	21.64	16.78	17.86	18.06	18.70	
13	17.05	16.62	16.61	18.15	18.04	18.00	22.71	22.03	16.77	17.74	18.05	18.69	
14	17.14	16.65	16.62	18.47	19.00	16.87	22.78	22.60	16.76	17.59	18.05	18.67	
15	17.14	16.68	16.62	18.89	20.21	16.62	22.45	22.82	16.75	17.58	18.05	18.66	
16	17.13	16.59	16.62	18.59	20.92	17.47	21.68	22.84	17.38	17.57	18.05	18.65	
17	16.78	16.58	16.75	17.99	20.95	17.46	21.01	22.86	17.89	18.13	18.03	18.29	
18	16.57	16.58	18.93	17.62	20.92	18.90	19.31	22.83	17.89	18.82	18.03	18.55	
19	16.81	16.58	20.57	17.61	21.35	21.94	17.43	22.29	17.89	18.69	18.02	18.65	
20	17.13	16.59	21.42	17.61	21.86	22.53	17.27	21.89	17.89	18.30	18.08	18.65	
21	17.06	16.59	21.45	17.60	21.44	23.41	17.94	21.20	17.89	17.97	18.08	17.88	
22	17.13	16.59	21.39	17.60	19.98	24.45	18.21	20.04	17.88	17.95	17.99	17.83	
23	17.15	16.59	21.31	17.60	19.40	25.33	17.22	19.01	17.54	17.96	17.98	17.67	
24	17.14	16.59	21.30	17.59	19.38	25.61	17.20	18.46	17.21	17.55	17.98	17.46	
25	17.13	16.59	21.24	17.59	18.81	24.75	17.94	18.34	16.90	17.55	17.80	17.27	
26	16.99	16.59	20.92	17.39	17.54	23.52	20.00	17.75	16.89	17.54	17.81	17.12	
27	16.66	16.58	19.66	17.15	17.44	24.04	21.16	17.09	16.89	17.54	17.75	17.11	
28	16.55	16.58	17.42	17.29	17.45	25.10	21.50	17.05	16.90	17.53	17.68	16.80	
29	16.56	16.67	16.88	18.27	17.81	25.23	21.50	16.90	16.89	17.53		16.79	
30	16.67	16.64	17.02	18.67	18.33	24.95	21.20	16.89	17.16	17.52		16.79	
31		16.65		20.19	19.27		21.26		17.40	17.52		16.87	
Mean	17.07	16.59	18.06	17.98	19.63	20.51	21.40	21.56	17.11	17.66	17.98	17.98	
Max	18.44	16.68	21.45	20.19	21.86	25.61	26.84	27.21	17.89	18.82	18.10	18.75	27.21
Min	16.54	16.53	16.55	17.15	17.02	16.62	17.20	16.89	16.75	16.92	17.52	16.79	16.53

Annual Max Momentary Gage Height	27.29	m. (MSL.) ,	at 06.00 Hours , on Nov 5, 2008		
Zero Gage at Bottom Elevation	15.50	m. (MSL.) ,	River Bed	14.95	m. (MSL.)
Left Bank Elevation	31.46	m. (MSL.) ,			
Right Bank Elevation	33.65	m. (MSL.) ,	Drainage Are	12,843	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	68.40	9.00	10.10	41.60	135.80	135.00	453.95	268.10	18.20	33.50	37.10	42.20		
2	67.70	8.75	9.25	83.10	151.80	121.80	541.00	431.00	18.20	33.80	39.20	41.90		
3	46.70	8.75	9.00	76.45	178.20	86.25	549.30	488.80	18.20	29.30	56.15	41.60		
4	35.00	7.75	9.00	43.20	203.80	70.85	548.35	585.25	15.80	19.40	56.50	42.50		
5	34.70	8.75	9.00	42.20	197.60	51.95	521.20	565.49	15.20	19.40	56.15	50.90		
6	34.70	8.75	10.10	42.20	187.41	48.45	480.70	427.80	15.20	19.10	56.15	60.70		
7	31.70	8.75	9.25	42.20	159.40	41.30	382.25	219.11	14.90	19.10	56.15	65.95		
8	12.80	8.75	8.25	42.20	100.60	35.90	141.40	190.96	14.90	37.10	55.80	79.25		
9	8.00	8.75	9.25	42.50	78.90	27.20	40.40	180.77	14.90	48.10	55.45	78.90		
10	8.00	8.75	9.25	48.80	40.40	15.80	74.70	185.20	14.90	48.10	55.45	78.55		
11	8.00	7.75	9.50	57.55	22.10	16.10	174.60	181.21	14.90	48.45	55.10	77.85		
12	12.80	8.75	9.80	57.90	41.30	117.80	223.67	194.06	14.90	48.10	55.10	77.50		
13	23.00	10.10	9.80	58.25	54.40	53.00	245.94	211.52	14.60	43.90	54.75	77.15		
14	25.70	11.00	10.10	69.45	88.00	17.60	249.49	240.38	14.30	39.20	54.75	76.45		
15	25.70	11.90	10.10	84.15	135.40	10.10	232.78	251.60	14.00	38.90	54.75	76.10		
16	25.40	9.25	10.10	73.65	163.80	35.60	195.83	252.70	32.90	38.60	54.75	75.75		
17	14.90	9.00	14.00	52.65	165.00	35.30	167.40	253.80	49.15	57.55	54.05	63.15		
18	8.75	9.00	85.55	40.10	163.80	84.50	99.40	252.15	49.15	81.70	54.05	72.25		
19	15.80	9.00	149.80	39.80	181.21	207.34	34.40	224.68	49.15	77.15	53.70	75.75		
20	25.40	9.25	184.31	39.80	203.80	236.83	29.60	205.13	49.15	63.50	55.80	75.75		
21	23.30	9.25	185.64	39.50	185.20	284.60	50.90	175.00	49.15	51.95	55.80	48.80		
22	25.40	9.25	182.99	39.50	126.20	352.00	60.35	128.60	48.80	51.25	52.65	47.05		
23	26.00	9.25	179.44	39.50	103.00	417.40	28.10	88.35	37.70	51.60	52.30	41.60		
24	25.70	9.25	179.00	39.20	102.20	440.35	27.50	69.10	27.80	38.00	52.30	35.30		
25	25.40	9.25	176.60	39.20	81.35	373.25	50.90	64.90	18.50	38.00	46.00	29.60		
26	21.20	9.25	163.80	33.20	37.70	291.20	127.00	44.25	18.20	37.70	46.35	25.10		
27	11.30	9.00	113.40	26.00	34.70	324.60	173.40	24.20	18.20	37.70	44.25	24.80		
28	8.25	9.00	34.10	30.20	35.00	399.50	187.86	23.00	18.50	37.40	41.90	15.50		
29	8.50	11.60	17.90	62.45	46.35	409.40	187.86	18.50	18.20	37.40		15.20		
30	11.60	10.70	22.10	76.45	64.55	388.25	175.00	18.20	26.30	37.10		15.20		
31		11.00		134.60	97.80		177.40		33.50	37.10		17.60		
Total	719.80	288.55	1840.48	1637.55	3566.77	5129.22	6632.63	6463.81	777.45	1299.15	1462.45	1645.90	31463.76	CMSDAY
Mean	23.99	9.31	61.35	52.82	115.06	170.97	213.96	215.46	25.08	41.91	52.23	53.09	86.20	CMS
Max	68.40	11.90	185.64	134.60	203.80	440.35	549.30	585.25	49.15	81.70	56.50	79.25	585.25	CMS
Min	8.00	7.75	8.25	26.00	22.10	10.10	27.50	18.20	14.00	19.10	37.10	15.20	7.75	CMS
Runoff	62.19	24.93	159.02	141.48	308.17	443.16	573.06	558.47	67.17	112.25	126.36	142.21	2718.47	MCM

Momentary Peak 593.16 CMS. at 27.29 m. (MSL.) at 06.00 Hours , on Nov 5, 2008

Runoff Yield 6.71 Liters/Second/Square KM. Momentary Peak Yield 46.18 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Float	-
Rated by Current Meter	1999 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +197.270 m.(MSL.) and is including overbank flow.
General Description	Records good. Stage-discharge relation defined by 14 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

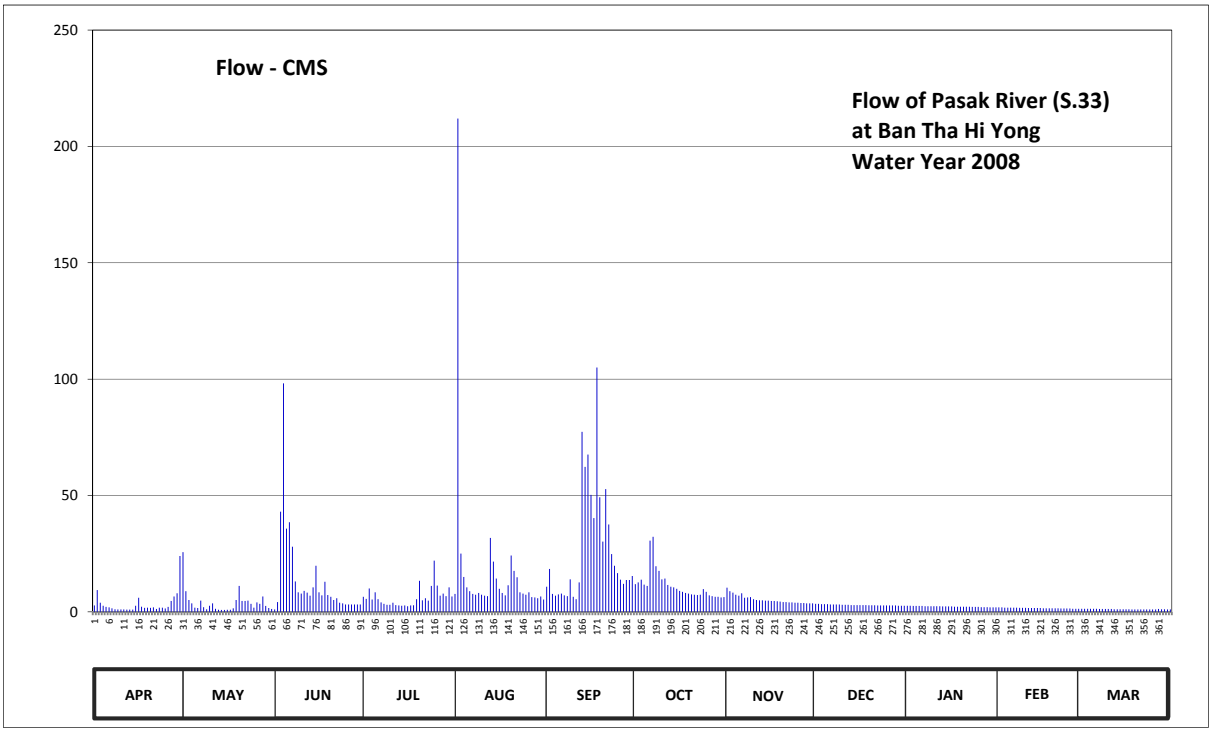
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.77	192.13	190.60	191.03	191.11	191.32	191.39	191.29	190.83	190.76	190.69	190.63	
2	191.22	191.19	190.88	190.97	196.60	191.77	191.44	191.19	190.83	190.76	190.69	190.63	
3	190.86	190.94	192.88	191.27	192.10	191.11	191.52	191.15	190.82	190.75	190.68	190.63	
4	190.76	190.84	194.58	190.95	191.60	191.06	191.38	191.09	190.82	190.75	190.68	190.63	
5	190.71	190.68	192.59	191.16	191.30	191.10	191.34	191.06	190.82	190.75	190.68	190.63	
6	190.69	190.66	192.70	190.96	191.19	191.12	192.38	191.13	190.81	190.75	190.68	190.63	
7	190.65	190.92	192.25	190.87	191.11	191.07	192.45	191.00	190.81	190.74	190.68	190.62	
8	190.61	190.70	191.47	190.83	191.09	191.05	191.83	191.01	190.81	190.74	190.67	190.62	
9	190.60	190.61	191.16	190.80	191.14	191.53	191.73	191.02	190.81	190.74	190.67	190.62	
10	190.60	190.76	191.12	190.80	191.09	191.03	191.53	190.96	190.80	190.74	190.67	190.62	
11	190.60	190.84	191.20	190.86	191.06	190.96	191.55	190.94	190.80	190.74	190.66	190.62	
12	190.59	190.63	191.15	190.79	191.05	191.44	191.37	190.93	190.80	190.74	190.66	190.61	
13	190.59	190.57	191.06	190.77	192.43	194.01	191.32	190.93	190.79	190.73	190.66	190.61	
14	190.59	190.56	191.30	190.76	191.93	193.58	191.30	190.92	190.79	190.73	190.66	190.61	
15	190.76	190.56	191.84	190.77	191.55	193.73	191.26	190.92	190.79	190.73	190.66	190.61	
16	191.00	190.57	191.16	190.74	191.26	193.17	191.20	190.91	190.79	190.73	190.65	190.61	
17	190.72	190.58	191.07	190.77	191.14	192.77	191.17	190.91	190.79	190.72	190.65	190.61	
18	190.67	190.65	191.46	190.78	191.07	194.75	191.14	190.90	190.79	190.72	190.65	190.60	
19	190.68	190.94	191.08	190.96	191.36	193.13	191.12	190.89	190.78	190.72	190.65	190.60	
20	190.67	191.34	191.03	191.49	192.06	192.36	191.10	190.88	190.78	190.72	190.65	190.60	
21	190.69	190.91	190.94	190.93	191.73	193.27	191.09	190.88	190.78	190.72	190.65	190.60	
22	190.62	190.91	190.99	190.99	191.59	192.66	191.08	190.87	190.77	190.72	190.64	190.60	
23	190.68	190.92	190.86	190.92	191.16	192.09	191.09	190.87	190.77	190.71	190.64	190.60	
24	190.68	190.83	190.84	191.34	191.12	191.84	191.25	190.86	190.77	190.71	190.64	190.60	
25	190.64	190.68	190.81	191.95	191.09	191.68	191.17	190.86	190.77	190.71	190.64	190.60	
26	190.71	190.87	190.81	191.35	191.16	191.52	191.07	190.85	190.77	190.70	190.63	190.60	
27	190.91	190.83	190.81	191.06	191.02	191.40	191.05	190.85	190.77	190.70	190.63	190.62	
28	191.04	191.04	190.81	191.12	191.01	191.51	191.03	190.84	190.77	190.70	190.63	190.61	
29	191.13	190.75	190.81	191.05	190.99	191.51	191.03	190.84	190.76	190.69		190.61	
30	192.05	190.66	190.81	191.30	191.04	191.62	191.01	190.84	190.76	190.69		190.60	
31		190.62		191.04	190.95		191.02		190.76	190.69		190.60	
Mean	190.78	190.83	191.37	191.01	191.49	192.04	191.34	190.95	190.79	190.73	190.66	190.61	
Max	192.05	192.13	194.58	191.95	196.60	194.75	192.45	191.29	190.83	190.76	190.69	190.63	196.60
Min	190.59	190.56	190.60	190.74	190.95	190.96	191.01	190.84	190.76	190.69	190.63	190.60	190.56

Annual Max Momentary Gage Height 198.17 m. (MSL.) , at 08.00 Hours , on Aug 2, 2008

Zero Gage at Bottom Elevation 190.09 m. (MSL.) , River Bed 190.01 m. (MSL.)

Left Bank Elevation 197.26 m. (MSL.) ,

Right Bank Elevation 197.78 m. (MSL.) , Drainage Are 521 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.70	25.60	1.00	6.45	7.65	10.80	11.85	10.35	3.45	2.60	1.90	1.30		
2	9.30	8.85	4.20	5.55	212.00	18.40	12.60	8.85	3.45	2.60	1.90	1.30		
3	3.90	5.10	43.00	10.05	25.00	7.65	13.80	8.25	3.30	2.50	1.80	1.30		
4	2.60	3.60	98.20	5.25	15.00	6.90	11.70	7.35	3.30	2.50	1.80	1.30		
5	2.10	1.80	35.75	8.40	10.50	7.50	11.10	6.90	3.30	2.50	1.80	1.30		
6	1.90	1.60	38.50	5.40	8.85	7.80	30.60	7.95	3.15	2.50	1.80	1.30		
7	1.50	4.80	28.00	4.05	7.65	7.05	32.25	6.00	3.15	2.40	1.80	1.20		
8	1.10	2.00	13.05	3.45	7.35	6.75	19.60	6.15	3.15	2.40	1.70	1.20		
9	1.00	1.10	8.40	3.00	8.10	13.95	17.60	6.30	3.15	2.40	1.70	1.20		
10	1.00	2.60	7.80	3.00	7.35	6.45	13.95	5.40	3.00	2.40	1.70	1.20		
11	1.00	3.60	9.00	3.90	6.90	5.40	14.25	5.10	3.00	2.40	1.60	1.20		
12	0.95	1.30	8.25	2.90	6.75	12.60	11.55	4.95	3.00	2.40	1.60	1.10		
13	0.95	0.85	6.90	2.70	31.75	77.35	10.80	4.95	2.90	2.30	1.60	1.10		
14	0.95	0.80	10.50	2.60	21.60	62.30	10.50	4.80	2.90	2.30	1.60	1.10		
15	2.60	0.80	19.80	2.70	14.25	67.55	9.90	4.80	2.90	2.30	1.60	1.10		
16	6.00	0.85	8.40	2.40	9.90	50.25	9.00	4.65	2.90	2.30	1.50	1.10		
17	2.20	0.90	7.05	2.70	8.10	40.25	8.55	4.65	2.90	2.20	1.50	1.10		
18	1.70	1.50	12.90	2.80	7.05	105.00	8.10	4.50	2.90	2.20	1.50	1.00		
19	1.80	5.10	7.20	5.40	11.40	49.25	7.80	4.35	2.80	2.20	1.50	1.00		
20	1.70	11.10	6.45	13.35	24.20	30.20	7.50	4.20	2.80	2.20	1.50	1.00		
21	1.90	4.65	5.10	4.95	17.60	52.75	7.35	4.20	2.80	2.20	1.50	1.00		
22	1.20	4.65	5.85	5.85	14.85	37.50	7.20	4.05	2.70	2.20	1.40	1.00		
23	1.80	4.80	3.90	4.80	8.40	24.80	7.35	4.05	2.70	2.10	1.40	1.00		
24	1.80	3.45	3.60	11.10	7.80	19.80	9.75	3.90	2.70	2.10	1.40	1.00		
25	1.40	1.80	3.15	22.00	7.35	16.60	8.55	3.90	2.70	2.10	1.40	1.00		
26	2.10	4.05	3.15	11.25	8.40	13.80	7.05	3.75	2.70	2.00	1.30	1.00		
27	4.65	3.45	3.15	6.90	6.30	12.00	6.75	3.75	2.70	2.00	1.30	1.20		
28	6.60	6.60	3.15	7.80	6.15	13.65	6.45	3.60	2.70	2.00	1.30	1.10		
29	7.95	2.50	3.15	6.75	5.85	13.65	6.45	3.60	2.60	1.90		1.10		
30	24.00	1.60	3.15	10.50	6.60	15.40	6.15	3.60	2.60	1.90		1.00		
31		1.20		6.60	5.25		6.30		2.60	1.90		1.00		
Total	100.35	122.60	411.70	194.55	545.90	813.35	352.35	158.85	90.90	70.00	44.40	34.80	2939.75	CMSDAY
Mean	3.34	3.95	13.72	6.28	17.61	27.11	11.37	5.30	2.93	2.26	1.59	1.12	8.05	CMS
Max	24.00	25.60	98.20	22.00	212.00	105.00	32.25	10.35	3.45	2.60	1.90	1.30	212.00	CMS
Min	0.95	0.80	1.00	2.40	5.25	5.40	6.15	3.60	2.60	1.90	1.30	1.00	0.80	CMS
Runoff	8.67	10.59	35.57	16.81	47.17	70.27	30.44	13.72	7.85	6.05	3.84	3.01	253.99	MCM

Momentary Peak 339.30 CMS. at 198.17 m. (MSL.) at 8.00 Hours , on Aug 2, 2008

Runoff Yield 15.45 Liters/Second/Square KM. Momentary Peak Yield 650.76 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 5 readings		
Period of Available Gage Records	1999 to date		
Rating Operation			
Period of Rating	1999 to date		
Rated by Float	-		
Rated by Current Meter	1999 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 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

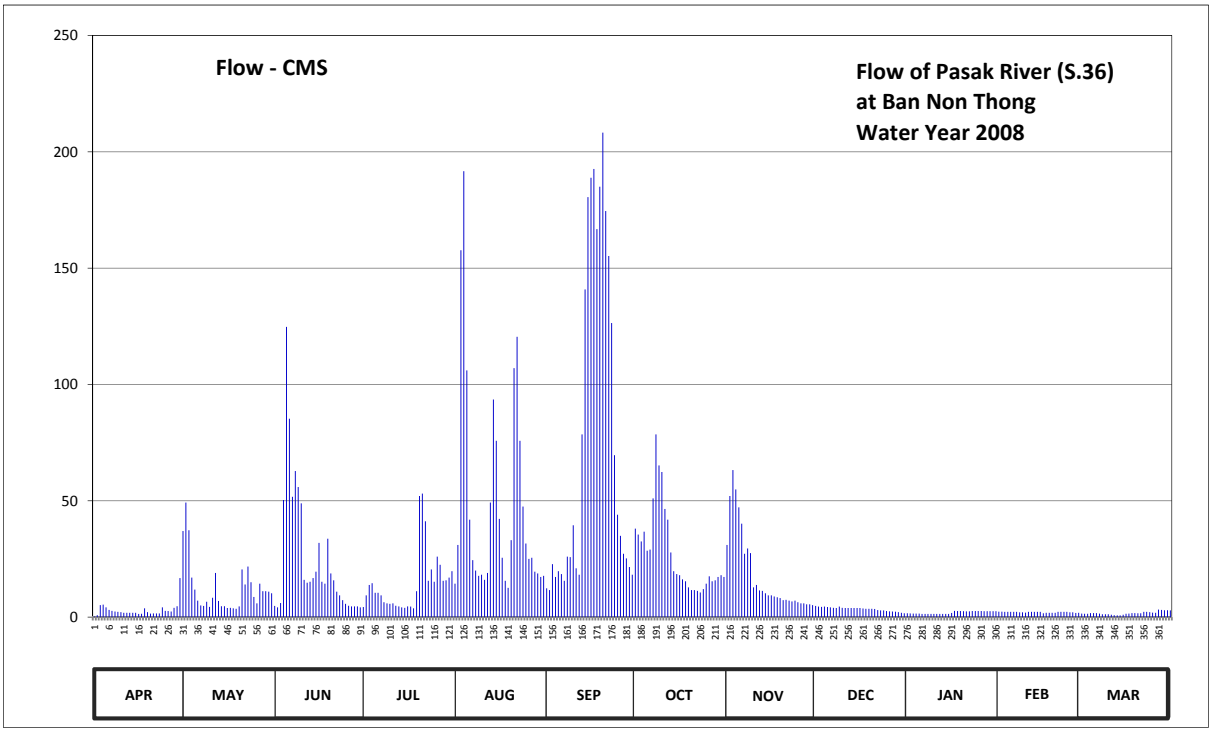
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	134.10	136.20	134.78	134.73	135.32	135.22	136.23	136.00	134.78	134.42	134.51	134.40	
2	134.26	136.55	134.72	135.05	136.00	135.18	136.15	136.63	134.75	134.41	134.51	134.39	
3	134.81	136.21	134.86	135.29	138.81	135.67	136.05	136.93	134.74	134.40	134.50	134.39	
4	134.82	135.44	136.58	135.33	139.27	135.45	136.19	136.71	134.75	134.40	134.50	134.43	
5	134.72	135.19	138.25	135.11	137.88	135.55	135.90	136.49	134.73	134.40	134.50	134.43	
6	134.61	134.92	137.45	135.11	136.34	135.50	135.92	136.29	134.72	134.38	134.50	134.43	
7	134.56	134.80	136.62	135.05	135.74	135.38	136.60	135.85	134.70	134.37	134.50	134.40	
8	134.52	134.78	136.92	134.88	135.56	135.80	137.30	135.94	134.69	134.37	134.47	134.35	
9	134.50	134.89	136.74	134.85	135.47	135.79	136.98	135.86	134.75	134.37	134.47	134.35	
10	134.48	134.74	136.54	134.84	135.49	136.27	136.91	135.24	134.70	134.37	134.46	134.35	
11	134.45	134.99	135.40	134.85	135.40	135.60	136.47	135.29	134.69	134.37	134.50	134.30	
12	134.45	135.52	135.34	134.79	135.52	135.49	136.34	135.17	134.69	134.37	134.50	134.26	
13	134.45	134.91	135.36	134.76	136.55	137.30	135.87	135.16	134.69	134.37	134.50	134.25	
14	134.45	134.77	135.43	134.72	137.63	138.53	135.55	135.10	134.69	134.37	134.50	134.25	
15	134.45	134.77	135.54	134.70	137.24	139.14	135.50	135.05	134.69	134.37	134.50	134.30	
16	134.38	134.69	136.03	134.76	136.35	139.24	135.48	135.05	134.69	134.44	134.42	134.39	
17	134.39	134.70	135.36	134.75	135.78	139.28	135.41	135.02	134.67	134.56	134.45	134.40	
18	134.68	134.68	135.32	134.68	135.38	138.95	135.37	135.00	134.66	134.55	134.45	134.43	
19	134.48	134.66	136.09	135.15	135.23	139.20	135.24	134.98	134.66	134.55	134.45	134.43	
20	134.40	134.76	135.51	136.63	136.07	139.44	135.18	134.93	134.66	134.54	134.45	134.42	
21	134.41	135.58	135.39	136.66	137.90	139.06	135.18	134.94	134.65	134.53	134.50	134.42	
22	134.41	135.30	135.14	136.32	138.17	138.77	135.16	134.92	134.60	134.53	134.50	134.50	
23	134.41	135.63	135.05	135.38	137.24	138.28	135.12	134.90	134.58	134.55	134.50	134.50	
24	134.72	135.35	134.93	135.58	136.50	137.09	135.20	134.92	134.58	134.55	134.50	134.48	
25	134.56	135.01	134.84	135.36	136.02	136.40	135.32	134.88	134.55	134.55	134.47	134.46	
26	134.55	134.85	134.79	135.80	135.76	136.13	135.46	134.85	134.53	134.55	134.47	134.45	
27	134.52	135.32	134.76	135.66	135.78	135.85	135.37	134.85	134.52	134.54	134.44	134.62	
28	134.70	135.15	134.76	135.38	135.54	135.77	135.39	134.83	134.51	134.54	134.45	134.61	
29	134.77	135.15	134.76	135.39	135.51	135.62	135.45	134.83	134.48	134.54		134.59	
30	135.43	135.14	134.72	135.44	135.45	135.49	135.48	134.81	134.45	134.54		134.59	
31		135.10		135.55	135.47		135.45		134.42	134.54		134.58	
Mean	134.55	135.15	135.60	135.24	136.33	136.88	135.78	135.38	134.64	134.46	134.48	134.42	
Max	135.43	136.55	138.25	136.66	139.27	139.44	137.30	136.93	134.78	134.56	134.51	134.62	139.44
Min	134.10	134.66	134.72	134.68	135.23	135.18	135.12	134.81	134.42	134.37	134.42	134.25	134.10

Annual Max Momentary Gage Height 139.48 m. (MSL.) , at 06.00 Hours , on Sep 20, 2008

Zero Gage at Bottom Elevation 130.95 m. (MSL.) , River Bed 130.50 m. (MSL.)

Left Bank Elevation 144.30 m. (MSL.) ,

Right Bank Elevation 141.83 m. (MSL.) , Drainage Are 1,775 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.25	37.00	4.80	4.30	14.40	12.40	38.05	31.00	4.80	1.65	2.33	1.50		
2	0.80	49.25	4.20	9.38	31.00	11.65	35.50	52.05	4.50	1.58	2.33	1.45		
3	5.18	37.35	6.05	13.80	157.65	22.75	32.50	63.20	4.40	1.50	2.25	1.45		
4	5.35	17.00	50.30	14.60	191.65	17.25	36.70	54.85	4.50	1.50	2.25	1.73		
5	4.20	11.83	124.75	10.43	106.00	19.75	28.50	47.15	4.30	1.50	2.25	1.73		
6	3.10	7.10	85.25	10.43	41.90	18.50	29.00	40.15	4.20	1.40	2.25	1.73		
7	2.70	5.00	51.70	9.38	24.50	15.60	51.00	27.25	4.00	1.35	2.25	1.50		
8	2.40	4.80	62.80	6.40	20.00	26.00	78.50	29.50	3.90	1.35	2.03	1.25		
9	2.25	6.58	55.90	5.88	17.75	25.75	65.20	27.50	4.50	1.35	2.03	1.25		
10	2.10	4.40	48.90	5.70	18.25	39.45	62.40	12.80	4.00	1.35	1.95	1.25		
11	1.88	8.33	16.00	5.88	16.00	21.00	46.45	13.80	3.90	1.35	2.25	1.00		
12	1.88	19.00	14.80	4.90	19.00	18.25	41.90	11.48	3.90	1.35	2.25	0.80		
13	1.88	6.93	15.20	4.60	49.25	78.50	27.75	11.30	3.90	1.35	2.25	0.75		
14	1.88	4.70	16.75	4.20	93.50	140.80	19.75	10.25	3.90	1.35	2.25	0.75		
15	1.88	4.70	19.50	4.00	75.80	180.50	18.50	9.38	3.90	1.35	2.25	1.00		
16	1.40	3.90	31.90	4.60	42.25	188.80	18.00	9.38	3.90	1.80	1.65	1.45		
17	1.45	4.00	15.20	4.50	25.50	192.60	16.25	8.85	3.70	2.70	1.88	1.50		
18	3.80	3.80	14.40	3.80	15.60	166.75	15.40	8.50	3.60	2.63	1.88	1.73		
19	2.10	3.60	33.70	11.13	12.60	185.00	12.80	8.15	3.60	2.63	1.88	1.73		
20	1.50	4.60	18.75	52.05	33.10	208.20	11.65	7.28	3.60	2.55	1.88	1.65		
21	1.58	20.50	15.80	53.10	107.00	174.50	11.65	7.45	3.50	2.48	2.25	1.65		
22	1.58	14.00	10.95	41.20	120.50	155.20	11.30	7.10	3.00	2.48	2.25	2.25		
23	1.58	21.75	9.38	15.60	75.80	126.40	10.60	6.75	2.85	2.63	2.25	2.25		
24	4.20	15.00	7.28	20.50	47.50	69.60	12.00	7.10	2.85	2.63	2.25	2.10		
25	2.70	8.68	5.70	15.20	31.60	44.00	14.40	6.40	2.63	2.63	2.03	1.95		
26	2.63	5.88	4.90	26.00	25.00	34.90	17.50	5.88	2.48	2.63	2.03	1.88		
27	2.40	14.40	4.60	22.50	25.50	27.25	15.40	5.88	2.40	2.55	1.80	3.20		
28	4.00	11.13	4.60	15.60	19.50	25.25	15.80	5.53	2.33	2.55	1.88	3.10		
29	4.70	11.13	4.60	15.80	18.75	21.50	17.25	5.53	2.10	2.55		2.93		
30	16.75	10.95	4.20	17.00	17.25	18.25	18.00	5.18	1.88	2.55		2.93		
31		10.25		19.75	17.75		17.25		1.65	2.55		2.85		
Total	90.10	387.54	762.86	452.21	1511.85	2286.35	846.95	546.62	108.67	61.82	59.08	54.29	7168.34	CMSDAY
Mean	3.00	12.50	25.43	14.59	48.77	76.21	27.32	18.22	3.51	1.99	2.11	1.75	19.64	CMS
Max	16.75	49.25	124.75	53.10	191.65	208.20	78.50	63.20	4.80	2.70	2.33	3.20	208.20	CMS
Min	0.25	3.60	4.20	3.80	12.60	11.65	10.60	5.18	1.65	1.35	1.65	0.75	0.25	CMS
Runoff	7.78	33.48	65.91	39.07	130.62	197.54	73.18	47.23	9.39	5.34	5.10	4.69	619.34	MCM

Momentary Peak 212.40 CMS. at 139.48 m. (MSL.) at 06.00 Hours , on Sep 20, 2008

Runoff Yield 11.06 Liters/Second/Square KM. Momentary Peak Yield 119.63 Liters/Second/Square KM.

WATER YEAR : 2008

PASAK RIVER BASIN

Pasak River at Ban Jong Ko, Lop Buri (S.40)

Lat 15 - 15 - 07 N Long 101 - 20 - 29 E

Location : on left bank at the bridge.

	Ban Jong Ko	**Amphoe** Lam Sonthi	**Changwat** Lop Buri
Drainge Area	1,132 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+63.620 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank at the abutment of the bridge.		**Elevation** +72.304 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2008 to date		
Rating Operation			
Period of Rating	2008 to date		
Rated by Float	-		
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 45 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

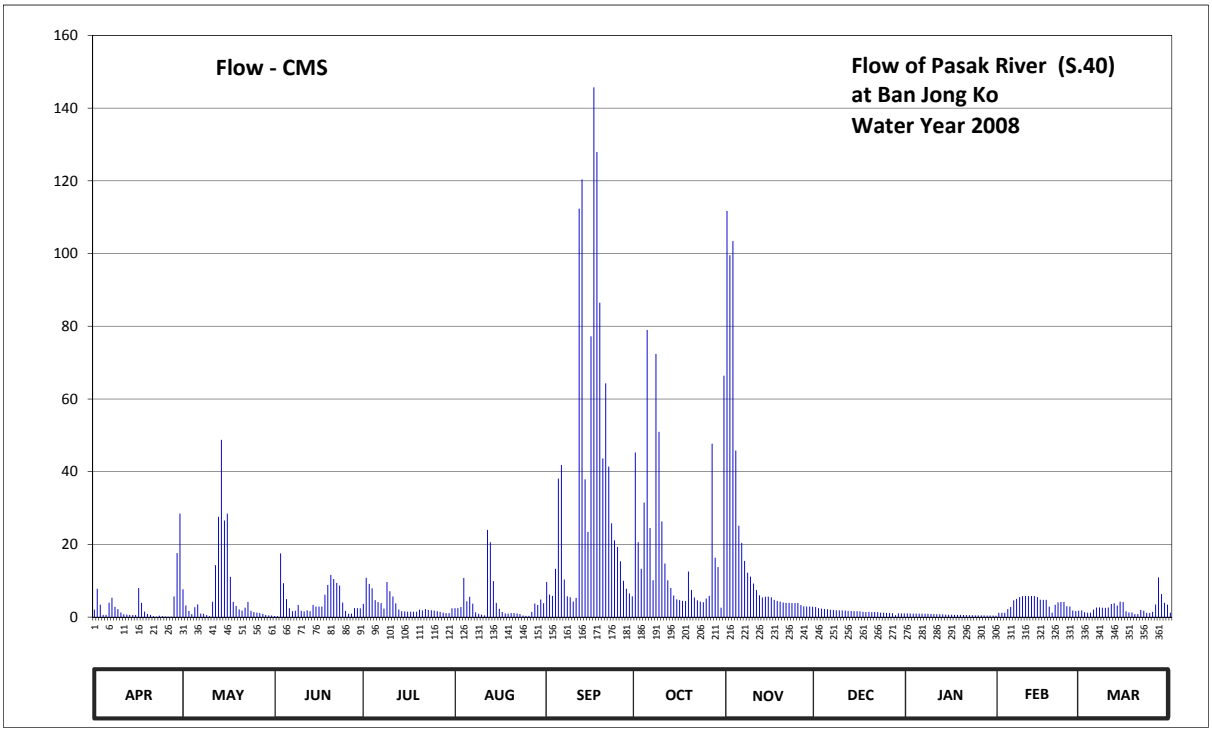
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	64.87	66.11	64.30	65.26	64.97	66.44	69.31	70.91	65.04	64.60	64.65	64.81	
2	66.13	65.15	64.24	66.64	64.97	65.87	67.78	70.69	64.97	64.60	64.65	64.69	
3	65.21	64.78	67.47	66.36	65.04	65.81	66.96	70.76	64.93	64.59	64.65	64.66	
4	64.44	64.53	66.39	66.15	66.63	66.96	68.62	69.33	64.91	64.59	64.90	64.66	
5	64.44	65.03	65.59	65.52	65.44	69.01	70.27	68.18	64.89	64.58	65.05	64.87	
6	65.34	65.22	64.96	65.38	65.75	69.18	68.13	67.76	64.86	64.58	65.50	65.01	
7	65.68	64.58	64.76	65.32	65.27	66.56	66.52	67.23	64.84	64.57	65.60	65.02	
8	65.05	64.56	64.79	64.93	64.68	65.78	70.12	66.83	64.82	64.57	65.72	65.00	
9	64.90	64.42	65.19	66.44	64.56	65.71	69.52	66.69	64.81	64.55	65.79	64.99	
10	64.67	64.27	64.78	66.02	64.48	65.42	68.27	66.37	64.81	64.53	65.80	65.01	
11	64.51	65.40	64.74	65.77	64.38	65.67	67.14	66.07	64.80	64.52	65.79	65.25	
12	64.47	67.09	64.81	65.30	68.09	70.92	66.52	65.83	64.78	64.52	65.80	65.31	
13	64.45	68.37	64.76	64.87	67.78	71.05	66.17	65.70	64.77	64.49	65.80	65.14	
14	64.42	69.44	65.19	64.76	66.48	69.00	65.82	65.75	64.76	64.47	65.72	65.42	
15	64.42	68.29	65.08	64.74	65.33	68.05	65.57	65.76	64.76	64.46	65.55	65.38	
16	66.17	68.43	65.07	64.72	64.92	70.23	65.52	65.71	64.75	64.46	65.54	64.74	
17	65.33	66.68	65.08	64.72	64.70	71.40	65.47	65.54	64.71	64.45	65.54	64.67	
18	64.73	65.39	65.86	64.72	64.60	71.16	65.46	65.46	64.70	64.44	65.08	64.67	
19	64.55	65.12	66.31	64.72	64.58	70.44	66.87	65.42	64.71	64.44	64.66	64.54	
20	64.45	64.88	66.75	64.86	64.62	69.25	66.07	65.35	64.69	64.43	65.20	64.54	
21	64.24	64.80	66.58	64.81	64.62	69.92	65.70	65.33	64.70	64.42	65.36	64.84	
22	64.12	65.00	66.40	64.90	64.60	69.16	65.50	65.33	64.69	64.41	65.39	64.79	
23	64.34	65.39	66.28	64.84	64.53	68.23	65.42	65.32	64.66	64.41	65.39	64.65	
24	64.26	64.78	65.35	64.82	64.36	67.83	65.37	65.32	64.66	64.40	65.10	64.64	
25	64.17	64.69	64.78	64.80	64.32	67.65	65.62	65.32	64.64	64.39	65.08	64.71	
26	64.14	64.66	64.56	64.76	64.32	67.22	65.81	65.17	64.63	64.38	64.80	65.22	
27	64.12	64.62	64.59	64.71	64.71	66.50	69.40	65.09	64.62	64.38	64.77	66.65	
28	65.77	64.55	64.97	64.66	65.28	66.14	67.34	65.08	64.41	64.37	64.79	65.89	
29	67.48	64.42	64.97	64.62	65.19	65.92	67.02	65.07	64.61	64.36		65.34	
30	68.43	64.39	64.95	64.62	65.56	65.78	65.00	65.06	64.60	64.36		65.21	
31		64.37		64.95	65.31		69.98		64.60	64.35		64.66	
Mean	64.98	65.46	65.32	65.15	65.16	67.94	67.04	66.45	64.75	64.47	65.27	65.00	
Max	68.43	69.44	67.47	66.64	68.09	71.40	70.27	70.91	65.04	64.60	65.80	66.65	71.40
Min	64.12	64.27	64.24	64.62	64.32	65.42	65.00	65.06	64.41	64.35	64.65	64.54	64.12

Annual Max Momentary Gage Height 71.70 m. (MSL.) , at 19.00 Hours , on Sep 12, 2008

Zero Gage at Bottom Elevation 63.62 m. (MSL.) , River Bed 63.81 m. (MSL.)

Left Bank Elevation 72.14 m. (MSL.) ,

Right Bank Elevation 72.14 m. (MSL.) , Drainage Are 1,132 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.08	7.66	0.30	3.64	2.48	9.64	45.27	111.72	2.76	1.00	1.20	1.84		
2	7.78	3.20	0.24	10.84	2.48	6.22	20.60	99.55	2.48	1.00	1.20	1.36		
3	3.44	1.72	17.50	9.16	2.76	5.86	13.28	103.40	2.32	0.98	1.20	1.24		
4	0.60	0.83	9.34	7.90	10.78	13.28	31.52	45.81	2.24	0.98	2.20	1.24		
5	0.60	2.72	4.96	4.68	4.36	38.12	78.98	25.14	2.16	0.95	2.80	2.08		
6	3.96	3.48	2.44	4.12	5.60	41.86	24.49	20.40	2.04	0.95	4.60	2.64		
7	5.32	0.95	1.64	3.88	3.68	10.36	10.12	15.44	1.96	0.93	5.00	2.68		
8	2.80	0.90	1.76	2.32	1.32	5.72	72.38	12.24	1.88	0.93	5.48	2.60		
9	2.20	0.55	3.36	9.64	0.90	5.44	50.94	11.14	1.84	0.88	5.76	2.56		
10	1.28	0.27	1.72	7.12	0.70	4.28	26.31	9.22	1.84	0.83	5.80	2.64		
11	0.78	4.20	1.56	5.68	0.46	5.28	14.72	7.42	1.80	0.80	5.76	3.60		
12	0.68	14.32	1.84	3.80	23.97	112.34	10.12	5.98	1.72	0.80	5.80	3.84		
13	0.63	27.61	1.64	2.08	20.60	120.40	8.02	5.40	1.68	0.73	5.80	3.16		
14	0.55	48.78	3.36	1.64	9.88	37.90	5.92	5.60	1.64	0.68	5.48	4.28		
15	0.55	26.57	2.92	1.56	3.92	23.45	4.88	5.64	1.64	0.65	4.80	4.12		
16	8.02	28.48	2.88	1.48	2.28	77.22	4.68	5.44	1.60	0.65	4.76	1.56		
17	3.92	11.08	2.92	1.48	1.40	145.70	4.48	4.76	1.44	0.63	4.76	1.28		
18	1.52	4.16	6.16	1.48	1.00	127.94	4.44	4.44	1.40	0.60	2.92	1.28		
19	0.88	3.08	8.86	1.48	0.95	86.46	12.56	4.28	1.44	0.60	1.24	0.85		
20	0.63	2.12	11.60	2.04	1.08	43.65	7.42	4.00	1.36	0.58	3.40	0.85		
21	0.24	1.80	10.48	1.84	1.08	64.30	5.40	3.92	1.40	0.55	4.04	1.96		
22	0.12	2.60	9.40	2.20	1.00	41.42	4.60	3.92	1.36	0.53	4.16	1.76		
23	0.38	4.16	8.68	1.96	0.83	25.79	4.28	3.88	1.24	0.53	4.16	1.20		
24	0.26	1.72	4.00	1.88	0.42	21.10	4.08	3.88	1.24	0.50	3.00	1.16		
25	0.17	1.36	1.72	1.80	0.34	19.30	5.08	3.88	1.16	0.48	2.92	1.44		
26	0.14	1.24	0.90	1.64	0.34	15.36	5.86	3.28	1.12	0.46	1.80	3.48		
27	0.12	1.08	0.98	1.44	1.44	10.00	47.70	2.96	1.08	0.46	1.68	10.90		
28	5.68	0.88	2.48	1.24	3.72	7.84	16.32	2.92	0.53	0.44	1.76	6.34		
29	17.60	0.55	2.48	1.08	3.36	6.52	13.76	2.88	1.04	0.42		3.96		
30	28.48	0.48	2.40	1.08	4.84	5.72	2.60	2.84	1.00	0.42		3.44		
31		0.44		2.40	3.84		66.40		1.00	0.40		1.24		
Total	101.41	208.99	130.52	104.58	121.81	1138.47	627.21	541.38	49.41	21.34	103.48	82.58	3231.18	CMSDAY
Mean	3.38	6.74	4.35	3.37	3.93	37.95	20.23	18.05	1.59	0.69	3.70	2.66	8.85	CMS
Max	28.48	48.78	17.50	10.84	23.97	145.70	78.98	111.72	2.76	1.00	5.80	10.90	145.70	CMS
Min	0.12	0.27	0.24	1.08	0.34	4.28	2.60	2.84	0.53	0.40	1.20	0.85	0.12	CMS
Runoff	8.76	18.06	11.28	9.04	10.52	98.36	54.19	46.78	4.27	1.84	8.94	7.13	279.17	MCM

Momentary Peak 173.00 CMS. at 71.70 m. (MSL.) at 19.00 Hours , on Sep 12, 2008

Runoff Yield 7.82 Liters/Second/Square KM. Momentary Peak Yield 152.83 Liters/Second/Square KM.

WATER YEAR : 2008

PASAK RIVER BASIN

Nam Kho at Ban Nam Kho, Phetchabun (S.41)

Lat 16 - 47 - 28 N Long 101 - 10 - 45 E

Location : on left bank at Ban Nam Kho.

	Ban Nam Kho	**Amphoe** Lom Sak	**Changwat** Phetchabun
Drainge Area	69 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 gage site.		**Elevation** +5.000 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2005 to date		
Rating Operation			
Period of Rating	2005 to date		
Rated by Float	-		
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 13 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

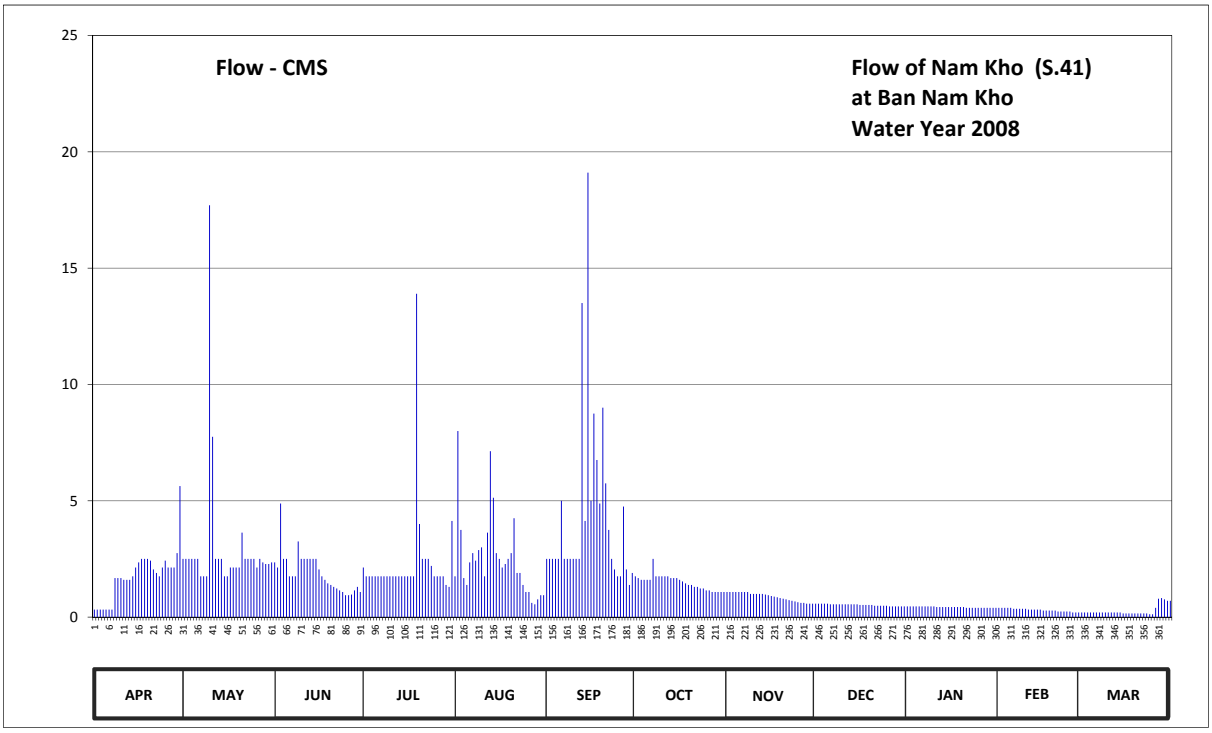
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.22	0.20	0.18	0.15	0.10	0.20	0.10	0.01	-0.14	-0.18	-0.20	-0.25	
2	-0.22	0.20	0.15	0.10	0.64	0.20	0.09	0.01	-0.14	-0.18	-0.20	-0.25	
3	-0.22	0.20	0.39	0.10	0.30	0.20	0.08	0.01	-0.14	-0.18	-0.20	-0.25	
4	-0.22	0.20	0.20	0.10	0.09	0.20	0.08	0.01	-0.14	-0.18	-0.20	-0.25	
5	-0.22	0.20	0.20	0.10	0.05	0.20	0.08	0.01	-0.14	-0.18	-0.20	-0.25	
6	-0.22	0.20	0.10	0.10	0.18	0.40	0.08	0.01	-0.15	-0.18	-0.21	-0.25	
7	-0.22	0.10	0.10	0.10	0.22	0.20	0.20	0.01	-0.15	-0.18	-0.21	-0.25	
8	0.09	0.10	0.10	0.10	0.19	0.20	0.10	0.01	-0.15	-0.18	-0.21	-0.25	
9	0.09	0.10	0.26	0.10	0.23	0.20	0.10	0.00	-0.15	-0.18	-0.21	-0.25	
10	0.09	1.21	0.20	0.10	0.24	0.20	0.10	0.00	-0.15	-0.18	-0.21	-0.25	
11	0.08	0.62	0.20	0.10	0.10	0.20	0.10	0.00	-0.15	-0.19	-0.22	-0.25	
12	0.08	0.20	0.20	0.10	0.29	0.20	0.10	0.00	-0.15	-0.19	-0.22	-0.25	
13	0.08	0.20	0.20	0.10	0.57	1.00	0.09	0.00	-0.15	-0.19	-0.22	-0.25	
14	0.10	0.20	0.20	0.10	0.41	0.33	0.09	-0.01	-0.15	-0.19	-0.22	-0.25	
15	0.15	0.10	0.20	0.10	0.22	1.28	0.09	-0.02	-0.15	-0.19	-0.22	-0.26	
16	0.18	0.10	0.14	0.10	0.20	0.40	0.08	-0.03	-0.16	-0.19	-0.23	-0.26	
17	0.20	0.15	0.10	0.10	0.15	0.70	0.07	-0.04	-0.16	-0.19	-0.23	-0.26	
18	0.20	0.15	0.08	0.10	0.17	0.54	0.06	-0.05	-0.16	-0.19	-0.23	-0.26	
19	0.20	0.15	0.06	1.02	0.20	0.39	0.05	-0.06	-0.16	-0.19	-0.23	-0.26	
20	0.19	0.15	0.05	0.32	0.22	0.72	0.05	-0.07	-0.16	-0.19	-0.23	-0.26	
21	0.14	0.29	0.04	0.20	0.34	0.46	0.04	-0.08	-0.17	-0.20	-0.24	-0.26	
22	0.12	0.20	0.03	0.20	0.12	0.30	0.04	-0.09	-0.17	-0.20	-0.24	-0.26	
23	0.10	0.20	0.02	0.20	0.12	0.20	0.03	-0.10	-0.17	-0.20	-0.24	-0.26	
24	0.15	0.20	0.01	0.16	0.05	0.14	0.03	-0.11	-0.17	-0.20	-0.24	-0.27	
25	0.19	0.20	-0.02	0.10	0.01	0.10	0.02	-0.12	-0.17	-0.20	-0.24	-0.27	
26	0.15	0.15	-0.02	0.10	0.01	0.10	0.02	-0.13	-0.18	-0.20	-0.25	-0.20	
27	0.15	0.20	-0.01	0.10	-0.13	0.38	0.01	-0.13	-0.18	-0.20	-0.25	-0.07	
28	0.15	0.18	0.02	0.10	-0.15	0.14	0.01	-0.14	-0.18	-0.20	-0.25	-0.06	
29	0.22	0.17	0.04	0.05	-0.08	0.05	0.01	-0.14	-0.18	-0.20		-0.08	
30	0.45	0.17	0.01	0.04	-0.02	0.12	0.01	-0.14	-0.18	-0.20		-0.10	
31		0.18		0.33	-0.02		0.01		-0.18	-0.20		-0.10	
Mean	0.07	0.22	0.11	0.15	0.16	0.33	0.07	-0.05	-0.16	-0.19	-0.22	-0.23	
Max	0.45	1.21	0.39	1.02	0.64	1.28	0.20	0.01	-0.14	-0.18	-0.20	-0.06	1.28
Min	-0.22	0.10	-0.02	0.04	-0.15	0.05	0.01	-0.14	-0.18	-0.20	-0.25	-0.27	-0.27

Annual Max Momentary Gage Height 2.48 m. (A.D.) , at 15.00 Hours , on May 10, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed -0.96 m. (A.D.)

Left Bank Elevation 4.07 m. (A.D.) ,

Right Bank Elevation 3.84 m. (A.D.) , Drainage Are 69 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.32	2.50	2.35	2.13	1.75	2.50	1.75	1.08	0.58	0.46	0.40	0.20		
2	0.32	2.50	2.13	1.75	8.00	2.50	1.68	1.08	0.58	0.46	0.40	0.20		
3	0.32	2.50	4.88	1.75	3.75	2.50	1.60	1.08	0.58	0.46	0.40	0.20		
4	0.32	2.50	2.50	1.75	1.68	2.50	1.60	1.08	0.58	0.46	0.40	0.20		
5	0.32	2.50	2.50	1.75	1.38	2.50	1.60	1.08	0.58	0.46	0.40	0.20		
6	0.32	2.50	1.75	1.75	2.35	5.00	1.60	1.08	0.55	0.46	0.36	0.20		
7	0.32	1.75	1.75	1.75	2.75	2.50	2.50	1.08	0.55	0.46	0.36	0.20		
8	1.68	1.75	1.75	1.75	2.43	2.50	1.75	1.08	0.55	0.46	0.36	0.20		
9	1.68	1.75	3.25	1.75	2.88	2.50	1.75	1.00	0.55	0.46	0.36	0.20		
10	1.68	17.70	2.50	1.75	3.00	2.50	1.75	1.00	0.55	0.46	0.36	0.20		
11	1.60	7.75	2.50	1.75	1.75	2.50	1.75	1.00	0.55	0.43	0.32	0.20		
12	1.60	2.50	2.50	1.75	3.63	2.50	1.75	1.00	0.55	0.43	0.32	0.20		
13	1.60	2.50	2.50	1.75	7.13	13.50	1.68	1.00	0.55	0.43	0.32	0.20		
14	1.75	2.50	2.50	1.75	5.13	4.13	1.68	0.97	0.55	0.43	0.32	0.20		
15	2.13	1.75	2.50	1.75	2.75	19.10	1.68	0.94	0.55	0.43	0.32	0.16		
16	2.35	1.75	2.05	1.75	2.50	5.00	1.60	0.91	0.52	0.43	0.28	0.16		
17	2.50	2.13	1.75	1.75	2.13	8.75	1.53	0.88	0.52	0.43	0.28	0.16		
18	2.50	2.13	1.60	1.75	2.28	6.75	1.45	0.85	0.52	0.43	0.28	0.16		
19	2.50	2.13	1.45	13.90	2.50	4.88	1.38	0.82	0.52	0.43	0.28	0.16		
20	2.43	2.13	1.38	4.00	2.75	9.00	1.38	0.79	0.52	0.43	0.28	0.16		
21	2.05	3.63	1.30	2.50	4.25	5.75	1.30	0.76	0.49	0.40	0.24	0.16		
22	1.90	2.50	1.23	2.50	1.90	3.75	1.30	0.73	0.49	0.40	0.24	0.16		
23	1.75	2.50	1.15	2.50	1.90	2.50	1.23	0.70	0.49	0.40	0.24	0.16		
24	2.13	2.50	1.08	2.20	1.38	2.05	1.23	0.67	0.49	0.40	0.24	0.12		
25	2.43	2.50	0.94	1.75	1.08	1.75	1.15	0.64	0.49	0.40	0.24	0.12		
26	2.13	2.13	0.94	1.75	1.08	1.75	1.15	0.61	0.46	0.40	0.20	0.40		
27	2.13	2.50	0.97	1.75	0.61	4.75	1.08	0.61	0.46	0.40	0.20	0.79		
28	2.13	2.35	1.15	1.75	0.55	2.05	1.08	0.58	0.46	0.40	0.20	0.82		
29	2.75	2.28	1.30	1.38	0.76	1.38	1.08	0.58	0.46	0.40		0.76		
30	5.63	2.28	1.08	1.30	0.94	1.90	1.08	0.58	0.46	0.40		0.70		
31		2.35		4.13	0.94		1.08		0.46	0.40		0.70		
Total	53.27	92.74	57.23	73.29	77.91	131.24	46.22	26.26	16.21	13.30	8.60	8.65	604.92	CMSDAY
Mean	1.78	2.99	1.91	2.36	2.51	4.37	1.49	0.88	0.52	0.43	0.31	0.28	1.66	CMS
Max	5.63	17.70	4.88	13.90	8.00	19.10	2.50	1.08	0.58	0.46	0.40	0.82	19.10	CMS
Min	0.32	1.75	0.94	1.30	0.55	1.38	1.08	0.58	0.46	0.40	0.20	0.12	0.12	CMS
Runoff	4.60	8.01	4.94	6.33	6.73	11.34	3.99	2.27	1.40	1.15	0.74	0.75	52.27	MCM

Momentary Peak 48.70 CMS. at 2.48 m. (A.D.) at 15.00 Hours , on May 10, 2008

Runoff Yield 23.94 Liters/Second/Square KM. Momentary Peak Yield 703.55 Liters/Second/Square KM.

WATER YEAR : 2008

PASAK RIVER BASIN

Pasak River at Ban Bo Rang , Phetchabun (S.42)

Lat 15 - 34 - 35 N Long 101 - 05 - 28 E

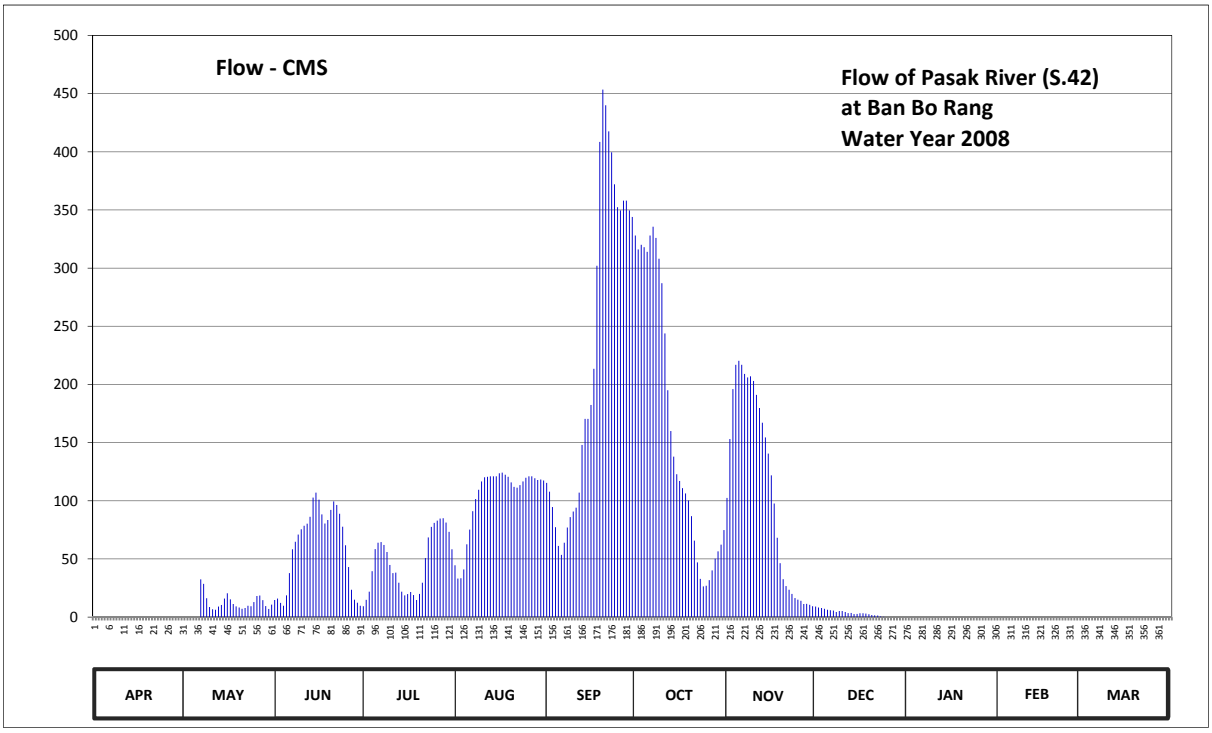
Location : on left bank at the bridge.

	Ban Bo Rang	**Amphoe** Wichian Buri	**Changwat** Phetchabun
Drainge 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 mean of 5 readings		
Period of Available Gage Records	2005 to date		
Rating Operation			
Period of Rating	2005 to date		
Rated by Float	-		
Rated by Current Meter	2005 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +62.900 m.(MSL.) and is including overbank flow.		
General Description	Records good. Stage-discharge relation defined by 7 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	52.22	52.01	56.31	55.93	58.03	60.66	62.99	60.28	55.91	54.30	53.12	52.24	
2	52.22	52.01	56.40	56.32	57.46	60.45	62.93	61.46	55.82	54.29	52.96	51.89	
3	52.23	52.02	56.15	56.79	57.47	60.02	62.95	62.06	55.78	54.28	52.60	51.90	
4	52.21	52.04	55.97	57.77	57.85	59.41	62.94	62.26	55.71	54.25	52.49	51.90	
5	52.23	52.08	56.58	58.66	58.82	58.77	62.92	62.29	55.63	54.23	52.49	51.91	
6	52.22	53.87	57.69	58.88	59.33	58.46	62.99	62.26	55.59	54.22	52.49	51.91	
7	52.22	57.42	58.65	58.90	59.90	58.88	63.02	62.19	55.55	54.19	52.49	51.91	
8	52.21	57.23	58.91	58.80	60.25	59.40	62.98	62.16	55.38	54.14	52.50	51.91	
9	52.17	56.41	59.16	58.56	60.50	59.73	62.89	62.17	55.49	54.12	52.63	51.91	
10	52.17	55.86	59.34	58.04	60.69	59.89	62.78	62.13	55.50	54.09	52.70	51.91	
11	52.17	55.67	59.46	57.69	60.78	60.00	62.48	62.01	55.38	54.07	52.73	51.91	
12	52.16	55.63	59.53	57.71	60.79	60.43	62.05	61.88	55.25	54.03	52.85	51.92	
13	52.16	55.91	59.74	57.28	60.80	61.36	61.60	61.71	55.28	53.95	52.79	51.92	
14	52.15	56.03	60.29	56.79	60.80	61.76	61.16	61.49	55.14	53.90	52.54	51.94	
15	52.15	56.40	60.43	56.58	60.80	61.76	60.84	61.21	55.17	53.86	52.53	51.94	
16	52.15	56.70	60.23	56.65	60.86	61.91	60.70	60.82	55.23	53.82	52.48	51.94	
17	52.15	56.35	59.81	56.77	60.87	62.23	60.54	60.12	55.24	53.76	52.48	51.95	
18	52.14	56.08	59.54	56.60	60.83	62.86	60.41	59.05	55.21	53.73	52.49	51.95	
19	52.07	55.92	59.65	56.31	60.79	63.25	60.21	58.12	55.13	53.72	52.34	51.95	
20	51.95	55.82	59.94	56.66	60.67	63.35	59.76	57.43	55.03	53.66	52.30	51.95	
21	51.95	55.72	60.18	57.28	60.57	63.32	58.95	57.11	54.99	53.60	52.43	52.00	
22	51.95	55.78	60.08	58.34	60.55	63.27	58.15	56.90	54.97	53.56	52.49	52.03	
23	51.95	55.97	59.83	59.06	60.61	63.23	57.44	56.66	54.82	53.53	52.45	52.06	
24	51.96	55.94	59.43	59.42	60.69	63.15	57.09	56.42	54.68	53.51	52.42	52.08	
25	51.95	56.19	58.79	59.56	60.77	63.08	57.13	56.33	54.59	53.48	52.40	52.10	
26	51.95	56.54	57.95	59.63	60.80	63.07	57.39	56.27	54.54	53.45	52.41	52.14	
27	51.94	56.57	56.90	59.69	60.80	63.10	57.81	56.08	54.49	53.44	52.35	52.16	
28	51.96	56.30	56.33	59.70	60.76	63.10	58.31	56.09	54.40	53.40	52.30	52.16	
29	52.00	55.95	56.16	59.57	60.72	63.07	58.58	56.04	54.36	53.38		52.18	
30	52.02	55.70	55.98	59.25	60.73	63.05	58.81	55.93	54.34	53.38		52.20	
31		56.05		58.65	60.71		59.31		54.33	53.36		52.20	
Mean	52.10	55.42	58.51	57.99	60.19	61.53	60.58	59.56	55.13	53.83	52.54	52.00	
Max	52.23	57.42	60.43	59.70	60.87	63.35	63.02	62.29	55.91	54.30	53.12	52.24	63.35
Min	51.94	52.01	55.97	55.93	57.46	58.46	57.09	55.93	54.33	53.36	52.30	51.89	51.89

Annual Max Momentary Gage Height	63.36	m. (MSL.) ,	at 07.00 Hours , on Sep 20, 2008		
Zero Gage at Bottom Elevation	51.80	m. (MSL.) ,	River Bed	52.46	m. (MSL.)
Left Bank Elevation	62.99	m. (MSL.) ,			
Right Bank Elevation	62.89	m. (MSL.) ,	Drainage Are	7,233	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	14.65	9.30	44.60	115.40	328.00	102.40	9.10	0.00	0.00	0.00		
2	0.00	0.00	16.00	14.80	33.20	107.75	316.00	153.00	8.20	0.00	0.00	0.00		
3	0.00	0.00	12.25	21.85	33.40	94.60	320.00	196.00	7.80	0.00	0.00	0.00		
4	0.00	0.00	9.70	39.40	41.00	77.25	318.00	216.90	7.10	0.00	0.00	0.00		
5	0.00	0.00	18.70	58.50	62.50	61.25	314.00	220.35	6.30	0.00	0.00	0.00		
6	0.00	0.00	37.80	64.00	75.25	53.50	328.00	216.90	5.93	0.00	0.00	0.00		
7	0.00	32.40	58.25	64.50	91.00	64.00	335.60	209.00	5.63	0.00	0.00	0.00		
8	0.00	28.60	64.75	62.00	101.50	77.00	326.00	206.00	4.35	0.00	0.00	0.00		
9	0.00	16.15	71.00	56.00	109.50	85.90	308.00	207.00	5.18	0.00	0.00	0.00		
10	0.00	8.60	75.50	44.80	116.60	90.70	287.00	203.00	5.25	0.00	0.00	0.00		
11	0.00	6.70	78.50	37.80	120.20	94.00	243.80	191.00	4.35	0.00	0.00	0.00		
12	0.00	6.30	80.25	38.20	120.60	107.05	195.00	179.80	3.38	0.00	0.00	0.00		
13	0.00	9.10	86.20	29.60	121.00	148.00	160.00	167.15	3.60	0.00	0.00	0.00		
14	0.00	10.45	102.70	21.85	121.00	170.40	138.00	154.50	2.55	0.00	0.00	0.00		
15	0.00	16.00	107.05	18.70	121.00	170.40	122.80	140.50	2.78	0.00	0.00	0.00		
16	0.00	20.50	100.90	19.75	123.70	182.35	117.00	121.90	3.23	0.00	0.00	0.00		
17	0.00	15.25	88.30	21.55	124.15	213.45	110.90	97.60	3.30	0.00	0.00	0.00		
18	0.00	11.20	80.50	19.00	122.35	302.00	106.35	68.25	3.08	0.00	0.00	0.00		
19	0.00	9.20	83.50	14.65	120.60	408.50	100.30	46.40	2.48	0.00	0.00	0.00		
20	0.00	8.20	92.20	19.90	115.80	453.50	86.80	32.60	1.73	0.00	0.00	0.00		
21	0.00	7.20	99.40	29.60	111.95	440.00	65.75	26.65	1.45	0.00	0.00	0.00		
22	0.00	7.80	96.40	50.80	111.25	417.50	47.00	23.50	1.35	0.00	0.00	0.00		
23	0.00	9.70	88.90	68.50	113.40	399.50	32.80	19.90	0.60	0.00	0.00	0.00		
24	0.00	9.40	77.75	77.50	116.60	372.00	26.35	16.30	0.20	0.00	0.00	0.00		
25	0.00	12.85	61.75	81.00	119.80	352.40	26.95	14.95	0.00	0.00	0.00	0.00		
26	0.00	18.10	43.00	82.90	121.00	349.60	31.80	14.05	0.00	0.00	0.00	0.00		
27	0.00	18.55	23.50	84.70	121.00	358.00	40.20	11.20	0.00	0.00	0.00	0.00		
28	0.00	14.50	14.95	85.00	119.40	358.00	50.20	11.35	0.00	0.00	0.00	0.00		
29	0.00	9.50	12.40	81.25	117.80	349.60	56.50	10.60	0.00	0.00		0.00		
30	0.00	7.00	9.80	73.25	118.20	344.00	62.25	9.30	0.00	0.00		0.00		
31		10.75		58.25	117.40		74.75		0.00	0.00		0.00		
Total	0.00	324.00	1806.55	1448.90	3206.75	6817.60	5076.10	3288.05	98.92	0.00	0.00	0.00	22066.87	CMSDAY
Mean	0.00	10.45	60.22	46.74	103.44	227.25	163.75	109.60	3.19	0.00	0.00	0.00	60.46	CMS
Max	0.00	32.40	107.05	85.00	124.15	453.50	335.60	220.35	9.10	0.00	0.00	0.00	453.50	CMS
Min	0.00	0.00	9.70	9.30	33.20	53.50	26.35	9.30	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	27.99	156.09	125.18	277.06	589.04	438.58	284.09	8.55	0.00	0.00	0.00	1906.58	MCM

Momentary Peak 458.00 CMS. at 63.36 m. (MSL.) at 07.00 Hours , on Sep 20, 2008

Runoff Yield 8.36 Liters/Second/Square KM. Momentary Peak Yield 63.32 Liters/Second/Square KM.

WATER YEAR : 2008

THA CHIN BASIN

Upper Huai Kra Sieo at Ban Pha Thang, Uthai Thani (T.11)

Lat 15 - 06 - 19 N Long 99 - 32 - 09 E

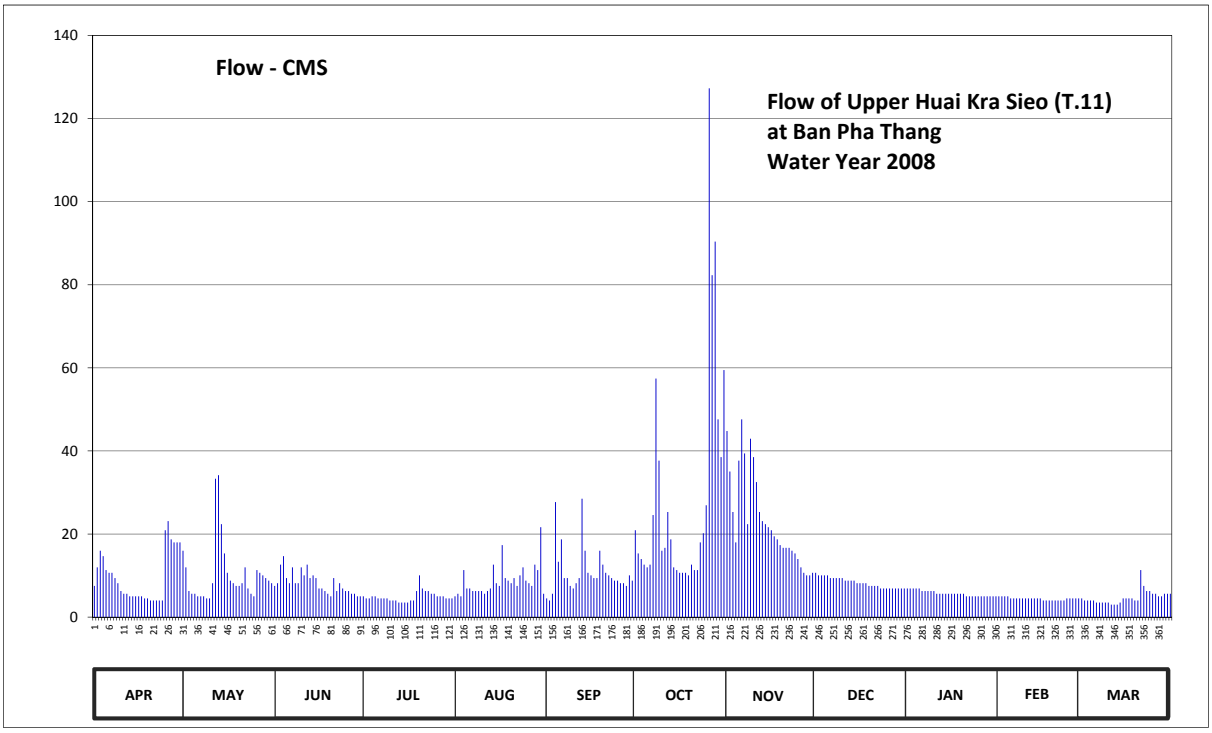
Location : on left bank at Ban Pha Thang.

	Ban	Pha Thang	**Amphoe** Ban Rai	**Changwat**	Uthai Thani
Drainge Area	-	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 bridge.			**Elevation**	+8.220 m. (A.D.)
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 Float	-				
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 2 discharge measurements made in 2008.				

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.84	2.97	2.84	2.80	2.80	2.79	3.04	3.33	2.89	2.83	2.80	2.79	
2	2.91	2.91	2.85	2.79	2.81	2.78	2.96	3.22	2.88	2.83	2.80	2.78	
3	2.97	2.82	2.92	2.79	2.80	2.81	2.94	3.10	2.88	2.83	2.80	2.78	
4	2.95	2.81	2.95	2.80	2.90	3.13	2.92	3.00	2.88	2.83	2.80	2.78	
5	2.90	2.81	2.87	2.80	2.83	2.93	2.91	3.25	2.88	2.83	2.79	2.78	
6	2.89	2.80	2.85	2.79	2.83	3.01	2.92	3.36	2.87	2.82	2.79	2.77	
7	2.89	2.80	2.91	2.79	2.82	2.87	3.09	3.27	2.87	2.82	2.79	2.77	
8	2.87	2.80	2.85	2.79	2.82	2.87	3.46	3.06	2.87	2.82	2.79	2.77	
9	2.85	2.79	2.85	2.79	2.82	2.84	3.25	3.31	2.87	2.82	2.79	2.77	
10	2.82	2.79	2.91	2.78	2.82	2.83	2.97	3.26	2.87	2.82	2.79	2.77	
11	2.81	2.85	2.88	2.78	2.81	2.85	2.98	3.19	2.86	2.81	2.79	2.76	
12	2.81	3.20	2.92	2.78	2.82	2.87	3.10	3.10	2.86	2.81	2.79	2.76	
13	2.80	3.21	2.87	2.77	2.83	3.14	3.01	3.07	2.86	2.81	2.79	2.76	
14	2.80	3.06	2.88	2.77	2.92	2.97	2.91	3.06	2.86	2.81	2.79	2.77	
15	2.80	2.96	2.87	2.77	2.85	2.89	2.90	3.05	2.85	2.81	2.79	2.79	
16	2.80	2.89	2.83	2.77	2.84	2.88	2.89	3.04	2.85	2.81	2.78	2.79	
17	2.80	2.86	2.83	2.78	2.99	2.87	2.89	3.02	2.85	2.81	2.78	2.79	
18	2.79	2.85	2.82	2.78	2.87	2.87	2.89	3.01	2.85	2.81	2.78	2.79	
19	2.79	2.84	2.81	2.82	2.86	2.97	2.88	2.99	2.84	2.81	2.78	2.78	
20	2.78	2.84	2.80	2.88	2.85	2.92	2.92	2.98	2.84	2.81	2.78	2.78	
21	2.78	2.85	2.87	2.83	2.87	2.89	2.90	2.98	2.84	2.80	2.78	2.90	
22	2.78	2.91	2.82	2.82	2.84	2.88	2.90	2.98	2.84	2.80	2.78	2.84	
23	2.78	2.83	2.85	2.82	2.88	2.87	3.00	2.97	2.83	2.80	2.78	2.82	
24	2.78	2.81	2.83	2.81	2.91	2.86	3.03	2.96	2.83	2.80	2.79	2.82	
25	3.04	2.80	2.82	2.81	2.86	2.86	3.12	2.94	2.83	2.80	2.79	2.81	
26	3.07	2.90	2.82	2.80	2.85	2.85	4.06	2.91	2.83	2.80	2.79	2.81	
27	3.01	2.89	2.81	2.80	2.84	2.85	3.69	2.89	2.83	2.80	2.79	2.80	
28	3.00	2.88	2.81	2.80	2.92	2.84	3.76	2.88	2.83	2.80	2.79	2.80	
29	3.00	2.87	2.80	2.79	2.90	2.88	3.36	2.88	2.83	2.80		2.81	
30	3.00	2.86	2.80	2.79	3.05	2.86	3.26	2.89	2.83	2.80		2.81	
31		2.85		2.79	2.81		3.48		2.83	2.80		2.81	
Mean	2.87	2.88	2.85	2.80	2.86	2.89	3.11	3.06	2.85	2.81	2.79	2.79	
Max	3.07	3.21	2.95	2.88	3.05	3.14	4.06	3.36	2.89	2.83	2.80	2.90	4.06
Min	2.78	2.79	2.80	2.77	2.80	2.78	2.88	2.88	2.83	2.80	2.78	2.76	2.76

Annual Max Momentary Gage Height	4.29	m. (A.D.) ,	at 12.00 Hours , on Oct 26, 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	1.55	m. (A.D.)
Left Bank Elevation	8.17	m. (A.D.) ,			
Right Bank Elevation	8.18	m. (A.D.) ,	Drainage Are	-	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.52	15.99	7.52	5.00	5.00	4.50	20.92	44.79	10.67	6.89	5.00	4.50		
2	11.97	11.97	8.15	4.50	5.63	4.00	15.32	35.04	10.04	6.89	5.00	4.00		
3	15.99	6.26	12.64	4.50	5.00	5.63	13.98	25.30	10.04	6.89	5.00	4.00		
4	14.65	5.63	14.65	5.00	11.30	27.70	12.64	18.00	10.04	6.89	5.00	4.00		
5	11.30	5.63	9.41	5.00	6.89	13.31	11.97	37.65	10.04	6.89	4.50	4.00		
6	10.67	5.00	8.15	4.50	6.89	18.73	12.64	47.58	9.41	6.26	4.50	3.50		
7	10.67	5.00	11.97	4.50	6.26	9.41	24.57	39.39	9.41	6.26	4.50	3.50		
8	9.41	5.00	8.15	4.50	6.26	9.41	57.42	22.38	9.41	6.26	4.50	3.50		
9	8.15	4.50	8.15	4.50	6.26	7.52	37.65	42.93	9.41	6.26	4.50	3.50		
10	6.26	4.50	11.97	4.00	6.26	6.89	15.99	38.52	9.41	6.26	4.50	3.50		
11	5.63	8.15	10.04	4.00	5.63	8.15	16.66	32.50	8.78	5.63	4.50	3.00		
12	5.63	33.30	12.64	4.00	6.26	9.41	25.30	25.30	8.78	5.63	4.50	3.00		
13	5.00	34.17	9.41	3.50	6.89	28.50	18.73	23.11	8.78	5.63	4.50	3.00		
14	5.00	22.38	10.04	3.50	12.64	15.99	11.97	22.38	8.78	5.63	4.50	3.50		
15	5.00	15.32	9.41	3.50	8.15	10.67	11.30	21.65	8.15	5.63	4.50	4.50		
16	5.00	10.67	6.89	3.50	7.52	10.04	10.67	20.92	8.15	5.63	4.00	4.50		
17	5.00	8.78	6.89	4.00	17.33	9.41	10.67	19.46	8.15	5.63	4.00	4.50		
18	4.50	8.15	6.26	4.00	9.41	9.41	10.67	18.73	8.15	5.63	4.00	4.50		
19	4.50	7.52	5.63	6.26	8.78	15.99	10.04	17.33	7.52	5.63	4.00	4.00		
20	4.00	7.52	5.00	10.04	8.15	12.64	12.64	16.66	7.52	5.63	4.00	4.00		
21	4.00	8.15	9.41	6.89	9.41	10.67	11.30	16.66	7.52	5.00	4.00	11.30		
22	4.00	11.97	6.26	6.26	7.52	10.04	11.30	16.66	7.52	5.00	4.00	7.52		
23	4.00	6.89	8.15	6.26	10.04	9.41	18.00	15.99	6.89	5.00	4.00	6.26		
24	4.00	5.63	6.89	5.63	11.97	8.78	20.19	15.32	6.89	5.00	4.50	6.26		
25	20.92	5.00	6.26	5.63	8.78	8.78	26.90	13.98	6.89	5.00	4.50	5.63		
26	23.11	11.30	6.26	5.00	8.15	8.15	127.26	11.97	6.89	5.00	4.50	5.63		
27	18.73	10.67	5.63	5.00	7.52	8.15	82.28	10.67	6.89	5.00	4.50	5.00		
28	18.00	10.04	5.63	5.00	12.64	7.52	90.36	10.04	6.89	5.00	4.50	5.00		
29	18.00	9.41	5.00	4.50	11.30	10.04	47.58	10.04	6.89	5.00		5.63		
30	18.00	8.78	5.00	4.50	21.65	8.78	38.52	10.67	6.89	5.00		5.63		
31		8.15		4.50	5.63		59.46		6.89	5.00		5.63		
Total	288.61	321.43	247.46	151.47	271.12	327.63	894.90	701.62	257.69	177.05	124.00	145.99	3908.97	CMSDAY
Mean	9.62	10.37	8.25	4.89	8.75	10.92	28.87	23.39	8.31	5.71	4.43	4.71	10.71	CMS
Max	23.11	34.17	14.65	10.04	21.65	28.50	127.26	47.58	10.67	6.89	5.00	11.30	127.26	CMS
Min	4.00	4.50	5.00	3.50	5.00	4.00	10.04	10.04	6.89	5.00	4.00	3.00	3.00	CMS
Runoff	24.94	27.77	21.38	13.09	23.42	28.31	77.32	60.62	22.26	15.30	10.71	12.61	337.74	MCM

Momentary Peak 157.66 CMS. at 4.29 m. (A.D.) at 12.00 Hours , on Oct 26, 2008

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

WATER YEAR : 2008

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

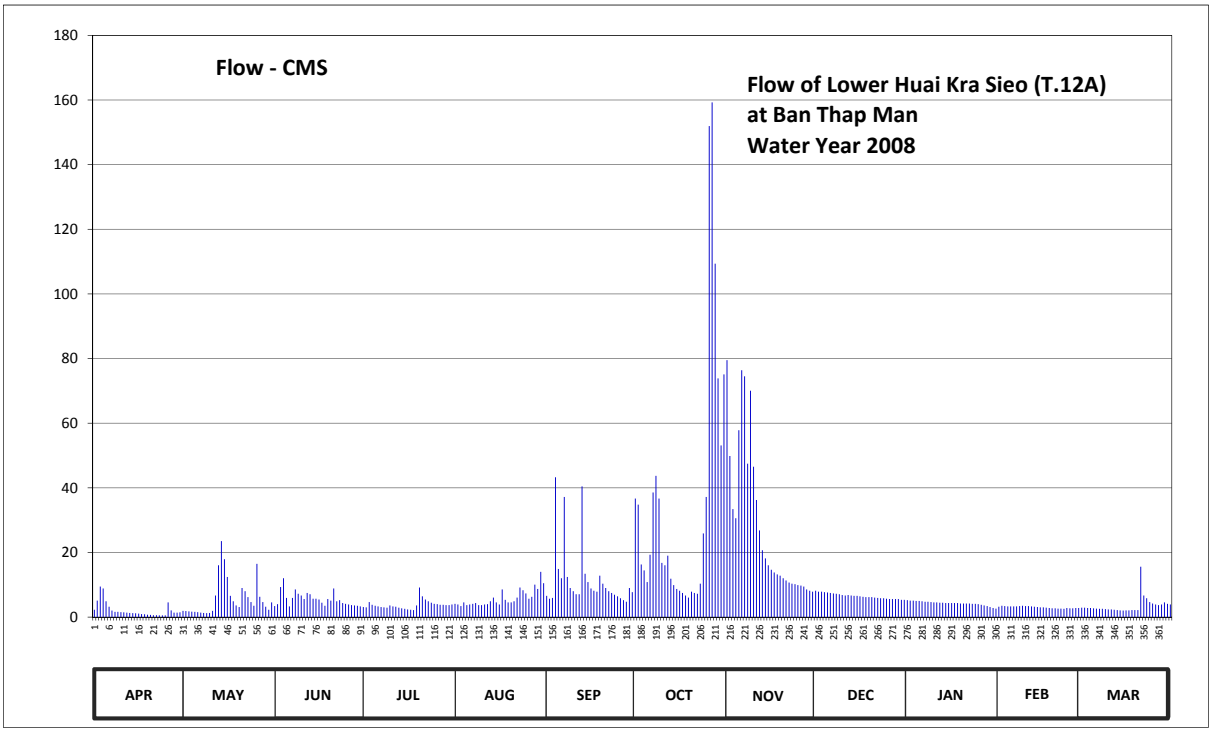
Location : on left bank at Ban Thap Man.

	Ban	Thap Man	**Amphoe**	Dan Chang	**Changwat**	Suphan Buri
Drainge Area	686	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 bridge				**Elevation**	+4.503 m. (A.D.)
Gage Reading Frequency	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 Float	-					
Rated by Current Meter	2004 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow					
General Description	Records good. Stage-discharge relation defined by 21 discharge measurements made in 2008.					

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	-0.78	-0.82	-0.66	-0.69	-0.59	-0.38	0.67	1.51	-0.26	-0.49	-0.68	-0.71	
2	-0.50	-0.83	-0.60	-0.70	-0.61	-0.45	0.63	0.95	-0.28	-0.50	-0.65	-0.71	
3	-0.17	-0.84	-0.18	-0.54	-0.66	-0.43	0.19	0.60	-0.28	-0.50	-0.66	-0.72	
4	-0.21	-0.85	-0.01	-0.62	-0.55	0.81	0.11	0.54	-0.29	-0.51	-0.67	-0.72	
5	-0.52	-0.86	-0.43	-0.65	-0.63	0.13	-0.08	1.12	-0.30	-0.51	-0.67	-0.73	
6	-0.68	-0.87	-0.67	-0.67	-0.61	-0.01	0.30	1.46	-0.31	-0.52	-0.67	-0.74	
7	-0.81	-0.89	-0.43	-0.69	-0.59	0.68	0.71	1.43	-0.32	-0.53	-0.67	-0.75	
8	-0.86	-0.90	-0.23	-0.70	-0.57	0.01	0.82	0.90	-0.33	-0.53	-0.66	-0.75	
9	-0.86	-0.91	-0.33	-0.71	-0.63	-0.20	0.67	1.36	-0.34	-0.54	-0.65	-0.76	
10	-0.87	-0.90	-0.37	-0.64	-0.63	-0.27	0.21	0.88	-0.36	-0.55	-0.66	-0.77	
11	-0.88	-0.82	-0.46	-0.67	-0.61	-0.34	0.18	0.66	-0.37	-0.55	-0.66	-0.77	
12	-0.89	-0.37	-0.31	-0.68	-0.60	-0.34	0.29	0.46	-0.36	-0.56	-0.67	-0.78	
13	-0.90	0.18	-0.34	-0.71	-0.52	0.75	-0.02	0.33	-0.37	-0.56	-0.68	-0.79	
14	-0.91	0.39	-0.45	-0.73	-0.42	0.06	-0.14	0.26	-0.38	-0.57	-0.69	-0.80	
15	-0.92	0.25	-0.45	-0.75	-0.55	-0.08	-0.22	0.18	-0.38	-0.57	-0.70	-0.81	
16	-0.93	0.01	-0.47	-0.77	-0.61	-0.21	-0.26	0.12	-0.39	-0.57	-0.70	-0.80	
17	-0.95	-0.38	-0.56	-0.78	-0.23	-0.26	-0.31	0.08	-0.40	-0.57	-0.71	-0.80	
18	-0.96	-0.52	-0.65	-0.79	-0.48	-0.28	-0.37	0.05	-0.41	-0.57	-0.72	-0.79	
19	-0.98	-0.64	-0.46	-0.64	-0.55	0.03	-0.42	0.03	-0.41	-0.58	-0.73	-0.79	
20	-0.99	-0.69	-0.50	-0.19	-0.55	-0.11	-0.28	-0.01	-0.41	-0.58	-0.73	-0.79	
21	-1.00	-0.20	-0.21	-0.39	-0.52	-0.20	-0.31	-0.05	-0.42	-0.58	-0.74	0.16	
22	-1.00	-0.27	-0.52	-0.47	-0.42	-0.27	-0.33	-0.09	-0.43	-0.58	-0.74	-0.37	
23	-1.01	-0.41	-0.49	-0.52	-0.19	-0.31	-0.11	-0.11	-0.44	-0.59	-0.75	-0.44	
24	-1.01	-0.54	-0.57	-0.56	-0.25	-0.35	0.44	-0.12	-0.44	-0.59	-0.72	-0.54	
25	-1.01	-0.65	-0.59	-0.59	-0.32	-0.39	0.68	-0.14	-0.45	-0.60	-0.73	-0.58	
26	-0.55	0.20	-0.61	-0.60	-0.45	-0.44	2.59	-0.15	-0.46	-0.62	-0.73	-0.61	
27	-0.80	-0.40	-0.63	-0.62	-0.40	-0.49	2.69	-0.17	-0.46	-0.64	-0.72	-0.63	
28	-0.89	-0.54	-0.64	-0.62	-0.13	-0.53	1.97	-0.23	-0.46	-0.66	-0.72	-0.61	
29	-0.89	-0.68	-0.65	-0.63	-0.22	-0.20	1.42	-0.26	-0.46	-0.69		-0.55	
30	-0.88	-0.78	-0.67	-0.63	0.09	-0.29	1.02	-0.28	-0.48	-0.72		-0.59	
31		-0.55		-0.61	-0.10		1.44		-0.48	-0.74		-0.61	
Mean	-0.82	-0.52	-0.47	-0.63	-0.45	-0.15	0.46	0.38	-0.38	-0.58	-0.70	-0.67	
Max	-0.17	0.39	-0.01	-0.19	0.09	0.81	2.69	1.51	-0.26	-0.49	-0.65	0.16	2.69
Min	-1.01	-0.91	-0.67	-0.79	-0.66	-0.53	-0.42	-0.28	-0.48	-0.74	-0.75	-0.81	-1.01

Annual Max Momentary Gage Height	2.90	m. (A.D.) ,	at 06.00 Hours , on Oct 27, 2008			
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	-1.13	m. (A.D.)	
Left Bank Elevation	4.17	m. (A.D.) ,				
Right Bank Elevation	4.20	m. (A.D.) ,	Drainage Are	686	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.28	1.94	3.40	3.10	4.11	6.56	36.69	79.53	8.16	5.22	3.20	2.91		
2	5.10	1.86	4.00	3.00	3.90	5.70	34.81	49.85	7.88	5.10	3.50	2.91		
3	9.45	1.78	9.30	4.66	3.40	5.94	16.27	33.40	7.88	5.10	3.40	2.82		
4	8.86	1.70	12.03	3.80	4.55	43.27	14.43	30.58	7.74	4.99	3.30	2.82		
5	4.88	1.62	5.94	3.50	3.70	14.89	10.84	57.84	7.60	4.99	3.30	2.73		
6	3.20	1.54	3.30	3.30	3.90	12.03	19.30	76.38	7.47	4.88	3.30	2.64		
7	2.02	1.38	5.94	3.10	4.11	37.16	38.57	74.49	7.34	4.77	3.30	2.55		
8	1.62	1.30	8.58	3.00	4.33	12.40	43.74	47.50	7.21	4.77	3.40	2.55		
9	1.62	1.23	7.21	2.91	3.70	9.00	36.69	70.08	7.08	4.66	3.50	2.46		
10	1.54	1.30	6.69	3.60	3.70	8.02	16.78	46.56	6.82	4.55	3.40	2.37		
11	1.46	1.94	5.58	3.30	3.90	7.08	16.04	36.22	6.69	4.55	3.40	2.37		
12	1.38	6.69	7.47	3.20	4.00	7.08	19.02	26.82	6.82	4.44	3.30	2.28		
13	1.30	16.04	7.08	2.91	4.88	40.45	11.86	20.71	6.69	4.44	3.20	2.19		
14	1.23	23.53	5.70	2.73	6.06	13.40	9.90	18.18	6.56	4.33	3.10	2.10		
15	1.16	17.90	5.70	2.55	4.55	10.84	8.72	16.04	6.56	4.33	3.00	2.02		
16	1.09	12.40	5.46	2.37	3.90	8.86	8.16	14.66	6.43	4.33	3.00	2.10		
17	0.95	6.56	4.44	2.28	8.58	8.16	7.47	13.80	6.30	4.33	2.91	2.10		
18	0.88	4.88	3.50	2.19	5.34	7.88	6.69	13.20	6.18	4.33	2.82	2.19		
19	0.74	3.60	5.58	3.60	4.55	12.80	6.06	12.80	6.18	4.22	2.73	2.19		
20	0.67	3.10	5.10	9.15	4.55	10.35	7.88	12.03	6.18	4.22	2.73	2.19		
21	0.60	9.00	8.86	6.43	4.88	9.00	7.47	11.35	6.06	4.22	2.64	15.58		
22	0.60	8.02	4.88	5.46	6.06	8.02	7.21	10.67	5.94	4.22	2.64	6.69		
23	0.54	6.18	5.22	4.88	9.15	7.47	10.35	10.35	5.82	4.11	2.55	5.82		
24	0.54	4.66	4.33	4.44	8.30	6.95	25.88	10.20	5.82	4.11	2.82	4.66		
25	0.54	3.50	4.11	4.11	7.34	6.43	37.16	9.90	5.70	4.00	2.73	4.22		
26	4.55	16.50	3.90	4.00	5.70	5.82	151.97	9.75	5.58	3.80	2.73	3.90		
27	2.10	6.30	3.70	3.80	6.30	5.22	159.27	9.45	5.58	3.60	2.82	3.70		
28	1.38	4.66	3.60	3.80	10.05	4.77	109.36	8.58	5.58	3.40	2.82	3.90		
29	1.38	3.20	3.50	3.70	8.72	9.00	73.86	8.16	5.58	3.10		4.55		
30	1.46	2.28	3.30	3.70	14.00	7.74	53.14	7.88	5.34	2.82		4.11		
31		4.55		3.90	10.50		75.12		5.34	2.64		3.90		
Total	65.12	181.14	167.40	116.47	180.71	352.29	1080.71	846.96	202.11	132.57	85.54	109.52	3520.54	CMSDAY
Mean	2.17	5.84	5.58	3.76	5.83	11.74	34.86	28.23	6.52	4.28	3.05	3.53	9.65	CMS
Max	9.45	23.53	12.03	9.15	14.00	43.27	159.27	79.53	8.16	5.22	3.50	15.58	159.27	CMS
Min	0.54	1.23	3.30	2.19	3.40	4.77	6.06	7.88	5.34	2.64	2.55	2.02	0.54	CMS
Runoff	5.63	15.65	14.46	10.06	15.61	30.44	93.37	73.18	17.46	11.45	7.39	9.46	304.17	MCM

Momentary Peak 175.60 CMS. at 2.90 m. (A.D.) at 06.00 Hours , on Oct 27, 2008

Runoff Yield 14.05 Liters/Second/Square KM. Momentary Peak Yield 255.79 Liters/Second/Square KM.

WATER YEAR : 2008

MAE KLONG RIVER BASIN

Khwae 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

Drainge 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 Float	-
Rated by Current Meter	1965 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 27 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

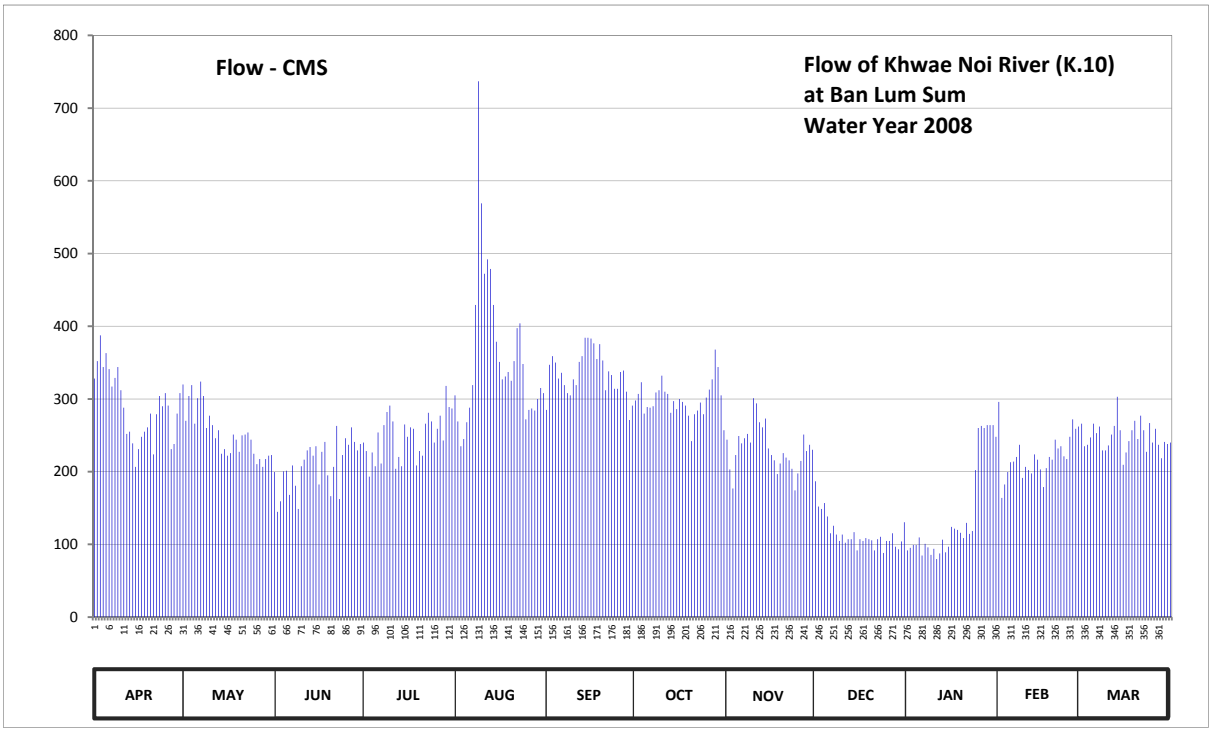
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.77	34.69	33.45	33.89	34.54	34.34	34.47	33.93	33.31	32.14	34.45	34.15	
2	35.01	34.19	32.81	33.77	34.18	34.96	34.56	33.49	32.90	32.19	33.05	33.84	
3	35.35	34.53	32.99	33.38	33.84	35.08	34.72	33.20	32.86	32.24	33.26	33.86	
4	34.93	34.68	33.46	33.75	33.94	34.99	34.29	33.71	32.96	32.24	33.45	33.96	
5	35.12	34.15	33.47	33.54	34.17	34.77	34.38	33.98	32.73	32.37	33.60	34.15	
6	34.90	34.50	33.10	34.03	34.37	34.85	34.37	33.88	32.44	32.04	33.61	34.02	
7	34.66	34.73	33.55	33.58	34.68	34.68	34.39	33.95	32.57	32.26	33.68	34.11	
8	34.78	34.53	33.24	34.13	35.73	34.57	34.58	34.01	32.42	32.20	33.86	33.78	
9	34.93	34.09	32.86	34.31	38.40	34.54	34.61	33.89	32.31	32.05	33.36	33.78	
10	34.61	34.26	33.54	34.40	37.00	34.76	34.81	34.50	32.42	32.17	33.53	33.85	
11	34.37	34.13	33.64	34.18	36.12	34.68	34.59	34.43	32.28	31.97	33.48	34.00	
12	34.01	33.95	33.78	33.50	36.30	35.00	34.56	34.17	32.34	32.08	33.43	34.12	
13	34.04	34.06	33.83	33.68	36.18	35.08	34.30	34.10	32.34	32.33	33.72	34.52	
14	33.88	33.73	33.70	33.54	35.73	35.32	34.46	34.22	32.46	32.10	33.64	34.06	
15	33.53	33.80	33.84	34.14	35.27	35.32	34.35	33.81	32.14	32.21	33.49	33.56	
16	33.80	33.70	33.26	33.97	35.00	35.31	34.49	33.71	32.34	32.55	33.22	33.75	
17	33.97	33.74	33.76	34.10	34.76	35.25	34.45	33.63	32.31	32.52	33.51	33.91	
18	34.04	34.00	33.90	34.08	34.80	35.04	34.40	33.42	32.36	32.50	33.68	34.06	
19	34.10	33.93	33.40	33.55	34.86	35.24	34.26	33.58	32.34	32.45	33.64	34.19	
20	34.29	33.76	33.08	33.77	34.74	35.02	33.91	33.74	32.32	32.36	33.93	33.94	
21	33.72	33.99	33.53	33.70	35.01	34.61	34.28	33.67	32.14	32.62	33.81	34.26	
22	34.28	34.00	34.12	34.15	35.44	34.87	34.33	33.63	32.34	32.43	33.84	34.06	
23	34.53	34.03	33.03	34.30	35.50	34.82	34.44	33.50	32.38	32.48	33.69	33.76	
24	34.39	33.93	33.71	34.18	34.97	34.63	34.28	33.17	32.09	33.48	33.65	34.16	
25	34.57	33.73	33.95	33.89	34.21	34.63	34.51	33.43	32.31	34.09	33.97	33.89	
26	34.40	33.57	33.86	34.08	34.34	34.86	34.62	33.62	32.31	34.12	34.21	34.08	
27	33.80	33.65	34.10	34.26	34.36	34.88	34.76	34.00	32.44	34.09	34.08	33.86	
28	33.87	33.53	33.90	33.92	34.33	34.59	35.17	33.77	32.21	34.13	34.11	33.66	
29	34.29	33.65	33.78	34.67	34.49	34.20	34.93	33.86	32.16	34.13		33.90	
30	34.57	33.70	33.87	34.38	34.64	34.40	34.54	33.79	32.30	34.13		33.87	
31		33.71		34.36	34.57		34.06		32.63	33.97		33.89	
Mean	34.38	34.02	33.55	33.97	35.05	34.84	34.48	33.79	32.43	32.73	33.68	33.97	
Max	35.35	34.73	34.12	34.67	38.40	35.32	35.17	34.50	33.31	34.13	34.45	34.52	38.40
Min	33.53	33.53	32.81	33.38	33.84	34.20	33.91	33.17	32.09	31.97	33.05	33.56	31.97

Annual Max Momentary Gage Height 38.67 m. (MSL.) , at 11.00 Hours , on Aug 9, 2008

Zero Gage at Bottom Elevation 30.40 m. (MSL.) , River Bed 30.19 m. (MSL)

Left Bank Elevation 50.87 m. (MSL.) ,

Right Bank Elevation 47.25 m. (MSL.) , Drainage Are 7,008 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	328.00	320.00	199.50	240.00	305.00	285.00	298.00	244.00	186.90	91.80	296.00	266.00		
2	352.00	270.00	144.80	228.30	269.00	347.00	307.00	203.10	152.00	95.30	164.00	235.00		
3	387.50	304.00	159.20	193.20	235.00	359.00	323.00	177.00	148.80	99.20	182.40	237.00		
4	344.00	319.00	200.40	226.50	245.00	350.00	280.00	222.90	156.80	99.20	199.50	247.00		
5	363.00	266.00	201.30	207.60	268.00	328.00	289.00	249.00	138.40	109.60	213.00	266.00		
6	341.00	301.00	168.00	254.00	288.00	336.00	288.00	239.00	115.20	84.80	213.90	253.00		
7	317.00	324.00	208.50	211.20	319.00	319.00	290.00	246.00	125.60	100.80	220.20	262.00		
8	329.00	304.00	180.60	264.00	429.30	308.00	309.00	252.00	113.60	96.00	237.00	229.20		
9	344.00	260.00	148.80	282.00	737.00	305.00	312.00	240.00	104.80	85.50	191.40	229.20		
10	312.00	277.00	207.60	291.00	569.00	327.00	332.00	301.00	113.60	93.90	206.70	236.00		
11	288.00	264.00	216.60	269.00	472.20	319.00	310.00	294.00	102.40	79.90	202.20	251.00		
12	252.00	246.00	229.20	204.00	492.00	351.00	307.00	268.00	107.20	87.60	197.70	263.00		
13	255.00	257.00	234.00	220.20	478.80	359.00	281.00	261.00	107.20	106.40	223.80	303.00		
14	239.00	224.70	222.00	207.60	429.30	384.20	297.00	273.00	116.80	89.00	216.60	257.00		
15	206.70	231.00	235.00	265.00	378.70	384.20	286.00	232.00	91.80	96.80	203.10	209.40		
16	231.00	222.00	182.40	248.00	351.00	383.10	300.00	222.90	107.20	124.00	178.80	226.50		
17	248.00	225.60	227.40	261.00	327.00	376.50	296.00	215.70	104.80	121.60	204.90	242.00		
18	255.00	251.00	241.00	259.00	331.00	355.00	291.00	196.80	108.80	120.00	220.20	257.00		
19	261.00	244.00	195.00	208.50	337.00	375.40	277.00	211.20	107.20	116.00	216.60	270.00		
20	280.00	227.40	166.40	228.30	325.00	353.00	242.00	225.60	105.60	108.80	244.00	245.00		
21	223.80	250.00	206.70	222.00	352.00	312.00	279.00	219.30	91.80	129.60	232.00	277.00		
22	279.00	251.00	263.00	266.00	397.40	338.00	284.00	215.70	107.20	114.40	235.00	257.00		
23	304.00	254.00	162.40	281.00	404.00	333.00	295.00	204.00	110.40	118.40	221.10	227.40		
24	290.00	244.00	222.90	269.00	348.00	314.00	279.00	174.30	88.30	202.20	217.50	267.00		
25	308.00	224.70	246.00	240.00	272.00	314.00	302.00	197.70	104.80	260.00	248.00	240.00		
26	291.00	210.30	237.00	259.00	285.00	337.00	313.00	214.80	104.80	263.00	272.00	259.00		
27	231.00	217.50	261.00	277.00	287.00	339.00	327.00	251.00	115.20	260.00	259.00	237.00		
28	238.00	206.70	241.00	243.00	284.00	310.00	368.00	228.30	96.80	264.00	262.00	218.40		
29	280.00	217.50	229.20	318.00	300.00	271.00	344.00	237.00	93.20	264.00		241.00		
30	308.00	222.00	238.00	289.00	315.00	291.00	305.00	230.10	104.00	264.00		238.00		
31		222.90		287.00	308.00		257.00		130.40	248.00		240.00		
Total	8686.00	7858.30	6274.90	7719.40	11138.70	10063.40	9268.00	6946.40	3561.60	4393.80	6178.60	7686.10	89775.20	CMSDAY
Mean	289.53	253.49	209.16	249.01	359.31	335.45	298.97	231.55	114.89	141.74	220.66	247.94	245.96	CMS
Max	387.50	324.00	263.00	318.00	737.00	384.20	368.00	301.00	186.90	264.00	296.00	303.00	737.00	CMS
Min	206.70	206.70	144.80	193.20	235.00	271.00	242.00	174.30	88.30	79.90	164.00	209.40	79.90	CMS
Runoff	750.47	678.96	542.15	666.96	962.38	869.48	800.76	600.17	307.72	379.62	533.83	664.08	7756.58	MCM

Momentary Peak 769.40 CMS. at 38.67 m. (MSL.) at 11.00 Hours , on Aug 9, 2008

Runoff Yield 35.10 Liters/Second/Square KM. Momentary Peak Yield 109.79 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	26,449 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+9.813 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On left bank near the gage site.		**Elevation** +24.879 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 Float	-		
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 15 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

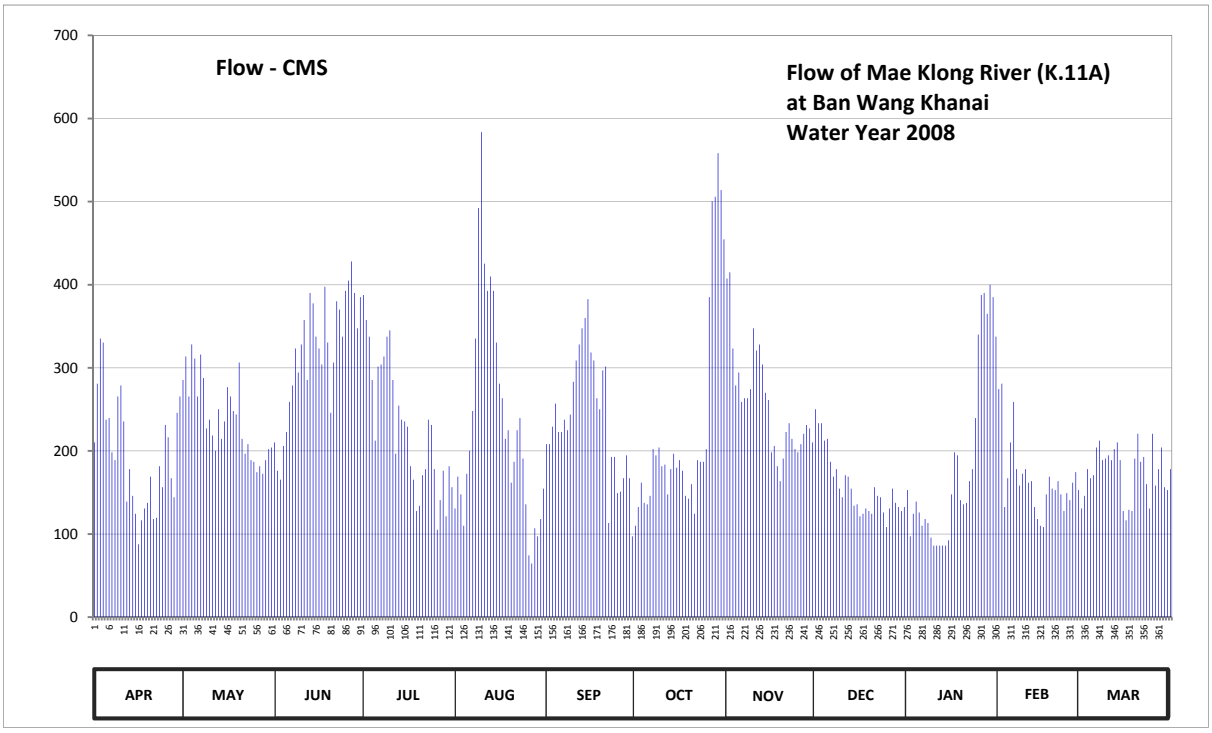
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.82	12.17	11.82	12.59	11.38	11.81	11.25	12.67	12.01	11.51	12.12	11.38	
2	12.15	12.29	11.64	12.47	11.60	11.81	11.39	12.70	11.93	11.17	12.15	11.47	
3	12.38	12.08	11.58	12.39	11.48	11.91	11.56	12.33	11.93	11.34	11.39	11.65	
4	12.36	12.35	11.80	12.17	11.25	12.04	11.42	12.14	11.83	11.43	11.59	11.59	
5	11.95	12.28	11.88	11.83	11.62	11.88	11.41	12.21	11.84	11.35	11.82	11.61	
6	11.96	12.08	12.05	12.24	11.77	11.88	11.47	12.05	11.70	11.25	12.05	11.79	
7	11.76	12.30	12.14	12.25	12.00	11.95	11.78	12.07	11.60	11.30	11.65	11.83	
8	11.71	12.18	12.33	12.29	12.38	11.89	11.74	12.07	11.65	11.27	11.54	11.71	
9	12.08	11.90	12.21	12.39	12.99	11.98	11.79	12.12	11.52	11.16	11.62	11.72	
10	12.14	11.95	12.35	12.42	13.32	12.16	11.67	12.43	11.46	11.10	11.65	11.74	
11	11.94	11.86	12.47	12.17	12.74	12.27	11.68	12.32	11.61	11.10	11.56	11.71	
12	11.43	11.77	12.17	11.75	12.61	12.35	11.48	12.35	11.60	11.10	11.57	11.78	
13	11.65	12.01	12.60	12.03	12.68	12.43	11.65	12.25	11.52	11.10	11.39	11.82	
14	11.47	11.84	12.55	11.95	12.61	12.48	11.75	12.10	11.40	11.10	11.30	11.71	
15	11.34	11.94	12.39	11.94	12.36	12.57	11.66	12.06	11.41	11.14	11.25	11.36	
16	11.11	12.13	12.33	11.91	12.15	12.31	11.71	11.76	11.32	11.48	11.24	11.29	
17	11.29	12.08	12.25	11.67	12.07	12.27	11.64	11.80	11.34	11.76	11.48	11.37	
18	11.38	12.00	12.63	11.58	11.84	12.07	11.47	11.67	11.38	11.74	11.60	11.36	
19	11.42	11.98	12.36	11.36	11.89	12.01	11.45	11.57	11.36	11.44	11.52	11.72	
20	11.60	12.26	11.99	11.40	11.56	12.22	11.55	11.72	11.34	11.41	11.51	11.87	
21	11.30	11.84	12.26	11.61	11.70	12.24	11.34	11.88	11.53	11.42	11.57	11.70	
22	11.31	11.75	12.56	11.65	11.89	11.27	11.71	11.93	11.47	11.57	11.48	11.73	
23	11.67	11.81	12.52	11.95	11.96	11.73	11.70	11.84	11.46	11.65	11.36	11.55	
24	11.53	11.71	12.39	11.92	11.72	11.73	11.70	11.78	11.35	11.96	11.49	11.38	
25	11.92	11.70	12.61	11.65	11.41	11.49	11.78	11.76	11.24	12.40	11.44	11.87	
26	11.85	11.63	12.66	11.22	11.02	11.50	12.58	11.81	11.38	12.59	11.56	11.54	
27	11.59	11.67	12.75	11.44	10.95	11.59	13.02	11.87	11.52	12.60	11.63	11.65	
28	11.46	11.62	12.60	11.64	11.23	11.74	13.04	11.92	11.42	12.50	11.51	11.79	
29	11.99	11.71	12.43	11.32	11.17	11.59	13.23	11.90	11.39	12.64		11.53	
30	12.08	11.78	12.58	11.67	11.30	11.17	13.07	11.82	11.36	12.58		11.51	
31		11.79		11.53	11.52		12.85		11.39	12.39		11.65	
Mean	11.72	11.95	12.30	11.88	11.88	11.94	11.86	12.03	11.52	11.63	11.57	11.63	
Max	12.38	12.35	12.75	12.59	13.32	12.57	13.23	12.70	12.01	12.64	12.15	11.87	13.32
Min	11.11	11.62	11.58	11.22	10.95	11.17	11.25	11.57	11.24	11.10	11.24	11.29	10.95

Annual Max Momentary Gage Height 13.70 m. (MSL.) , at 10.00 Hours , on Aug 10, 2008

Zero Gage at Bottom Elevation 9.81 m. (MSL.) , River Bed 9.97 m. (MSL)

Left Bank Elevation 20.43 m. (MSL.) ,

Right Bank Elevation 23.17 m. (MSL.) , Drainage Are 26,449 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	210.20	285.40	210.20	387.50	130.80	208.10	110.00	407.50	250.20	152.80	274.40	130.80		
2	281.00	313.60	176.20	357.50	169.00	208.10	132.40	415.00	233.30	97.20	281.00	145.90		
3	335.20	265.60	165.40	337.60	147.60	229.10	161.80	323.20	233.30	124.40	132.40	178.00		
4	330.40	328.00	206.00	285.40	110.00	256.80	137.40	278.80	212.30	139.10	167.20	167.20		
5	237.50	311.20	222.80	212.30	172.60	222.80	135.70	294.40	214.40	126.00	210.20	170.80		
6	239.60	265.60	259.00	301.60	200.30	222.80	145.90	259.00	187.00	110.00	259.00	204.10		
7	198.40	316.00	278.80	304.00	248.00	237.50	202.20	263.40	169.00	118.00	178.00	212.30		
8	188.90	287.60	323.20	313.60	335.20	224.90	194.60	263.40	178.00	113.20	158.20	188.90		
9	265.60	227.00	294.40	337.60	492.30	243.80	204.10	274.40	154.60	95.60	172.60	190.80		
10	278.80	237.50	328.00	345.00	583.60	283.20	181.60	347.50	144.20	86.00	178.00	194.60		
11	235.40	218.60	357.50	285.40	425.40	308.80	183.40	320.80	170.80	86.00	161.80	188.90		
12	139.10	200.30	285.40	196.50	392.50	328.00	147.60	328.00	169.00	86.00	163.60	202.20		
13	178.00	250.20	390.00	254.60	410.00	347.50	178.00	304.00	154.60	86.00	132.40	210.20		
14	145.90	214.40	377.50	237.50	392.50	360.00	196.50	270.00	134.00	86.00	118.00	188.90		
15	124.40	235.40	337.60	235.40	330.40	382.50	179.80	261.20	135.70	92.40	110.00	127.60		
16	87.60	276.60	323.20	229.10	281.00	318.40	188.90	198.40	121.20	147.60	108.40	116.40		
17	116.40	265.60	304.00	181.60	263.40	308.80	176.20	206.00	124.40	198.40	147.60	129.20		
18	130.80	248.00	397.50	165.40	214.40	263.40	145.90	181.60	130.80	194.60	169.00	127.60		
19	137.40	243.80	330.40	127.60	224.90	250.20	142.50	163.60	127.60	140.80	154.60	190.80		
20	169.00	306.40	245.90	134.00	161.80	296.80	160.00	190.80	124.40	135.70	152.80	220.70		
21	118.00	214.40	306.40	170.80	187.00	301.60	124.40	222.80	156.40	137.40	163.60	187.00		
22	119.60	196.50	380.00	178.00	224.90	113.20	188.90	233.30	145.90	163.60	147.60	192.70		
23	181.60	208.10	370.00	237.50	239.60	192.70	187.00	214.40	144.20	178.00	127.60	160.00		
24	156.40	188.90	337.60	231.20	190.80	192.70	187.00	202.20	126.00	239.60	149.30	130.80		
25	231.20	187.00	392.50	178.00	135.70	149.30	202.20	198.40	108.40	340.00	140.80	220.70		
26	216.50	174.40	405.00	105.20	74.40	151.00	385.00	208.10	130.80	387.50	161.80	158.20		
27	167.20	181.60	428.00	140.80	64.50	167.20	500.40	220.70	154.60	390.00	174.40	178.00		
28	144.20	172.60	390.00	176.20	106.80	194.60	505.80	231.20	137.40	365.00	152.80	204.10		
29	245.90	188.90	347.50	121.20	97.20	167.20	558.40	227.00	132.40	400.00		156.40		
30	265.60	202.20	385.00	181.60	118.00	97.20	513.90	210.20	127.60	385.00		152.80		
31		204.10		156.40	154.60		454.50		132.40	337.60		178.00		
Total	5875.80	7415.50	9555.00	7106.10	7279.20	7228.20	7112.00	7719.30	4864.90	5739.50	4647.10	5404.60	79947.20	CMSDAY
Mean	195.86	239.21	318.50	229.23	234.81	240.94	229.42	257.31	156.93	185.15	165.97	174.34	219.03	CMS
Max	335.20	328.00	428.00	387.50	583.60	382.50	558.40	415.00	250.20	400.00	281.00	220.70	583.60	CMS
Min	87.60	172.60	165.40	105.20	64.50	97.20	110.00	163.60	108.40	86.00	108.40	116.40	64.50	CMS
Runoff	507.67	640.70	825.55	613.97	628.92	624.52	614.48	666.95	420.33	495.89	401.51	466.96	6907.44	MCM

Momentary Peak 690.00 CMS. at 13.70 m. (MSL.) at 10.00 Hours , on Aug 10, 2008

Runoff Yield 8.28 Liters/Second/Square KM. Momentary Peak Yield 26.09 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1965 to date
Rating Operation	
Period of Rating	1965 - 1968 , 1995 to date
Rated by Float	-
Rated by Current Meter	1965 - 1968 , 1995 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 60 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

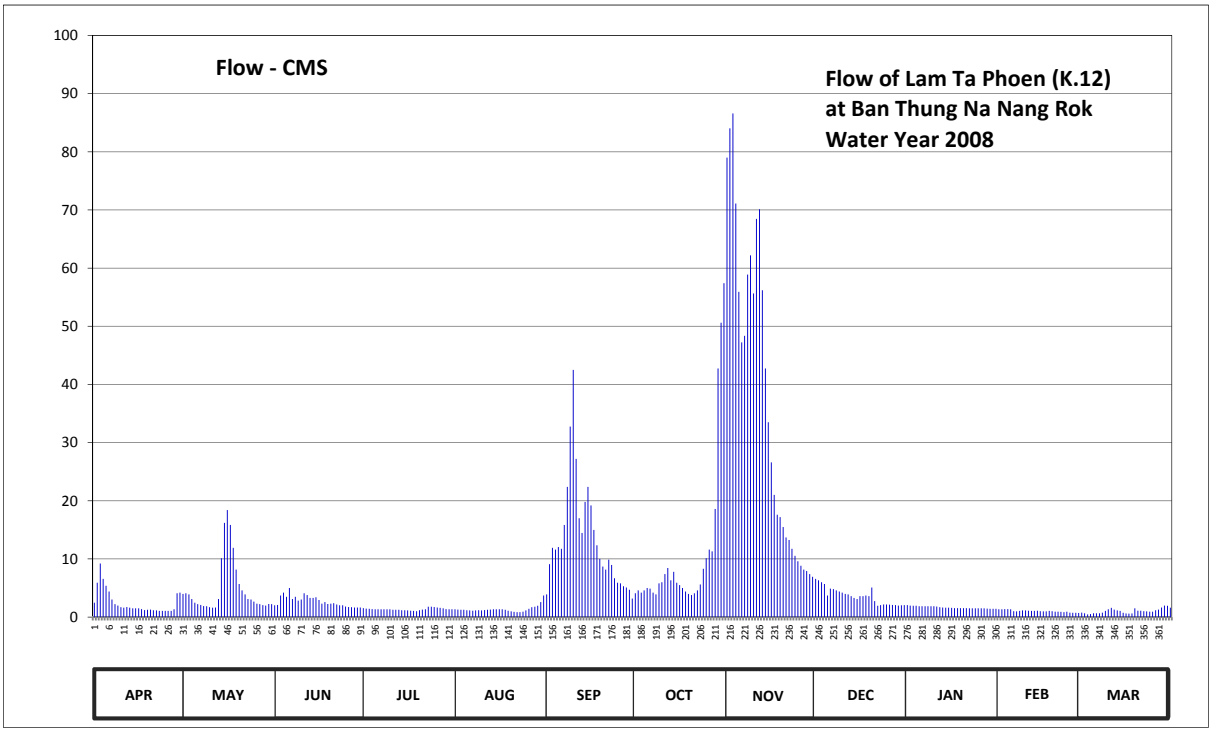
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	41.42	41.58	41.33	41.21	41.16	41.57	41.59	44.90	41.83	41.34	41.16	41.02	
2	41.77	41.59	41.35	41.19	41.15	42.03	41.64	45.04	41.81	41.32	41.16	40.99	
3	42.04	41.57	41.55	41.18	41.14	42.24	41.60	45.11	41.78	41.31	41.17	40.93	
4	41.83	41.49	41.60	41.17	41.14	42.22	41.64	44.67	41.75	41.31	41.17	40.95	
5	41.72	41.42	41.53	41.16	41.12	42.25	41.68	44.19	41.55	41.29	41.16	40.99	
6	41.62	41.38	41.68	41.16	41.11	42.23	41.67	43.88	41.67	41.29	41.08	40.99	
7	41.48	41.35	41.49	41.16	41.10	42.49	41.60	43.92	41.66	41.29	41.07	40.99	
8	41.38	41.30	41.53	41.16	41.11	42.82	41.57	44.29	41.64	41.29	41.09	41.02	
9	41.32	41.29	41.46	41.16	41.12	43.31	41.76	44.40	41.62	41.29	41.11	41.09	
10	41.25	41.25	41.48	41.16	41.11	43.70	41.78	44.18	41.60	41.29	41.11	41.16	
11	41.23	41.23	41.59	41.14	41.13	43.06	41.90	44.59	41.58	41.28	41.10	41.22	
12	41.26	41.24	41.56	41.14	41.14	42.55	41.98	44.64	41.57	41.25	41.09	41.15	
13	41.23	41.49	41.51	41.14	41.15	42.41	41.81	44.20	41.54	41.24	41.09	41.11	
14	41.20	42.11	41.51	41.12	41.16	42.69	41.93	43.71	41.51	41.23	41.10	41.09	
15	41.20	42.51	41.52	41.12	41.16	42.82	41.77	43.34	41.49	41.23	41.08	41.01	
16	41.20	42.62	41.47	41.11	41.16	42.66	41.73	43.03	41.54	41.22	41.07	40.98	
17	41.17	42.49	41.40	41.10	41.16	42.44	41.68	42.75	41.54	41.21	41.07	40.97	
18	41.13	42.24	41.43	41.09	41.14	42.27	41.62	42.58	41.55	41.21	41.09	40.98	
19	41.14	41.96	41.39	41.08	41.10	42.10	41.58	42.56	41.54	41.21	41.08	41.20	
20	41.15	41.75	41.40	41.12	41.07	42.00	41.56	42.47	41.69	41.21	41.06	41.10	
21	41.12	41.64	41.41	41.15	41.05	41.96	41.59	42.36	41.45	41.21	41.06	41.10	
22	41.11	41.57	41.37	41.16	41.04	42.09	41.64	42.33	41.31	41.20	41.05	41.08	
23	41.09	41.49	41.33	41.27	41.04	42.02	41.74	42.23	41.34	41.20	41.04	41.07	
24	41.09	41.48	41.33	41.27	41.06	41.84	41.97	42.14	41.37	41.20	41.06	41.06	
25	41.09	41.44	41.28	41.26	41.11	41.77	42.11	42.07	41.37	41.20	41.02	41.06	
26	41.09	41.40	41.26	41.24	41.18	41.76	42.22	42.01	41.36	41.20	41.01	41.12	
27	41.09	41.38	41.25	41.22	41.25	41.71	42.20	41.96	41.35	41.20	41.01	41.15	
28	41.16	41.34	41.24	41.20	41.27	41.69	42.63	41.94	41.34	41.19	41.00	41.24	
29	41.59	41.32	41.24	41.17	41.31	41.65	43.71	41.90	41.32	41.18		41.32	
30	41.60	41.39	41.24	41.16	41.43	41.50	44.00	41.86	41.33	41.18		41.31	
31		41.38		41.16	41.55		44.24		41.34	41.18		41.23	
Mean	41.33	41.60	41.42	41.17	41.16	42.26	42.00	43.31	41.53	41.24	41.08	41.09	
Max	42.04	42.62	41.68	41.27	41.55	43.70	44.24	45.11	41.83	41.34	41.17	41.32	45.11
Min	41.09	41.23	41.24	41.08	41.04	41.50	41.56	41.86	41.31	41.18	41.00	40.93	40.93

Annual Max Momentary Gage Height 45.17 m. (MSL.) , at 13.00 Hours , on Nov 3, 2008

Zero Gage at Bottom Elevation 40.44 m. (MSL.) , River Bed 40.75 m. (MSL.)

Left Bank Elevation 49.54 m. (MSL.) ,

Right Bank Elevation 46.54 m. (MSL.) , Drainage Are 2,375 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.48	4.00	2.02	1.54	1.34	3.90	4.10	79.00	6.56	2.06	1.34	0.78		
2	5.90	4.10	2.10	1.46	1.30	9.09	4.60	84.04	6.32	1.98	1.34	0.67		
3	9.22	3.90	3.70	1.42	1.26	11.90	4.20	86.59	6.00	1.94	1.38	0.46		
4	6.56	3.11	4.20	1.38	1.26	11.60	4.60	71.11	5.70	1.94	1.38	0.53		
5	5.40	2.48	3.50	1.34	1.18	12.05	5.00	55.92	3.70	1.86	1.34	0.67		
6	4.40	2.22	5.00	1.34	1.14	11.75	4.90	47.24	4.90	1.86	1.02	0.67		
7	3.02	2.10	3.11	1.34	1.10	15.83	4.20	48.36	4.80	1.86	0.98	0.67		
8	2.22	1.90	3.50	1.34	1.14	22.40	3.90	58.90	4.60	1.86	1.06	0.78		
9	1.98	1.86	2.84	1.34	1.18	32.75	5.80	62.20	4.40	1.86	1.14	1.06		
10	1.70	1.70	3.02	1.34	1.14	42.50	6.00	55.64	4.20	1.86	1.14	1.34		
11	1.62	1.62	4.10	1.26	1.22	27.20	7.40	68.47	4.00	1.82	1.10	1.58		
12	1.74	1.66	3.80	1.26	1.26	17.00	8.44	70.12	3.90	1.70	1.06	1.30		
13	1.62	3.11	3.30	1.26	1.30	14.47	6.32	56.20	3.60	1.66	1.06	1.14		
14	1.50	10.13	3.30	1.18	1.34	19.80	7.79	42.75	3.30	1.62	1.10	1.06		
15	1.50	16.20	3.40	1.18	1.34	22.40	5.90	33.50	3.11	1.62	1.02	0.74		
16	1.50	18.40	2.93	1.14	1.34	19.20	5.50	26.60	3.60	1.58	0.98	0.63		
17	1.38	15.83	2.30	1.10	1.34	14.98	5.00	21.00	3.60	1.54	0.98	0.60		
18	1.22	11.90	2.57	1.06	1.26	12.35	4.40	17.60	3.70	1.54	1.06	0.63		
19	1.26	8.18	2.26	1.02	1.10	10.00	4.00	17.20	3.60	1.54	1.02	1.50		
20	1.30	5.70	2.30	1.18	0.98	8.70	3.80	15.49	5.10	1.54	0.94	1.10		
21	1.18	4.60	2.39	1.30	0.90	8.18	4.10	13.70	2.75	1.54	0.94	1.10		
22	1.14	3.90	2.18	1.34	0.86	9.87	4.60	13.25	1.94	1.50	0.90	1.02		
23	1.06	3.11	2.02	1.78	0.86	8.96	5.60	11.75	2.06	1.50	0.86	0.98		
24	1.06	3.02	2.02	1.78	0.94	6.68	8.31	10.52	2.18	1.50	0.94	0.94		
25	1.06	2.66	1.82	1.74	1.14	5.90	10.13	9.61	2.18	1.50	0.78	0.94		
26	1.06	2.30	1.74	1.66	1.42	5.80	11.60	8.83	2.14	1.50	0.74	1.18		
27	1.06	2.22	1.70	1.58	1.70	5.30	11.30	8.18	2.10	1.50	0.74	1.30		
28	1.34	2.06	1.66	1.50	1.78	5.10	18.60	7.92	2.06	1.46	0.70	1.66		
29	4.10	1.98	1.66	1.38	1.94	4.70	42.75	7.40	1.98	1.42		1.98		
30	4.20	2.26	1.66	1.34	2.57	3.20	50.60	6.92	2.02	1.42		1.94		
31		2.22		1.34	3.70		57.40		2.06	1.42		1.62		
Total	74.78	150.43	82.10	42.22	42.33	403.56	330.84	1116.01	112.16	51.50	29.04	32.57	2467.54	CMSDAY
Mean	2.49	4.85	2.74	1.36	1.37	13.45	10.67	37.20	3.62	1.66	1.04	1.05	6.76	CMS
Max	9.22	18.40	5.00	1.78	3.70	42.50	57.40	86.59	6.56	2.06	1.38	1.98	86.59	CMS
Min	1.06	1.62	1.66	1.02	0.86	3.20	3.80	6.92	1.94	1.42	0.70	0.46	0.46	CMS
Runoff	6.46	13.00	7.09	3.65	3.66	34.87	28.58	96.42	9.69	4.45	2.51	2.81	213.20	MCM

Momentary Peak 88.91 CMS. at 45.17 m. (MSL.) at 13.00 Hours , on Nov 3, 2008

Runoff Yield 2.85 Liters/Second/Square KM. Momentary Peak Yield 37.44 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1966 to date
Rating Operation	
Period of Rating	1966 - 1988 , 1993 to date
Rated by Float	-
Rated by Current Meter	1966 - 1988 , 1993 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 38 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

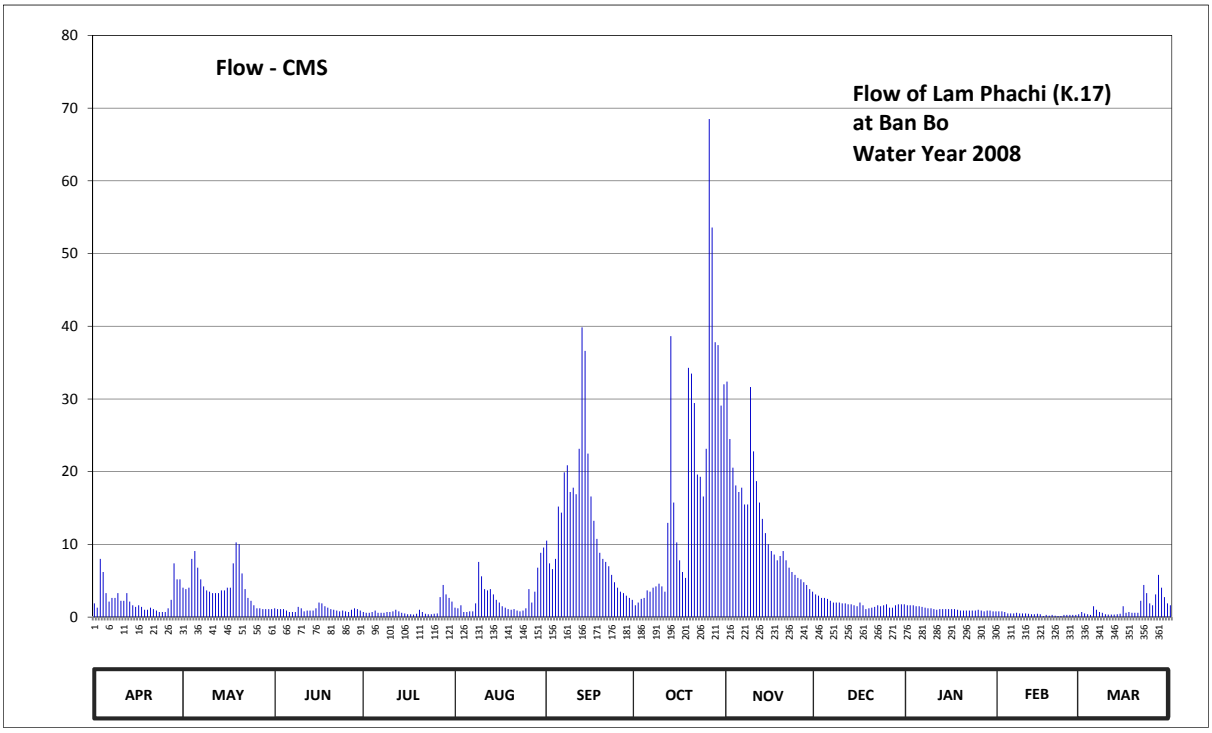
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	97.63	97.77	97.57	97.52	97.58	98.08	97.61	98.77	97.72	97.61	97.53	97.52	
2	97.58	97.76	97.56	97.51	97.57	97.94	97.64	98.55	97.71	97.61	97.53	97.50	
3	97.97	97.77	97.56	97.51	97.61	97.90	97.68	98.43	97.69	97.61	97.52	97.48	
4	97.88	97.97	97.56	97.52	97.52	97.97	97.69	98.35	97.69	97.60	97.50	97.46	
5	97.73	98.02	97.54	97.54	97.52	98.25	97.75	98.32	97.68	97.60	97.50	97.60	
6	97.65	97.91	97.52	97.51	97.53	98.22	97.74	98.34	97.66	97.59	97.50	97.55	
7	97.69	97.83	97.52	97.51	97.53	98.41	97.77	98.26	97.64	97.58	97.51	97.52	
8	97.69	97.78	97.52	97.51	97.63	98.44	97.78	98.26	97.64	97.57	97.50	97.51	
9	97.73	97.75	97.59	97.52	97.95	98.32	97.80	98.75	97.64	97.57	97.50	97.48	
10	97.66	97.74	97.57	97.52	97.85	98.34	97.78	98.50	97.63	97.56	97.50	97.47	
11	97.66	97.73	97.53	97.53	97.76	98.31	97.74	98.37	97.63	97.55	97.49	97.47	
12	97.73	97.73	97.54	97.55	97.75	98.51	98.17	98.27	97.62	97.56	97.48	97.47	
13	97.65	97.73	97.54	97.53	97.76	98.96	98.93	98.19	97.62	97.56	97.48	97.48	
14	97.61	97.75	97.54	97.51	97.72	98.88	98.27	98.12	97.61	97.56	97.49	97.49	
15	97.59	97.75	97.57	97.50	97.67	98.49	98.07	98.06	97.60	97.56	97.48	97.60	
16	97.61	97.77	97.64	97.48	97.64	98.30	97.96	98.02	97.64	97.56	97.43	97.51	
17	97.59	97.77	97.63	97.48	97.60	98.18	97.88	98.00	97.61	97.56	97.46	97.52	
18	97.55	97.94	97.60	97.47	97.58	98.09	97.84	97.96	97.56	97.55	97.44	97.51	
19	97.55	98.07	97.58	97.49	97.56	98.01	98.82	97.99	97.57	97.54	97.46	97.51	
20	97.58	98.06	97.56	97.55	97.55	97.97	98.80	98.02	97.58	97.54	97.44	97.51	
21	97.56	97.87	97.55	97.52	97.56	97.95	98.69	97.96	97.59	97.54	97.43	97.66	
22	97.54	97.76	97.54	97.49	97.54	97.92	98.40	97.91	97.61	97.54	97.43	97.79	
23	97.52	97.69	97.53	97.48	97.53	97.86	98.39	97.88	97.60	97.54	97.46	97.73	
24	97.52	97.66	97.54	97.48	97.54	97.81	98.30	97.86	97.61	97.54	97.46	97.63	
25	97.52	97.61	97.53	97.49	97.57	97.77	98.51	97.84	97.62	97.55	97.46	97.61	
26	97.57	97.57	97.52	97.50	97.76	97.74	99.59	97.83	97.58	97.54	97.46	97.72	
27	97.67	97.57	97.55	97.70	97.64	97.73	99.28	97.81	97.58	97.53	97.46	97.86	
28	97.94	97.56	97.57	97.79	97.74	97.71	98.91	97.79	97.61	97.54	97.48	97.77	
29	97.83	97.56	97.56	97.72	97.91	97.69	98.90	97.76	97.62	97.54		97.70	
30	97.83	97.56	97.54	97.69	98.01	97.67	98.68	97.74	97.62	97.53		97.63	
31		97.56		97.65	98.04		98.76		97.62	97.53		97.61	
Mean	97.66	97.76	97.56	97.54	97.67	98.11	98.26	98.13	97.63	97.56	97.48	97.58	
Max	97.97	98.07	97.64	97.79	98.04	98.96	99.59	98.77	97.72	97.61	97.53	97.86	99.59
Min	97.52	97.56	97.52	97.47	97.52	97.67	97.61	97.74	97.56	97.53	97.43	97.46	97.43

Annual Max Momentary Gage Height 99.78 m. (MSL.) , at 10.00 Hours , on Oct 26, 2008

Zero Gage at Bottom Elevation 97.46 m. (MSL.) , River Bed 96.45 m. (MSL.)

Left Bank Elevation 108.42 m. (MSL.) ,

Right Bank Elevation 103.50 m. (MSL.) , Drainage Are 1,344 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.88	4.05	1.20	0.70	1.30	10.52	1.63	32.39	3.12	1.63	0.80	0.70		
2	1.30	3.86	1.10	0.60	1.20	7.40	2.00	24.50	2.94	1.63	0.80	0.50		
3	8.00	4.05	1.10	0.60	1.63	6.60	2.50	20.56	2.63	1.63	0.70	0.40		
4	6.20	8.00	1.10	0.70	0.70	8.00	2.63	18.10	2.63	1.50	0.50	0.30		
5	3.31	9.08	0.90	0.90	0.70	15.20	3.68	17.20	2.50	1.50	0.50	1.50		
6	2.13	6.80	0.70	0.60	0.80	14.36	3.49	17.80	2.25	1.40	0.50	1.00		
7	2.63	5.20	0.70	0.60	0.80	19.92	4.05	15.48	2.00	1.30	0.60	0.70		
8	2.63	4.23	0.70	0.60	1.88	20.88	4.23	15.48	2.00	1.20	0.50	0.60		
9	3.31	3.68	1.40	0.70	7.60	17.20	4.60	31.65	2.00	1.20	0.50	0.40		
10	2.25	3.49	1.20	0.70	5.60	17.80	4.23	22.80	1.88	1.10	0.50	0.35		
11	2.25	3.31	0.80	0.80	3.86	16.90	3.49	18.70	1.88	1.00	0.45	0.35		
12	3.31	3.31	0.90	1.00	3.68	23.14	12.96	15.76	1.75	1.10	0.40	0.35		
13	2.13	3.31	0.90	0.80	3.86	39.86	38.63	13.52	1.75	1.10	0.40	0.40		
14	1.63	3.68	0.90	0.60	3.12	36.62	15.76	11.56	1.63	1.10	0.45	0.45		
15	1.40	3.68	1.20	0.50	2.38	22.48	10.28	10.04	1.50	1.10	0.40	1.50		
16	1.63	4.05	2.00	0.40	2.00	16.60	7.80	9.08	2.00	1.10	0.15	0.60		
17	1.40	4.05	1.88	0.40	1.50	13.24	6.20	8.60	1.63	1.10	0.30	0.70		
18	1.00	7.40	1.50	0.35	1.30	10.76	5.40	7.80	1.10	1.00	0.20	0.60		
19	1.00	10.28	1.30	0.45	1.10	8.84	34.28	8.40	1.20	0.90	0.30	0.60		
20	1.30	10.04	1.10	1.00	1.00	8.00	33.50	9.08	1.30	0.90	0.20	0.60		
21	1.10	6.00	1.00	0.70	1.10	7.60	29.44	7.80	1.40	0.90	0.15	2.25		
22	0.90	3.86	0.90	0.45	0.90	7.00	19.60	6.80	1.63	0.90	0.15	4.42		
23	0.70	2.63	0.80	0.40	0.80	5.80	19.30	6.20	1.50	0.90	0.30	3.31		
24	0.70	2.25	0.90	0.40	0.90	4.80	16.60	5.80	1.63	0.90	0.30	1.88		
25	0.70	1.63	0.80	0.45	1.20	4.05	23.14	5.40	1.75	1.00	0.30	1.63		
26	1.20	1.20	0.70	0.50	3.86	3.49	68.50	5.20	1.30	0.90	0.30	3.12		
27	2.38	1.20	1.00	2.75	2.00	3.31	53.58	4.80	1.30	0.80	0.30	5.80		
28	7.40	1.10	1.20	4.42	3.49	2.94	37.81	4.42	1.63	0.90	0.40	4.05		
29	5.20	1.10	1.10	3.12	6.80	2.63	37.40	3.86	1.75	0.90		2.75		
30	5.20	1.10	0.90	2.63	8.84	2.38	29.08	3.49	1.75	0.80		1.88		
31		1.10		2.13	9.56		32.02		1.75	0.80		1.63		
Total	76.17	128.72	31.88	30.95	85.46	378.32	567.81	382.27	57.08	34.19	11.35	45.32	1829.52	CMSDAY
Mean	2.54	4.15	1.06	1.00	2.76	12.61	18.32	12.74	1.84	1.10	0.41	1.46	5.01	CMS
Max	8.00	10.28	2.00	4.42	9.56	39.86	68.50	32.39	3.12	1.63	0.80	5.80	68.50	CMS
Min	0.70	1.10	0.70	0.35	0.70	2.38	1.63	3.49	1.10	0.80	0.15	0.30	0.15	CMS
Runoff	6.58	11.12	2.75	2.67	7.38	32.69	49.06	33.03	4.93	2.95	0.98	3.92	158.07	MCM

Momentary Peak 78.70 CMS. at 99.78 m. (MSL.) at 10.00 Hours , on Oct 26, 2008

Runoff Yield 3.73 Liters/Second/Square KM. Momentary Peak Yield 58.56 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	367 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 about 1 meter from the top staff gage.	**Elevation**	+8.023 m. (A.D.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1994 to date		
Rating Operation			
Period of Rating	1994 to date		
Rated by Float	-		
Rated by Current Meter	1994 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 43 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

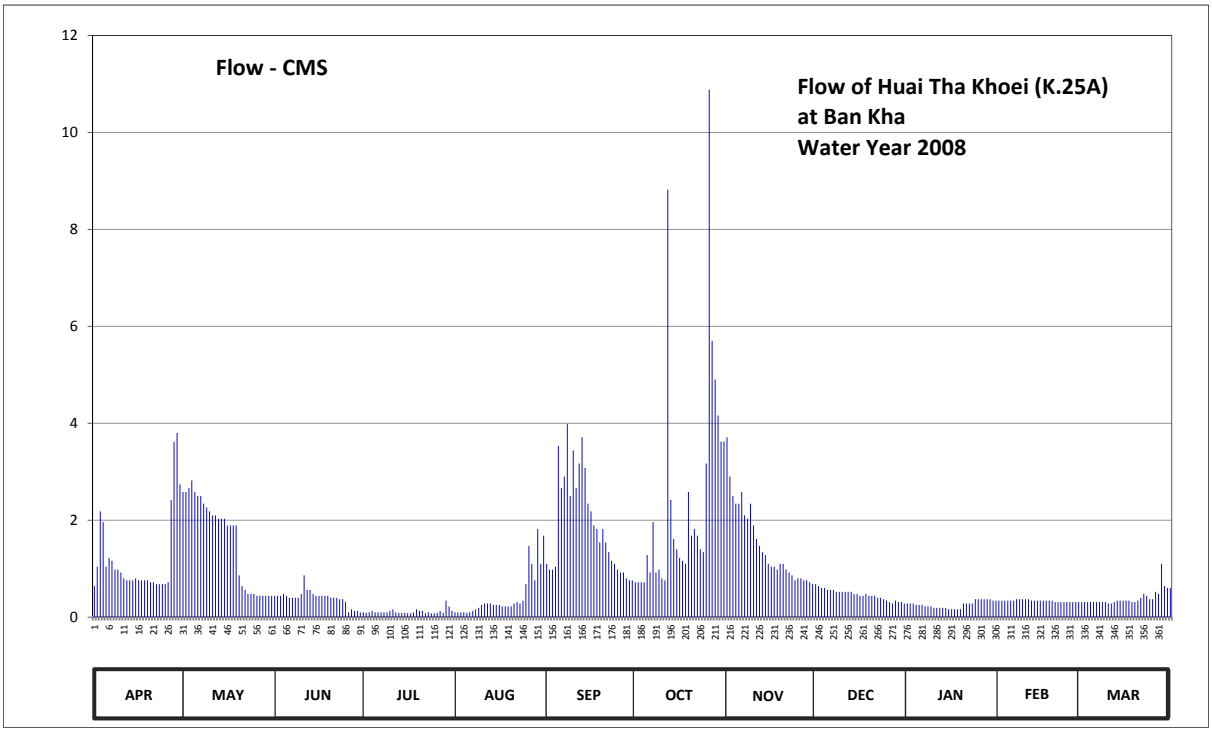
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.46	0.76	0.41	0.30	0.30	0.55	0.48	0.89	0.47	0.36	0.38	0.37	
2	0.54	0.76	0.41	0.29	0.30	0.53	0.48	0.80	0.46	0.36	0.38	0.37	
3	0.71	0.77	0.41	0.30	0.30	0.53	0.48	0.75	0.45	0.36	0.38	0.37	
4	0.68	0.79	0.42	0.31	0.30	0.54	0.48	0.73	0.45	0.35	0.38	0.37	
5	0.54	0.76	0.41	0.30	0.29	0.87	0.58	0.73	0.44	0.35	0.38	0.37	
6	0.57	0.75	0.40	0.30	0.30	0.77	0.52	0.76	0.44	0.35	0.38	0.37	
7	0.56	0.75	0.40	0.30	0.31	0.80	0.68	0.70	0.44	0.34	0.39	0.37	
8	0.53	0.73	0.40	0.30	0.32	0.92	0.52	0.69	0.43	0.34	0.39	0.37	
9	0.53	0.72	0.40	0.30	0.33	0.75	0.53	0.73	0.43	0.34	0.39	0.37	
10	0.52	0.71	0.42	0.31	0.35	0.86	0.50	0.67	0.43	0.33	0.39	0.36	
11	0.50	0.70	0.51	0.32	0.36	0.77	0.49	0.63	0.43	0.33	0.39	0.36	
12	0.49	0.70	0.44	0.30	0.36	0.83	1.36	0.61	0.43	0.33	0.38	0.37	
13	0.49	0.69	0.44	0.29	0.36	0.89	0.74	0.59	0.43	0.33	0.38	0.38	
14	0.49	0.69	0.42	0.29	0.35	0.82	0.63	0.58	0.42	0.33	0.38	0.38	
15	0.50	0.69	0.41	0.29	0.35	0.73	0.60	0.55	0.42	0.32	0.38	0.38	
16	0.49	0.67	0.41	0.28	0.35	0.71	0.57	0.54	0.41	0.32	0.38	0.38	
17	0.49	0.67	0.41	0.28	0.34	0.67	0.56	0.54	0.41	0.32	0.38	0.38	
18	0.49	0.67	0.41	0.30	0.34	0.66	0.55	0.53	0.42	0.32	0.38	0.37	
19	0.49	0.67	0.41	0.32	0.34	0.62	0.76	0.55	0.41	0.32	0.38	0.37	
20	0.48	0.51	0.40	0.31	0.34	0.66	0.64	0.55	0.41	0.36	0.37	0.38	
21	0.48	0.46	0.40	0.31	0.36	0.62	0.66	0.53	0.41	0.36	0.37	0.40	
22	0.47	0.44	0.40	0.28	0.37	0.59	0.64	0.52	0.40	0.36	0.37	0.42	
23	0.47	0.42	0.39	0.30	0.36	0.56	0.60	0.51	0.40	0.36	0.37	0.41	
24	0.47	0.42	0.39	0.28	0.38	0.55	0.59	0.49	0.39	0.39	0.37	0.39	
25	0.47	0.42	0.37	0.28	0.47	0.53	0.83	0.50	0.38	0.39	0.37	0.39	
26	0.48	0.41	0.30	0.29	0.61	0.52	1.52	0.50	0.37	0.39	0.37	0.43	
27	0.74	0.41	0.32	0.31	0.55	0.52	1.10	0.49	0.36	0.39	0.37	0.42	
28	0.88	0.41	0.31	0.29	0.49	0.50	1.02	0.49	0.38	0.39	0.37	0.55	
29	0.90	0.41	0.31	0.38	0.66	0.49	0.94	0.48	0.37	0.39		0.46	
30	0.78	0.41	0.30	0.34	0.55	0.49	0.88	0.47	0.37	0.38		0.45	
31		0.41		0.31	0.64		0.88		0.36	0.38		0.45	
Mean	0.56	0.61	0.39	0.30	0.39	0.66	0.70	0.60	0.41	0.35	0.38	0.39	
Max	0.90	0.79	0.51	0.38	0.66	0.92	1.52	0.89	0.47	0.39	0.39	0.55	1.52
Min	0.46	0.41	0.30	0.28	0.29	0.49	0.48	0.47	0.36	0.32	0.37	0.36	0.28

Annual Max Momentary Gage Height 1.74 m. (A.D.) , at 06.00 Hours , on Oct 26, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.97 m. (A.D.) ,

Left Bank Elevation 3.13 m. (A.D.) ,

Right Bank Elevation 2.98 m. (A.D.) , Drainage Are 367 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.64	2.58	0.44	0.10	0.10	1.10	0.72	3.71	0.68	0.28	0.34	0.31		
2	1.04	2.58	0.44	0.09	0.10	0.98	0.72	2.90	0.64	0.28	0.34	0.31		
3	2.18	2.66	0.44	0.10	0.10	0.98	0.72	2.50	0.60	0.28	0.34	0.31		
4	1.96	2.82	0.48	0.13	0.10	1.04	0.72	2.34	0.60	0.25	0.34	0.31		
5	1.04	2.58	0.44	0.10	0.09	3.53	1.28	2.34	0.56	0.25	0.34	0.31		
6	1.22	2.50	0.40	0.10	0.10	2.66	0.92	2.58	0.56	0.25	0.34	0.31		
7	1.16	2.50	0.40	0.10	0.13	2.90	1.96	2.10	0.56	0.22	0.37	0.31		
8	0.98	2.34	0.40	0.10	0.16	3.98	0.92	2.03	0.52	0.22	0.37	0.31		
9	0.98	2.26	0.40	0.10	0.19	2.50	0.98	2.34	0.52	0.22	0.37	0.31		
10	0.92	2.18	0.48	0.13	0.25	3.44	0.80	1.89	0.52	0.19	0.37	0.28		
11	0.80	2.10	0.86	0.16	0.28	2.66	0.76	1.61	0.52	0.19	0.37	0.28		
12	0.76	2.10	0.56	0.10	0.28	3.17	8.82	1.47	0.52	0.19	0.34	0.31		
13	0.76	2.03	0.56	0.09	0.28	3.71	2.42	1.34	0.52	0.19	0.34	0.34		
14	0.76	2.03	0.48	0.09	0.25	3.08	1.61	1.28	0.48	0.19	0.34	0.34		
15	0.80	2.03	0.44	0.09	0.25	2.34	1.40	1.10	0.48	0.16	0.34	0.34		
16	0.76	1.89	0.44	0.08	0.25	2.18	1.22	1.04	0.44	0.16	0.34	0.34		
17	0.76	1.89	0.44	0.08	0.22	1.89	1.16	1.04	0.44	0.16	0.34	0.34		
18	0.76	1.89	0.44	0.10	0.22	1.82	1.10	0.98	0.48	0.16	0.34	0.31		
19	0.76	1.89	0.44	0.16	0.22	1.54	2.58	1.10	0.44	0.16	0.34	0.31		
20	0.72	0.86	0.40	0.13	0.22	1.82	1.68	1.10	0.44	0.28	0.31	0.34		
21	0.72	0.64	0.40	0.13	0.28	1.54	1.82	0.98	0.44	0.28	0.31	0.40		
22	0.68	0.56	0.40	0.08	0.31	1.34	1.68	0.92	0.40	0.28	0.31	0.48		
23	0.68	0.48	0.37	0.10	0.28	1.16	1.40	0.86	0.40	0.28	0.31	0.44		
24	0.68	0.48	0.37	0.08	0.34	1.10	1.34	0.76	0.37	0.37	0.31	0.37		
25	0.68	0.48	0.31	0.08	0.68	0.98	3.17	0.80	0.34	0.37	0.31	0.37		
26	0.72	0.44	0.10	0.09	1.47	0.92	10.88	0.80	0.31	0.37	0.31	0.52		
27	2.42	0.44	0.16	0.13	1.10	0.92	5.70	0.76	0.28	0.37	0.31	0.48		
28	3.62	0.44	0.13	0.09	0.76	0.80	4.90	0.76	0.34	0.37	0.31	1.10		
29	3.80	0.44	0.13	0.34	1.82	0.76	4.16	0.72	0.31	0.37		0.64		
30	2.74	0.44	0.10	0.22	1.10	0.76	3.62	0.68	0.31	0.34		0.60		
31		0.44		0.13	1.68		3.62		0.28	0.34		0.60		
Total	36.50	48.99	11.85	3.60	13.61	57.60	74.78	44.83	14.30	8.02	9.40	12.32	335.80	CMSDAY
Mean	1.22	1.58	0.40	0.12	0.44	1.92	2.41	1.49	0.46	0.26	0.34	0.40	0.92	CMS
Max	3.80	2.82	0.86	0.34	1.82	3.98	10.88	3.71	0.68	0.37	0.37	1.10	10.88	CMS
Min	0.64	0.44	0.10	0.08	0.09	0.76	0.72	0.68	0.28	0.16	0.31	0.28	0.08	CMS
Runoff	3.15	4.23	1.02	0.31	1.18	4.98	6.46	3.87	1.24	0.69	0.81	1.06	29.01	MCM

Momentary Peak 14.14 CMS. at 1.74 m. (A.D.) at 06.00 Hours , on Oct 26, 2008

Runoff Yield 2.51 Liters/Second/Square KM. Momentary Peak Yield 38.53 Liters/Second/Square KM.

WATER YEAR : 2008

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

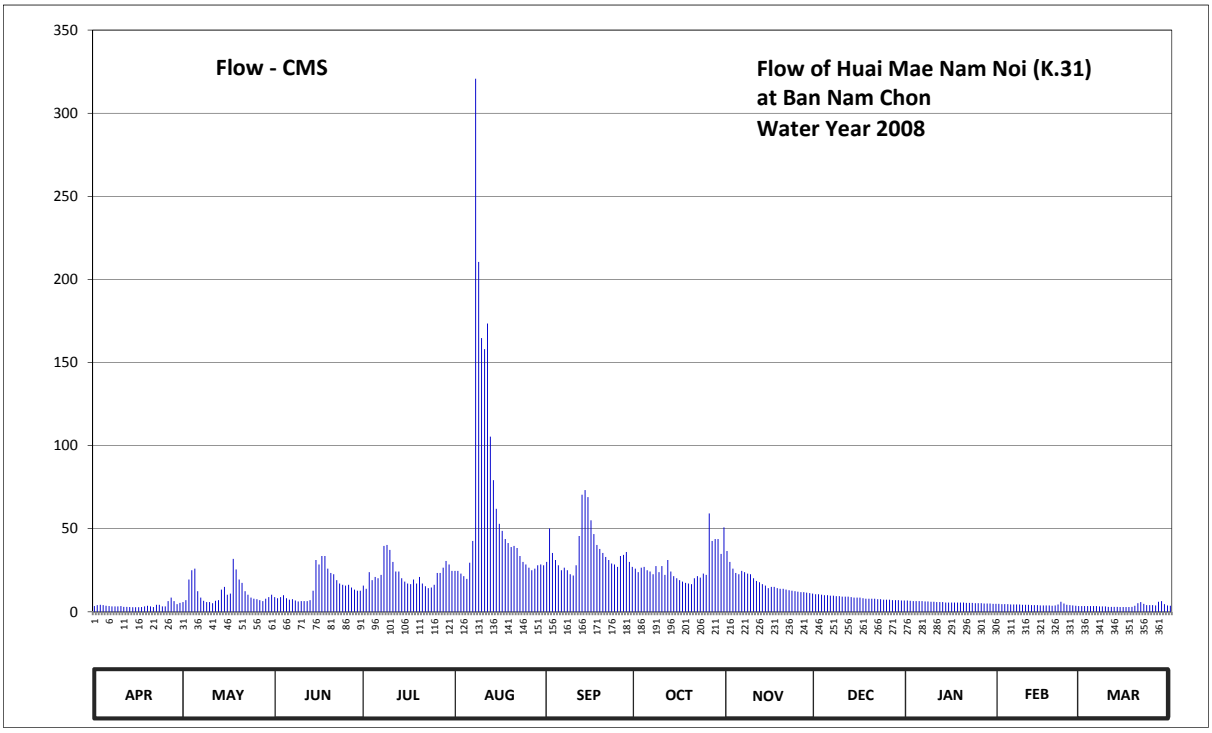
Location : on right bank about 2 kilometers downstream from station K.22A

	Ban Nam Chon	**Amphoe** Sai Yok	**Changwat** Kanchanaburi
Drainge Area	799 sq.km.		
Type of Gage	Water - stage recorder		
Zero Gage at Bottom	+62.720 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 5 meters from the top staff gage.		**Elevation** +70.537 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Float	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 93 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	65.82	65.94	66.06	66.27	66.49	66.60	66.52	66.71	66.12	65.99	65.89	65.82	
2	65.85	66.00	66.04	66.22	66.49	66.93	66.47	66.60	66.12	65.98	65.88	65.82	
3	65.86	66.36	66.06	66.47	66.45	66.69	66.53	66.52	66.11	65.97	65.88	65.82	
4	65.85	66.50	66.10	66.35	66.41	66.62	66.54	66.46	66.10	65.97	65.88	65.82	
5	65.83	66.52	66.04	66.40	66.37	66.56	66.50	66.44	66.10	65.97	65.87	65.82	
6	65.82	66.18	66.01	66.38	66.59	66.50	66.48	66.49	66.09	65.97	65.87	65.82	
7	65.81	66.05	66.02	66.43	66.81	66.53	66.44	66.47	66.09	65.96	65.87	65.81	
8	65.81	65.98	65.99	66.76	69.43	66.50	66.55	66.45	66.08	65.96	65.87	65.81	
9	65.81	65.94	65.96	66.77	68.65	66.44	66.47	66.44	66.08	65.95	65.86	65.81	
10	65.82	65.94	65.97	66.72	68.27	66.42	66.55	66.38	66.07	65.95	65.86	65.80	
11	65.80	65.91	65.97	66.60	68.21	66.56	66.43	66.34	66.07	65.94	65.86	65.80	
12	65.80	65.98	65.97	66.48	68.35	66.86	66.62	66.32	66.07	65.94	65.85	65.80	
13	65.79	66.00	66.00	66.48	67.66	67.22	66.48	66.29	66.06	65.94	65.85	65.80	
14	65.78	66.21	66.19	66.38	67.34	67.26	66.41	66.27	66.05	65.93	65.85	65.79	
15	65.78	66.25	66.62	66.33	67.10	67.20	66.38	66.23	66.05	65.93	65.84	65.79	
16	65.78	66.11	66.57	66.30	66.97	67.00	66.35	66.25	66.05	65.93	65.84	65.79	
17	65.79	66.13	66.66	66.29	66.91	66.88	66.33	66.25	66.04	65.93	65.84	65.79	
18	65.81	66.63	66.66	66.36	66.83	66.77	66.31	66.23	66.03	65.93	65.84	65.80	
19	65.83	66.51	66.52	66.30	66.79	66.73	66.30	66.22	66.03	65.93	65.83	65.83	
20	65.81	66.36	66.46	66.40	66.75	66.69	66.29	66.22	66.03	65.93	65.84	65.91	
21	65.79	66.31	66.44	66.30	66.76	66.65	66.38	66.21	66.03	65.92	65.87	65.94	
22	65.86	66.18	66.35	66.26	66.74	66.62	66.41	66.20	66.02	65.92	65.95	65.89	
23	65.86	66.11	66.30	66.23	66.66	66.58	66.39	66.19	66.02	65.92	65.90	65.85	
24	65.81	66.05	66.28	66.24	66.60	66.57	66.45	66.18	66.01	65.91	65.86	65.85	
25	65.81	66.03	66.27	66.28	66.57	66.54	66.43	66.17	66.01	65.91	65.85	65.85	
26	65.97	66.02	66.28	66.46	66.53	66.66	67.06	66.16	66.01	65.91	65.84	65.84	
27	66.05	66.00	66.24	66.46	66.50	66.67	66.81	66.16	66.00	65.90	65.83	65.95	
28	65.97	65.97	66.21	66.53	66.52	66.70	66.83	66.15	66.00	65.90	65.82	65.97	
29	65.88	66.03	66.19	66.61	66.56	66.60	66.83	66.14	66.00	65.90		65.88	
30	65.92	66.06	66.19	66.57	66.57	66.54	66.68	66.13	65.99	65.89		65.84	
31		66.11		66.49	66.56		66.94		65.99	65.89		65.83	
Mean	65.84	66.14	66.22	66.42	67.01	66.70	66.52	66.31	66.05	65.93	65.86	65.84	
Max	66.05	66.63	66.66	66.77	69.43	67.26	67.06	66.71	66.12	65.99	65.95	65.97	69.43
Min	65.78	65.91	65.96	66.22	66.37	66.42	66.29	66.13	65.99	65.89	65.82	65.79	65.78

Annual Max Momentary Gage Height	70.37	m. (MSL.) ,	at 12.00 Hours , on Aug 8, 2008		
Zero Gage at Bottom Elevation	62.72	m. (MSL.) ,	River Bed	64.77	m. (MSL.)
Left Bank Elevation	77.60	m. (MSL.) ,			
Right Bank Elevation	77.74	m. (MSL.) ,	Drainage Are	799	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.40	5.80	8.80	15.80	24.60	30.00	26.00	36.60	10.60	6.80	4.80	3.40		
2	4.00	7.00	8.20	13.80	24.60	50.10	23.80	30.00	10.60	6.60	4.60	3.40		
3	4.20	19.40	8.80	23.80	23.00	35.40	26.50	26.00	10.30	6.40	4.60	3.40		
4	4.00	25.00	10.00	19.00	21.40	31.20	27.00	23.40	10.00	6.40	4.60	3.40		
5	3.60	26.00	8.20	21.00	19.80	28.00	25.00	22.60	10.00	6.40	4.40	3.40		
6	3.40	12.40	7.30	20.20	29.50	25.00	24.20	24.60	9.70	6.40	4.40	3.40		
7	3.20	8.50	7.60	22.20	42.60	26.50	22.60	23.80	9.70	6.20	4.40	3.20		
8	3.20	6.60	6.80	39.60	320.80	25.00	27.50	23.00	9.40	6.20	4.40	3.20		
9	3.20	5.80	6.20	40.20	210.50	22.60	23.80	22.60	9.40	6.00	4.20	3.20		
10	3.40	5.80	6.40	37.20	164.70	21.80	27.50	20.20	9.10	6.00	4.20	3.00		
11	3.00	5.20	6.40	30.00	158.10	28.00	22.20	18.60	9.10	5.80	4.20	3.00		
12	3.00	6.60	6.40	24.20	173.50	45.60	31.20	17.80	9.10	5.80	4.00	3.00		
13	2.90	7.00	7.00	24.20	105.40	70.40	24.20	16.60	8.80	5.80	4.00	3.00		
14	2.80	13.40	12.70	20.20	79.20	73.20	21.40	15.80	8.50	5.60	4.00	2.90		
15	2.80	15.00	31.20	18.20	62.00	69.00	20.20	14.20	8.50	5.60	3.80	2.90		
16	2.80	10.30	28.50	17.00	52.90	55.00	19.00	15.00	8.50	5.60	3.80	2.90		
17	2.90	10.90	33.60	16.60	48.70	46.80	18.20	15.00	8.20	5.60	3.80	2.90		
18	3.20	31.80	33.60	19.40	43.80	40.20	17.40	14.20	7.90	5.60	3.80	3.00		
19	3.60	25.50	26.00	17.00	41.40	37.80	17.00	13.80	7.90	5.60	3.60	3.60		
20	3.20	19.40	23.40	21.00	39.00	35.40	16.60	13.80	7.90	5.60	3.80	5.20		
21	2.90	17.40	22.60	17.00	39.60	33.00	20.20	13.40	7.90	5.40	4.40	5.80		
22	4.20	12.40	19.00	15.40	38.40	31.20	21.40	13.00	7.60	5.40	6.00	4.80		
23	4.20	10.30	17.00	14.20	33.60	29.00	20.60	12.70	7.60	5.40	5.00	4.00		
24	3.20	8.50	16.20	14.60	30.00	28.50	23.00	12.40	7.30	5.20	4.20	4.00		
25	3.20	7.90	15.80	16.20	28.50	27.00	22.20	12.10	7.30	5.20	4.00	4.00		
26	6.40	7.60	16.20	23.40	26.50	33.60	59.20	11.80	7.30	5.20	3.80	3.80		
27	8.50	7.00	14.60	23.40	25.00	34.20	42.60	11.80	7.00	5.00	3.60	6.00		
28	6.40	6.40	13.40	26.50	26.00	36.00	43.80	11.50	7.00	5.00	3.40	6.40		
29	4.60	7.90	12.70	30.60	28.00	30.00	43.80	11.20	7.00	5.00		4.60		
30	5.40	8.80	12.70	28.50	28.50	27.00	34.80	10.90	6.80	4.80		3.80		
31		10.30		24.60	28.00		50.80		6.80	4.80		3.60		
Total	114.80	371.90	447.30	695.00	2017.60	1106.50	843.70	528.40	262.80	176.40	117.80	116.20	6798.40	CMSDAY
Mean	3.83	12.00	14.91	22.42	65.08	36.88	27.22	17.61	8.48	5.69	4.21	3.75	18.63	CMS
Max	8.50	31.80	33.60	40.20	320.80	73.20	59.20	36.60	10.60	6.80	6.00	6.40	320.80	CMS
Min	2.80	5.20	6.20	13.80	19.80	21.80	16.60	10.90	6.80	4.80	3.40	2.90	2.80	CMS
Runoff	9.92	32.13	38.65	60.05	174.32	95.60	72.90	45.65	22.71	15.24	10.18	10.04	587.38	MCM

Momentary Peak 482.30 CMS. at 70.37 m. (MSL.) at 12.00 Hours , on Aug 8, 2007

Runoff Yield 23.31 Liters/Second/Square KM. Momentary Peak Yield 603.63 Liters/Second/Square KM.

WATER YEAR : 2008

MAE KLONG RIVER BASIN

Huai Bong Ti at Ban Bong Ti , Kanchanaburi (K.32A)

Lat 14 - 16 - 27 N Long 98 - 56 - 04 E

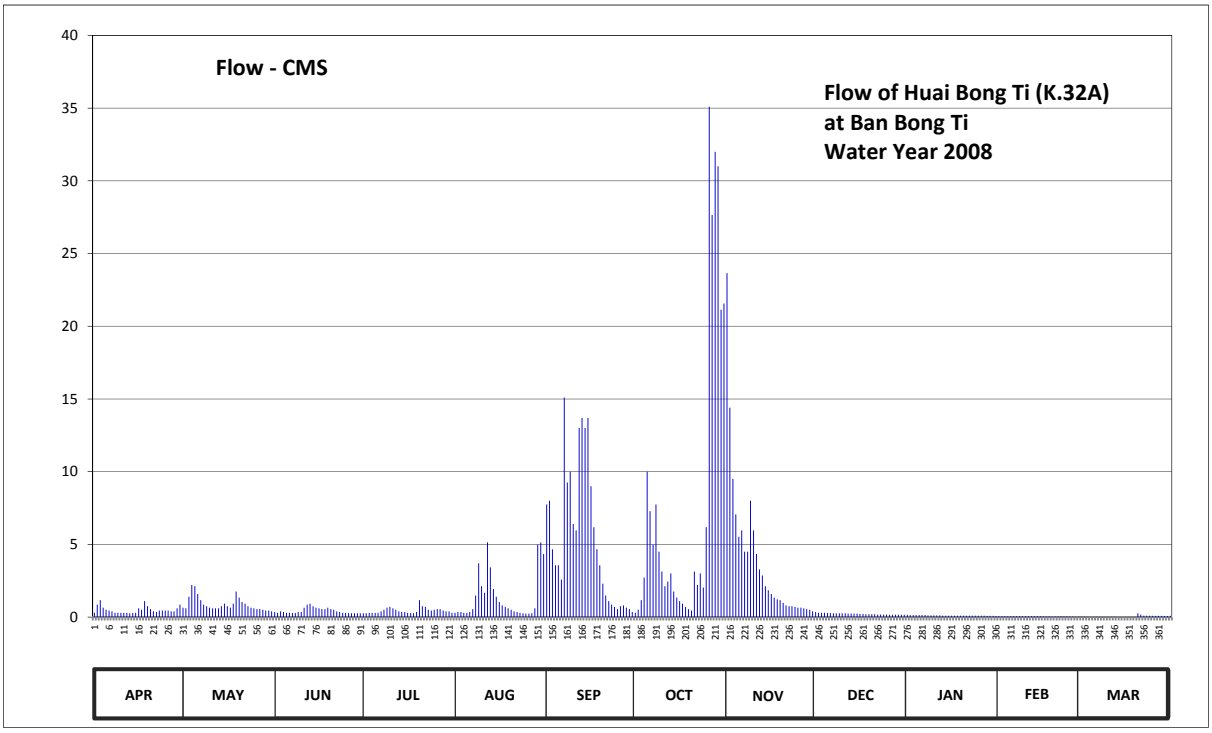
Location : on right bank at Ban Bong Ti.

	Ban Bong Ti	**Amphoe** Sai Yok	**Changwat** Kanchanaburi
Drainge Area	518 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+82.270 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	On right bank about 6.50 meters from the top staff gage.	**Elevation**	+88.323 m. (MSL.)
Gage Reading Frequency	16-time daily readings at 03.00, 06.00 - 18.00, 21.00 and 24.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 16 readings		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Float	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 97 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	82.90	82.97	82.91	82.88	82.90	83.51	82.90	83.98	82.91	82.83	82.77	82.73	
2	83.01	82.96	82.90	82.88	82.91	83.52	82.94	83.74	82.90	82.82	82.77	82.73	
3	83.06	83.10	82.92	82.89	82.91	83.36	83.06	83.58	82.90	82.82	82.77	82.72	
4	82.97	83.19	82.91	82.89	82.90	83.29	83.23	83.48	82.90	82.82	82.77	82.72	
5	82.94	83.18	82.90	82.89	82.89	83.29	83.60	83.41	82.89	82.82	82.77	82.72	
6	82.93	83.12	82.90	82.90	82.91	83.22	83.49	83.43	82.89	82.82	82.77	82.72	
7	82.92	83.06	82.89	82.92	82.95	83.76	83.38	83.35	82.88	82.82	82.77	82.72	
8	82.90	83.01	82.89	82.94	83.11	83.57	83.51	83.35	82.88	82.81	82.77	82.72	
9	82.90	82.99	82.91	82.97	83.30	83.60	83.35	83.52	82.88	82.81	82.77	82.72	
10	82.90	82.97	82.91	82.98	83.18	83.45	83.26	83.43	82.88	82.81	82.77	82.72	
11	82.89	82.96	82.97	82.96	83.13	83.43	83.18	83.34	82.88	82.81	82.77	82.72	
12	82.89	82.96	83.01	82.94	83.39	83.70	83.21	83.27	82.87	82.81	82.77	82.72	
13	82.88	82.96	83.02	82.92	83.28	83.72	83.25	83.24	82.87	82.80	82.76	82.71	
14	82.89	82.99	82.99	82.91	83.16	83.70	83.14	83.18	82.87	82.80	82.76	82.71	
15	82.90	83.02	82.97	82.91	83.10	83.72	83.09	83.15	82.87	82.80	82.76	82.71	
16	82.96	82.99	82.96	82.90	83.04	83.56	83.05	83.12	82.86	82.80	82.75	82.71	
17	82.94	82.97	82.95	82.89	83.00	83.44	83.02	83.09	82.86	82.80	82.75	82.71	
18	83.05	83.02	82.95	82.88	82.98	83.36	82.98	83.07	82.85	82.80	82.75	82.71	
19	82.99	83.14	82.97	82.91	82.96	83.29	82.95	83.06	82.85	82.80	82.74	82.71	
20	82.95	83.09	82.95	83.06	82.94	83.20	82.93	83.03	82.85	82.80	82.74	82.88	
21	82.92	83.04	82.94	82.99	82.92	83.11	83.26	83.00	82.85	82.80	82.75	82.83	
22	82.91	83.02	82.92	82.98	82.91	83.05	83.19	82.99	82.84	82.80	82.76	82.80	
23	82.93	82.99	82.91	82.94	82.90	83.01	83.25	82.99	82.84	82.80	82.75	82.80	
24	82.93	82.97	82.90	82.93	82.88	82.98	83.17	82.98	82.84	82.80	82.75	82.80	
25	82.93	82.96	82.89	82.94	82.87	82.95	83.44	82.97	82.84	82.80	82.74	82.79	
26	82.93	82.95	82.89	82.95	82.87	82.99	84.22	82.97	82.83	82.80	82.74	82.79	
27	82.92	82.95	82.88	82.95	82.88	83.00	84.07	82.96	82.83	82.80	82.73	82.79	
28	82.92	82.94	82.88	82.93	82.96	82.97	84.16	82.95	82.83	82.79	82.73	82.79	
29	82.96	82.93	82.88	82.92	83.38	82.95	84.14	82.94	82.83	82.79		82.78	
30	83.01	82.93	82.88	82.92	83.39	82.91	83.92	82.92	82.83	82.79		82.78	
31		82.92		82.90	83.34		83.93		82.83	82.78		82.79	
Mean	82.94	83.01	82.93	82.93	83.04	83.32	83.36	83.22	82.86	82.80	82.76	82.75	
Max	83.06	83.19	83.02	83.06	83.39	83.76	84.22	83.98	82.91	82.83	82.77	82.88	84.22
Min	82.88	82.92	82.88	82.88	82.87	82.91	82.90	82.92	82.83	82.78	82.73	82.71	82.71

Annual Max Momentary Gage Height	84.42	m. (MSL.) ,	at 13.00 Hours , on Oct 26 , 2008		
Zero Gage at Bottom Elevation	82.27	m. (MSL.) ,	River Bed	82.65	m. (MSL.)
Left Bank Elevation	88.57	m. (MSL.) ,			
Right Bank Elevation	88.23	m. (MSL.) ,	Drainage Are	518	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	0.65	0.35	0.26	0.30	7.75	0.30	23.66	0.35	0.16	0.07	0.03		
2	0.86	0.60	0.30	0.26	0.35	8.00	0.50	14.40	0.30	0.14	0.07	0.03		
3	1.16	1.40	0.40	0.28	0.35	4.66	1.16	9.50	0.30	0.14	0.07	0.02		
4	0.65	2.21	0.35	0.28	0.30	3.56	2.72	7.06	0.30	0.14	0.07	0.02		
5	0.50	2.12	0.30	0.28	0.28	3.56	10.00	5.52	0.28	0.14	0.07	0.02		
6	0.45	1.58	0.30	0.30	0.35	2.58	7.28	5.96	0.28	0.14	0.07	0.02		
7	0.40	1.16	0.28	0.40	0.55	15.10	4.98	4.50	0.26	0.14	0.07	0.02		
8	0.30	0.86	0.28	0.50	1.49	9.25	7.75	4.50	0.26	0.12	0.07	0.02		
9	0.30	0.75	0.35	0.65	3.70	10.00	4.50	8.00	0.26	0.12	0.07	0.02		
10	0.30	0.65	0.35	0.70	2.12	6.40	3.14	5.96	0.26	0.12	0.07	0.02		
11	0.28	0.60	0.65	0.60	1.67	5.96	2.12	4.34	0.26	0.12	0.07	0.02		
12	0.28	0.60	0.86	0.50	5.14	13.00	2.44	3.28	0.24	0.12	0.07	0.02		
13	0.26	0.60	0.92	0.40	3.42	13.70	3.00	2.86	0.24	0.10	0.06	0.01		
14	0.28	0.75	0.75	0.35	1.94	13.00	1.76	2.12	0.24	0.10	0.06	0.01		
15	0.30	0.92	0.65	0.35	1.40	13.70	1.34	1.85	0.24	0.10	0.06	0.01		
16	0.60	0.75	0.60	0.30	1.04	9.00	1.10	1.58	0.22	0.10	0.05	0.01		
17	0.50	0.65	0.55	0.28	0.80	6.18	0.92	1.34	0.22	0.10	0.05	0.01		
18	1.10	0.92	0.55	0.26	0.70	4.66	0.70	1.22	0.20	0.10	0.05	0.01		
19	0.75	1.76	0.65	0.35	0.60	3.56	0.55	1.16	0.20	0.10	0.04	0.01		
20	0.55	1.34	0.55	1.16	0.50	2.30	0.45	0.98	0.20	0.10	0.04	0.26		
21	0.40	1.04	0.50	0.75	0.40	1.49	3.14	0.80	0.20	0.10	0.05	0.16		
22	0.35	0.92	0.40	0.70	0.35	1.10	2.21	0.75	0.18	0.10	0.06	0.10		
23	0.45	0.75	0.35	0.50	0.30	0.86	3.00	0.75	0.18	0.10	0.05	0.10		
24	0.45	0.65	0.30	0.45	0.26	0.70	2.03	0.70	0.18	0.10	0.05	0.10		
25	0.45	0.60	0.28	0.50	0.24	0.55	6.18	0.65	0.18	0.10	0.04	0.09		
26	0.45	0.55	0.28	0.55	0.24	0.75	35.10	0.65	0.16	0.10	0.04	0.09		
27	0.40	0.55	0.26	0.55	0.26	0.80	27.65	0.60	0.16	0.10	0.03	0.09		
28	0.40	0.50	0.26	0.45	0.60	0.65	32.00	0.55	0.16	0.09	0.03	0.09		
29	0.60	0.45	0.26	0.40	4.98	0.55	31.00	0.50	0.16	0.09		0.08		
30	0.86	0.45	0.26	0.40	5.14	0.35	21.14	0.40	0.16	0.09		0.08		
31		0.40		0.30	4.34		21.56		0.16	0.08		0.09		
Total	14.93	27.73	13.14	14.01	44.11	163.72	241.72	116.14	6.99	3.45	1.60	1.66	649.20	CMSDAY
Mean	0.50	0.89	0.44	0.45	1.42	5.46	7.80	3.87	0.23	0.11	0.06	0.05	1.78	CMS
Max	1.16	2.21	0.92	1.16	5.14	15.10	35.10	23.66	0.35	0.16	0.07	0.26	35.10	CMS
Min	0.26	0.40	0.26	0.26	0.24	0.35	0.30	0.40	0.16	0.08	0.03	0.01	0.01	CMS
Runoff	1.29	2.40	1.14	1.21	3.81	14.15	20.88	10.03	0.60	0.30	0.14	0.14	56.09	MCM

Momentary Peak 46.36 CMS. at 84.42 m. (MSL.) at 13.00 Hours , on Oct 26, 2008

Runoff Yield 3.43 Liters/Second/Square KM. Momentary Peak Yield 89.50 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +32.147 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1984 - 1985 , 1987 to date
Rated by Float	-
Rated by Current Meter	1984 - 1985 , 1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Sri Nakarindra Dam. Stage-discharge relation defined by 42 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

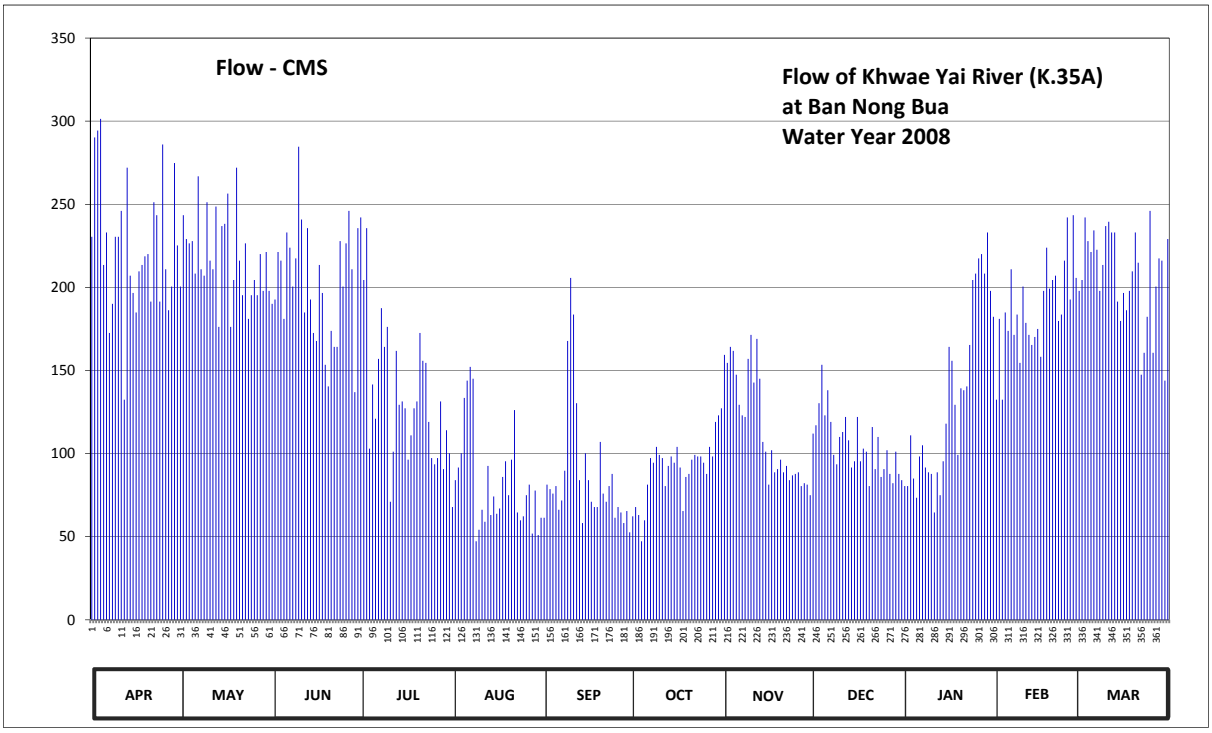
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.68	25.45	25.37	25.77	24.21	24.13	24.14	25.12	24.69	24.36	24.89	25.43	
2	26.13	25.78	25.39	25.48	24.40	24.37	24.21	25.08	24.74	24.36	25.30	25.48	
3	26.16	25.67	25.61	25.72	24.48	24.34	24.15	25.16	24.87	24.68	24.89	25.77	
4	26.21	25.65	25.57	24.60	24.57	24.31	23.95	25.14	25.07	24.41	25.33	25.66	
5	25.55	25.66	25.30	24.97	24.90	24.36	24.11	25.02	24.80	24.28	25.24	25.61	
6	25.70	25.51	25.70	24.78	24.99	24.19	24.37	24.86	24.94	24.55	25.53	25.71	
7	25.23	25.96	25.63	25.10	25.06	24.26	24.54	24.80	24.76	24.62	25.22	25.62	
8	25.37	25.53	25.45	25.35	25.00	24.46	24.51	24.79	24.56	24.48	25.32	25.43	
9	25.68	25.50	25.58	25.16	23.95	25.19	24.61	25.10	24.50	24.45	25.08	25.55	
10	25.68	25.84	26.09	25.26	24.04	25.49	24.56	25.22	24.67	24.44	25.45	25.73	
11	25.80	25.57	25.76	24.25	24.19	25.32	24.54	24.98	24.70	24.17	25.28	25.75	
12	24.89	25.53	25.33	24.58	24.10	24.87	24.36	25.20	24.79	24.45	25.22	25.70	
13	26.00	25.82	25.72	25.14	24.49	24.40	24.49	25.00	24.65	24.30	25.17	25.70	
14	25.50	25.26	25.39	24.86	24.15	24.09	24.55	24.64	24.48	24.52	25.21	25.38	
15	25.42	25.73	25.23	24.88	24.29	24.57	24.51	24.58	24.52	24.75	25.25	25.29	
16	25.33	25.74	25.19	24.84	24.16	24.40	24.61	24.37	24.79	25.16	25.11	25.42	
17	25.52	25.88	25.55	24.53	24.20	24.25	24.48	24.59	24.52	25.09	25.43	25.34	
18	25.55	25.26	25.42	24.68	24.42	24.21	24.18	24.45	24.60	24.86	25.63	25.43	
19	25.59	25.48	25.07	24.84	24.52	24.21	24.42	24.47	24.58	24.56	25.44	25.52	
20	25.60	26.00	24.96	24.88	24.30	24.64	24.44	24.53	24.36	24.95	25.48	25.70	
21	25.38	25.57	25.24	25.23	24.53	24.31	24.53	24.45	24.73	24.94	25.50	25.56	
22	25.84	25.41	25.16	25.09	24.83	24.25	24.56	24.49	24.47	24.96	25.29	25.02	
23	25.78	25.65	25.16	25.08	24.17	24.36	24.55	24.40	24.67	25.17	25.32	25.13	
24	25.38	25.30	25.66	24.76	24.11	24.44	24.55	24.43	24.42	25.48	25.57	25.31	
25	26.10	25.41	25.45	24.54	24.14	24.13	24.51	24.44	24.47	25.51	25.77	25.80	
26	25.53	25.48	25.65	24.50	24.30	24.21	24.44	24.45	24.59	25.58	25.39	25.13	
27	25.34	25.41	25.80	24.54	24.37	24.17	24.61	24.36	24.44	25.60	25.78	25.45	
28	25.45	25.60	25.53	24.88	24.01	24.09	24.55	24.38	24.38	25.51	25.49	25.58	
29	26.02	25.43	24.93	24.47	24.33	24.18	24.76	24.37	24.58	25.70		25.57	
30	25.64	25.61	25.72	24.71	24.00	24.02	24.80	24.30	24.44	25.43		24.99	
31		25.43		24.57	24.13		24.84		24.40	25.31		25.67	
Mean	25.63	25.58	25.45	24.90	24.37	24.41	24.47	24.71	24.62	24.86	25.34	25.50	
Max	26.21	26.00	26.09	25.77	25.06	25.49	24.84	25.22	25.07	25.70	25.78	25.80	26.21
Min	24.89	25.26	24.93	24.25	23.95	24.02	23.95	24.30	24.36	24.17	24.89	24.99	23.95

Annual Max Momentary Gage Height 26.29 m. (MSL.) , at 23.00 Hours , on Apr 4, 2008

Zero Gage at Bottom Elevation 21.50 m. (MSL.) , River Bed 22.47 m. (MSL.) ,

Left Bank Elevation 26.69 m. (MSL.) ,

Right Bank Elevation 30.87 m. (MSL.) , Drainage Are 14,444 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	230.40	200.50	190.10	242.10	67.80	61.40	62.20	159.40	112.00	80.40	132.45	197.90		
2	290.20	243.40	192.70	204.40	84.00	81.30	67.80	154.60	117.00	80.40	181.00	204.40		
3	294.40	229.10	221.30	235.60	91.60	78.60	63.00	164.20	130.35	111.00	132.45	242.10		
4	301.40	226.50	216.10	103.00	100.15	75.90	47.25	161.80	153.40	84.95	184.90	227.80		
5	213.50	227.80	181.00	141.55	133.50	80.40	59.80	147.40	123.00	73.40	173.80	221.30		
6	233.00	208.30	233.00	121.00	143.85	66.20	81.30	129.30	138.10	98.25	210.90	234.30		
7	172.60	266.80	223.90	157.00	152.20	71.80	97.30	123.00	119.00	105.00	171.40	222.60		
8	190.10	210.90	200.50	187.50	145.00	89.70	94.45	122.00	99.20	91.60	183.60	197.90		
9	230.40	207.00	217.40	164.20	47.25	167.80	104.00	157.00	93.50	88.75	154.60	213.50		
10	230.40	251.20	284.60	176.20	54.20	205.70	99.20	171.40	110.00	87.80	200.50	236.90		
11	246.00	216.10	240.80	71.00	66.20	183.60	97.30	142.70	113.00	64.60	178.60	239.50		
12	132.45	210.90	184.90	101.10	59.00	130.35	80.40	169.00	122.00	88.75	171.40	233.00		
13	272.00	248.60	235.60	161.80	92.55	84.00	92.55	145.00	108.00	75.00	165.40	233.00		
14	207.00	176.20	192.70	129.30	63.00	58.20	98.25	107.00	91.60	95.40	170.20	191.40		
15	196.60	236.90	172.60	131.40	74.20	100.15	94.45	101.10	95.40	118.00	175.00	179.80		
16	184.90	238.20	167.80	127.20	63.80	84.00	104.00	81.30	122.00	164.20	158.20	196.60		
17	209.60	256.40	213.50	96.35	67.00	71.00	91.60	102.05	95.40	155.80	197.90	186.20		
18	213.50	176.20	196.60	111.00	85.90	67.80	65.40	88.75	103.00	129.30	223.90	197.90		
19	218.70	204.40	153.40	127.20	95.40	67.80	85.90	90.65	101.10	99.20	199.20	209.60		
20	220.00	272.00	140.40	131.40	75.00	107.00	87.80	96.35	80.40	139.25	204.40	233.00		
21	191.40	216.10	173.80	172.60	96.35	75.90	96.35	88.75	116.00	138.10	207.00	214.80		
22	251.20	195.30	164.20	155.80	126.15	71.00	99.20	92.55	90.65	140.40	179.80	147.40		
23	243.40	226.50	164.20	154.60	64.60	80.40	98.25	84.00	110.00	165.40	183.60	160.60		
24	191.40	181.00	227.80	119.00	59.80	87.80	98.25	86.85	85.90	204.40	216.10	182.30		
25	286.00	195.30	200.50	97.30	62.20	61.40	94.45	87.80	90.65	208.30	242.10	246.00		
26	210.90	204.40	226.50	93.50	75.00	67.80	87.80	88.75	102.05	217.40	192.70	160.60		
27	186.20	195.30	246.00	97.30	81.30	64.60	104.00	80.40	87.80	220.00	243.40	200.50		
28	200.50	220.00	210.90	131.40	51.80	58.20	98.25	82.20	82.20	208.30	205.70	217.40		
29	274.80	197.90	136.95	90.65	77.70	65.40	119.00	81.30	101.10	233.00		216.10		
30	225.20	221.30	235.60	114.00	51.00	52.60	123.00	75.00	87.80	197.90		143.85		
31		197.9		100.15	61.40		127.20		84.00	182.30		229.10		
Total	6748.15	6758.40	6045.35	4246.60	2568.90	2617.80	2819.70	3461.60	3265.60	4146.55	5240.20	6417.35	54336.20	CMSDAY
Mean	224.94	218.01	201.51	136.99	82.87	87.26	90.96	115.39	105.34	133.76	187.15	207.01	148.87	CMS
Max	301.40	272.00	284.60	242.10	152.20	205.70	127.20	171.40	153.40	233.00	243.40	246.00	301.40	CMS
Min	132.45	176.20	136.95	71.00	47.25	52.60	47.25	75.00	80.40	64.60	132.45	143.85	47.25	CMS
Runoff	583.04	583.93	522.32	366.91	221.95	226.18	243.62	299.08	282.15	358.26	452.75	554.46	4694.65	MCM

Momentary Peak 312.60 CMS. at 26.29 m. (MSL.) at 23.00 Hours , on Apr 4, 2008

Runoff Yield 10.31 Liters/Second/Square KM. Momentary Peak Yield 21.64 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings.		
Period of Available Gage Records	1984 to date		
Rating Operation			
Period of Rating	1984 to date		
Rated by Float	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow regulated by Khao Laem Dam.		
	Stage-discharge relation defined by 48 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

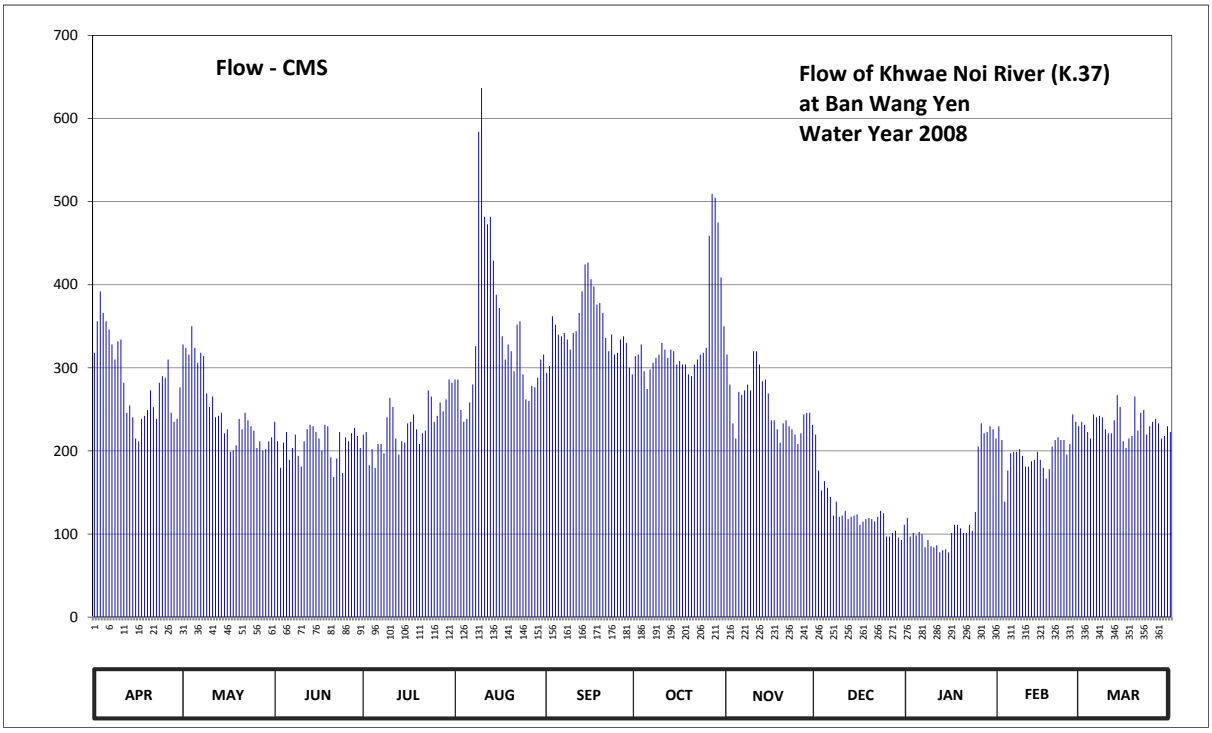
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.69	24.74	24.25	24.16	24.53	24.57	24.67	24.68	24.16	23.51	24.22	24.25	
2	24.88	24.72	24.11	24.18	24.53	24.61	24.68	24.50	23.89	23.35	24.12	24.23	
3	25.06	24.68	23.91	23.93	24.33	24.91	24.74	24.24	23.74	23.38	23.65	24.18	
4	24.93	24.85	24.10	24.05	24.25	24.86	24.58	24.13	23.81	23.36	23.89	24.13	
5	24.88	24.72	24.18	23.91	24.27	24.80	24.47	24.45	23.76	23.39	24.02	24.30	
6	24.83	24.63	23.97	24.09	24.38	24.79	24.59	24.43	23.69	23.37	24.03	24.28	
7	24.74	24.69	24.06	24.09	24.50	24.81	24.63	24.46	23.53	23.25	24.03	24.29	
8	24.65	24.67	24.16	24.02	24.73	24.77	24.66	24.50	23.65	23.32	24.05	24.28	
9	24.76	24.44	24.00	24.28	25.90	24.71	24.68	24.46	23.52	23.26	24.00	24.20	
10	24.77	24.35	23.92	24.41	26.12	24.81	24.75	24.70	23.53	23.25	23.92	24.17	
11	24.51	24.42	24.11	24.35	25.46	24.82	24.71	24.70	23.57	23.27	23.92	24.17	
12	24.31	24.28	24.20	24.13	25.42	24.93	24.66	24.62	23.50	23.20	23.96	24.26	
13	24.36	24.29	24.23	24.01	25.46	25.06	24.71	24.52	23.52	23.22	23.97	24.43	
14	24.28	24.31	24.22	24.11	25.23	25.21	24.70	24.53	23.53	23.23	24.03	24.35	
15	24.13	24.17	24.18	24.10	25.04	25.22	24.62	24.44	23.54	23.20	23.97	24.11	
16	24.11	24.20	24.13	24.24	24.96	25.13	24.64	24.26	23.45	23.38	23.91	24.06	
17	24.27	24.03	24.04	24.25	24.79	25.09	24.62	24.26	23.48	23.45	23.83	24.13	
18	24.29	24.04	24.23	24.30	24.65	24.98	24.62	24.20	23.50	23.45	23.90	24.15	
19	24.33	24.08	24.22	24.20	24.74	24.99	24.56	24.10	23.51	23.42	24.07	24.42	
20	24.46	24.27	23.99	24.09	24.70	24.93	24.55	24.24	23.50	23.38	24.12	24.19	
21	24.35	24.20	23.84	24.17	24.58	24.78	24.62	24.26	23.48	23.38	24.14	24.31	
22	24.27	24.31	23.98	24.19	24.86	24.70	24.65	24.22	23.52	23.45	24.12	24.33	
23	24.51	24.26	24.18	24.46	24.88	24.80	24.68	24.20	23.57	23.40	24.12	24.16	
24	24.55	24.22	23.87	24.42	24.56	24.68	24.69	24.16	23.55	23.56	24.01	24.22	
25	24.54	24.19	24.14	24.25	24.40	24.69	24.72	24.09	23.35	24.07	24.09	24.25	
26	24.65	24.06	24.11	24.29	24.39	24.77	25.36	24.17	23.35	24.24	24.30	24.27	
27	24.31	24.11	24.17	24.38	24.49	24.79	25.58	24.30	23.38	24.17	24.25	24.24	
28	24.25	24.04	24.21	24.32	24.48	24.75	25.56	24.31	23.40	24.18	24.22	24.13	
29	24.27	24.05	24.15	24.40	24.54	24.60	25.43	24.31	23.34	24.22		24.15	
30	24.48	24.11	24.06	24.53	24.65	24.56	25.14	24.23	23.32	24.20		24.22	
31		24.14		24.51	24.68		24.85		23.45	24.13		24.18	
Mean	24.51	24.33	24.10	24.22	24.79	24.84	24.78	24.36	23.55	23.54	24.03	24.23	
Max	25.06	24.85	24.25	24.53	26.12	25.22	25.58	24.70	24.16	24.24	24.30	24.43	26.12
Min	24.11	24.03	23.84	23.91	24.25	24.56	24.47	24.09	23.32	23.20	23.65	24.06	23.20

Annual Max Momentary Gage Height 26.42 m. (MSL.) , at 02.00 Hours , on Aug 10, 2008

Zero Gage at Bottom Elevation 19.84 m. (MSL.) , River Bed 19.60 m. (MSL.)

Left Bank Elevation 26.82 m. (MSL.) ,

Right Bank Elevation 31.56 m. (MSL.) , Drainage Are 10,557 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	318.00	328.00	235.00	219.60	286.00	294.00	314.00	316.00	219.60	119.40	229.60	235.00		
2	356.00	324.00	211.60	222.80	286.00	302.00	316.00	280.00	176.40	97.00	213.20	231.40		
3	392.00	316.00	179.60	182.80	249.40	362.00	328.00	233.20	152.40	101.20	139.00	222.80		
4	366.00	350.00	210.00	202.00	235.00	352.00	296.00	214.80	163.60	98.40	176.40	214.80		
5	356.00	324.00	222.80	179.60	238.60	340.00	274.60	271.00	155.60	102.60	197.20	244.00		
6	346.00	306.00	189.20	208.40	258.40	338.00	298.00	267.40	144.60	99.80	198.80	240.40		
7	328.00	318.00	203.60	208.40	280.00	342.00	306.00	272.80	122.20	84.00	198.80	242.20		
8	310.00	314.00	219.60	197.20	326.00	334.00	312.00	280.00	139.00	92.80	202.00	240.40		
9	332.00	269.20	194.00	240.40	584.00	322.00	316.00	272.80	120.80	85.20	194.00	226.00		
10	334.00	253.00	181.20	263.80	636.80	342.00	330.00	320.00	122.20	84.00	181.20	221.20		
11	282.00	265.60	211.60	253.00	481.80	344.00	322.00	320.00	127.80	86.40	181.20	221.20		
12	245.80	240.40	226.00	214.80	472.60	366.00	312.00	304.00	118.00	78.00	187.60	236.80		
13	254.80	242.20	231.40	195.60	481.80	392.00	322.00	284.00	120.80	80.40	189.20	267.40		
14	240.40	245.80	229.60	211.60	428.90	424.30	320.00	286.00	122.20	81.60	198.80	253.00		
15	214.80	221.20	222.80	210.00	388.00	426.60	304.00	269.20	123.60	78.00	189.20	211.60		
16	211.60	226.00	214.80	233.20	372.00	406.60	308.00	236.80	111.00	101.20	179.60	203.60		
17	238.60	198.80	200.40	235.00	338.00	398.00	304.00	236.80	115.20	111.00	166.80	214.80		
18	242.20	200.40	231.40	244.00	310.00	376.00	304.00	226.00	118.00	111.00	178.00	218.00		
19	249.40	206.80	229.60	226.00	328.00	378.00	292.00	210.00	119.40	106.80	205.20	265.60		
20	272.80	238.60	192.40	208.40	320.00	366.00	290.00	233.20	118.00	101.20	213.20	224.40		
21	253.00	226.00	168.40	221.20	296.00	336.00	304.00	236.80	115.20	101.20	216.40	245.80		
22	238.60	245.80	190.80	224.40	352.00	320.00	310.00	229.60	120.80	111.00	213.20	249.40		
23	282.00	236.80	222.80	272.80	356.00	340.00	316.00	226.00	127.80	104.00	213.20	219.60		
24	290.00	229.60	173.20	265.60	292.00	316.00	318.00	219.60	125.00	126.40	195.60	229.60		
25	288.00	224.40	216.40	235.00	262.00	318.00	324.00	208.40	97.00	205.20	208.40	235.00		
26	310.00	203.60	211.60	242.20	260.20	334.00	458.80	221.20	97.00	233.20	244.00	238.60		
27	245.80	211.60	221.20	258.40	278.20	338.00	509.40	244.00	101.20	221.20	235.00	233.20		
28	235.00	200.40	227.80	247.60	276.40	330.00	504.80	245.80	104.00	222.80	229.60	214.80		
29	238.60	202.00	218.00	262.00	288.00	300.00	474.90	245.80	95.60	229.60		218.00		
30	276.40	211.60	203.60	286.00	310.00	292.00	408.80	231.40	92.80	226.00		229.60		
31		216.40		282.00	316.00		350.00		111.00	214.80		222.80		
Total	8547.80	7796.20	6290.40	7153.80	10588.10	10429.50	10447.30	7642.60	3897.80	3895.40	5574.40	7171.00	89434.30	CMSDAY
Mean	284.93	251.49	209.68	230.77	341.55	347.65	337.01	254.75	125.74	125.66	199.09	231.32	245.03	CMS
Max	392.00	350.00	235.00	286.00	636.80	426.60	509.40	320.00	219.60	233.20	244.00	267.40	636.80	CMS
Min	211.60	198.80	168.40	179.60	235.00	292.00	274.60	208.40	92.80	78.00	139.00	203.60	78.00	CMS
Runoff	738.53	673.59	543.49	618.09	914.81	901.11	902.65	660.32	336.77	336.56	481.63	619.57	7727.12	MCM

Momentary Peak 713.20 CMS. at 26.42 m. (MSL.) at 02.00 Hours , on Aug 10, 2008

Runoff Yield 23.21 Liters/Second/Square KM. Momentary Peak Yield 67.56 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings.
Period of Available Gage Records	2001 to date
Rating Operation	
Period of Rating	2001 to date
Rated by Float	-
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 42 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

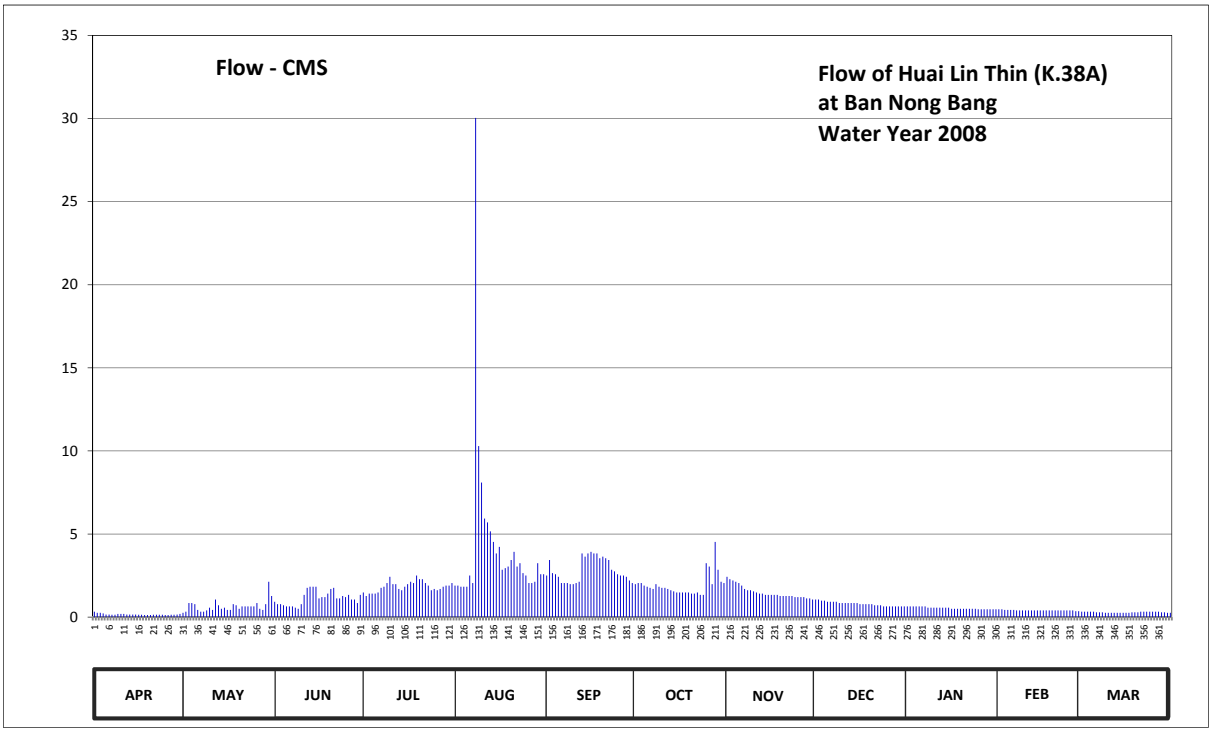
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	90.55	90.53	90.66	90.74	90.80	90.88	90.81	90.87	90.68	90.62	90.59	90.55	
2	90.53	90.55	90.64	90.71	90.80	90.98	90.82	90.85	90.68	90.62	90.59	90.55	
3	90.53	90.65	90.64	90.73	90.79	90.90	90.82	90.84	90.67	90.62	90.58	90.55	
4	90.52	90.65	90.63	90.73	90.79	90.89	90.80	90.83	90.67	90.62	90.58	90.55	
5	90.50	90.64	90.62	90.73	90.79	90.87	90.79	90.82	90.66	90.62	90.58	90.55	
6	90.50	90.58	90.62	90.74	90.88	90.82	90.78	90.80	90.66	90.62	90.58	90.54	
7	90.49	90.55	90.62	90.78	90.82	90.82	90.77	90.77	90.66	90.62	90.57	90.54	
8	90.49	90.55	90.61	90.79	92.56	90.82	90.81	90.76	90.66	90.61	90.57	90.54	
9	90.51	90.57	90.60	90.82	91.56	90.81	90.79	90.76	90.65	90.61	90.57	90.53	
10	90.51	90.61	90.64	90.87	91.40	90.81	90.78	90.75	90.65	90.61	90.57	90.53	
11	90.51	90.58	90.72	90.81	91.22	90.82	90.78	90.74	90.65	90.61	90.57	90.53	
12	90.50	90.68	90.78	90.81	91.20	90.83	90.77	90.73	90.65	90.61	90.57	90.53	
13	90.50	90.63	90.79	90.77	91.15	91.02	90.76	90.73	90.65	90.61	90.57	90.53	
14	90.50	90.60	90.79	90.76	91.09	91.00	90.75	90.72	90.65	90.61	90.57	90.53	
15	90.50	90.61	90.79	90.79	91.02	91.02	90.74	90.72	90.65	90.61	90.57	90.53	
16	90.49	90.58	90.69	90.81	91.06	91.03	90.74	90.72	90.64	90.60	90.57	90.53	
17	90.49	90.58	90.70	90.83	90.92	91.02	90.74	90.72	90.64	90.60	90.57	90.53	
18	90.48	90.64	90.70	90.82	90.93	91.02	90.74	90.72	90.64	90.60	90.57	90.54	
19	90.48	90.63	90.73	90.88	90.94	90.99	90.74	90.71	90.64	90.60	90.57	90.54	
20	90.48	90.60	90.77	90.85	90.98	91.00	90.73	90.71	90.64	90.60	90.57	90.54	
21	90.49	90.62	90.78	90.85	91.03	90.99	90.73	90.71	90.63	90.60	90.57	90.55	
22	90.49	90.62	90.69	90.82	90.94	90.98	90.74	90.71	90.63	90.60	90.57	90.55	
23	90.49	90.62	90.69	90.80	90.96	90.92	90.72	90.71	90.63	90.60	90.57	90.55	
24	90.49	90.62	90.71	90.76	90.90	90.91	90.72	90.70	90.62	90.60	90.57	90.55	
25	90.48	90.62	90.70	90.77	90.88	90.89	90.96	90.70	90.62	90.59	90.57	90.55	
26	90.48	90.65	90.72	90.76	90.82	90.88	90.94	90.70	90.62	90.59	90.57	90.55	
27	90.49	90.60	90.68	90.77	90.82	90.88	90.81	90.70	90.62	90.59	90.56	90.55	
28	90.49	90.58	90.68	90.79	90.83	90.87	91.09	90.69	90.62	90.59	90.56	90.54	
29	90.50	90.64	90.65	90.80	90.96	90.84	90.92	90.69	90.62	90.59		90.54	
30	90.51	90.83	90.72	90.80	90.89	90.82	90.83	90.68	90.62	90.59		90.53	
31		90.71		90.82	90.89		90.82		90.62	90.59		90.53	
Mean	90.50	90.62	90.69	90.79	91.02	90.91	90.80	90.74	90.64	90.60	90.57	90.54	
Max	90.55	90.83	90.79	90.88	92.56	91.03	91.09	90.87	90.68	90.62	90.59	90.55	92.56
Min	90.48	90.53	90.60	90.71	90.79	90.81	90.72	90.68	90.62	90.59	90.56	90.53	90.48

Annual Max Momentary Gage Height 92.72 m. (MSL.) , at 06.00 Hours , on Aug 8, 2008

Zero Gage at Bottom Elevation 90.02 m. (MSL.) , River Bed 90.34 m. (MSL.)

Left Bank Elevation 95.41 m. (MSL.) ,

Right Bank Elevation 95.41 m. (MSL.) , Drainage Are 122 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.33	0.26	0.92	1.48	1.90	2.50	1.98	2.43	1.06	0.64	0.47	0.33		
2	0.26	0.33	0.78	1.27	1.90	3.44	2.05	2.28	1.06	0.64	0.47	0.33		
3	0.26	0.85	0.78	1.41	1.83	2.65	2.05	2.20	0.99	0.64	0.43	0.33		
4	0.22	0.85	0.71	1.41	1.83	2.58	1.90	2.13	0.99	0.64	0.43	0.33		
5	0.15	0.78	0.64	1.41	1.83	2.43	1.83	2.05	0.92	0.64	0.43	0.33		
6	0.15	0.43	0.64	1.48	2.50	2.05	1.76	1.90	0.92	0.64	0.43	0.29		
7	0.14	0.33	0.64	1.76	2.05	2.05	1.69	1.69	0.92	0.64	0.40	0.29		
8	0.14	0.33	0.57	1.83	30.04	2.05	1.98	1.62	0.92	0.57	0.40	0.29		
9	0.19	0.40	0.50	2.05	10.29	1.98	1.83	1.62	0.85	0.57	0.40	0.26		
10	0.19	0.57	0.78	2.43	8.10	1.98	1.76	1.55	0.85	0.57	0.40	0.26		
11	0.19	0.43	1.34	1.98	5.93	2.05	1.76	1.48	0.85	0.57	0.40	0.26		
12	0.15	1.06	1.76	1.98	5.70	2.13	1.69	1.41	0.85	0.57	0.40	0.26		
13	0.15	0.71	1.83	1.69	5.16	3.83	1.62	1.41	0.85	0.57	0.40	0.26		
14	0.15	0.50	1.83	1.62	4.52	3.64	1.55	1.34	0.85	0.57	0.40	0.26		
15	0.15	0.57	1.83	1.83	3.83	3.83	1.48	1.34	0.85	0.57	0.40	0.26		
16	0.14	0.43	1.13	1.98	4.23	3.93	1.48	1.34	0.78	0.50	0.40	0.26		
17	0.14	0.43	1.20	2.13	2.85	3.83	1.48	1.34	0.78	0.50	0.40	0.26		
18	0.12	0.78	1.20	2.05	2.95	3.83	1.48	1.34	0.78	0.50	0.40	0.29		
19	0.12	0.71	1.41	2.50	3.04	3.54	1.48	1.27	0.78	0.50	0.40	0.29		
20	0.12	0.50	1.69	2.28	3.44	3.64	1.41	1.27	0.78	0.50	0.40	0.29		
21	0.14	0.64	1.76	2.28	3.93	3.54	1.41	1.27	0.71	0.50	0.40	0.33		
22	0.14	0.64	1.13	2.05	3.04	3.44	1.48	1.27	0.71	0.50	0.40	0.33		
23	0.14	0.64	1.13	1.90	3.24	2.85	1.34	1.27	0.71	0.50	0.40	0.33		
24	0.14	0.64	1.27	1.62	2.65	2.75	1.34	1.20	0.64	0.50	0.40	0.33		
25	0.12	0.64	1.20	1.69	2.50	2.58	3.24	1.20	0.64	0.47	0.40	0.33		
26	0.12	0.85	1.34	1.62	2.05	2.50	3.04	1.20	0.64	0.47	0.40	0.33		
27	0.14	0.50	1.06	1.69	2.05	2.50	1.98	1.20	0.64	0.47	0.36	0.33		
28	0.14	0.43	1.06	1.83	2.13	2.43	4.52	1.13	0.64	0.47	0.36	0.29		
29	0.15	0.78	0.85	1.90	3.24	2.20	2.85	1.13	0.64	0.47		0.29		
30	0.19	2.13	1.34	1.90	2.58	2.05	2.13	1.06	0.64	0.47		0.26		
31		1.27		2.05	2.58		2.05		0.64	0.47		0.26		
Total	4.88	20.41	34.32	57.10	133.91	84.80	59.64	44.94	24.88	16.83	11.38	9.14	502.23	CMSDAY
Mean	0.16	0.66	1.14	1.84	4.32	2.83	1.92	1.50	0.80	0.54	0.41	0.29	1.38	CMS
Max	0.33	2.13	1.83	2.50	30.04	3.93	4.52	2.43	1.06	0.64	0.47	0.33	30.04	CMS
Min	0.12	0.26	0.50	1.27	1.83	1.98	1.34	1.06	0.64	0.47	0.36	0.26	0.12	CMS
Runoff	0.42	1.76	2.97	4.93	11.57	7.33	5.15	3.88	2.15	1.45	0.98	0.79	43.39	MCM

Momentary Peak 34.14 CMS. at 92.72 m. (MSL.) at 06.00 Hours , on Aug 8, 2008

Runoff Yield 11.28 Liters/Second/Square KM. Momentary Peak Yield 279.84 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1985 - 1990 , 1996 to date
Rated by Float	-
Rated by Current Meter	1985 - 1990 , 1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 42 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

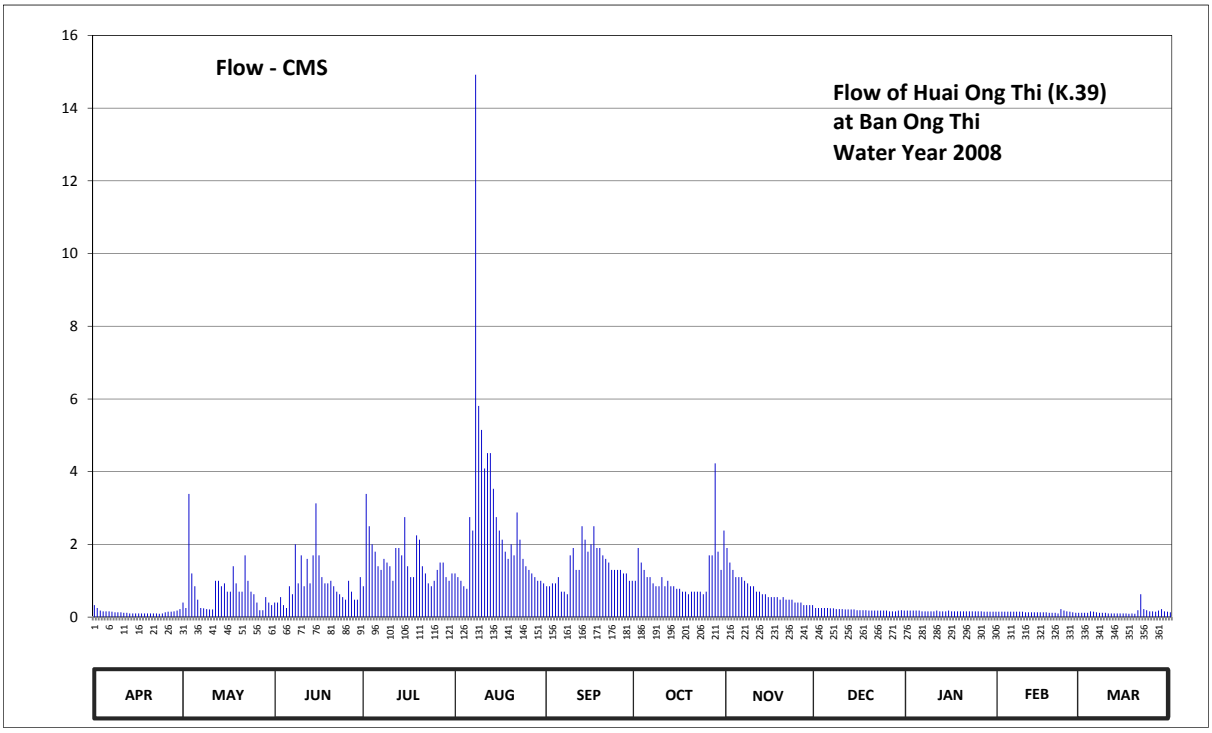
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	82.11	82.12	82.12	82.18	82.22	82.18	82.20	82.29	82.10	82.05	82.03	82.01	
2	82.10	82.10	82.12	82.41	82.21	82.18	82.29	82.25	82.10	82.05	82.03	82.01	
3	82.05	82.41	82.14	82.34	82.20	82.19	82.25	82.23	82.10	82.05	82.03	82.01	
4	82.04	82.22	82.11	82.30	82.18	82.19	82.23	82.21	82.10	82.05	82.03	82.04	
5	82.04	82.18	82.10	82.28	82.17	82.21	82.21	82.21	82.10	82.05	82.03	82.03	
6	82.04	82.13	82.18	82.24	82.36	82.16	82.21	82.21	82.09	82.04	82.03	82.02	
7	82.03	82.10	82.15	82.23	82.33	82.16	82.19	82.20	82.09	82.04	82.03	82.01	
8	82.02	82.09	82.30	82.26	82.97	82.15	82.18	82.19	82.08	82.04	82.03	82.01	
9	82.02	82.08	82.19	82.25	82.57	82.27	82.18	82.18	82.08	82.04	82.03	82.01	
10	82.02	82.07	82.27	82.24	82.53	82.29	82.21	82.18	82.08	82.04	82.02	82.00	
11	82.01	82.07	82.18	82.20	82.46	82.23	82.18	82.16	82.07	82.05	82.02	82.00	
12	82.01	82.20	82.26	82.29	82.49	82.23	82.20	82.16	82.07	82.04	82.02	82.00	
13	82.00	82.20	82.19	82.29	82.49	82.34	82.18	82.15	82.07	82.04	82.02	82.00	
14	82.00	82.18	82.27	82.27	82.42	82.31	82.18	82.15	82.07	82.04	82.02	82.00	
15	82.00	82.19	82.39	82.36	82.36	82.28	82.17	82.14	82.06	82.05	82.02	82.00	
16	82.00	82.16	82.27	82.24	82.33	82.30	82.17	82.14	82.06	82.04	82.02	82.00	
17	82.00	82.16	82.21	82.21	82.31	82.34	82.16	82.14	82.06	82.04	82.02	81.99	
18	82.00	82.24	82.19	82.21	82.28	82.29	82.16	82.14	82.06	82.04	82.01	82.00	
19	82.00	82.19	82.19	82.32	82.26	82.29	82.15	82.13	82.05	82.04	82.01	81.99	
20	82.00	82.16	82.20	82.31	82.30	82.27	82.16	82.14	82.05	82.04	82.01	82.06	
21	82.00	82.16	82.18	82.24	82.27	82.26	82.16	82.13	82.05	82.04	82.00	82.15	
22	82.00	82.27	82.16	82.22	82.37	82.25	82.16	82.13	82.05	82.04	82.08	82.08	
23	81.99	82.20	82.15	82.19	82.31	82.23	82.16	82.13	82.05	82.04	82.05	82.06	
24	82.00	82.16	82.14	82.18	82.26	82.23	82.15	82.12	82.05	82.04	82.04	82.04	
25	82.02	82.15	82.13	82.20	82.24	82.23	82.16	82.12	82.05	82.04	82.03	82.04	
26	82.03	82.12	82.20	82.23	82.23	82.23	82.27	82.12	82.04	82.04	82.02	82.03	
27	82.03	82.06	82.16	82.25	82.22	82.22	82.27	82.11	82.04	82.03	82.01	82.05	
28	82.04	82.06	82.13	82.25	82.21	82.22	82.47	82.11	82.04	82.03	82.01	82.08	
29	82.05	82.14	82.13	82.21	82.20	82.20	82.28	82.11	82.05	82.03		82.04	
30	82.08	82.12	82.21	82.20	82.20	82.20	82.23	82.11	82.06	82.03		82.03	
31		82.11		82.22	82.19		82.33		82.05	82.03		82.02	
Mean	82.02	82.15	82.19	82.25	82.33	82.24	82.21	82.16	82.07	82.04	82.03	82.03	
Max	82.11	82.41	82.39	82.41	82.97	82.34	82.47	82.29	82.10	82.05	82.08	82.15	82.97
Min	81.99	82.06	82.10	82.18	82.17	82.15	82.15	82.11	82.04	82.03	82.00	81.99	81.99

Annual Max Momentary Gage Height 83.18 m. (MSL.) , at 06.00 Hours , on Aug 8, 2008

Zero Gage at Bottom Elevation 81.78 m. (MSL.) , River Bed 81.64 m. (MSL.)

Left Bank Elevation 88.97 m. (MSL.) ,

Right Bank Elevation 90.17 m. (MSL.) , Drainage Are 51 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.33	0.40	0.40	0.85	1.20	0.85	1.00	1.90	0.25	0.18	0.15	0.12		
2	0.25	0.25	0.40	3.39	1.10	0.85	1.90	1.50	0.25	0.18	0.15	0.12		
3	0.18	3.39	0.55	2.50	1.00	0.93	1.50	1.30	0.25	0.18	0.15	0.12		
4	0.16	1.20	0.33	2.00	0.85	0.93	1.30	1.10	0.25	0.18	0.15	0.16		
5	0.16	0.85	0.25	1.80	0.78	1.10	1.10	1.10	0.25	0.18	0.15	0.15		
6	0.16	0.48	0.85	1.40	2.75	0.70	1.10	1.10	0.24	0.16	0.15	0.13		
7	0.15	0.25	0.63	1.30	2.38	0.70	0.93	1.00	0.24	0.16	0.15	0.12		
8	0.13	0.24	2.00	1.60	14.92	0.63	0.85	0.93	0.22	0.16	0.15	0.12		
9	0.13	0.22	0.93	1.50	5.81	1.70	0.85	0.85	0.22	0.16	0.15	0.12		
10	0.13	0.21	1.70	1.40	5.15	1.90	1.10	0.85	0.22	0.16	0.13	0.10		
11	0.12	0.21	0.85	1.00	4.09	1.30	0.85	0.70	0.21	0.18	0.13	0.10		
12	0.12	1.00	1.60	1.90	4.51	1.30	1.00	0.70	0.21	0.16	0.13	0.10		
13	0.10	1.00	0.93	1.90	4.51	2.50	0.85	0.63	0.21	0.16	0.13	0.10		
14	0.10	0.85	1.70	1.70	3.53	2.13	0.85	0.63	0.21	0.16	0.13	0.10		
15	0.10	0.93	3.13	2.75	2.75	1.80	0.78	0.55	0.19	0.18	0.13	0.10		
16	0.10	0.70	1.70	1.40	2.38	2.00	0.78	0.55	0.19	0.16	0.13	0.10		
17	0.10	0.70	1.10	1.10	2.13	2.50	0.70	0.55	0.19	0.16	0.13	0.09		
18	0.10	1.40	0.93	1.10	1.80	1.90	0.70	0.55	0.19	0.16	0.12	0.10		
19	0.10	0.93	0.93	2.25	1.60	1.90	0.63	0.48	0.18	0.16	0.12	0.09		
20	0.10	0.70	1.00	2.13	2.00	1.70	0.70	0.55	0.18	0.16	0.12	0.19		
21	0.10	0.70	0.85	1.40	1.70	1.60	0.70	0.48	0.18	0.16	0.10	0.63		
22	0.10	1.70	0.70	1.20	2.88	1.50	0.70	0.48	0.18	0.16	0.22	0.22		
23	0.09	1.00	0.63	0.93	2.13	1.30	0.70	0.48	0.18	0.16	0.18	0.19		
24	0.10	0.70	0.55	0.85	1.60	1.30	0.63	0.40	0.18	0.16	0.16	0.16		
25	0.13	0.63	0.48	1.00	1.40	1.30	0.70	0.40	0.18	0.16	0.15	0.16		
26	0.15	0.40	1.00	1.30	1.30	1.30	1.70	0.40	0.16	0.16	0.13	0.15		
27	0.15	0.19	0.70	1.50	1.20	1.20	1.70	0.33	0.16	0.15	0.12	0.18		
28	0.16	0.19	0.48	1.50	1.10	1.20	4.23	0.33	0.16	0.15	0.12	0.22		
29	0.18	0.55	0.48	1.10	1.00	1.00	1.80	0.33	0.18	0.15		0.16		
30	0.22	0.40	1.10	1.00	1.00	1.00	1.30	0.33	0.19	0.15		0.15		
31		0.33		1.20	0.93		2.38		0.18	0.15		0.13		
Total	4.20	22.70	28.88	47.95	81.48	42.02	36.01	21.48	6.28	5.05	3.93	4.68	304.66	CMSDAY
Mean	0.14	0.73	0.96	1.55	2.63	1.40	1.16	0.72	0.20	0.16	0.14	0.15	0.83	CMS
Max	0.33	3.39	3.13	3.39	14.92	2.50	4.23	1.90	0.25	0.18	0.22	0.63	14.92	CMS
Min	0.09	0.19	0.25	0.85	0.78	0.63	0.63	0.33	0.16	0.15	0.10	0.09	0.09	CMS
Runoff	0.36	1.96	2.50	4.14	7.04	3.63	3.11	1.86	0.54	0.44	0.34	0.40	26.32	MCM

Momentary Peak 21.68 CMS. at 83.18 m. (MSL.) at 06.00 Hours , on Aug 8, 2008

Runoff Yield 16.37 Liters/Second/Square KM. Momentary Peak Yield 425.10 Liters/Second/Square KM.

WATER YEAR : 2008

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.

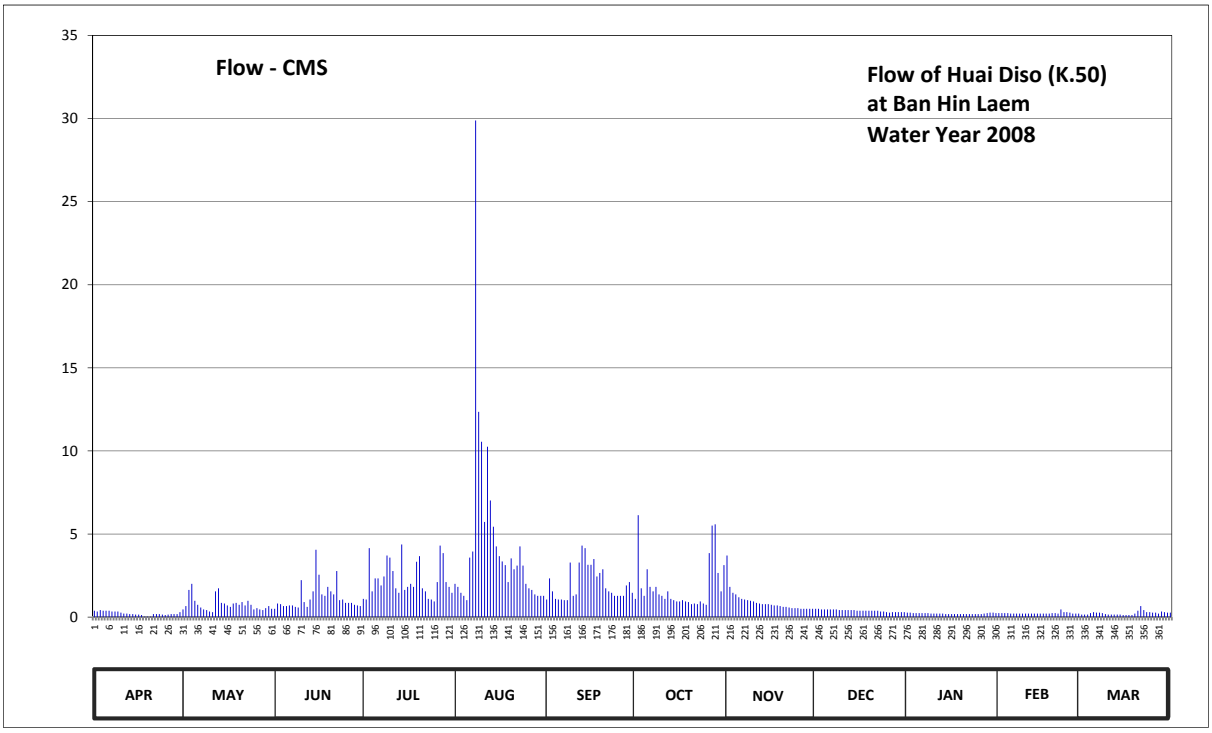
Ban Hin Laem **Amphoe** Thong Pha Phum **Changwat** Kanchanaburi

Drainge 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 mean of 5 readings
Period of Available Gage Records	1986 to date
Rating Operation	
Period of Rating	1987 , 1996 to date
Rated by Float	-
Rated by Current Meter	1987, 1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 42 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	80.52	80.54	80.55	80.70	80.80	80.69	80.70	81.08	80.55	80.49	80.48	80.45	
2	80.51	80.59	80.63	80.69	80.78	80.83	81.46	80.78	80.55	80.49	80.48	80.45	
3	80.53	80.76	80.62	81.17	80.74	80.75	80.77	80.74	80.54	80.48	80.48	80.45	
4	80.52	80.80	80.59	80.75	80.72	80.70	80.72	80.73	80.54	80.48	80.48	80.48	
5	80.52	80.67	80.59	80.83	80.68	80.69	80.88	80.71	80.54	80.48	80.47	80.50	
6	80.52	80.61	80.60	80.83	81.05	80.69	80.78	80.70	80.54	80.48	80.47	80.49	
7	80.51	80.57	80.60	80.79	81.13	80.68	80.75	80.69	80.54	80.48	80.47	80.49	
8	80.51	80.54	80.58	80.84	82.52	80.68	80.78	80.68	80.54	80.48	80.47	80.48	
9	80.51	80.53	80.57	81.08	81.96	80.97	80.73	80.67	80.53	80.47	80.47	80.46	
10	80.49	80.51	80.82	81.05	81.85	80.72	80.72	80.66	80.53	80.47	80.47	80.45	
11	80.47	80.50	80.65	80.87	81.41	80.73	80.70	80.64	80.53	80.47	80.47	80.45	
12	80.47	80.75	80.58	80.77	81.83	80.97	80.75	80.63	80.53	80.47	80.47	80.45	
13	80.46	80.77	80.69	80.74	81.56	81.20	80.70	80.62	80.53	80.47	80.47	80.45	
14	80.46	80.64	80.75	81.21	81.37	81.17	80.68	80.62	80.53	80.46	80.47	80.45	
15	80.45	80.63	81.15	80.76	81.19	80.92	80.66	80.62	80.52	80.46	80.47	80.44	
16	80.45	80.60	80.85	80.78	81.07	80.92	80.66	80.61	80.52	80.46	80.47	80.44	
17	80.44	80.58	80.73	80.80	81.00	81.03	80.68	80.60	80.52	80.46	80.47	80.44	
18	80.41	80.63	80.72	80.78	80.91	80.84	80.66	80.60	80.52	80.46	80.47	80.44	
19	80.41	80.64	80.78	80.99	80.81	80.86	80.65	80.59	80.52	80.46	80.48	80.47	
20	80.41	80.61	80.75	81.07	81.04	80.88	80.62	80.58	80.52	80.46	80.48	80.52	
21	80.46	80.65	80.73	80.77	80.88	80.77	80.63	80.58	80.52	80.46	80.47	80.59	
22	80.46	80.60	80.87	80.75	80.90	80.75	80.62	80.57	80.52	80.46	80.54	80.53	
23	80.46	80.67	80.68	80.70	81.19	80.74	80.66	80.56	80.51	80.46	80.50	80.50	
24	80.45	80.61	80.69	80.69	80.90	80.72	80.63	80.56	80.51	80.46	80.50	80.50	
25	80.44	80.54	80.64	80.66	80.80	80.72	80.61	80.56	80.50	80.46	80.49	80.49	
26	80.45	80.56	80.64	80.81	80.77	80.72	81.11	80.55	80.49	80.46	80.47	80.49	
27	80.46	80.54	80.64	81.20	80.76	80.72	81.38	80.55	80.50	80.47	80.47	80.47	
28	80.46	80.53	80.61	81.11	80.73	80.79	81.39	80.55	80.50	80.48	80.47	80.51	
29	80.46	80.56	80.60	80.81	80.72	80.81	80.86	80.55	80.50	80.49		80.50	
30	80.50	80.59	80.59	80.78	80.72	80.74	80.75	80.55	80.50	80.49		80.49	
31		80.55		80.74	80.72		80.91		80.50	80.48		80.49	
Mean	80.47	80.61	80.68	80.86	81.08	80.81	80.79	80.64	80.52	80.47	80.48	80.48	
Max	80.53	80.80	81.15	81.21	82.52	81.20	81.46	81.08	80.55	80.49	80.54	80.59	82.52
Min	80.41	80.50	80.55	80.66	80.68	80.68	80.61	80.55	80.49	80.46	80.47	80.44	80.41

Annual Max Momentary Gage Height	82.62	m. (MSL.) ,	at 18.00 Hours , on Aug 8, 2008		
Zero Gage at Bottom Elevation	79.81	m. (MSL.) ,	River Bed	80.17	m. (MSL.)
Left Bank Elevation	84.86	m. (MSL.) ,			
Right Bank Elevation	84.94	m. (MSL.) ,	Drainage Are	123	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.38	0.46	0.50	1.10	2.00	1.06	1.10	3.71	0.50	0.27	0.24	0.15		
2	0.34	0.66	0.82	1.06	1.82	2.33	6.13	1.82	0.50	0.27	0.24	0.15		
3	0.42	1.64	0.78	4.15	1.46	1.55	1.73	1.46	0.46	0.24	0.24	0.15		
4	0.38	2.00	0.66	1.55	1.28	1.10	1.28	1.37	0.46	0.24	0.24	0.24		
5	0.38	0.98	0.66	2.33	1.02	1.06	2.88	1.19	0.46	0.24	0.21	0.30		
6	0.38	0.74	0.70	2.33	3.58	1.06	1.82	1.10	0.46	0.24	0.21	0.27		
7	0.34	0.58	0.70	1.91	3.95	1.02	1.55	1.06	0.46	0.24	0.21	0.27		
8	0.34	0.46	0.62	2.44	29.88	1.02	1.82	1.02	0.46	0.24	0.21	0.24		
9	0.34	0.42	0.58	3.71	12.35	3.28	1.37	0.98	0.42	0.21	0.21	0.18		
10	0.27	0.34	2.22	3.58	10.55	1.28	1.28	0.94	0.42	0.21	0.21	0.15		
11	0.21	0.30	0.90	2.77	5.73	1.37	1.10	0.86	0.42	0.21	0.21	0.15		
12	0.21	1.55	0.62	1.73	10.25	3.28	1.55	0.82	0.42	0.21	0.21	0.15		
13	0.18	1.73	1.06	1.46	7.02	4.30	1.10	0.78	0.42	0.21	0.21	0.15		
14	0.18	0.86	1.55	4.37	5.44	4.15	1.02	0.78	0.42	0.18	0.21	0.15		
15	0.15	0.82	4.05	1.64	4.25	3.15	0.94	0.78	0.38	0.18	0.21	0.12		
16	0.15	0.70	2.55	1.82	3.67	3.15	0.94	0.74	0.38	0.18	0.21	0.12		
17	0.12	0.62	1.37	2.00	3.35	3.49	1.02	0.70	0.38	0.18	0.21	0.12		
18	0.03	0.82	1.28	1.82	3.13	2.44	0.94	0.70	0.38	0.18	0.21	0.12		
19	0.03	0.86	1.82	3.33	2.11	2.66	0.90	0.66	0.38	0.18	0.24	0.21		
20	0.03	0.74	1.55	3.67	3.53	2.88	0.78	0.62	0.38	0.18	0.24	0.38		
21	0.18	0.90	1.37	1.73	2.88	1.73	0.82	0.62	0.38	0.18	0.21	0.66		
22	0.18	0.70	2.77	1.55	3.10	1.55	0.78	0.58	0.38	0.18	0.46	0.42		
23	0.18	0.98	1.02	1.10	4.25	1.46	0.94	0.54	0.34	0.18	0.30	0.30		
24	0.15	0.74	1.06	1.06	3.10	1.28	0.82	0.54	0.34	0.18	0.30	0.30		
25	0.12	0.46	0.86	0.94	2.00	1.28	0.74	0.54	0.30	0.18	0.27	0.27		
26	0.15	0.54	0.86	2.11	1.73	1.28	3.85	0.50	0.27	0.18	0.21	0.27		
27	0.18	0.46	0.86	4.30	1.64	1.28	5.51	0.50	0.30	0.21	0.21	0.21		
28	0.18	0.42	0.74	3.85	1.37	1.91	5.58	0.50	0.30	0.24	0.21	0.34		
29	0.18	0.54	0.70	2.11	1.28	2.11	2.66	0.50	0.30	0.27		0.30		
30	0.30	0.66	0.66	1.82	1.28	1.46	1.55	0.50	0.30	0.27		0.27		
31		0.50		1.46	1.28		3.13		0.30	0.24		0.27		
Total	6.66	24.18	35.89	70.80	140.28	60.97	57.63	27.41	12.07	6.60	6.55	7.38	456.42	CMSDAY
Mean	0.22	0.78	1.20	2.28	4.53	2.03	1.86	0.91	0.39	0.21	0.23	0.24	1.25	CMS
Max	0.42	2.00	4.05	4.37	29.88	4.30	6.13	3.71	0.50	0.27	0.46	0.66	29.88	CMS
Min	0.03	0.30	0.50	0.94	1.02	1.02	0.74	0.50	0.27	0.18	0.21	0.12	0.03	CMS
Runoff	0.58	2.09	3.10	6.12	12.12	5.27	4.98	2.37	1.04	0.57	0.57	0.64	39.43	MCM

Momentary Peak 34.28 CMS. at 82.62 m. (MSL.) at 18.00 Hours , on Aug 8, 2008

Runoff Yield 10.17 Liters/Second/Square KM. Momentary Peak Yield 278.70 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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	16-time daily readings at 03.00, 06.00 - 18.00, 21.00 and 24.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 16 readings
Period of Available Gage Records	1992 to date
Rating Operation	
Period of Rating	1992 to date
Rated by Float	-
Rated by Current Meter	1992 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 51 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

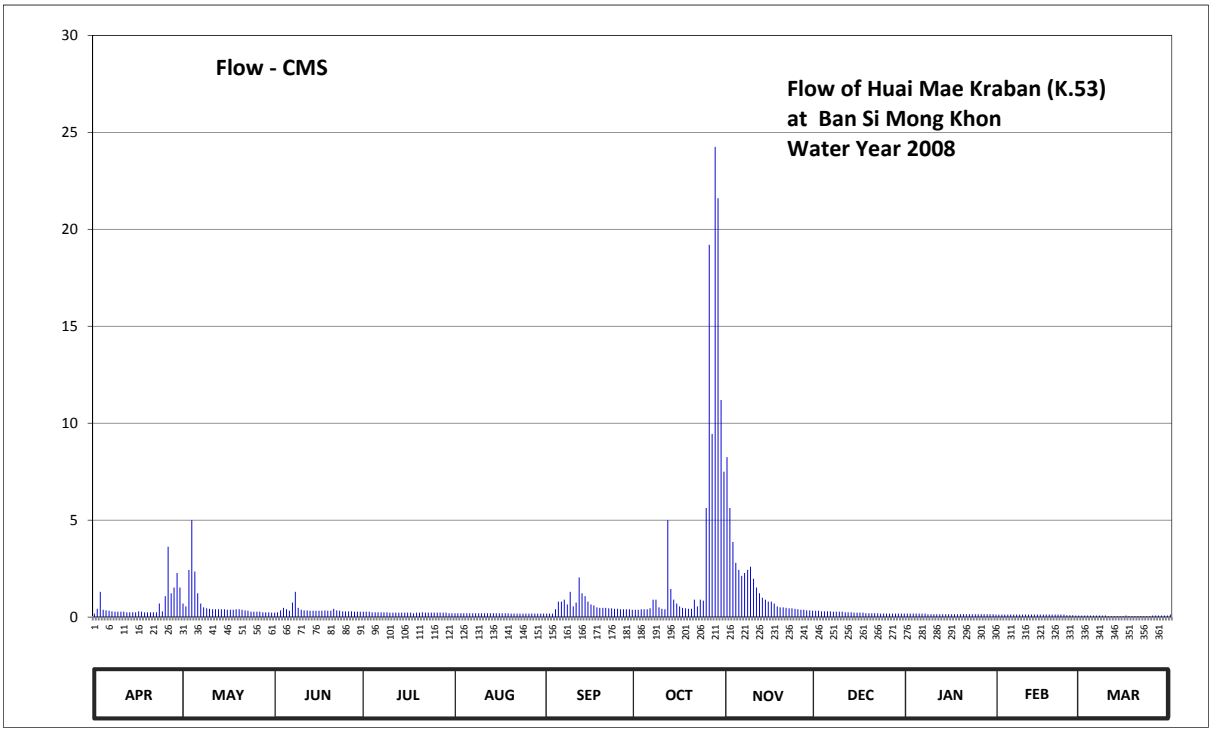
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	36.07	36.24	36.09	36.11	36.08	36.07	36.15	36.95	36.13	36.07	36.05	36.03	
2	36.17	36.21	36.10	36.11	36.08	36.07	36.15	36.77	36.13	36.07	36.05	36.03	
3	36.34	36.49	36.14	36.11	36.08	36.07	36.16	36.63	36.12	36.07	36.05	36.03	
4	36.15	36.72	36.19	36.10	36.08	36.16	36.16	36.53	36.12	36.07	36.05	36.03	
5	36.14	36.48	36.16	36.10	36.08	36.26	36.16	36.49	36.12	36.07	36.05	36.03	
6	36.13	36.33	36.13	36.10	36.08	36.26	36.18	36.45	36.12	36.07	36.05	36.03	
7	36.12	36.24	36.25	36.10	36.08	36.28	36.28	36.47	36.11	36.07	36.05	36.03	
8	36.11	36.20	36.34	36.10	36.08	36.23	36.28	36.49	36.11	36.06	36.05	36.03	
9	36.11	36.18	36.19	36.10	36.08	36.34	36.20	36.51	36.11	36.06	36.05	36.03	
10	36.11	36.17	36.15	36.09	36.08	36.21	36.17	36.43	36.11	36.06	36.05	36.02	
11	36.11	36.16	36.14	36.09	36.08	36.25	36.16	36.37	36.10	36.06	36.05	36.02	
12	36.10	36.16	36.14	36.09	36.08	36.44	36.72	36.33	36.10	36.06	36.05	36.02	
13	36.10	36.16	36.13	36.09	36.08	36.33	36.36	36.30	36.10	36.06	36.05	36.02	
14	36.10	36.16	36.13	36.09	36.08	36.31	36.28	36.28	36.09	36.06	36.05	36.02	
15	36.10	36.16	36.13	36.09	36.08	36.26	36.24	36.26	36.09	36.06	36.05	36.02	
16	36.12	36.15	36.13	36.09	36.08	36.23	36.21	36.26	36.09	36.06	36.05	36.03	
17	36.11	36.15	36.13	36.09	36.08	36.22	36.19	36.24	36.09	36.06	36.05	36.02	
18	36.10	36.15	36.14	36.08	36.08	36.20	36.18	36.21	36.08	36.06	36.05	36.02	
19	36.10	36.16	36.13	36.09	36.08	36.19	36.17	36.20	36.08	36.06	36.05	36.02	
20	36.10	36.16	36.13	36.09	36.07	36.19	36.17	36.20	36.08	36.06	36.05	36.02	
21	36.10	36.15	36.17	36.10	36.07	36.19	36.28	36.19	36.08	36.06	36.05	36.02	
22	36.10	36.14	36.14	36.09	36.07	36.18	36.21	36.18	36.08	36.06	36.05	36.02	
23	36.24	36.13	36.13	36.09	36.07	36.18	36.28	36.18	36.07	36.06	36.05	36.02	
24	36.12	36.11	36.12	36.09	36.07	36.17	36.27	36.17	36.07	36.06	36.04	36.02	
25	36.31	36.11	36.12	36.09	36.07	36.17	36.77	36.16	36.07	36.06	36.04	36.03	
26	36.61	36.11	36.12	36.09	36.07	36.16	37.56	36.15	36.07	36.06	36.04	36.03	
27	36.33	36.11	36.12	36.09	36.07	36.16	37.03	36.15	36.07	36.06	36.03	36.03	
28	36.37	36.10	36.11	36.09	36.07	36.16	37.80	36.14	36.07	36.06	36.03	36.03	
29	36.47	36.10	36.11	36.09	36.07	36.16	37.68	36.14	36.07	36.06		36.03	
30	36.37	36.10	36.11	36.08	36.07	36.15	37.14	36.13	36.07	36.06		36.03	
31		36.09		36.08	36.07		36.90		36.07	36.05		36.05	
Mean	36.18	36.20	36.14	36.09	36.08	36.21	36.47	36.33	36.09	36.06	36.05	36.03	
Max	36.61	36.72	36.34	36.11	36.08	36.44	37.80	36.95	36.13	36.07	36.05	36.05	37.80
Min	36.07	36.09	36.09	36.08	36.07	36.07	36.15	36.13	36.07	36.05	36.03	36.02	36.02

Annual Max Momentary Gage Height 38.39 m. (MSL.) , at 16.00 Hours , on Oct 28, 2008

Zero Gage at Bottom Elevation 34.63 m. (MSL.) , River Bed 35.99 m. (MSL.)

Left Bank Elevation 39.69 m. (MSL.) ,

Right Bank Elevation 39.84 m. (MSL.) , Drainage Are 308 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.18	0.70	0.23	0.28	0.20	0.18	0.38	8.25	0.33	0.18	0.13	0.08		
2	0.43	0.55	0.25	0.28	0.20	0.18	0.38	5.63	0.33	0.18	0.13	0.08		
3	1.30	2.43	0.35	0.28	0.20	0.18	0.40	3.88	0.30	0.18	0.13	0.08		
4	0.38	5.00	0.48	0.25	0.20	0.40	0.40	2.80	0.30	0.18	0.13	0.08		
5	0.35	2.35	0.40	0.25	0.20	0.80	0.40	2.43	0.30	0.18	0.13	0.08		
6	0.33	1.23	0.33	0.25	0.20	0.80	0.45	2.13	0.30	0.18	0.13	0.08		
7	0.30	0.70	0.75	0.25	0.20	0.90	0.90	2.28	0.28	0.18	0.13	0.08		
8	0.28	0.50	1.30	0.25	0.20	0.65	0.90	2.43	0.28	0.15	0.13	0.08		
9	0.28	0.45	0.48	0.25	0.20	1.30	0.50	2.60	0.28	0.15	0.13	0.08		
10	0.28	0.43	0.38	0.23	0.20	0.55	0.43	1.98	0.28	0.15	0.13	0.05		
11	0.28	0.40	0.35	0.23	0.20	0.75	0.40	1.53	0.25	0.15	0.13	0.05		
12	0.25	0.40	0.35	0.23	0.20	2.05	5.00	1.23	0.25	0.15	0.13	0.05		
13	0.25	0.40	0.33	0.23	0.20	1.23	1.45	1.00	0.25	0.15	0.13	0.05		
14	0.25	0.40	0.33	0.23	0.20	1.08	0.90	0.90	0.23	0.15	0.13	0.05		
15	0.25	0.40	0.33	0.23	0.20	0.80	0.70	0.80	0.23	0.15	0.13	0.05		
16	0.30	0.38	0.33	0.23	0.20	0.65	0.55	0.80	0.23	0.15	0.13	0.08		
17	0.28	0.38	0.33	0.23	0.20	0.60	0.48	0.70	0.23	0.15	0.13	0.05		
18	0.25	0.38	0.35	0.20	0.20	0.50	0.45	0.55	0.20	0.15	0.13	0.05		
19	0.25	0.40	0.33	0.23	0.20	0.48	0.43	0.50	0.20	0.15	0.13	0.05		
20	0.25	0.40	0.33	0.23	0.18	0.48	0.43	0.50	0.20	0.15	0.13	0.05		
21	0.25	0.38	0.43	0.25	0.18	0.48	0.90	0.48	0.20	0.15	0.13	0.05		
22	0.25	0.35	0.35	0.23	0.18	0.45	0.55	0.45	0.20	0.15	0.13	0.05		
23	0.70	0.33	0.33	0.23	0.18	0.45	0.90	0.45	0.18	0.15	0.13	0.05		
24	0.30	0.28	0.30	0.23	0.18	0.43	0.85	0.43	0.18	0.15	0.10	0.05		
25	1.08	0.28	0.30	0.23	0.18	0.43	5.63	0.40	0.18	0.15	0.10	0.08		
26	3.63	0.28	0.30	0.23	0.18	0.40	19.20	0.38	0.18	0.15	0.10	0.08		
27	1.23	0.28	0.30	0.23	0.18	0.40	9.45	0.38	0.18	0.15	0.08	0.08		
28	1.53	0.25	0.28	0.23	0.18	0.40	24.25	0.35	0.18	0.15	0.08	0.08		
29	2.28	0.25	0.28	0.23	0.18	0.40	21.60	0.35	0.18	0.15		0.08		
30	1.53	0.25	0.28	0.20	0.18	0.38	11.20	0.33	0.18	0.15		0.08		
31		0.23		0.20	0.18		7.50		0.18	0.13		0.13		
Total	19.50	21.44	11.46	7.33	5.96	18.78	117.96	46.92	7.27	4.84	3.45	2.11	267.02	CMSDAY
Mean	0.65	0.69	0.38	0.24	0.19	0.63	3.81	1.56	0.23	0.16	0.12	0.07	0.73	CMS
Max	3.63	5.00	1.30	0.28	0.20	2.05	24.25	8.25	0.33	0.18	0.13	0.13	24.25	CMS
Min	0.18	0.23	0.23	0.20	0.18	0.18	0.38	0.33	0.18	0.13	0.08	0.05	0.05	CMS
Runoff	1.68	1.85	0.99	0.63	0.51	1.62	10.19	4.05	0.63	0.42	0.30	0.18	23.07	MCM

Momentary Peak 38.97 CMS. at 38.39 m. (MSL.) at 16.00 Hours , on Oct 28, 2008

Runoff Yield 2.38 Liters/Second/Square KM. Momentary Peak Yield 126.53 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1996 to date
Rating Operation	
Period of Rating	1996 to date
Rated by Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Khao Laem Dam. Stage-discharge relation defined by 40 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

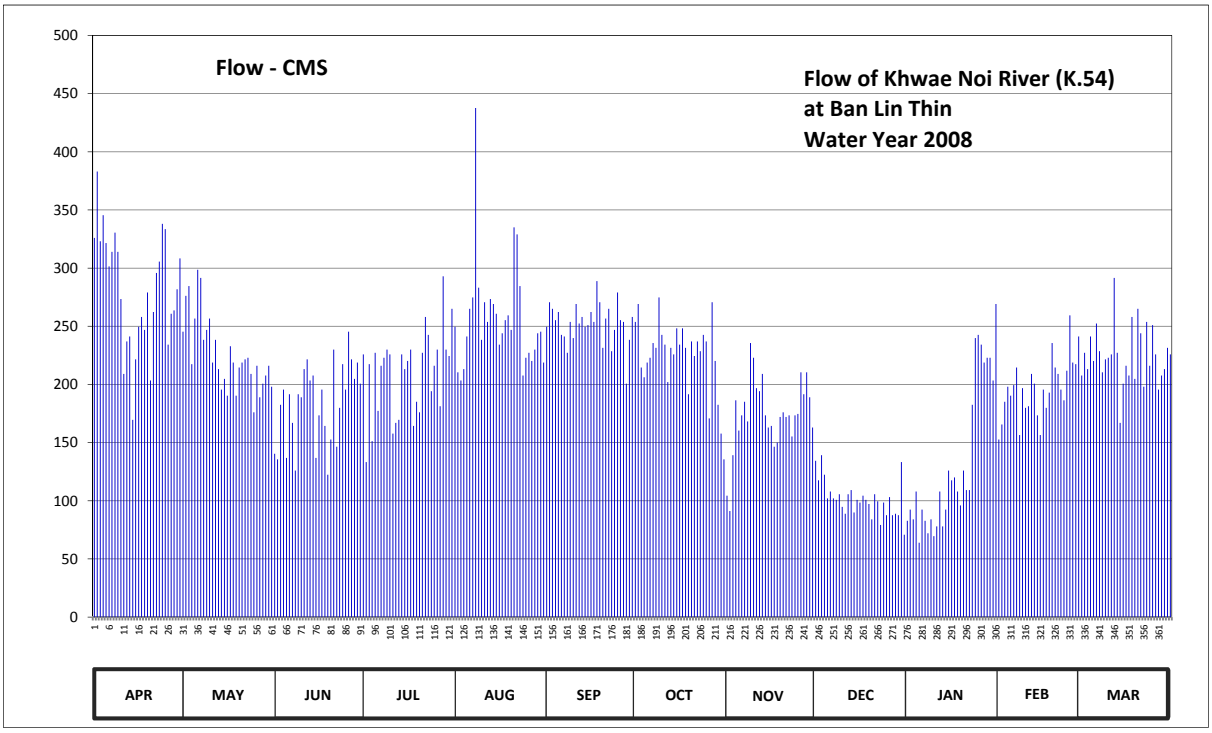
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	64.38	63.81	63.02	63.67	63.84	63.84	63.87	62.72	62.97	62.54	63.12	63.54	
2	64.76	64.03	62.98	62.96	63.56	63.99	63.98	62.61	62.83	62.62	63.22	63.68	
3	64.36	64.09	63.35	63.61	63.51	63.95	63.59	63.01	63.01	62.55	63.37	63.58	
4	64.51	63.61	63.45	63.11	63.58	63.88	63.53	63.38	62.87	62.75	63.47	63.78	
5	64.35	63.89	62.99	63.68	63.78	63.93	63.62	63.18	62.70	62.38	63.41	63.63	
6	64.21	64.19	63.42	63.31	63.95	63.79	63.65	63.28	62.75	62.62	63.48	63.86	
7	64.30	64.14	63.23	63.60	64.02	63.78	63.74	63.37	62.70	62.54	63.59	63.69	
8	64.41	63.76	62.90	63.65	65.11	63.68	63.71	63.24	62.69	62.45	63.15	63.56	
9	64.30	63.82	63.42	63.70	64.08	63.87	64.02	63.74	62.73	62.55	63.46	63.64	
10	64.01	63.89	63.40	63.67	63.76	63.77	63.79	63.65	62.64	62.43	63.33	63.65	
11	63.55	63.62	63.58	63.16	63.99	63.98	63.73	63.46	62.59	62.50	63.34	63.67	
12	63.75	63.76	63.64	63.23	63.87	63.86	63.50	63.44	62.73	62.75	63.55	64.14	
13	63.78	63.58	63.51	63.25	64.01	63.90	63.71	63.55	62.76	62.50	63.49	63.68	
14	63.25	63.45	63.54	63.67	63.98	63.84	63.67	63.28	62.60	62.62	63.28	63.23	
15	63.64	63.52	62.99	63.58	63.92	63.85	63.83	63.20	62.69	62.90	63.15	63.49	
16	63.84	63.41	63.28	63.63	63.73	63.93	63.73	63.21	62.67	62.83	63.45	63.60	
17	63.90	63.72	63.45	63.70	63.80	63.87	63.83	63.07	62.72	62.85	63.33	63.54	
18	63.82	63.62	63.21	63.21	63.88	64.12	63.71	63.10	62.69	62.75	63.43	63.90	
19	64.05	63.41	62.87	63.37	63.91	63.99	63.42	63.27	62.66	62.65	63.74	63.52	
20	63.51	63.59	63.12	63.30	63.82	63.71	63.75	63.30	62.55	62.90	63.59	63.95	
21	63.93	63.62	63.70	63.68	64.44	63.89	63.66	63.27	62.73	62.76	63.55	63.80	
22	64.17	63.64	63.07	63.90	64.40	63.95	63.75	63.28	62.68	62.76	63.45	63.47	
23	64.24	63.65	63.33	63.79	64.09	63.69	63.69	63.14	62.51	63.35	63.38	63.87	
24	64.46	63.55	63.61	63.44	63.54	63.82	63.79	63.28	62.67	63.77	63.57	63.60	
25	64.43	63.30	63.45	63.60	63.65	64.05	63.75	63.29	62.58	63.79	63.91	63.85	
26	63.73	63.60	63.81	63.70	63.68	63.88	63.26	63.56	62.71	63.73	63.62	63.67	
27	63.92	63.40	63.64	63.34	63.63	63.87	63.99	63.42	62.58	63.62	63.61	63.45	
28	63.94	63.49	63.52	64.15	63.70	63.49	63.63	63.56	62.59	63.65	63.78	63.54	
29	64.07	63.54	63.62	63.70	63.80	63.76	63.35	63.40	62.58	63.65		63.58	
30	64.26	63.60	63.49	63.66	63.81	63.90	63.16	63.20	62.96	63.51		63.71	
31		63.47		63.95	63.62		62.98		62.44	63.98		63.67	
Mean	64.06	63.67	63.35	63.55	63.89	63.86	63.66	63.28	62.70	62.94	63.46	63.66	
Max	64.76	64.19	63.81	64.15	65.11	64.12	64.02	63.74	63.01	63.98	63.91	64.14	65.11
Min	63.25	63.30	62.87	62.96	63.51	63.49	62.98	62.61	62.44	62.38	63.12	63.23	62.38

Annual Max Momentary Gage Height 65.58 m. (MSL.) , at 04.00 Hours , on Aug 21, 2008

Zero Gage at Bottom Elevation 60.54 m. (MSL.) , River Bed 60.36 m. (MSL.)

Left Bank Elevation 67.65 m. (MSL.) ,

Right Bank Elevation 70.45 m. (MSL.) , Drainage Are 4,774 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	326.00	245.40	140.40	225.80	249.60	249.60	253.80	104.40	134.40	82.80	152.60	207.60		
2	383.00	276.20	135.60	133.20	210.40	270.60	269.20	91.20	117.60	92.40	165.60	227.20		
3	323.00	284.60	182.50	217.40	203.40	265.00	214.60	139.20	139.20	84.00	185.10	213.20		
4	345.50	217.40	195.50	151.30	213.20	255.20	206.20	186.40	122.40	108.00	198.10	241.20		
5	321.50	256.60	136.80	227.20	241.20	262.20	218.80	160.40	102.00	64.00	190.30	220.20		
6	301.40	298.60	191.60	177.30	265.00	242.60	223.00	173.40	108.00	92.40	199.40	252.40		
7	314.00	291.60	166.90	216.00	274.80	241.20	235.60	185.10	102.00	82.80	214.60	228.60		
8	330.50	238.40	126.00	223.00	437.60	227.20	231.40	168.20	100.80	72.00	156.50	210.40		
9	314.00	246.80	191.60	230.00	283.20	253.80	274.80	235.60	105.60	84.00	196.80	221.60		
10	273.40	256.60	189.00	225.80	238.40	239.80	242.60	223.00	94.80	69.60	179.90	223.00		
11	209.00	218.80	213.20	157.80	270.60	269.20	234.20	196.80	88.80	78.00	181.20	225.80		
12	237.00	238.40	221.60	166.90	253.80	252.40	202.00	194.20	105.60	108.00	209.00	291.60		
13	241.20	213.20	203.40	169.50	273.40	258.00	231.40	209.00	109.20	78.00	200.70	227.20		
14	169.50	195.50	207.60	225.80	269.20	249.60	225.80	173.40	90.00	92.40	173.40	166.90		
15	221.60	204.80	136.80	213.20	260.80	251.00	248.20	163.00	100.80	126.00	156.50	200.70		
16	249.60	190.30	173.40	220.20	234.20	262.20	234.20	164.30	98.40	117.60	195.50	216.00		
17	258.00	232.80	195.50	230.00	244.00	253.80	248.20	146.40	104.40	120.00	179.90	207.60		
18	246.80	218.80	164.30	164.30	255.20	288.80	231.40	150.00	100.80	108.00	192.90	258.00		
19	279.00	190.30	122.40	185.10	259.40	270.60	191.60	172.10	97.20	96.00	235.60	204.80		
20	203.40	214.60	152.60	176.00	246.80	231.40	237.00	176.00	84.00	126.00	214.60	265.00		
21	262.20	218.80	230.00	227.20	335.00	256.60	224.40	172.10	105.60	109.20	209.00	244.00		
22	295.80	221.60	146.40	258.00	329.00	265.00	237.00	173.40	99.60	109.20	195.50	198.10		
23	305.60	223.00	179.90	242.60	284.60	228.60	228.60	155.20	79.20	182.50	186.40	253.80		
24	338.00	209.00	217.40	194.20	207.60	246.80	242.60	173.40	98.40	239.80	211.80	216.00		
25	333.50	176.00	195.50	216.00	223.00	279.00	237.00	174.70	87.60	242.60	259.40	251.00		
26	234.20	216.00	245.40	230.00	227.20	255.20	170.80	210.40	103.20	234.20	218.80	225.80		
27	260.80	189.00	221.60	181.20	220.20	253.80	270.60	191.60	87.60	218.80	217.40	195.50		
28	263.60	200.70	204.80	293.00	230.00	200.70	220.20	210.40	88.80	223.00	241.20	207.60		
29	281.80	207.60	218.80	230.00	244.00	238.40	182.50	189.00	87.60	223.00		213.20		
30	308.40	216.00	200.70	224.40	245.40	258.00	157.80	163.00	133.20	203.40		231.40		
31		198.10		265.00	218.80		135.60		70.80	269.20		225.80		
Total	8431.30	7005.50	5507.20	6497.40	7949.00	7576.30	6961.10	5225.30	3147.60	4136.90	5517.70	6971.20	74926.50	CMSDAY
Mean	281.04	225.98	183.57	209.59	256.42	252.54	224.55	174.18	101.54	133.45	197.06	224.88	205.28	CMS
Max	383.00	298.60	245.40	293.00	437.60	288.80	274.80	235.60	139.20	269.20	259.40	291.60	437.60	CMS
Min	169.50	176.00	122.40	133.20	203.40	200.70	135.60	91.20	70.80	64.00	152.60	166.90	64.00	CMS
Runoff	728.46	605.28	475.82	561.38	686.79	654.59	601.44	451.47	271.95	357.43	476.73	602.31	6473.65	MCM

Momentary Peak 512.80 CMS. at 65.58 m. (MSL.) at 04.00 Hours , on Aug 21, 2008

Runoff Yield 43.00 Liters/Second/Square KM. Momentary Peak Yield 107.42 Liters/Second/Square KM.

WATER YEAR : 2008

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.

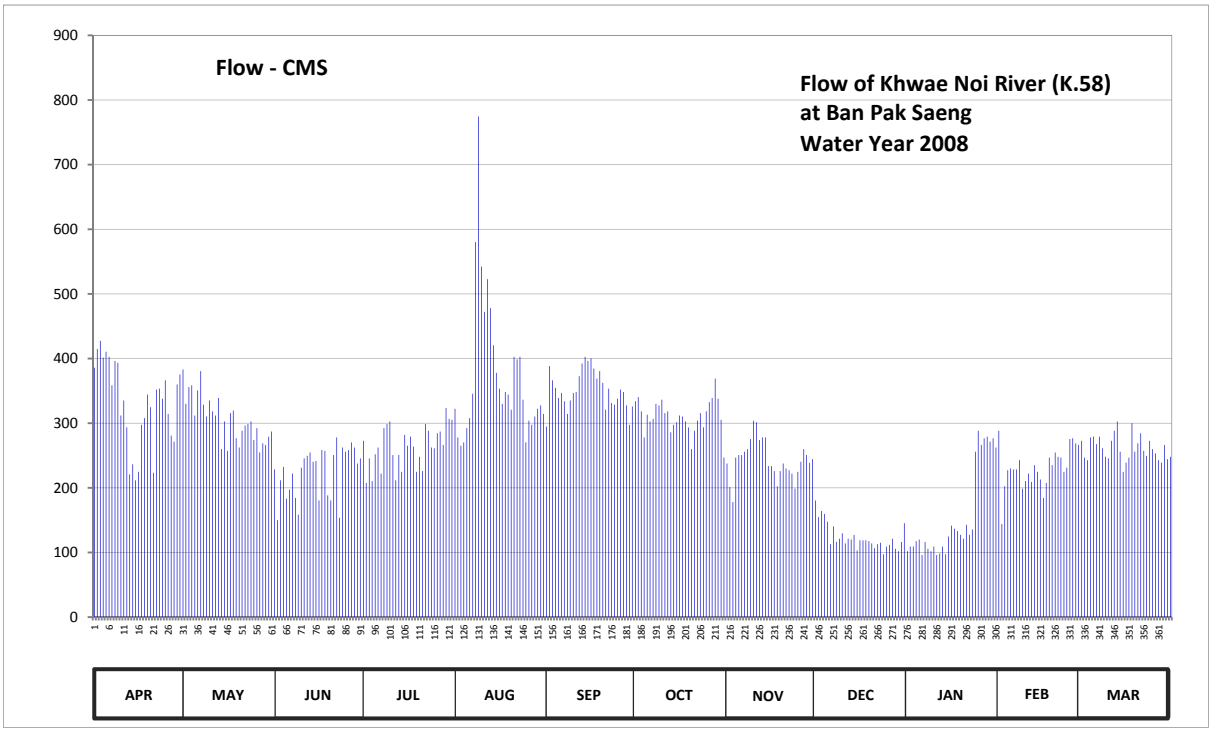
Ban Pak Saeng **Amphoe** Sai Yok **Changwat** Kanchanaburi

Drainge 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 Float	-
Rated by Current Meter	2006 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	Overbank flow starts at elevation +46.550 m.(MSL.) and is including overbank flow.
General Description	Records good. Stage-discharge relation defined by 34 discharge measurements made in 2008

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.73	43.71	42.52	42.86	43.24	43.03	43.33	42.59	42.15	41.50	42.98	42.86	
2	43.95	43.30	41.90	42.36	42.90	43.75	43.38	42.31	41.94	41.56	41.85	42.66	
3	44.04	43.50	42.39	42.65	42.80	43.58	43.21	42.13	42.02	41.56	42.32	42.63	
4	43.85	43.52	42.55	42.38	42.84	43.49	42.90	42.66	41.98	41.63	42.51	42.90	
5	43.92	43.16	42.17	42.70	43.01	43.37	43.17	42.69	41.88	41.65	42.53	42.91	
6	43.86	43.46	42.28	42.78	43.13	43.43	43.09	42.69	41.59	41.45	42.52	42.82	
7	43.52	43.69	42.47	42.47	43.42	43.33	43.12	42.73	41.82	41.62	42.52	42.91	
8	43.81	43.29	42.18	43.01	45.13	43.18	43.30	42.76	41.62	41.53	42.63	42.77	
9	43.79	43.15	41.97	43.06	46.45	43.34	43.28	42.88	41.66	41.50	42.29	42.67	
10	43.16	43.34	42.54	43.09	44.86	43.43	43.35	43.10	41.73	41.56	42.38	42.65	
11	43.34	43.21	42.65	42.69	44.36	43.44	43.19	43.08	41.60	41.45	42.47	42.86	
12	43.02	43.16	42.68	42.39	44.72	43.63	43.21	42.87	41.66	41.47	42.37	42.98	
13	42.46	43.37	42.72	42.69	44.40	43.78	42.96	42.90	41.65	41.56	42.57	43.09	
14	42.58	42.76	42.61	42.49	43.99	43.86	43.05	42.90	41.71	41.46	42.49	42.73	
15	42.39	43.09	42.62	42.93	43.67	43.81	43.08	42.56	41.51	41.69	42.40	42.49	
16	42.49	42.74	42.15	42.80	43.48	43.84	43.16	42.56	41.64	41.83	42.18	42.60	
17	43.05	43.19	42.75	42.91	43.30	43.72	43.15	42.50	41.64	41.79	42.36	42.66	
18	43.13	43.22	42.74	42.79	43.44	43.60	43.09	42.32	41.64	41.76	42.66	43.07	
19	43.41	42.89	42.21	42.49	43.41	43.69	43.02	42.50	41.63	41.71	42.57	42.73	
20	43.26	42.78	42.15	42.67	43.23	43.55	42.76	42.59	41.60	41.66	42.72	42.83	
21	42.48	42.98	42.69	42.50	43.86	43.23	42.98	42.53	41.54	41.84	42.67	42.95	
22	43.47	43.04	42.90	43.06	43.83	43.48	43.10	42.51	41.59	41.71	42.66	42.74	
23	43.48	43.06	41.93	42.98	43.86	43.31	43.19	42.47	41.61	41.78	42.49	42.68	
24	43.36	43.09	42.78	42.78	43.35	43.29	43.02	42.29	41.46	42.73	42.54	42.86	
25	43.58	42.87	42.73	42.77	42.84	43.36	43.21	42.49	41.56	42.98	42.88	42.76	
26	43.18	43.01	42.75	42.95	43.10	43.47	43.32	42.61	41.58	42.81	42.89	42.71	
27	42.92	42.72	42.84	42.97	43.05	43.44	43.37	42.76	41.66	42.89	42.83	42.63	
28	42.85	42.83	42.78	42.81	43.15	43.28	43.60	42.69	41.53	42.91	42.81	42.60	
29	43.53	42.81	42.59	43.25	43.24	43.05	43.36	42.60	41.50	42.85		42.81	
30	43.65	42.91	42.65	43.12	43.28	43.27	43.11	42.64	41.62	42.89		42.64	
31		42.97		43.11	43.18		42.66		41.86	42.78		42.67	
Mean	43.31	43.12	42.50	42.79	43.63	43.47	43.15	42.63	41.68	41.94	42.54	42.77	
Max	44.04	43.71	42.90	43.25	46.45	43.86	43.60	43.10	42.15	42.98	42.98	43.09	46.45
Min	42.39	42.72	41.90	42.36	42.80	43.03	42.66	42.13	41.46	41.45	41.85	42.49	41.45

Annual Max Momentary Gage Height	47.11	m. (MSL.) ,	at 04.00 Hours , on Aug 9, 2008		
Zero Gage at Bottom Elevation	39.57	m. (MSL.) ,	River Bed	39.85	m. (MSL)
Left Bank Elevation	46.54	m. (MSL.) ,			
Right Bank Elevation	49.62	m. (MSL.) ,	Drainage Are	6,725	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	385.90	383.30	228.60	272.80	322.20	294.90	333.90	237.70	180.50	102.00	288.40	272.80		
2	415.00	330.00	150.00	207.80	278.00	388.50	340.40	201.30	154.80	109.20	144.00	246.80		
3	427.60	356.00	211.70	245.50	265.00	366.40	318.30	177.90	164.40	109.20	202.60	242.90		
4	401.50	358.60	232.50	210.40	270.20	354.70	278.00	246.80	159.60	117.60	227.30	278.00		
5	410.80	311.80	183.10	252.00	292.30	339.10	313.10	250.70	147.60	120.00	229.90	279.30		
6	402.80	350.80	197.40	262.40	307.90	346.90	302.70	250.70	112.80	96.00	228.60	267.60		
7	358.60	380.70	222.10	222.10	345.60	333.90	306.60	255.90	140.40	116.40	228.60	279.30		
8	396.30	328.70	184.40	292.30	580.20	314.40	330.00	259.80	116.40	105.60	242.90	261.10		
9	393.70	310.50	158.40	298.80	774.50	335.20	327.40	275.40	121.20	102.00	198.70	248.10		
10	311.80	335.20	231.20	302.70	542.40	346.90	336.50	304.00	129.60	109.20	210.40	245.50		
11	335.20	318.30	245.50	250.70	472.40	348.20	315.70	301.40	114.00	96.00	222.10	272.80		
12	293.60	311.80	249.40	211.70	522.80	372.90	318.30	274.10	121.20	98.40	209.10	288.40		
13	220.80	339.10	254.60	250.70	478.00	392.40	285.80	278.00	120.00	109.20	235.10	302.70		
14	236.40	259.80	240.30	224.70	420.60	402.80	297.50	278.00	127.20	97.20	224.70	255.90		
15	211.70	302.70	241.60	281.90	378.10	396.30	301.40	233.80	103.20	124.80	213.00	224.70		
16	224.70	257.20	180.50	265.00	353.40	400.20	311.80	233.80	118.80	141.60	184.40	239.00		
17	297.50	315.70	258.50	279.30	330.00	384.60	310.50	226.00	118.80	136.80	207.80	246.80		
18	307.90	319.60	257.20	263.70	348.20	369.00	302.70	202.60	118.80	133.20	246.80	300.10		
19	344.30	276.70	188.30	224.70	344.30	380.70	293.60	226.00	117.60	127.20	235.10	255.90		
20	324.80	262.40	180.50	248.10	320.90	362.50	259.80	237.70	114.00	121.20	254.60	268.90		
21	223.40	288.40	250.70	226.00	402.80	320.90	288.40	229.90	106.80	142.80	248.10	284.50		
22	352.10	296.20	278.00	298.80	398.90	353.40	304.00	227.30	112.80	127.20	246.80	257.20		
23	353.40	298.80	153.60	288.40	402.80	331.30	315.70	222.10	115.20	135.60	224.70	249.40		
24	337.80	302.70	262.40	262.40	336.50	328.70	293.60	198.70	97.20	255.90	231.20	272.80		
25	366.40	274.10	255.90	261.10	270.20	337.80	318.30	224.70	109.20	288.40	275.40	259.80		
26	314.40	292.30	258.50	284.50	304.00	352.10	332.60	240.30	111.60	266.30	276.70	253.30		
27	280.60	254.60	270.20	287.10	297.50	348.20	339.10	259.80	121.20	276.70	268.90	242.90		
28	271.50	268.90	262.40	266.30	310.50	327.40	369.00	250.70	105.60	279.30	266.30	239.00		
29	359.90	266.30	237.70	323.50	322.20	297.50	337.80	239.00	102.00	271.50		266.30		
30	375.50	279.30	245.50	306.60	327.40	326.10	305.30	244.20	116.40	276.70		244.20		
31		287.10		305.30	314.40		246.80		145.20	262.40		248.10		
Total	9935.90	9517.60	6770.70	8177.30	11634.20	10553.90	9634.60	7288.30	3844.10	4855.60	6472.20	8094.10	96778.50	CMSDAY
Mean	331.20	307.02	225.69	263.78	375.30	351.80	310.79	242.94	124.00	156.63	231.15	261.10	265.15	CMS
Max	427.60	383.30	278.00	323.50	774.50	402.80	369.00	304.00	180.50	288.40	288.40	302.70	774.50	CMS
Min	211.70	254.60	150.00	207.80	265.00	294.90	246.80	177.90	97.20	96.00	144.00	224.70	96.00	CMS
Runoff	858.46	822.32	584.99	706.52	1005.19	911.86	832.43	629.71	332.13	419.52	559.20	699.33	8361.66	MCM

Momentary Peak 873.50 CMS. at 47.11 m. (MSL.) at 04.00 Hours , on Aug 9 , 2008

Runoff Yield 39.43 Liters/Second/Square KM. Momentary Peak Yield 129.89 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings.
Period of Available Gage Records	2000 to date
Rating Operation	
Period of Rating	2000 to date
Rated by Float	-
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 42 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

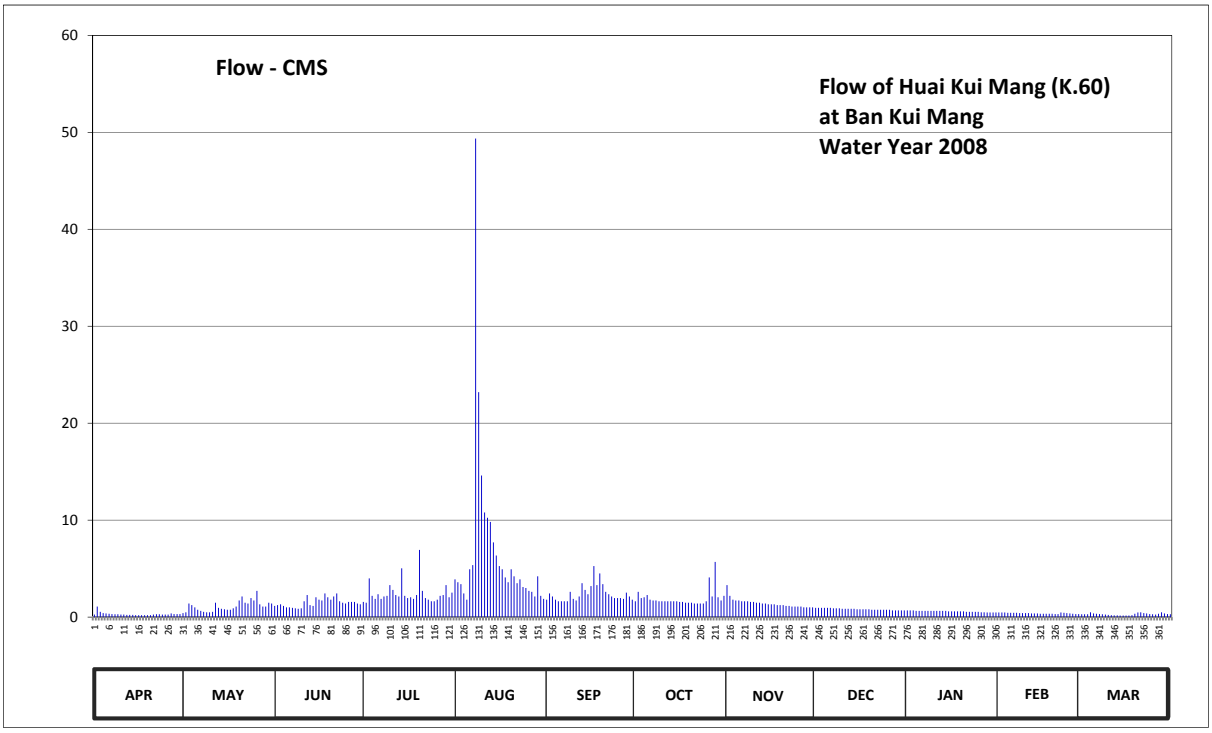
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	74.42	74.47	74.62	74.67	74.93	74.70	74.68	74.87	74.59	74.54	74.49	74.43	
2	74.61	74.50	74.63	74.66	74.90	74.78	74.80	74.75	74.59	74.54	74.49	74.43	
3	74.51	74.65	74.64	74.94	74.88	74.74	74.72	74.70	74.59	74.54	74.49	74.43	
4	74.47	74.63	74.62	74.75	74.78	74.70	74.73	74.69	74.59	74.53	74.48	74.50	
5	74.46	74.60	74.60	74.71	74.70	74.68	74.76	74.69	74.59	74.53	74.48	74.46	
6	74.45	74.55	74.60	74.77	75.03	74.68	74.70	74.68	74.59	74.53	74.48	74.45	
7	74.44	74.53	74.59	74.71	75.07	74.68	74.69	74.68	74.58	74.53	74.48	74.44	
8	74.43	74.51	74.58	74.74	77.08	74.68	74.69	74.68	74.58	74.53	74.47	74.43	
9	74.43	74.50	74.57	74.75	76.20	74.80	74.68	74.67	74.58	74.53	74.47	74.42	
10	74.42	74.50	74.58	74.87	75.75	74.71	74.68	74.67	74.57	74.53	74.47	74.41	
11	74.42	74.51	74.68	74.82	75.50	74.69	74.68	74.66	74.57	74.53	74.47	74.40	
12	74.41	74.66	74.76	74.76	75.46	74.74	74.68	74.66	74.57	74.53	74.46	74.39	
13	74.41	74.59	74.63	74.74	75.43	74.89	74.68	74.65	74.57	74.53	74.46	74.39	
14	74.41	74.57	74.62	75.04	75.27	74.82	74.68	74.65	74.57	74.53	74.46	74.38	
15	74.40	74.56	74.73	74.75	75.16	74.77	74.68	74.64	74.56	74.52	74.45	74.38	
16	74.40	74.55	74.70	74.72	75.06	74.86	74.67	74.64	74.56	74.52	74.45	74.38	
17	74.40	74.55	74.69	74.73	75.03	75.06	74.67	74.64	74.56	74.52	74.45	74.38	
18	74.40	74.58	74.78	74.71	74.95	74.87	74.66	74.63	74.56	74.52	74.45	74.40	
19	74.40	74.61	74.73	74.76	74.90	74.99	74.66	74.63	74.56	74.52	74.45	74.45	
20	74.40	74.69	74.70	75.21	75.03	74.88	74.66	74.63	74.55	74.52	74.44	74.49	
21	74.42	74.74	74.74	74.81	74.96	74.80	74.65	74.62	74.55	74.51	74.44	74.50	
22	74.43	74.66	74.78	74.72	74.89	74.77	74.65	74.62	74.55	74.51	74.49	74.47	
23	74.43	74.65	74.68	74.70	74.93	74.74	74.65	74.61	74.55	74.51	74.48	74.46	
24	74.42	74.72	74.66	74.68	74.85	74.72	74.65	74.61	74.55	74.51	74.47	74.44	
25	74.42	74.69	74.65	74.68	74.84	74.72	74.68	74.61	74.55	74.51	74.46	74.43	
26	74.42	74.81	74.67	74.70	74.81	74.72	74.95	74.61	74.55	74.50	74.45	74.42	
27	74.46	74.64	74.67	74.75	74.80	74.71	74.74	74.60	74.54	74.50	74.44	74.45	
28	74.44	74.61	74.67	74.76	74.74	74.79	75.10	74.60	74.54	74.49	74.44	74.50	
29	74.44	74.61	74.65	74.87	74.96	74.74	74.73	74.60	74.54	74.49		74.46	
30	74.44	74.66	74.64	74.73	74.75	74.70	74.69	74.60	74.54	74.49		74.44	
31		74.65		74.79	74.71		74.75		74.54	74.49		74.43	
Mean	74.43	74.60	74.66	74.77	75.11	74.77	74.71	74.65	74.56	74.52	74.46	74.43	
Max	74.61	74.81	74.78	75.21	77.08	75.06	75.10	74.87	74.59	74.54	74.49	74.50	77.08
Min	74.40	74.47	74.57	74.66	74.70	74.68	74.65	74.60	74.54	74.49	74.44	74.38	74.38

Annual Max Momentary Gage Height 77.23 m. (MSL.) , at 16.00 Hours , on Aug 8, 2008

Zero Gage at Bottom Elevation 73.68 m. (MSL.) , River Bed 73.31 m. (MSL.)

Left Bank Elevation 81.29 m. (MSL.) ,

Right Bank Elevation 82.11 m. (MSL.) , Drainage Are 128 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.26	0.41	1.16	1.56	3.90	1.80	1.64	3.30	0.95	0.70	0.47	0.29		
2	1.08	0.50	1.24	1.48	3.60	2.44	2.60	2.20	0.95	0.70	0.47	0.29		
3	0.55	1.40	1.32	4.00	3.40	2.12	1.96	1.80	0.95	0.70	0.47	0.29		
4	0.41	1.24	1.16	2.20	2.44	1.80	2.04	1.72	0.95	0.65	0.44	0.50		
5	0.38	1.00	1.00	1.88	1.80	1.64	2.28	1.72	0.95	0.65	0.44	0.38		
6	0.35	0.75	1.00	2.36	4.93	1.64	1.80	1.64	0.95	0.65	0.44	0.35		
7	0.32	0.65	0.95	1.88	5.37	1.64	1.72	1.64	0.90	0.65	0.44	0.32		
8	0.29	0.55	0.90	2.12	49.36	1.64	1.72	1.64	0.90	0.65	0.41	0.29		
9	0.29	0.50	0.85	2.20	23.20	2.60	1.64	1.56	0.90	0.65	0.41	0.26		
10	0.26	0.50	0.90	3.30	14.60	1.88	1.64	1.56	0.85	0.65	0.41	0.23		
11	0.26	0.55	1.64	2.80	10.80	1.72	1.64	1.48	0.85	0.65	0.41	0.20		
12	0.23	1.48	2.28	2.28	10.24	2.12	1.64	1.48	0.85	0.65	0.38	0.18		
13	0.23	0.95	1.24	2.12	9.82	3.50	1.64	1.40	0.85	0.65	0.38	0.18		
14	0.23	0.85	1.16	5.04	7.71	2.80	1.64	1.40	0.85	0.65	0.38	0.16		
15	0.20	0.80	2.04	2.20	6.36	2.36	1.64	1.32	0.80	0.60	0.35	0.16		
16	0.20	0.75	1.80	1.96	5.26	3.20	1.56	1.32	0.80	0.60	0.35	0.16		
17	0.20	0.75	1.72	2.04	4.93	5.26	1.56	1.32	0.80	0.60	0.35	0.16		
18	0.20	0.90	2.44	1.88	4.10	3.30	1.48	1.24	0.80	0.60	0.35	0.20		
19	0.20	1.08	2.04	2.28	3.60	4.50	1.48	1.24	0.80	0.60	0.35	0.35		
20	0.20	1.72	1.80	6.93	4.93	3.40	1.48	1.24	0.75	0.60	0.32	0.47		
21	0.26	2.12	2.12	2.70	4.20	2.60	1.40	1.16	0.75	0.55	0.32	0.50		
22	0.29	1.48	2.44	1.96	3.50	2.36	1.40	1.16	0.75	0.55	0.47	0.41		
23	0.29	1.40	1.64	1.80	3.90	2.12	1.40	1.08	0.75	0.55	0.44	0.38		
24	0.26	1.96	1.48	1.64	3.10	1.96	1.40	1.08	0.75	0.55	0.41	0.32		
25	0.26	1.72	1.40	1.64	3.00	1.96	1.64	1.08	0.75	0.55	0.38	0.29		
26	0.26	2.70	1.56	1.80	2.70	1.96	4.10	1.08	0.75	0.50	0.35	0.26		
27	0.38	1.32	1.56	2.20	2.60	1.88	2.12	1.00	0.70	0.50	0.32	0.35		
28	0.32	1.08	1.56	2.28	2.12	2.52	5.70	1.00	0.70	0.47	0.32	0.50		
29	0.32	1.08	1.40	3.30	4.20	2.12	2.04	1.00	0.70	0.47		0.38		
30	0.32	1.48	1.32	2.04	2.20	1.80	1.72	1.00	0.70	0.47		0.32		
31		1.40		2.52	1.88		2.20		0.70	0.47		0.29		
Total	9.30	35.07	45.12	76.39	213.75	72.64	59.92	42.86	25.40	18.48	11.03	9.42	619.38	CMSDAY
Mean	0.31	1.13	1.50	2.46	6.90	2.42	1.93	1.43	0.82	0.60	0.39	0.30	1.70	CMS
Max	1.08	2.70	2.44	6.93	49.36	5.26	5.70	3.30	0.95	0.70	0.47	0.50	49.36	CMS
Min	0.20	0.41	0.85	1.48	1.80	1.64	1.40	1.00	0.70	0.47	0.32	0.16	0.16	CMS
Runoff	0.80	3.03	3.90	6.60	18.47	6.28	5.18	3.70	2.19	1.60	0.95	0.81	53.51	MCM

Momentary Peak 55.94 CMS. at 77.23 m. (MSL.) at 16.00 Hours , on Aug 8, 2008

Runoff Yield 13.26 Liters/Second/Square KM. Momentary Peak Yield 437.03 Liters/Second/Square KM.

WATER YEAR : 2008

MAE KLONG RIVER BASIN

Lam Phachi at A. Chom Bung, Ratchaburi (K.61)

Lat 13 - 41 - 28 N Long 99 - 27 - 08 E

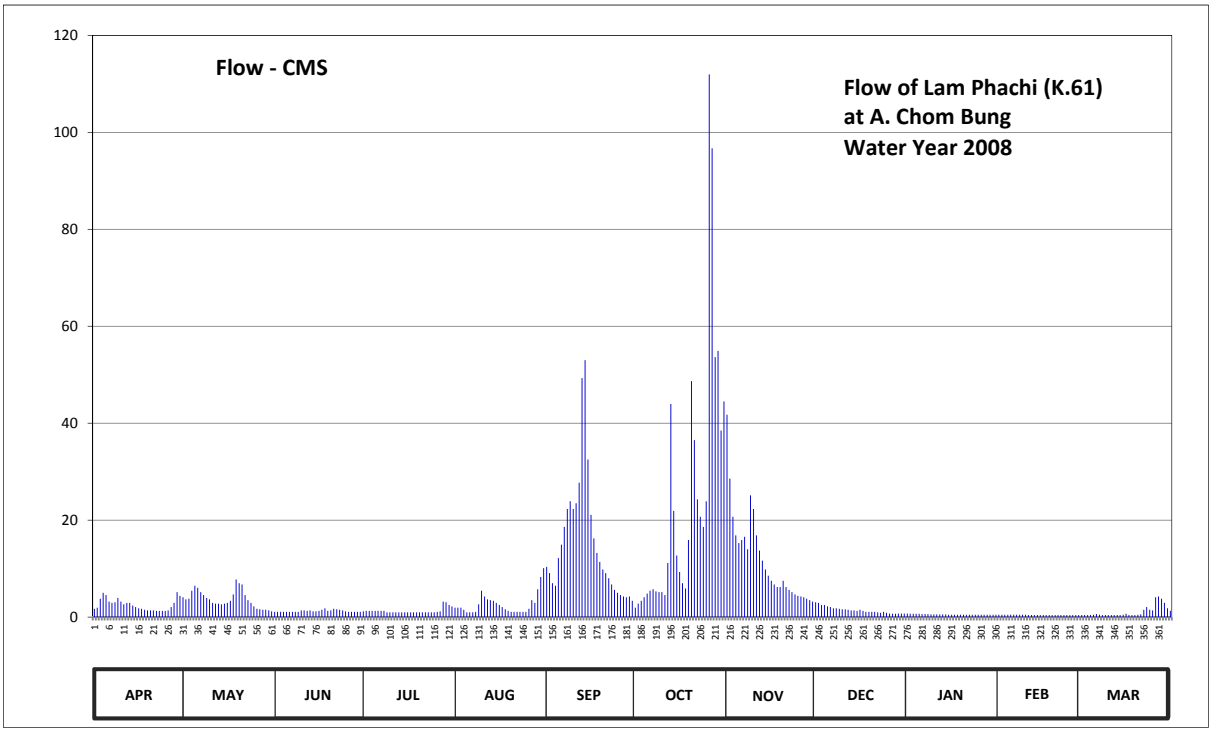
Location : on right bank at the bridge on highway.

	Ban -	**Amphoe**	Chom Bung	**Changwat**	Ratchaburi
Drainge Area	1,844 sq.km.				
Type of Gage	Water - stage recorder.				
Zero Gage at Bottom	+64.629 m. (MSL.)				
Bench Mark	B.M.-H.D.				
Location BM	Near the automatic gage building.			**Elevation**	+65.419 m. (MSL.)
Gage Reading Frequency	Recording				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	2004 to date				
Rating Operation					
Period of Rating	2004 to date				
Rated by Float	-				
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 53 discharge measurements made in 2008.				

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	64.79	64.96	64.73	64.74	64.81	65.26	64.81	66.05	64.89	64.69	64.65	64.64	
2	64.81	64.93	64.73	64.75	64.81	65.21	64.87	65.79	64.88	64.68	64.65	64.64	
3	64.94	64.94	64.73	64.75	64.81	65.13	64.91	65.60	64.85	64.68	64.65	64.64	
4	65.02	65.05	64.73	64.75	64.77	65.11	64.96	65.49	64.85	64.68	64.65	64.64	
5	64.99	65.11	64.73	64.75	64.72	65.33	65.01	65.44	64.83	64.68	64.65	64.65	
6	64.90	65.09	64.73	64.75	64.72	65.43	65.05	65.46	64.82	64.67	64.65	64.67	
7	64.88	65.03	64.73	64.75	64.72	65.54	65.07	65.48	64.80	64.67	64.65	64.65	
8	64.89	64.99	64.73	64.75	64.73	65.64	65.04	65.40	64.80	64.67	64.65	64.64	
9	64.95	64.95	64.73	64.72	64.86	65.68	65.03	65.71	64.79	64.66	64.65	64.64	
10	64.90	64.93	64.76	64.72	65.05	65.64	65.03	65.64	64.78	64.66	64.65	64.64	
11	64.86	64.88	64.76	64.72	64.97	65.67	64.99	65.49	64.78	64.66	64.64	64.64	
12	64.88	64.87	64.75	64.72	64.93	65.77	65.29	65.39	64.77	64.66	64.64	64.64	
13	64.88	64.87	64.76	64.72	64.92	66.18	66.09	65.31	64.76	64.66	64.64	64.64	
14	64.84	64.86	64.74	64.72	64.91	66.24	65.63	65.24	64.76	64.66	64.64	64.64	
15	64.82	64.87	64.74	64.72	64.88	65.87	65.35	65.19	64.75	64.65	64.64	64.65	
16	64.80	64.88	64.75	64.72	64.85	65.61	65.22	65.15	64.77	64.65	64.64	64.68	
17	64.79	64.91	64.77	64.72	64.82	65.47	65.13	65.12	64.75	64.65	64.64	64.64	
18	64.77	65.00	64.80	64.72	64.78	65.37	65.08	65.10	64.73	64.65	64.64	64.64	
19	64.76	65.16	64.75	64.72	64.75	65.30	65.46	65.10	64.73	64.65	64.64	64.64	
20	64.76	65.13	64.76	64.72	64.73	65.24	66.17	65.15	64.73	64.65	64.64	64.65	
21	64.76	65.12	64.79	64.72	64.73	65.21	65.95	65.10	64.73	64.65	64.64	64.66	
22	64.75	64.99	64.78	64.72	64.73	65.17	65.69	65.06	64.72	64.65	64.64	64.77	
23	64.75	64.92	64.77	64.72	64.73	65.12	65.60	65.03	64.71	64.65	64.64	64.82	
24	64.75	64.88	64.76	64.72	64.73	65.06	65.54	65.00	64.73	64.65	64.64	64.77	
25	64.75	64.83	64.74	64.72	64.73	65.02	65.68	64.98	64.71	64.65	64.64	64.76	
26	64.76	64.79	64.73	64.73	64.79	64.99	67.01	64.97	64.69	64.65	64.64	64.96	
27	64.82	64.78	64.73	64.74	64.92	64.97	66.84	64.96	64.68	64.65	64.64	64.97	
28	64.88	64.77	64.73	64.90	64.88	64.96	66.25	64.94	64.68	64.65	64.64	64.94	
29	65.03	64.77	64.73	64.89	65.07	64.97	66.27	64.92	64.69	64.65		64.88	
30	64.98	64.76	64.73	64.85	65.18	64.91	65.99	64.90	64.69	64.65		64.80	
31		64.74		64.83	65.25		66.10		64.69	64.65		64.75	
Mean	64.85	64.93	64.75	64.75	64.85	65.37	65.52	65.27	64.76	64.66	64.64	64.71	
Max	65.03	65.16	64.80	64.90	65.25	66.24	67.01	66.05	64.89	64.69	64.65	64.97	67.01
Min	64.75	64.74	64.73	64.72	64.72	64.91	64.81	64.90	64.68	64.65	64.64	64.64	64.64

Annual Max Momentary Gage Height	67.22	m. (MSL.) ,	at 19.00 Hours , on Oct 26, 2008		
Zero Gage at Bottom Elevation	64.63	m. (MSL.) ,	River Bed	64.10	m. (MSL.)
Left Bank Elevation	71.51	m. (MSL.) ,			
Right Bank Elevation	70.70	m. (MSL.) ,	Drainage Are	1,844	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.70	4.10	1.10	1.20	1.94	10.36	1.94	41.75	3.06	0.74	0.50	0.44		
2	1.94	3.65	1.10	1.30	1.94	9.06	2.78	28.57	2.92	0.68	0.50	0.44		
3	3.80	3.80	1.10	1.30	1.94	6.98	3.35	20.70	2.50	0.68	0.50	0.44		
4	5.00	5.45	1.10	1.30	1.50	6.46	4.10	16.88	2.50	0.68	0.50	0.44		
5	4.55	6.46	1.10	1.30	1.00	12.18	4.85	15.28	2.22	0.68	0.50	0.50		
6	3.20	6.05	1.10	1.30	1.00	14.96	5.45	15.92	2.08	0.62	0.50	0.62		
7	2.92	5.15	1.10	1.30	1.00	18.60	5.75	16.56	1.80	0.62	0.50	0.50		
8	3.06	4.55	1.10	1.30	1.10	22.30	5.30	14.00	1.80	0.62	0.50	0.44		
9	3.95	3.95	1.10	1.00	2.64	23.90	5.15	25.13	1.70	0.56	0.50	0.44		
10	3.20	3.65	1.40	1.00	5.45	22.30	5.15	22.30	1.60	0.56	0.50	0.44		
11	2.64	2.92	1.40	1.00	4.25	23.50	4.55	16.88	1.60	0.56	0.44	0.44		
12	2.92	2.78	1.30	1.00	3.65	27.71	11.14	13.74	1.50	0.56	0.44	0.44		
13	2.92	2.78	1.40	1.00	3.50	49.30	43.95	11.66	1.40	0.56	0.44	0.44		
14	2.36	2.64	1.20	1.00	3.35	53.02	21.90	9.84	1.40	0.56	0.44	0.44		
15	2.08	2.78	1.20	1.00	2.92	32.50	12.70	8.54	1.30	0.50	0.44	0.50		
16	1.80	2.92	1.30	1.00	2.50	21.10	9.32	7.50	1.50	0.50	0.44	0.68		
17	1.70	3.35	1.50	1.00	2.08	16.24	6.98	6.72	1.30	0.50	0.44	0.44		
18	1.50	4.70	1.80	1.00	1.60	13.22	5.90	6.20	1.10	0.50	0.44	0.44		
19	1.40	7.76	1.30	1.00	1.30	11.40	15.92	6.20	1.10	0.50	0.44	0.44		
20	1.40	6.98	1.40	1.00	1.10	9.84	48.70	7.50	1.10	0.50	0.44	0.50		
21	1.40	6.72	1.70	1.00	1.10	9.06	36.50	6.20	1.10	0.50	0.44	0.56		
22	1.30	4.55	1.60	1.00	1.10	8.02	24.30	5.60	1.00	0.50	0.44	1.50		
23	1.30	3.50	1.50	1.00	1.10	6.72	20.70	5.15	0.90	0.50	0.44	2.08		
24	1.30	2.92	1.40	1.00	1.10	5.60	18.60	4.70	1.10	0.50	0.44	1.50		
25	1.30	2.22	1.20	1.00	1.10	5.00	23.90	4.40	0.90	0.50	0.44	1.40		
26	1.40	1.70	1.10	1.10	1.70	4.55	111.95	4.25	0.74	0.50	0.44	4.10		
27	2.08	1.60	1.10	1.20	3.50	4.25	96.70	4.10	0.68	0.50	0.44	4.25		
28	2.92	1.50	1.10	3.20	2.92	4.10	53.65	3.80	0.68	0.50	0.44	3.80		
29	5.15	1.50	1.10	3.06	5.75	4.25	54.91	3.50	0.74	0.50		2.92		
30	4.40	1.40	1.10	2.50	8.28	3.35	38.50	3.20	0.74	0.50		1.80		
31		1.20		2.22	10.10		44.50		0.74	0.50		1.30		
Total	76.59	115.23	38.00	40.58	83.51	459.83	749.09	356.77	44.80	17.18	12.92	34.67	2029.17	CMSDAY
Mean	2.55	3.72	1.27	1.31	2.69	15.33	24.16	11.89	1.45	0.55	0.46	1.12	5.56	CMS
Max	5.15	7.76	1.80	3.20	10.10	53.02	111.95	41.75	3.06	0.74	0.50	4.25	111.95	CMS
Min	1.30	1.20	1.10	1.00	1.00	3.35	1.94	3.20	0.68	0.50	0.44	0.44	0.44	CMS
Runoff	6.62	9.96	3.28	3.51	7.22	39.73	64.72	30.82	3.87	1.48	1.12	3.00	175.32	MCM

Momentary Peak 132.56 CMS. at 67.22 m. (MSL.) at 19.00 Hours , on Oct 26, 2008

Runoff Yield 3.01 Liters/Second/Square KM. Momentary Peak Yield 71.89 Liters/Second/Square KM.

WATER YEAR : 2008

MAE KLONG RIVER BASIN

Lam Phachi at Ban Nong Phai , Kanchanaburi (K.62)

Lat 13 - 46 - 52 N Long 99 - 25 - 15 E

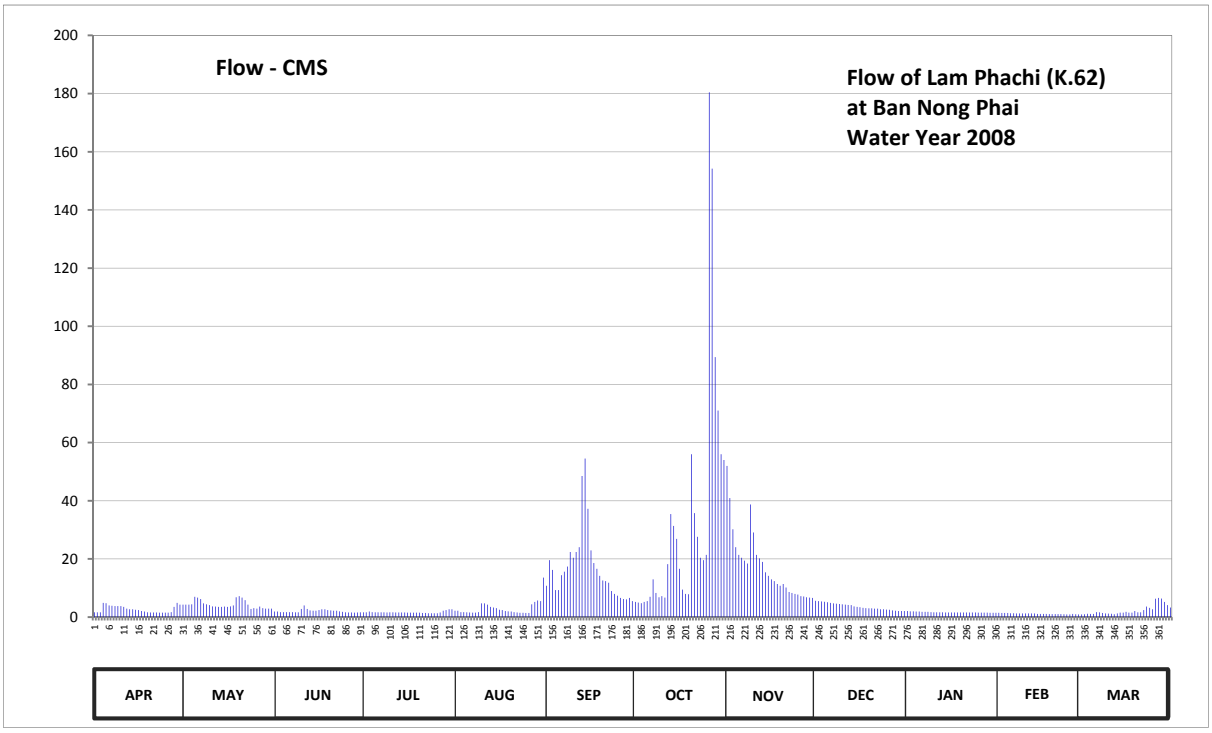
Location : on left bank at Ban Nong Phai.

	Ban Nong Phai	**Amphoe** Dan Makham Tia	**Changwat** Kanchanaburi
Drainge 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 Float	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	Overbank flow starts at elevation +53.240 m.(MSL.), records are channel flow only.		
General Description	Records good. Stage-discharge relation defined by 50 discharge measurements made in 2008		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	49.49	49.76	49.52	49.49	49.55	50.26	49.85	51.60	49.89	49.54	49.46	49.34	
2	49.49	49.76	49.52	49.49	49.55	50.70	49.83	51.35	49.88	49.53	49.45	49.37	
3	49.49	49.76	49.50	49.52	49.50	50.53	49.81	51.06	49.87	49.53	49.45	49.41	
4	49.82	49.77	49.50	49.50	49.50	50.18	49.85	50.89	49.86	49.52	49.45	49.39	
5	49.81	50.02	49.50	49.49	49.49	50.18	49.88	50.79	49.84	49.52	49.44	49.40	
6	49.73	50.00	49.50	49.49	49.48	50.44	50.02	50.74	49.82	49.51	49.44	49.50	
7	49.72	49.95	49.50	49.49	49.47	50.50	50.37	50.69	49.80	49.51	49.43	49.49	
8	49.71	49.80	49.49	49.49	49.47	50.59	50.12	50.64	49.79	49.51	49.43	49.45	
9	49.71	49.77	49.49	49.48	49.50	50.83	50.01	51.29	49.78	49.50	49.43	49.43	
10	49.71	49.74	49.61	49.49	49.80	50.74	50.04	51.03	49.77	49.49	49.43	49.42	
11	49.68	49.70	49.73	49.49	49.80	50.83	50.00	50.79	49.76	49.49	49.43	49.41	
12	49.62	49.69	49.61	49.48	49.76	50.89	50.63	50.73	49.75	49.49	49.43	49.37	
13	49.60	49.68	49.56	49.48	49.68	51.53	51.20	50.67	49.74	49.49	49.43	49.43	
14	49.60	49.68	49.55	49.48	49.66	51.65	51.09	50.49	49.70	49.48	49.40	49.47	
15	49.58	49.69	49.55	49.48	49.64	51.25	50.97	50.43	49.68	49.48	49.40	49.47	
16	49.57	49.68	49.57	49.47	49.58	50.85	50.55	50.37	49.67	49.48	49.40	49.51	
17	49.54	49.70	49.60	49.47	49.57	50.65	50.19	50.34	49.65	49.48	49.39	49.47	
18	49.52	49.73	49.60	49.47	49.54	50.55	50.10	50.29	49.64	49.48	49.38	49.47	
19	49.49	50.01	49.57	49.47	49.53	50.43	50.09	50.26	49.63	49.48	49.38	49.54	
20	49.48	50.04	49.56	49.47	49.52	50.35	51.68	50.29	49.63	49.48	49.38	49.49	
21	49.48	50.00	49.55	49.45	49.50	50.34	51.21	50.23	49.62	49.48	49.38	49.49	
22	49.48	49.91	49.55	49.45	49.48	50.31	50.99	50.14	49.62	49.48	49.38	49.57	
23	49.47	49.76	49.53	49.44	49.46	50.16	50.74	50.12	49.60	49.48	49.37	49.69	
24	49.47	49.61	49.51	49.44	49.46	50.10	50.70	50.10	49.60	49.48	49.35	49.65	
25	49.47	49.64	49.49	49.44	49.45	50.05	50.79	50.08	49.59	49.47	49.35	49.60	
26	49.47	49.62	49.48	49.44	49.45	49.99	53.47	50.04	49.58	49.47	49.40	49.96	
27	49.50	49.69	49.48	49.48	49.77	49.95	53.19	50.03	49.56	49.47	49.36	49.99	
28	49.68	49.64	49.47	49.55	49.85	49.94	52.29	50.01	49.55	49.47	49.35	49.97	
29	49.82	49.62	49.48	49.57	49.90	49.99	51.98	50.00	49.54	49.46		49.85	
30	49.76	49.62	49.49	49.60	49.88	49.88	51.68	49.99	49.54	49.46		49.74	
31		49.62		49.60	50.40		51.64		49.54	49.46		49.66	
Mean	49.60	49.76	49.54	49.49	49.62	50.49	50.81	50.52	49.69	49.49	49.41	49.55	
Max	49.82	50.04	49.73	49.60	50.40	51.65	53.47	51.60	49.89	49.54	49.46	49.99	53.47
Min	49.47	49.61	49.47	49.44	49.45	49.88	49.81	49.99	49.54	49.46	49.35	49.34	49.34

Annual Max Momentary Gage Height	53.55	m. (MSL.) ,	at 06.00 Hours , on Oct 26, 2008		
Zero Gage at Bottom Elevation	49.00	m. (MSL.) ,	River Bed	48.84	m. (MSL)
Left Bank Elevation	53.23	m. (MSL.) ,			
Right Bank Elevation	53.69	m. (MSL.) ,	Drainage Are	1,725	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.64	4.30	1.90	1.64	2.20	10.80	5.20	52.00	5.60	2.10	1.46	0.92		
2	1.64	4.30	1.90	1.64	2.20	19.60	5.00	40.95	5.50	2.00	1.40	1.01		
3	1.64	4.30	1.70	1.90	1.70	16.20	4.80	30.22	5.40	2.00	1.40	1.16		
4	4.90	4.40	1.70	1.70	1.70	9.28	5.20	24.03	5.30	1.90	1.40	1.07		
5	4.80	6.96	1.70	1.64	1.64	9.28	5.50	21.40	5.10	1.90	1.34	1.10		
6	4.00	6.70	1.70	1.64	1.58	14.40	6.96	20.40	4.90	1.80	1.34	1.70		
7	3.90	6.20	1.70	1.64	1.52	15.60	13.00	19.40	4.70	1.80	1.28	1.64		
8	3.80	4.70	1.64	1.64	1.52	17.40	8.32	18.40	4.60	1.80	1.28	1.40		
9	3.80	4.40	1.64	1.58	1.70	22.41	6.83	38.73	4.50	1.70	1.28	1.28		
10	3.80	4.10	2.80	1.64	4.70	20.40	7.22	29.11	4.40	1.64	1.28	1.22		
11	3.50	3.70	4.00	1.64	4.70	22.41	6.70	21.40	4.30	1.64	1.28	1.16		
12	2.90	3.60	2.80	1.58	4.30	24.03	18.20	20.20	4.20	1.64	1.28	1.01		
13	2.70	3.50	2.30	1.58	3.50	48.50	35.40	19.00	4.10	1.64	1.28	1.28		
14	2.70	3.50	2.20	1.58	3.30	54.50	31.33	15.40	3.70	1.58	1.10	1.52		
15	2.50	3.60	2.20	1.58	3.10	37.25	26.89	14.20	3.50	1.58	1.10	1.52		
16	2.40	3.50	2.40	1.52	2.50	22.95	16.60	13.00	3.40	1.58	1.10	1.80		
17	2.10	3.70	2.70	1.52	2.40	18.60	9.44	12.40	3.20	1.58	1.07	1.52		
18	1.90	4.00	2.70	1.52	2.10	16.60	8.00	11.40	3.10	1.58	1.04	1.52		
19	1.64	6.83	2.40	1.52	2.00	14.20	7.87	10.80	3.00	1.58	1.04	2.10		
20	1.58	7.22	2.30	1.52	1.90	12.60	56.00	11.40	3.00	1.58	1.04	1.64		
21	1.58	6.70	2.20	1.40	1.70	12.40	35.77	10.20	2.90	1.58	1.04	1.64		
22	1.58	5.80	2.20	1.40	1.58	11.80	27.63	8.64	2.90	1.58	1.04	2.40		
23	1.52	4.30	2.00	1.34	1.46	8.96	20.40	8.32	2.70	1.58	1.01	3.60		
24	1.52	2.80	1.80	1.34	1.46	8.00	19.60	8.00	2.70	1.58	0.95	3.20		
25	1.52	3.10	1.64	1.34	1.40	7.35	21.40	7.74	2.60	1.52	0.95	2.70		
26	1.52	2.90	1.58	1.34	1.40	6.60	180.46	7.22	2.50	1.52	1.10	6.30		
27	1.70	3.60	1.58	1.58	4.40	6.20	154.20	7.09	2.30	1.52	0.98	6.60		
28	3.50	3.10	1.52	2.20	5.20	6.10	89.40	6.83	2.20	1.52	0.95	6.40		
29	4.90	2.90	1.58	2.40	5.70	6.60	71.00	6.70	2.10	1.46		5.20		
30	4.30	2.90	1.64	2.70	5.50	5.50	56.00	6.60	2.10	1.46		4.10		
31		2.90		2.70	13.60		54.00		2.10	1.46		3.30		
Total	81.48	134.51	62.12	51.96	93.66	506.52	1014.32	521.18	112.60	51.40	32.81	73.01	2735.57	CMSDAY
Mean	2.72	4.34	2.07	1.68	3.02	16.88	32.72	17.37	3.63	1.66	1.17	2.36	7.49	CMS
Max	4.90	7.22	4.00	2.70	13.60	54.50	180.46	52.00	5.60	2.10	1.46	6.60	180.46	CMS
Min	1.52	2.80	1.52	1.34	1.40	5.50	4.80	6.60	2.10	1.46	0.95	0.92	0.92	CMS
Runoff	7.04	11.62	5.37	4.49	8.09	43.76	87.64	45.03	9.73	4.44	2.83	6.31	236.35	MCM

Momentary Peak 188.00 CMS. at 53.55 m. (MSL.) at 06.00 Hours , on Oct 26, 2008

Runoff Yield 4.34 Liters/Second/Square KM. Momentary Peak Yield 108.99 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1941 to date
Rating Operation	
Period of Rating	1941 - 1943 , 1945, 1964 to date
Rated by Float	-
Rated by Current Meter	1941 - 1943 , 1945, 1964 to date
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	Overbank flow starts at elevation +10.950 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 17 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

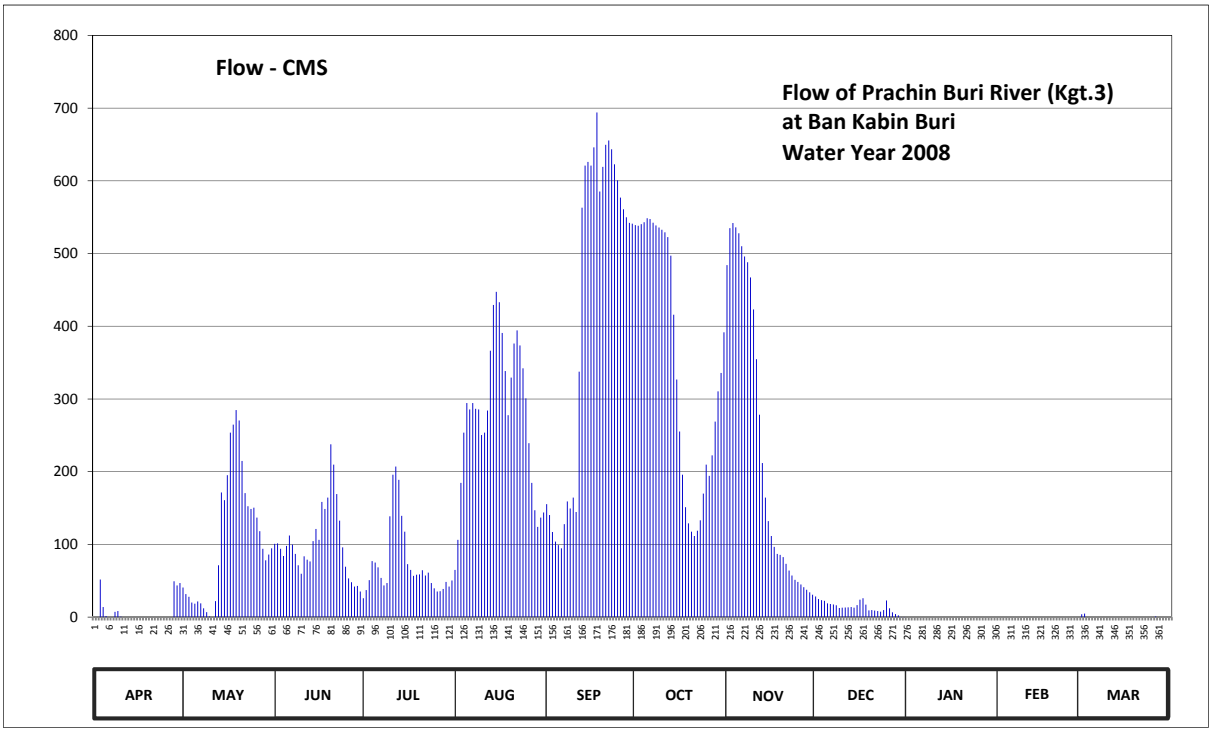
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.22	1.57	2.93	1.20	2.17	3.84	9.34	7.85	1.26	0.37	0.20	0.53	
2	0.25	1.34	2.94	1.48	3.02	3.59	9.31	8.36	1.17	0.30	0.15	0.56	
3	1.84	1.25	2.80	1.82	4.28	3.20	9.38	8.43	1.13	0.27	0.14	0.12	
4	0.86	1.05	2.60	2.46	5.22	2.98	9.47	8.37	1.11	0.22	0.14	0.05	
5	0.45	1.01	2.88	2.42	5.73	2.90	9.64	8.29	1.02	0.19	0.15	0.07	
6	0.10	1.09	3.12	2.26	5.62	2.81	9.61	8.11	1.00	0.16	0.13	0.11	
7	0.00	1.02	2.91	1.90	5.73	3.38	9.45	7.97	0.98	0.15	0.11	0.11	
8	0.64	0.80	2.66	1.64	5.63	3.90	9.32	7.89	0.94	0.14	0.10	0.09	
9	0.68	0.63	2.33	1.72	5.62	3.74	9.23	7.68	0.82	0.14	0.09	0.03	
10	0.42	0.43	2.04	3.56	5.18	3.99	9.09	7.19	0.83	0.12	0.01	0.02	
11	0.17	0.37	2.59	4.44	5.22	3.66	8.91	6.43	0.84	0.11	0.02	0.08	
12	0.01	1.10	2.50	4.60	5.60	6.24	8.56	5.53	0.85	0.09	0.02	0.08	
13	0.00	2.33	2.45	4.34	6.56	8.64	7.98	4.67	0.86	0.07	0.02	0.06	
14	0.12	4.09	2.99	3.57	7.26	9.22	7.11	3.99	0.83	0.06	0.01	0.02	
15	0.29	3.93	3.27	3.21	7.46	9.27	6.12	3.45	0.95	0.05	0.00	0.00	
16	0.09	4.43	3.02	2.37	7.30	9.22	5.24	3.11	1.15	0.05	0.00	0.00	
17	0.00	5.22	3.89	2.17	6.83	9.47	4.44	2.85	1.20	0.04	0.00	0.29	
18	0.00	5.36	3.73	1.97	6.25	9.95	3.77	2.66	0.97	0.04	0.00	0.12	
19	0.00	5.61	3.99	2.01	5.52	10.36	3.40	2.63	0.71	0.04	0.00	0.16	
20	0.00	5.43	5.02	2.02	6.15	10.71	3.21	2.57	0.72	0.03	0.00	0.21	
21	0.00	4.71	4.64	2.16	6.67	10.93	3.11	2.38	0.70	0.02	0.00	0.22	
22	0.00	4.08	4.06	1.98	6.87	10.97	3.23	2.15	0.68	0.01	0.00	0.21	
23	0.00	3.79	3.46	2.08	6.64	10.89	3.47	1.98	0.65	0.00	0.00	0.18	
24	0.00	3.73	2.84	1.72	6.29	10.74	4.07	1.83	0.72	0.00	0.00	0.23	
25	0.03	3.76	2.28	1.54	5.81	10.53	4.64	1.76	1.12	0.00	0.00	0.36	
26	0.02	3.53	1.88	1.43	5.04	10.25	4.42	1.67	0.80	0.00	0.00	0.43	
27	0.15	3.22	1.75	1.44	4.28	9.94	4.82	1.58	0.62	0.00	0.00	0.31	
28	1.78	2.80	1.60	1.52	3.70	9.67	5.41	1.49	0.54	0.00	0.00	0.31	
29	1.64	2.48	1.62	1.76	3.32	9.44	5.93	1.40	0.48	0.33		0.26	
30	1.72	2.64	1.43	1.60	3.53	9.40	6.22	1.32	0.41	0.30		0.24	
31		2.81		1.81	3.65		6.84		0.41	0.26		0.20	
Mean	0.38	2.76	2.87	2.26	5.42	7.46	6.60	4.52	0.85	0.11	0.05	0.18	
Max	1.84	5.61	5.02	4.60	7.46	10.97	9.64	8.43	1.26	0.37	0.20	0.56	10.97
Min	0.00	0.37	1.43	1.20	2.17	2.81	3.11	1.32	0.41	0.00	0.00	0.00	0.00

Annual Max Momentary Gage Height 10.99 m. (MSL.) , at 09.00 Hours, on Sep 21, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -0.87 m. (MSL.)

Left Bank Elevation 11.22 m. (MSL.) ,

Right Bank Elevation 10.94 m. (MSL.) , Drainage Are 7,425 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	40.80	100.80	26.00	64.80	155.40	539.20	484.00	28.40	0.00	0.00	3.90		
2	0.00	31.60	101.40	37.20	106.20	140.40	538.30	535.00	24.80	0.00	0.00	4.80		
3	51.60	28.00	94.00	50.80	184.60	117.00	540.40	542.00	23.20	0.00	0.00	0.00		
4	13.80	20.00	84.00	77.00	253.60	103.80	543.10	536.00	22.40	0.00	0.00	0.00		
5	1.50	18.40	98.00	75.00	294.40	99.00	548.60	528.00	18.80	0.00	0.00	0.00		
6	0.00	21.60	112.20	68.40	285.60	94.50	547.40	510.00	18.00	0.00	0.00	0.00		
7	0.00	18.80	99.60	54.00	294.40	127.80	542.50	496.00	17.40	0.00	0.00	0.00		
8	7.20	12.00	87.00	43.60	286.40	159.00	538.60	488.00	16.20	0.00	0.00	0.00		
9	8.40	6.90	71.20	46.80	285.60	149.40	535.90	467.20	12.60	0.00	0.00	0.00		
10	0.60	0.90	59.60	138.60	250.40	164.40	532.80	423.10	12.90	0.00	0.00	0.00		
11	0.00	0.00	83.50	195.80	253.60	144.60	529.20	354.70	13.20	0.00	0.00	0.00		
12	0.00	22.00	79.00	207.00	284.00	337.60	522.60	278.40	13.50	0.00	0.00	0.00		
13	0.00	71.20	76.50	188.80	366.40	563.00	497.00	211.90	13.80	0.00	0.00	0.00		
14	0.00	171.30	104.40	139.20	429.40	621.00	415.90	164.40	12.90	0.00	0.00	0.00		
15	0.00	160.80	121.20	117.60	447.40	626.00	326.80	132.00	16.50	0.00	0.00	0.00		
16	0.00	195.10	106.20	72.80	433.00	621.00	255.20	111.60	24.00	0.00	0.00	0.00		
17	0.00	253.60	158.40	64.80	390.70	646.00	195.80	96.50	26.00	0.00	0.00	0.00		
18	0.00	264.80	148.80	56.80	338.50	694.00	151.20	87.00	17.10	0.00	0.00	0.00		
19	0.00	284.80	164.40	58.40	277.60	585.40	129.00	85.50	9.30	0.00	0.00	0.00		
20	0.00	270.40	237.60	58.80	329.50	619.20	117.60	82.50	9.60	0.00	0.00	0.00		
21	0.00	214.70	209.80	64.40	376.30	649.50	111.60	73.20	9.00	0.00	0.00	0.00		
22	0.00	170.60	169.20	57.20	394.30	655.50	118.80	64.00	8.40	0.00	0.00	0.00		
23	0.00	152.40	132.60	61.20	373.60	643.50	133.20	57.20	7.50	0.00	0.00	0.00		
24	0.00	148.80	96.00	46.80	342.10	622.80	169.90	51.20	9.60	0.00	0.00	0.00		
25	0.00	150.60	69.20	39.60	300.80	600.70	209.80	48.40	22.80	0.00	0.00	0.00		
26	0.00	136.80	53.20	35.20	239.20	577.00	194.40	44.80	12.00	0.00	0.00	0.90		
27	0.00	118.20	48.00	35.60	184.60	561.00	222.40	41.20	6.60	0.00	0.00	0.00		
28	49.20	94.00	42.00	38.80	147.00	549.80	268.80	37.60	4.20	0.00	0.00	0.00		
29	43.60	78.00	42.80	48.40	124.20	542.20	310.40	34.00	2.40	0.00		0.00		
30	46.80	86.00	35.20	42.00	136.80	541.00	335.80	30.80	0.30	0.00		0.00		
31		94.50		50.40	144.00		391.60		0.30	0.00		0.00		
Total	222.70	3337.60	3085.80	2297.00	8619.00	12711.50	11013.80	7096.20	433.70	0.00	0.00	9.60	48826.90	CMSDAY
Mean	7.42	107.66	102.86	74.10	278.03	423.72	355.28	236.54	13.99	0.00	0.00	0.31	133.77	CMS
Max	51.60	284.80	237.60	207.00	447.40	694.00	548.60	542.00	28.40	0.00	0.00	4.80	694.00	CMS
Min	0.00	0.00	35.20	26.00	64.80	94.50	111.60	30.80	0.30	0.00	0.00	0.00	0.00	CMS
Runoff	19.24	288.37	266.61	198.46	744.68	1098.27	951.59	613.11	37.47	0.00	0.00	0.83	4218.64	MCM

Momentary Peak 658.50 CMS, at 10.99 m. (MSL.), at 09.00 Hours, on Sep 21, 2008

Runoff Yield 18.02 Liters/Second/Square KM. Momentary Peak Yield 88.69 Liters/Second/Square KM.

WATER YEAR : 2008

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.

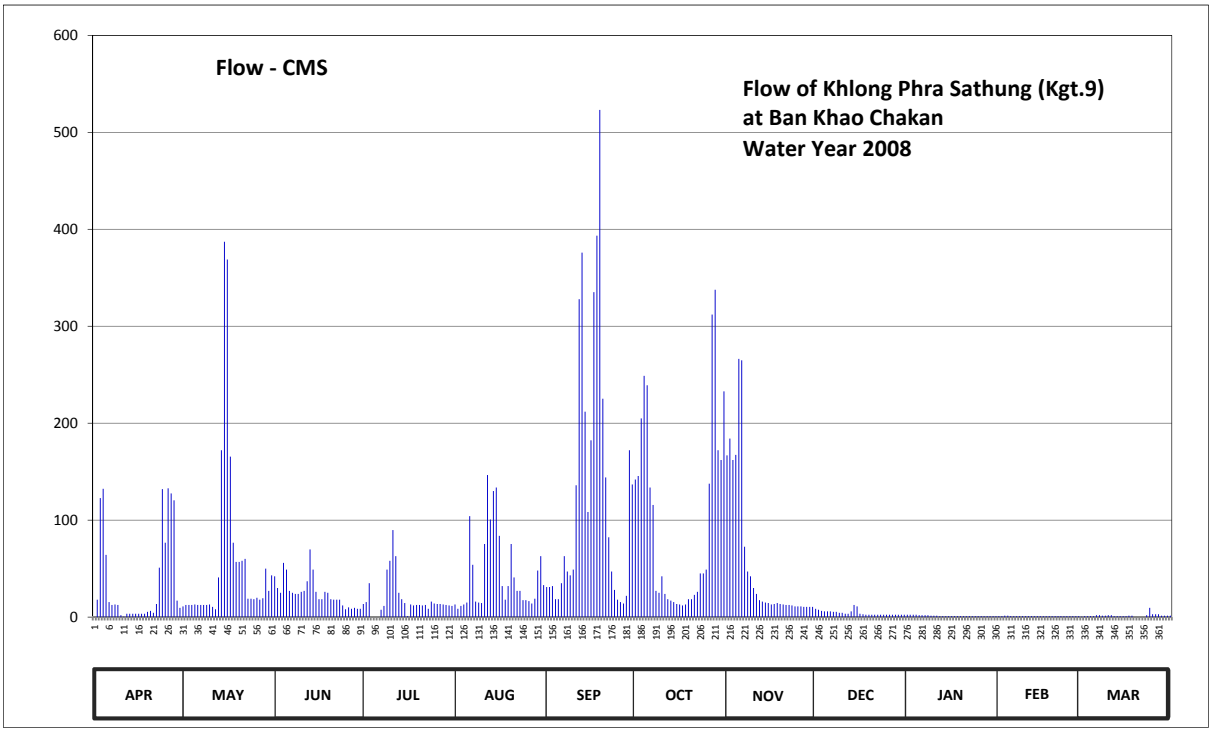
Ban Khao Chakan **Amphoe** Khao Chakan **Changwat** Sa Kaeo

Drainge Area	2,264 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+39.566 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 10 meters from the automatic gage building. **Elevation** +48.586 m. (MSL.)
Gage Reading Frequency	Recording
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1972 to date
Rating Operation	
Period of Rating	1972 - 1987 , 1989 to date
Rated by Float	-
Rated by Current Meter	1972 - 1987 , 1989 to date
Stability of Channel Regimes	Fairly stable because of backwater effect.
Overbank Flow Conditions	Overbank flow starts at elevation +47.020 m.(MSL.), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	43.19	43.42	43.82	43.47	43.46	43.71	44.70	45.18	43.37	43.25	43.22	43.21	
2	43.56	43.45	43.70	43.51	43.37	43.71	44.77	45.47	43.35	43.25	43.22	43.22	
3	44.37	43.45	43.65	43.75	43.43	43.72	45.77	45.10	43.33	43.25	43.23	43.22	
4	44.46	43.45	43.96	43.15	43.46	43.57	46.36	45.19	43.32	43.25	43.23	43.22	
5	44.03	43.46	43.89	42.67	43.50	43.57	46.24	46.58	43.32	43.24	43.22	43.22	
6	43.51	43.45	43.67	42.77	44.29	43.75	44.49	46.56	43.32	43.24	43.22	43.24	
7	43.45	43.45	43.65	43.35	43.94	44.02	44.34	44.09	43.31	43.24	43.22	43.24	
8	43.46	43.45	43.64	43.43	43.52	43.87	43.67	43.87	43.31	43.24	43.22	43.23	
9	43.45	43.45	43.64	43.89	43.50	43.83	43.65	43.82	43.29	43.23	43.22	43.23	
10	43.24	43.46	43.66	43.98	43.49	43.89	43.82	43.70	43.29	43.23	43.22	43.24	
11	43.21	43.41	43.67	44.21	44.11	44.55	43.64	43.64	43.27	43.23	43.22	43.24	
12	43.27	43.36	43.77	44.02	44.79	47.35	43.57	43.55	43.27	43.22	43.22	43.22	
13	43.27	43.81	44.07	43.65	44.27	47.95	43.54	43.52	43.32	43.22	43.22	43.22	
14	43.27	45.27	43.89	43.57	44.40	45.87	43.51	43.50	43.45	43.22	43.22	43.22	
15	43.27	48.08	43.66	43.49	44.49	44.31	43.47	43.49	43.42	43.22	43.22	43.22	
16	43.27	47.86	43.57	43.22	44.17	45.44	43.46	43.46	43.27	43.22	43.22	43.22	
17	43.27	45.16	43.57	43.46	43.72	47.44	43.44	43.47	43.26	43.22	43.22	43.23	
18	43.27	44.12	43.66	43.44	43.56	48.15	43.46	43.49	43.25	43.22	43.22	43.23	
19	43.31	43.97	43.65	43.45	43.72	49.59	43.57	43.47	43.25	43.22	43.22	43.17	
20	43.33	43.97	43.57	43.45	44.11	46.06	43.57	43.46	43.25	43.22	43.22	43.20	
21	43.29	43.98	43.56	43.44	43.81	44.74	43.63	43.45	43.25	43.22	43.22	43.17	
22	43.47	44.00	43.56	43.45	43.67	44.16	43.66	43.45	43.25	43.22	43.22	43.20	
23	43.91	43.58	43.56	43.37	43.67	43.87	43.85	43.44	43.25	43.22	43.22	43.24	
24	44.45	43.58	43.44	43.52	43.55	43.68	43.85	43.42	43.25	43.22	43.22	43.39	
25	44.12	43.57	43.36	43.48	43.55	43.56	43.89	43.42	43.25	43.22	43.22	43.26	
26	44.47	43.60	43.40	43.47	43.53	43.51	44.59	43.42	43.25	43.22	43.22	43.26	
27	44.39	43.56	43.37	43.47	43.48	43.48	47.15	43.41	43.25	43.22	43.22	43.26	
28	44.36	43.59	43.39	43.46	43.58	43.62	47.47	43.41	43.25	43.22	43.22	43.23	
29	43.54	43.90	43.37	43.45	43.88	45.27	45.27	43.41	43.25	43.22		43.23	
30	43.39	43.67	43.37	43.44	44.02	44.57	45.10	43.41	43.25	43.22		43.23	
31		43.83		43.43	43.73		46.16		43.25	43.22		43.23	
Mean	43.63	44.01	43.62	43.48	43.80	44.83	44.44	43.96	43.29	43.23	43.22	43.23	
Max	44.47	48.08	44.07	44.21	44.79	49.59	47.47	46.58	43.45	43.25	43.23	43.39	49.59
Min	43.19	43.36	43.36	42.67	43.37	43.48	43.44	43.41	43.25	43.22	43.22	43.17	42.67

Annual Max Momentary Gage Height	49.62	m. (MSL.) ,	at 12.00 Hours, on Sep 19, 2008		
Zero Gage at Bottom Elevation	39.57	m. (MSL.) ,	River Bed	39.20	m. (MSL.)
Left Bank Elevation	47.01	m. (MSL.) ,			
Right Bank Elevation	48.44	m. (MSL.) ,	Drainage Are	2,264	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	11.00	42.00	13.50	13.00	31.00	142.00	166.80	8.50	2.50	1.00	0.50		
2	18.00	12.50	30.00	15.50	8.50	31.00	145.50	184.20	7.50	2.50	1.00	1.00		
3	122.80	12.50	25.00	35.00	11.50	32.00	204.90	162.00	6.50	2.50	1.50	1.00		
4	132.40	12.50	56.00	0.00	13.00	18.50	248.80	167.40	6.00	2.50	1.50	1.00		
5	64.20	13.00	49.00	0.00	15.00	18.50	239.20	266.40	6.00	2.00	1.00	1.00		
6	15.50	12.50	27.00	0.00	104.20	35.00	133.60	264.80	6.00	2.00	1.00	2.00		
7	12.50	12.50	25.00	7.50	54.00	62.80	115.60	72.60	5.50	2.00	1.00	2.00		
8	13.00	12.50	24.00	11.50	16.00	47.00	27.00	47.00	5.50	2.00	1.00	1.50		
9	12.50	12.50	24.00	49.00	15.00	43.00	25.00	42.00	4.50	1.50	1.00	1.50		
10	2.00	13.00	26.00	58.00	14.50	49.00	42.00	30.00	4.50	1.50	1.00	2.00		
11	0.50	10.50	27.00	89.80	75.40	136.00	24.00	24.00	3.50	1.50	1.00	2.00		
12	3.50	8.00	37.00	62.80	146.50	328.00	18.50	17.50	3.50	1.00	1.00	1.00		
13	3.50	41.00	69.80	25.00	100.60	376.00	17.00	16.00	6.00	1.00	1.00	1.00		
14	3.50	172.20	49.00	18.50	130.00	211.90	15.50	15.00	12.50	1.00	1.00	1.00		
15	3.50	387.20	26.00	14.50	133.60	108.40	13.50	14.50	11.00	1.00	1.00	1.00		
16	3.50	368.80	18.50	1.00	83.80	182.40	13.00	13.00	3.50	1.00	1.00	1.00		
17	3.50	165.60	18.50	13.00	32.00	335.20	12.00	13.50	3.00	1.00	1.00	1.50		
18	3.50	76.80	26.00	12.00	18.00	393.50	13.00	14.50	2.50	1.00	1.00	1.50		
19	5.50	57.00	25.00	12.50	32.00	523.10	18.50	13.50	2.50	1.00	1.00	0.00		
20	6.50	57.00	18.50	12.50	75.40	225.20	18.50	13.00	2.50	1.00	1.00	0.00		
21	4.50	58.00	18.00	12.00	41.00	144.00	23.00	12.50	2.50	1.00	1.00	0.00		
22	13.50	60.00	18.00	12.50	27.00	82.40	26.00	12.50	2.50	1.00	1.00	0.00		
23	51.00	19.00	18.00	8.50	27.00	47.00	45.00	12.00	2.50	1.00	1.00	2.00		
24	132.00	19.00	12.00	16.00	17.50	28.00	45.00	11.00	2.50	1.00	1.00	9.50		
25	76.80	18.50	8.00	14.00	17.50	18.00	49.00	11.00	2.50	1.00	1.00	3.00		
26	132.80	20.00	10.00	13.50	16.50	15.50	137.60	11.00	2.50	1.00	1.00	3.00		
27	127.60	18.00	8.50	13.50	14.00	14.00	312.00	10.50	2.50	1.00	1.00	3.00		
28	120.40	19.50	9.50	13.00	19.00	22.00	337.60	10.50	2.50	1.00	1.00	1.50		
29	17.00	50.00	8.50	12.50	48.00	172.20	172.20	10.50	2.50	1.00		1.50		
30	9.50	27.00	8.50	12.00	62.80	136.80	162.00	10.50	2.50	1.00		1.50		
31		43.00		11.50	33.00		232.80		2.50	1.00		1.50		
Total	1115.00	1820.60	762.30	590.60	1415.30	3867.40	3029.30	1669.70	138.50	42.50	29.00	50.00	14530.20	CMSDAY
Mean	37.17	58.73	25.41	19.05	45.65	128.91	97.72	55.66	4.47	1.37	1.04	1.61	39.81	CMS
Max	132.80	387.20	69.80	89.80	146.50	523.10	337.60	266.40	12.50	2.50	1.50	9.50	523.10	CMS
Min	0.00	8.00	8.00	0.00	8.50	14.00	12.00	10.50	2.50	1.00	1.00	0.00	0.00	CMS
Runoff	96.34	157.30	65.86	51.03	122.28	334.14	261.73	144.26	11.97	3.67	2.51	4.32	1255.41	MCM

Momentary Peak 525.80 CMS, at 49.62 m. (MSL.), at 12.00 Hours, on Sep 19, 2008

Runoff Yield 17.58 Liters/Second/Square KM. Momentary Peak Yield 232.24 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1966 to date
Rating Operation	
Period of Rating	1966 to date
Rated by Float	-
Rated by Current Meter	1966 to date
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	Overbank flow starts at elevation +22.340 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 28 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

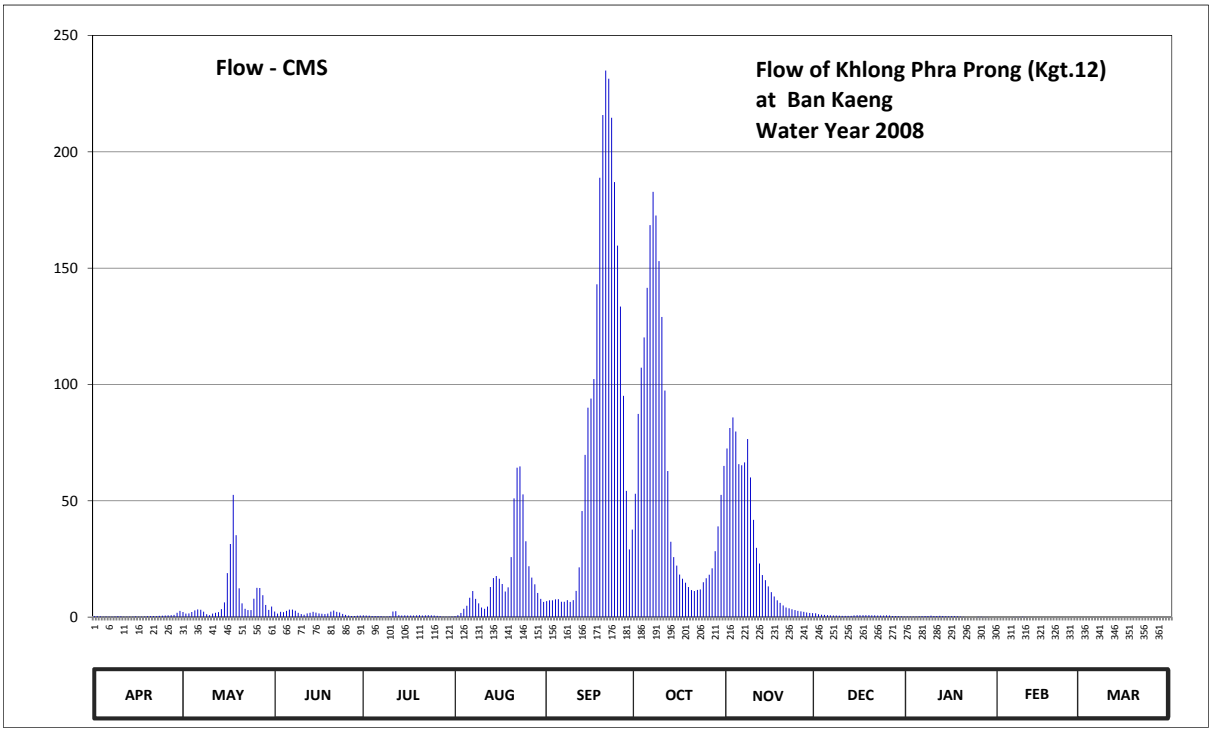
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.47	14.94	14.98	14.59	14.45	15.59	18.68	19.46	14.83	14.40	14.27	16.26	
2	14.46	14.80	14.80	14.57	14.64	15.62	20.01	19.81	14.75	14.40	14.28	16.25	
3	14.43	14.81	14.95	14.54	14.85	15.62	20.62	19.96	14.71	14.40	14.28	16.24	
4	14.39	14.94	14.92	14.50	15.21	15.66	20.98	19.75	14.68	14.41	14.29	16.24	
5	14.41	15.08	15.04	14.49	15.39	15.67	21.47	19.19	14.63	14.44	14.29	16.25	
6	14.39	15.16	15.15	14.49	15.73	15.56	21.99	19.17	14.61	14.45	14.31	16.26	
7	14.38	15.13	15.14	14.46	16.02	15.56	22.23	19.22	14.58	14.48	14.32	16.26	
8	14.42	14.97	15.05	14.42	15.68	15.63	22.06	19.62	14.56	14.50	14.32	16.26	
9	14.45	14.74	14.87	14.42	15.49	15.55	21.70	18.96	14.54	14.53	14.34	16.25	
10	14.43	14.64	14.76	14.45	15.31	15.63	21.20	18.14	14.52	14.50	14.31	16.24	
11	14.39	14.80	14.70	14.98	15.22	16.03	20.34	17.52	14.52	14.49	14.29	16.23	
12	14.38	14.87	14.82	15.01	15.35	16.96	19.07	17.07	14.51	14.51	14.26	16.23	
13	14.37	14.92	14.87	14.63	16.19	18.33	17.67	16.71	14.52	14.49	14.30	16.24	
14	14.39	15.18	14.95	14.58	16.58	19.35	17.25	16.49	14.59	14.46	14.51	16.24	
15	14.44	15.53	14.88	14.60	16.67	20.10	17.01	16.22	14.63	14.43	14.60	16.25	
16	14.39	16.79	14.82	14.56	16.55	20.23	16.73	15.97	14.63	14.45	14.70	16.26	
17	14.38	17.62	14.79	14.56	16.32	20.48	16.55	15.79	14.62	14.46	14.86	16.26	
18	14.40	18.66	14.76	14.56	16.00	21.50	16.38	15.62	14.62	14.43	14.85	16.26	
19	14.46	17.81	14.80	14.60	16.18	22.33	16.19	15.51	14.64	14.39	15.00	16.29	
20	14.47	16.14	14.96	14.62	17.25	22.78	16.06	15.40	14.61	14.35	14.93	16.30	
21	14.48	15.49	15.06	14.56	18.60	23.07	16.02	15.31	14.60	14.30	14.89	16.29	
22	14.47	15.21	14.95	14.60	19.13	23.02	16.07	15.25	14.56	14.30	15.11	16.28	
23	14.51	15.10	14.90	14.62	19.15	22.76	16.09	15.17	14.56	14.29	15.45	16.29	
24	14.55	15.10	14.78	14.60	18.67	22.30	16.40	15.10	14.58	14.30	16.06	16.29	
25	14.58	15.69	14.67	14.57	17.68	21.83	16.57	15.04	14.60	14.35	16.23	16.29	
26	14.60	16.16	14.58	14.52	16.99	21.30	16.72	15.00	14.57	14.36	16.24	16.30	
27	14.62	16.15	14.50	14.45	16.60	20.27	16.93	14.95	14.50	14.32	16.24	16.31	
28	14.68	15.84	14.48	14.39	16.31	18.73	17.42	14.90	14.48	14.31	16.24	16.30	
29	14.87	15.42	14.54	14.38	15.94	17.47	18.00	14.86	14.46	14.28		16.28	
30	15.03	15.12	14.58	14.37	15.68	17.93	18.66	14.84	14.43	14.26		16.27	
31		15.35		14.41	15.55		19.16		14.40	14.25		16.27	
Mean	14.49	15.55	14.83	14.55	16.30	18.76	18.46	16.87	14.58	14.40	14.85	16.27	
Max	15.03	18.66	15.15	15.01	19.15	23.07	22.23	19.96	14.83	14.53	16.24	16.31	23.07
Min	14.37	14.64	14.48	14.37	14.45	15.55	16.02	14.84	14.40	14.25	14.26	16.23	14.25

Annual Max Momentary Gage Height 23.10 m. (MSL.) , at 12.00 Hours, on Sep 21, 2008

Zero Gage at Bottom Elevation 13.84 m. (MSL.) , River Bed 13.26 m. (MSL.)

Left Bank Elevation 23.47 m. (MSL.) ,

Right Bank Elevation 22.33 m. (MSL.) , Drainage Are 1,478 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.43	2.20	2.40	0.73	0.38	6.90	53.00	72.50	1.65	0.25	0.00	0.00		
2	0.40	1.50	1.50	0.68	0.85	7.20	87.30	81.30	1.25	0.25	0.00	0.00		
3	0.33	1.55	2.25	0.60	1.75	7.20	107.20	85.80	1.05	0.25	0.00	0.00		
4	0.23	2.20	2.10	0.50	3.55	7.60	120.20	79.75	0.95	0.28	0.00	0.00		
5	0.28	2.90	2.70	0.48	4.90	7.70	141.50	65.75	0.83	0.35	0.00	0.00		
6	0.23	3.30	3.25	0.48	8.30	6.60	168.45	65.25	0.78	0.38	0.03	0.00		
7	0.20	3.15	3.20	0.40	11.20	6.60	182.80	66.50	0.70	0.45	0.05	0.00		
8	0.30	2.35	2.75	0.30	7.80	7.30	172.60	76.50	0.65	0.50	0.05	0.00		
9	0.38	1.20	1.85	0.30	5.90	6.50	153.00	60.00	0.60	0.58	0.10	0.00		
10	0.33	0.85	1.30	0.38	4.10	7.30	129.00	41.80	0.55	0.50	0.03	0.00		
11	0.23	1.50	1.00	2.40	3.60	11.30	97.40	29.80	0.55	0.48	0.00	0.00		
12	0.20	1.85	1.60	2.55	4.50	21.40	62.75	23.05	0.53	0.53	0.00	0.00		
13	0.18	2.10	1.85	0.83	12.90	45.60	32.40	18.10	0.55	0.48	0.00	0.00		
14	0.23	3.40	2.25	0.70	16.80	69.75	25.75	15.90	0.73	0.40	0.00	0.00		
15	0.35	6.30	1.90	0.75	17.70	90.00	22.15	13.20	0.83	0.33	0.00	0.00		
16	0.23	18.90	1.60	0.65	16.50	93.90	18.30	10.70	0.83	0.38	0.00	0.00		
17	0.20	31.40	1.45	0.65	14.20	102.30	16.50	8.90	0.80	0.40	0.00	0.00		
18	0.25	52.50	1.30	0.65	11.00	143.00	14.80	7.20	0.80	0.33	0.00	0.00		
19	0.40	35.20	1.50	0.75	12.80	188.80	12.90	6.10	0.85	0.23	0.00	0.00		
20	0.43	12.40	2.30	0.80	25.75	215.80	11.60	5.00	0.78	0.13	0.00	0.00		
21	0.45	5.90	2.80	0.65	51.00	234.90	11.20	4.10	0.75	0.00	0.00	0.00		
22	0.43	3.55	2.25	0.75	64.25	231.40	11.70	3.75	0.65	0.00	0.00	0.00		
23	0.53	3.00	2.00	0.80	64.75	214.60	11.90	3.35	0.65	0.00	0.00	0.00		
24	0.63	3.00	1.40	0.75	52.75	187.00	15.00	3.00	0.70	0.00	0.00	0.00		
25	0.70	7.90	0.93	0.68	32.60	159.65	16.70	2.70	0.75	0.13	0.00	0.00		
26	0.75	12.60	0.70	0.55	21.85	133.50	18.20	2.50	0.68	0.15	0.00	0.00		
27	0.80	12.50	0.50	0.38	17.00	95.10	20.95	2.25	0.50	0.05	0.00	0.00		
28	0.95	9.40	0.45	0.23	14.10	54.25	28.30	2.00	0.45	0.03	0.00	0.00		
29	1.85	5.20	0.60	0.20	10.40	29.05	39.00	1.80	0.40	0.00		0.00		
30	2.65	3.10	0.70	0.18	7.80	37.60	52.50	1.70	0.33	0.00		0.00		
31		4.50		0.28	6.50		65.00		0.25	0.00		0.00		
Total	15.55	257.40	52.38	21.03	527.48	2429.80	1920.05	860.25	22.37	7.84	0.26	0.00	6114.41	CMSDAY
Mean	0.52	8.30	1.75	0.68	17.02	80.99	61.94	28.68	0.72	0.25	0.01	0.00	16.75	CMS
Max	2.65	52.50	3.25	2.55	64.75	234.90	182.80	85.80	1.65	0.58	0.10	0.00	234.90	CMS
Min	0.18	0.85	0.45	0.18	0.38	6.50	11.20	1.70	0.25	0.00	0.00	0.00	0.00	CMS
Runoff	1.34	22.24	4.53	1.82	45.57	209.93	165.89	74.33	1.93	0.68	0.02	0.00	528.29	MCM

Momentary Peak 237.00 CMS, at 23.10 m. (MSL.), at 12.00 Hours, on Sep 21, 2008

Runoff Yield 11.33 Liters/Second/Square KM. Momentary Peak Yield 160.31 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	4,906 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+2.860 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the top staff gage. **Elevation** +15.000 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	1997 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Float	-
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 17 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

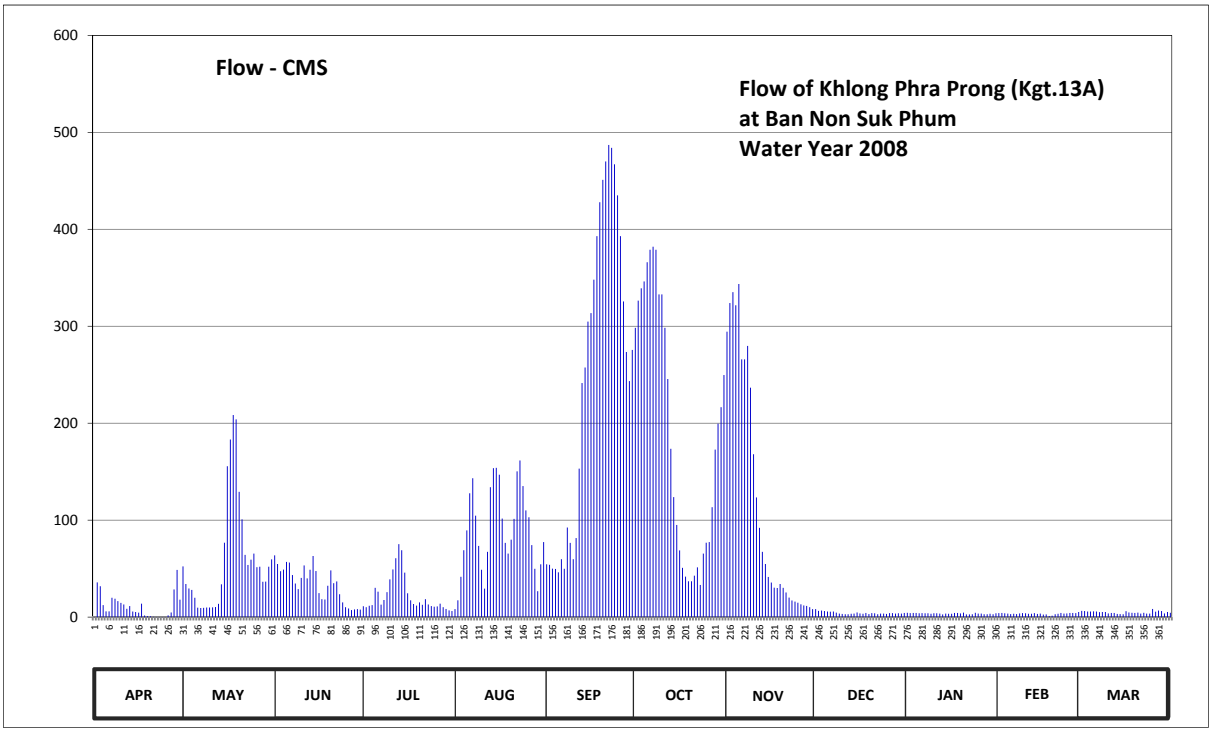
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.03	8.39	8.85	6.18	5.98	8.48	14.28	14.23	5.98	5.57	5.52	5.83	
2	7.59	7.51	8.49	6.12	6.59	8.46	14.63	14.60	5.82	5.52	5.54	5.80	
3	7.39	7.28	8.17	6.21	7.88	8.30	14.79	14.74	5.86	5.54	5.51	5.74	
4	6.26	7.20	8.25	6.26	9.06	8.28	14.87	14.57	5.81	5.55	5.46	5.74	
5	5.76	6.76	8.58	7.31	9.78	8.11	15.08	14.84	5.75	5.51	5.40	5.76	
6	5.76	6.08	8.55	7.11	10.99	8.69	15.21	13.84	5.71	5.52	5.45	5.75	
7	6.76	6.06	7.97	6.29	11.38	8.29	15.24	13.84	5.74	5.51	5.40	5.66	
8	6.70	6.07	7.53	6.61	10.29	9.88	15.21	14.04	5.59	5.51	5.49	5.68	
9	6.53	6.09	7.24	7.09	9.24	9.35	14.71	13.41	5.47	5.44	5.52	5.68	
10	6.41	6.09	7.82	7.75	8.24	8.69	14.71	12.00	5.42	5.51	5.51	5.49	
11	6.30	6.10	8.43	8.26	7.27	9.52	14.28	10.87	5.39	5.51	5.44	5.55	
12	6.01	6.13	7.80	8.73	8.99	11.63	13.55	9.87	5.37	5.46	5.44	5.54	
13	6.19	6.35	8.24	9.31	11.15	13.49	12.14	8.99	5.44	5.36	5.53	5.43	
14	5.74	7.49	8.82	9.06	11.64	13.72	10.88	8.49	5.47	5.47	5.43	5.40	
15	5.68	9.36	8.18	8.09	11.65	14.36	9.97	7.87	5.62	5.45	5.46	5.37	
16	5.59	11.69	7.04	7.03	11.47	14.47	9.05	7.58	5.49	5.44	5.34	5.79	
17	6.36	12.38	6.67	6.59	10.19	14.89	8.33	7.32	5.44	5.55	5.36	5.61	
18	5.20	12.91	6.64	6.34	9.35	15.35	7.89	7.30	5.54	5.54	5.15	5.58	
19	5.13	12.82	7.42	6.22	8.92	15.70	7.65	7.51	5.41	5.48	5.18	5.55	
20	5.10	11.03	8.21	6.44	9.46	15.93	7.65	7.31	5.52	5.59	5.37	5.60	
21	5.05	10.16	7.55	6.28	10.18	16.12	7.94	7.07	5.51	5.35	5.44	5.47	
22	5.03	8.87	7.64	6.66	11.56	16.29	8.35	6.78	5.37	5.35	5.56	5.58	
23	5.02	8.45	6.98	6.30	11.84	16.26	7.46	6.58	5.47	5.38	5.46	5.46	
24	5.02	8.67	6.44	6.19	11.18	16.09	8.92	6.50	5.46	5.58	5.49	5.47	
25	5.02	8.92	6.12	6.15	10.47	15.77	9.36	6.42	5.43	5.47	5.55	5.99	
26	5.24	8.36	6.03	6.17	10.23	15.35	9.38	6.31	5.53	5.46	5.56	5.73	
27	5.61	8.38	5.92	6.36	9.27	14.62	10.58	6.24	5.52	5.37	5.52	5.86	
28	7.23	7.62	5.96	6.12	8.29	13.95	12.12	6.20	5.47	5.39	5.68	5.80	
29	8.23	7.63	5.98	5.99	7.14	13.52	12.73	6.11	5.51	5.44		5.49	
30	6.63	8.38	5.95	5.90	8.48	13.98	13.07	5.98	5.46	5.38		5.68	
31		8.68		5.81	9.38		13.61		5.55	5.51		5.57	
Mean	5.99	8.32	7.45	6.80	9.60	12.58	11.73	9.58	5.55	5.47	5.46	5.63	
Max	8.23	12.91	8.85	9.31	11.84	16.29	15.24	14.84	5.98	5.59	5.68	5.99	16.29
Min	5.02	6.06	5.92	5.81	5.98	8.11	7.46	5.98	5.37	5.35	5.15	5.37	5.02

Annual Max Momentary Gage Height 16.31 m. (MSL.) , at 18.00 Hours, on Sep 22, 2008

Zero Gage at Bottom Elevation 2.86 m. (MSL.) , River Bed 3.68 m. (MSL.)

Left Bank Elevation 17.22 m. (MSL.) ,

Right Bank Elevation 17.92 m. (MSL.) , Drainage Are 4,906 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.23	52.25	63.75	11.20	8.20	54.50	298.40	294.40	8.20	4.43	4.04	6.46		
2	35.80	34.20	54.75	10.30	17.35	54.00	326.40	324.00	6.38	4.04	4.20	6.22		
3	31.80	29.60	47.40	11.65	41.60	50.00	339.20	335.20	6.69	4.20	3.97	5.76		
4	12.40	28.00	49.00	12.40	69.00	49.60	346.30	321.60	6.30	4.28	3.58	5.76		
5	5.91	19.90	57.00	30.20	89.40	46.20	366.00	343.60	5.83	3.97	3.11	5.91		
6	5.91	9.70	56.25	26.20	127.65	59.75	379.00	265.80	5.52	4.04	3.50	5.83		
7	19.90	9.40	43.40	12.85	143.20	49.80	382.00	265.80	5.76	3.97	3.11	5.13		
8	19.00	9.55	34.60	17.65	104.70	92.40	379.00	279.80	4.59	3.97	3.81	5.29		
9	16.45	9.85	28.80	25.80	73.50	76.50	332.80	236.60	3.66	3.42	4.04	5.29		
10	14.65	9.85	40.40	39.00	48.80	59.75	332.80	168.00	3.27	3.97	3.97	3.81		
11	13.00	10.00	53.25	49.20	29.40	81.60	298.40	123.45	3.03	3.97	3.42	4.28		
12	8.65	10.45	40.00	60.75	67.25	153.20	245.50	92.10	2.88	3.58	3.42	4.20		
13	11.35	13.75	48.80	75.30	134.00	241.40	173.60	67.25	3.42	2.80	4.12	3.34		
14	5.76	33.80	63.00	69.00	153.60	257.40	123.80	54.75	3.66	3.66	3.34	3.11		
15	5.29	76.80	47.60	45.80	154.00	304.80	95.10	41.40	4.82	3.50	3.58	2.88		
16	4.59	155.60	24.80	24.60	146.80	313.60	68.75	35.60	3.81	3.42	2.64	6.14		
17	13.90	183.20	18.55	17.35	101.70	348.10	50.75	30.40	3.42	4.28	2.80	4.74		
18	1.56	208.50	18.10	13.60	76.50	393.00	41.80	30.00	4.20	4.20	1.17	4.51		
19	1.01	204.00	32.40	11.80	65.50	428.00	37.00	34.20	3.19	3.73	1.40	4.28		
20	0.78	129.20	48.20	15.10	79.80	451.00	37.00	30.20	4.04	4.59	2.88	4.67		
21	0.39	100.80	35.00	12.70	101.40	470.00	42.80	25.40	3.97	2.72	3.42	3.66		
22	0.23	64.25	36.80	18.40	150.40	487.00	51.25	20.20	2.88	2.72	4.36	4.51		
23	0.16	53.75	23.60	13.00	161.60	484.00	33.20	17.20	3.66	2.96	3.58	3.58		
24	0.16	59.25	15.10	11.35	135.20	467.00	65.50	16.00	3.58	4.51	3.81	3.66		
25	0.16	65.50	10.30	10.75	110.10	435.00	76.80	14.80	3.34	3.66	4.28	8.35		
26	1.87	51.50	8.95	11.05	102.90	393.00	77.40	13.15	4.12	3.58	4.36	5.68		
27	4.74	52.00	7.30	13.90	74.25	325.60	113.40	12.10	4.04	2.88	4.04	6.69		
28	28.60	36.40	7.90	10.30	49.80	273.50	172.80	11.50	3.66	3.03	5.29	6.22		
29	48.60	36.60	8.20	8.35	26.80	243.40	199.50	10.15	3.97	3.42		3.81		
30	17.95	52.00	7.75	7.00	54.50	275.60	216.50	8.20	3.58	2.96		5.29		
31		59.50		6.30	77.40		249.70		4.28	3.97		4.43		
Total	330.80	1869.15	1030.95	702.85	2776.30	7418.70	5952.45	3522.85	133.75	114.43	99.24	153.49	24104.96	CMSDAY
Mean	11.03	60.30	34.36	22.67	89.56	247.29	192.01	117.43	4.31	3.69	3.54	4.95	66.04	CMS
Max	48.60	208.50	63.75	75.30	161.60	487.00	382.00	343.60	8.20	4.59	5.29	8.35	487.00	CMS
Min	0.16	9.40	7.30	6.30	8.20	46.20	33.20	8.20	2.88	2.72	1.17	2.88	0.16	CMS
Runoff	28.58	161.49	89.07	60.73	239.87	640.98	514.29	304.37	11.56	9.89	8.57	13.26	2082.67	MCM

Momentary Peak 489.00 CMS, at 16.31 m. (MSL.), at 18.00 Hours, on Sep 22, 2008

Runoff Yield 13.46 Liters/Second/Square KM. Momentary Peak Yield 99.67 Liters/Second/Square KM.

WATER YEAR : 2008

PRACHIN BURI RIVER BASIN

Khlong 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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1966 to date
Rating Operation	
Period of Rating	1966 - 1981 , 1986 to date
Rated by Float	-
Rated by Current Meter	1966 - 1981 , 1986 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow
General Description	Records fair. Stage-discharge relation defined by 19 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

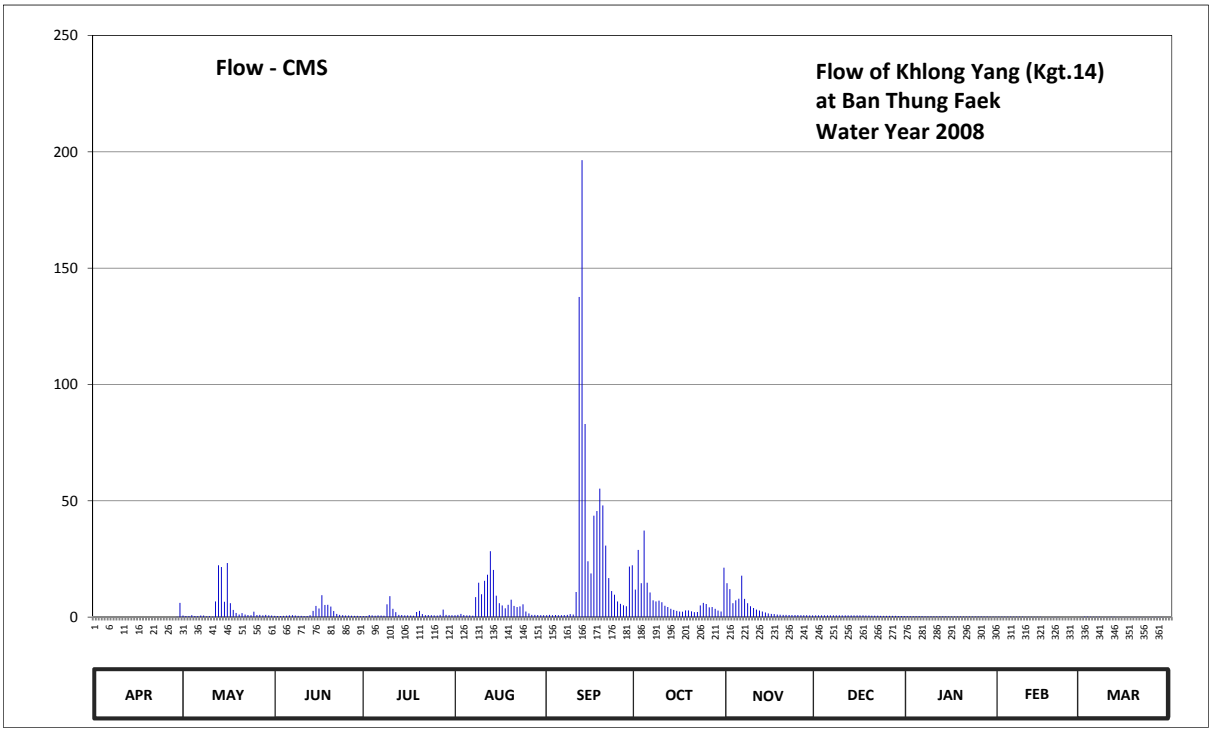
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	34.95	35.42	35.34	35.28	35.48	35.50	36.49	36.63	35.46	35.25	35.13	35.02	
2	34.93	35.27	35.30	35.28	35.59	35.58	37.23	36.50	35.46	35.24	35.13	35.13	
3	34.92	35.25	35.28	35.52	35.64	35.50	36.63	36.10	35.46	35.24	35.12	35.11	
4	34.92	35.50	35.33	35.43	35.53	35.54	37.48	36.22	35.46	35.23	35.12	35.09	
5	34.91	35.29	35.35	35.38	35.46	35.51	36.64	36.29	35.46	35.23	35.12	35.07	
6	34.94	35.23	35.43	35.46	35.43	35.51	36.43	36.79	35.46	35.23	35.12	35.06	
7	34.94	35.41	35.51	35.41	35.38	35.52	36.22	36.28	35.46	35.22	35.12	35.06	
8	34.93	35.39	35.39	35.36	36.33	35.57	36.17	36.10	35.46	35.20	35.10	35.05	
9	34.93	35.21	35.33	36.05	36.64	35.63	36.21	35.97	35.46	35.20	35.10	35.04	
10	34.93	35.23	35.31	36.35	36.39	35.61	36.14	35.89	35.46	35.20	35.09	35.03	
11	34.93	35.14	35.29	35.86	36.68	36.44	35.99	35.82	35.46	35.20	35.08	35.07	
12	34.92	36.17	35.27	35.71	36.81	39.38	35.93	35.78	35.46	35.19	35.07	35.06	
13	34.91	36.99	35.48	35.59	37.21	40.13	35.86	35.74	35.45	35.19	35.07	35.05	
14	34.91	36.96	35.77	35.52	36.91	38.52	35.81	35.70	35.45	35.19	35.07	35.05	
15	34.91	36.16	35.98	35.46	36.36	37.06	35.77	35.66	35.44	35.18	35.07	35.04	
16	34.90	37.03	35.87	35.43	36.10	36.84	35.74	35.64	35.44	35.18	35.05	35.04	
17	34.90	36.10	36.37	35.40	36.00	37.64	35.73	35.63	35.43	35.17	35.04	35.03	
18	34.90	35.81	36.02	35.37	35.88	37.69	35.79	35.61	35.41	35.17	35.03	35.03	
19	34.90	35.68	36.03	35.72	36.03	37.93	35.79	35.60	35.39	35.16	35.03	35.03	
20	34.89	35.61	35.95	35.77	36.25	37.75	35.75	35.59	35.38	35.16	35.02	35.04	
21	34.89	35.67	35.76	35.63	35.98	37.29	35.71	35.57	35.37	35.15	35.02	35.04	
22	34.89	35.61	35.64	35.50	35.93	36.74	35.72	35.55	35.35	35.15	35.01	35.05	
23	34.88	35.55	35.57	35.53	35.96	36.46	36.00	35.55	35.34	35.15	35.01	35.04	
24	34.89	35.49	35.49	35.50	36.05	36.38	36.11	35.54	35.33	35.15	35.01	35.03	
25	34.89	35.73	35.42	35.43	35.74	36.17	36.06	35.52	35.32	35.15	35.01	35.03	
26	34.89	35.54	35.40	35.39	35.66	36.07	35.92	35.50	35.32	35.15	35.01	35.02	
27	34.93	35.58	35.38	35.59	35.58	36.01	35.93	35.49	35.31	35.15	35.01	35.02	
28	34.94	35.43	35.34	35.82	35.56	35.97	35.86	35.48	35.31	35.15	35.00	35.02	
29	35.09	35.59	35.33	35.56	35.55	36.97	35.78	35.46	35.30	35.14		35.01	
30	36.11	35.46	35.30	35.48	35.51	36.99	35.74	35.46	35.29	35.14		35.01	
31		35.40		35.50	35.49		36.95		35.27	35.14		35.00	
Mean	34.96	35.67	35.54	35.56	35.97	36.66	36.12	35.82	35.40	35.18	35.06	35.04	
Max	36.11	37.03	36.37	36.35	37.21	40.13	37.48	36.79	35.46	35.25	35.13	35.13	40.13
Min	34.88	35.14	35.27	35.28	35.38	35.50	35.71	35.46	35.27	35.14	35.00	35.00	34.88

Annual Max Momentary Gage Height 40.70 m. (MSL.) , at 12.00 Hours, on Sep 13, 2008

Zero Gage at Bottom Elevation 34.60 m. (MSL.) , River Bed 33.11 m. (MSL.)

Left Bank Elevation 41.69 m. (MSL.) ,

Right Bank Elevation 41.97 m. (MSL.) , Drainage Are 354 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.70	0.57	0.47	0.80	0.83	11.80	14.60	0.77	0.42	0.22	0.03		
2	0.00	0.45	0.50	0.47	0.98	0.97	28.90	12.00	0.77	0.40	0.22	0.22		
3	0.00	0.42	0.47	0.87	1.40	0.83	14.60	6.00	0.77	0.40	0.20	0.18		
4	0.00	0.83	0.55	0.72	0.88	0.90	37.20	7.20	0.77	0.38	0.20	0.15		
5	0.00	0.48	0.58	0.63	0.77	0.85	14.80	7.90	0.77	0.38	0.20	0.12		
6	0.00	0.38	0.72	0.77	0.72	0.85	10.60	17.80	0.77	0.38	0.20	0.10		
7	0.00	0.68	0.85	0.68	0.63	0.87	7.20	7.80	0.77	0.37	0.20	0.10		
8	0.00	0.65	0.65	0.60	8.60	0.95	6.70	6.00	0.77	0.33	0.17	0.08		
9	0.00	0.35	0.55	5.50	14.80	1.30	7.10	4.70	0.77	0.33	0.17	0.07		
10	0.00	0.38	0.52	9.00	9.80	1.10	6.40	3.90	0.77	0.33	0.15	0.05		
11	0.00	0.23	0.48	3.60	15.60	10.80	4.90	3.20	0.77	0.33	0.13	0.12		
12	0.00	6.70	0.45	2.10	18.20	137.60	4.30	2.80	0.77	0.32	0.12	0.10		
13	0.00	22.25	0.80	0.98	28.30	196.40	3.60	2.40	0.75	0.32	0.12	0.08		
14	0.00	21.50	2.70	0.87	20.25	83.00	3.10	2.00	0.75	0.32	0.12	0.08		
15	0.00	6.60	4.80	0.77	9.20	24.00	2.70	1.60	0.73	0.30	0.12	0.07		
16	0.00	23.25	3.70	0.72	6.00	18.80	2.40	1.40	0.73	0.30	0.08	0.07		
17	0.00	6.00	9.40	0.67	5.00	43.60	2.30	1.30	0.72	0.28	0.07	0.05		
18	0.00	3.10	5.20	0.62	3.80	45.60	2.90	1.10	0.68	0.28	0.05	0.05		
19	0.00	1.80	5.30	2.20	5.30	55.20	2.90	1.00	0.65	0.27	0.05	0.05		
20	0.00	1.10	4.50	2.70	7.50	48.00	2.50	0.98	0.63	0.27	0.03	0.07		
21	0.00	1.70	2.60	1.30	4.80	30.70	2.10	0.95	0.62	0.25	0.03	0.07		
22	0.00	1.10	1.40	0.83	4.30	16.80	2.20	0.92	0.58	0.25	0.02	0.08		
23	0.00	0.92	0.95	0.88	4.60	11.20	5.00	0.92	0.57	0.25	0.02	0.07		
24	0.00	0.82	0.82	0.83	5.50	9.60	6.10	0.90	0.55	0.25	0.02	0.05		
25	0.00	2.30	0.70	0.72	2.40	6.70	5.60	0.87	0.53	0.25	0.02	0.05		
26	0.00	0.90	0.67	0.65	1.60	5.70	4.20	0.83	0.53	0.25	0.02	0.03		
27	0.00	0.97	0.63	0.98	0.97	5.10	4.30	0.82	0.52	0.25	0.02	0.03		
28	0.00	0.72	0.57	3.20	0.93	4.70	3.60	0.80	0.52	0.25	0.00	0.03		
29	0.15	0.98	0.55	0.93	0.92	21.75	2.80	0.77	0.50	0.23		0.02		
30	6.10	0.77	0.50	0.80	0.85	22.25	2.40	0.77	0.48	0.23		0.02		
31		0.67		0.83	0.82		21.25		0.45	0.23		0.00		
Total	6.25	109.70	52.68	46.89	186.22	806.95	236.45	114.23	20.73	9.40	2.97	2.29	1594.76	CMSDAY
Mean	0.21	3.54	1.76	1.51	6.01	26.90	7.63	3.81	0.67	0.30	0.11	0.07	4.37	CMS
Max	6.10	23.25	9.40	9.00	28.30	196.40	37.20	17.80	0.77	0.42	0.22	0.22	196.40	CMS
Min	0.00	0.23	0.45	0.47	0.63	0.83	2.10	0.77	0.45	0.23	0.00	0.00	0.00	CMS
Runoff	0.54	9.48	4.55	4.05	16.09	69.72	20.43	9.87	1.79	0.81	0.26	0.20	137.79	MCM

Momentary Peak 242.00 CMS, at 40.70 m. (MSL.), at 12.00 Hours, on Sep 13, 2008

Runoff Yield 12.34 Liters/Second/Square KM. Momentary Peak Yield 683.42 Liters/Second/Square KM.

WATER YEAR : 2008

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

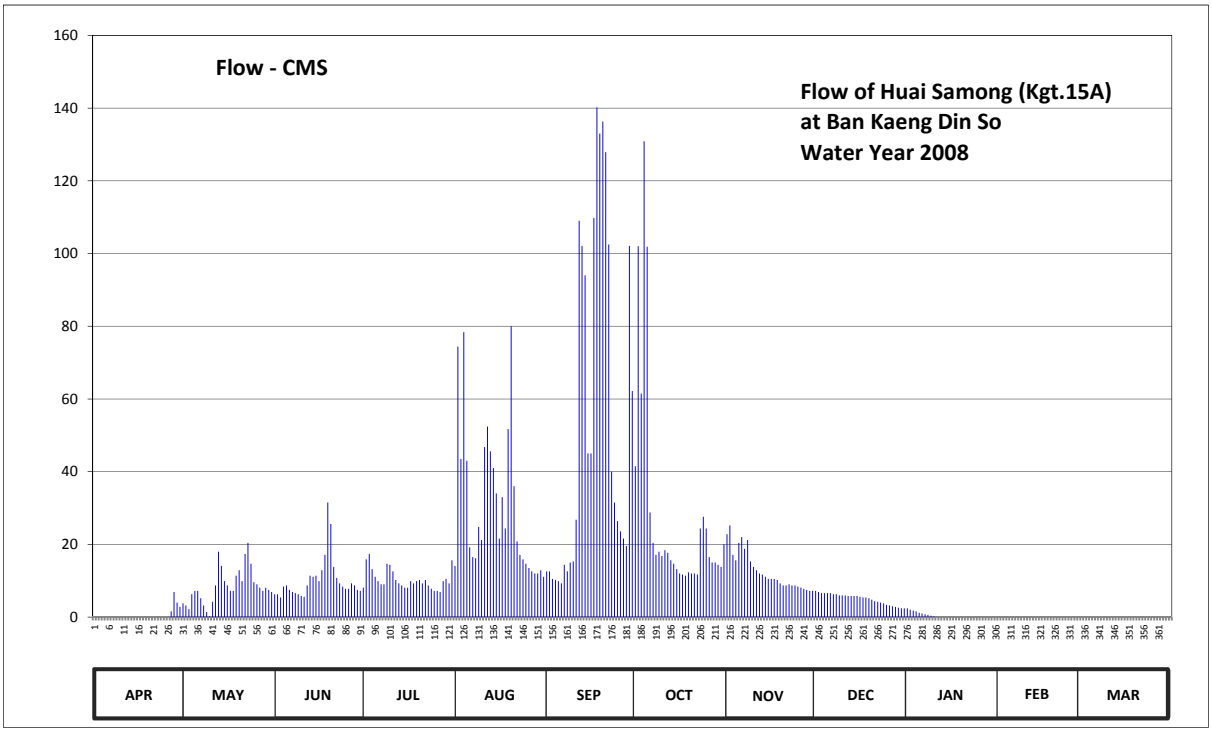
Location : on right bank at Ban Kaeng Din So about 1 kilometer upstream from the Kgt.15 Station.

	Ban Kaeng Din So	**Amphoe** Na Di	**Changwat** Prachin Buri
Drainge 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 mean of 24 readings		
Period of Available Gage Records	1968 to date		
Rating Operation			
Period of Rating	1968 to date		
Rated by Float	-		
Rated by Current Meter	1968 to date		
Stability of Channel Regimes	Fairly stable with variable water surface slope.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Flow effected by the local weir.		
	Stage-discharge relation defined by 17 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.91	15.39	15.51	15.57	15.77	15.72	16.43	16.02	15.54	15.32	15.11	15.13	
2	14.90	15.36	15.51	15.83	16.93	15.72	17.40	16.08	15.53	15.30	15.11	15.12	
3	14.90	15.31	15.47	15.88	16.47	15.65	16.75	15.87	15.52	15.29	15.10	15.12	
4	14.89	15.51	15.58	15.74	16.98	15.64	18.83	15.82	15.52	15.28	15.10	15.12	
5	14.90	15.54	15.59	15.67	16.46	15.63	17.39	15.96	15.52	15.26	15.10	15.15	
6	14.92	15.54	15.55	15.63	15.93	15.61	16.17	16.00	15.52	15.25	15.10	15.13	
7	14.93	15.46	15.53	15.60	15.85	15.78	15.96	15.92	15.51	15.24	15.09	15.12	
8	14.94	15.36	15.52	15.60	15.84	15.72	15.87	15.98	15.51	15.23	15.08	15.10	
9	14.95	15.27	15.51	15.79	16.07	15.80	15.90	15.81	15.50	15.22	15.08	15.09	
10	14.96	15.21	15.49	15.78	15.98	15.81	15.86	15.76	15.50	15.21	15.08	15.08	
11	14.97	15.41	15.48	15.72	16.53	16.12	15.91	15.73	15.50	15.20	15.08	15.08	
12	14.98	15.59	15.59	15.64	16.62	17.95	15.89	15.70	15.49	15.19	15.08	15.11	
13	14.99	15.90	15.68	15.61	16.51	17.41	15.82	15.69	15.49	15.19	15.09	15.10	
14	15.06	15.77	15.67	15.59	16.42	17.14	15.79	15.67	15.49	15.18	15.11	15.09	
15	15.06	15.63	15.68	15.57	16.28	16.50	15.74	15.65	15.49	15.17	15.11	15.08	
16	15.04	15.59	15.63	15.57	15.99	16.50	15.70	15.65	15.48	15.18	15.11	15.06	
17	15.03	15.54	15.73	15.63	16.26	17.99	15.69	15.65	15.47	15.20	15.10	15.05	
18	15.04	15.54	15.87	15.61	16.06	19.14	15.68	15.64	15.47	15.18	15.10	15.04	
19	15.03	15.68	16.23	15.63	16.61	18.90	15.71	15.61	15.46	15.17	15.09	15.06	
20	15.00	15.73	16.09	15.64	17.00	19.01	15.70	15.59	15.44	15.16	15.09	15.10	
21	14.99	15.63	15.76	15.61	16.32	18.73	15.70	15.59	15.42	15.15	15.09	15.14	
22	14.98	15.88	15.66	15.64	15.97	17.45	15.69	15.60	15.41	15.15	15.09	15.14	
23	15.00	15.96	15.61	15.59	15.87	16.40	16.06	15.59	15.40	15.15	15.09	15.13	
24	15.03	15.79	15.58	15.56	15.83	16.23	16.14	15.59	15.39	15.14	15.09	15.12	
25	15.07	15.62	15.56	15.54	15.79	16.11	16.06	15.58	15.37	15.14	15.08	15.10	
26	15.15	15.60	15.56	15.54	15.75	16.04	15.85	15.57	15.36	15.13	15.08	15.08	
27	15.28	15.57	15.61	15.53	15.72	15.99	15.80	15.56	15.35	15.13	15.08	15.07	
28	15.53	15.54	15.59	15.63	15.70	15.94	15.80	15.55	15.34	15.13	15.08	15.06	
29	15.40	15.57	15.55	15.65	15.70	17.41	15.78	15.54	15.33	15.13		15.04	
30	15.34	15.55	15.54	15.61	15.73	16.76	15.76	15.54	15.32	15.12		15.07	
31		15.53		15.82	15.67		15.95		15.32	15.12		15.05	
Mean	15.04	15.57	15.63	15.65	16.15	16.69	16.09	15.72	15.45	15.19	15.09	15.09	
Max	15.53	15.96	16.23	15.88	17.00	19.14	18.83	16.08	15.54	15.32	15.11	15.15	19.14
Min	14.89	15.21	15.47	15.53	15.67	15.61	15.68	15.54	15.32	15.12	15.08	15.04	14.89

Annual Max Momentary Gage Height	19.38	m. (MSL.) ,	at 08.00 Hours, on Sep 20, 2008		
Zero Gage at Bottom Elevation	12.80	m. (MSL.) ,	River Bed	11.34	m. (MSL.)
Left Bank Elevation	24.36	m. (MSL.) ,			
Right Bank Elevation	21.98	m. (MSL.) ,	Drainage Are	548	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	3.80	6.30	8.10	14.10	12.60	41.50	22.80	7.20	2.40	0.00	0.00		
2	0.00	3.20	6.30	15.90	74.40	12.60	102.00	25.20	6.90	2.00	0.00	0.00		
3	0.00	2.20	5.40	17.40	43.50	10.50	61.50	17.10	6.60	1.80	0.00	0.00		
4	0.00	6.30	8.40	13.20	78.40	10.20	130.90	15.60	6.60	1.60	0.00	0.00		
5	0.00	7.20	8.70	11.10	43.00	9.90	101.90	20.40	6.60	1.20	0.00	0.00		
6	0.00	7.20	7.50	9.90	19.20	9.30	28.80	22.00	6.60	1.00	0.00	0.00		
7	0.00	5.20	6.90	9.00	16.50	14.40	20.40	18.80	6.30	0.80	0.00	0.00		
8	0.00	3.20	6.60	9.00	16.20	12.60	17.10	21.20	6.30	0.60	0.00	0.00		
9	0.00	1.40	6.30	14.70	24.80	15.00	18.00	15.30	6.00	0.40	0.00	0.00		
10	0.00	0.20	5.80	14.40	21.20	15.30	16.80	13.80	6.00	0.20	0.00	0.00		
11	0.00	4.20	5.60	12.60	46.80	26.80	18.40	12.90	6.00	0.00	0.00	0.00		
12	0.00	8.70	8.70	10.20	52.40	109.00	17.70	12.00	5.80	0.00	0.00	0.00		
13	0.00	18.00	11.40	9.30	45.60	102.10	15.60	11.70	5.80	0.00	0.00	0.00		
14	0.00	14.10	11.10	8.70	41.00	94.00	14.70	11.10	5.80	0.00	0.00	0.00		
15	0.00	9.90	11.40	8.10	34.00	45.00	13.20	10.50	5.80	0.00	0.00	0.00		
16	0.00	8.70	9.90	8.10	21.60	45.00	12.00	10.50	5.60	0.00	0.00	0.00		
17	0.00	7.20	12.90	9.90	33.00	109.80	11.70	10.50	5.40	0.00	0.00	0.00		
18	0.00	7.20	17.10	9.30	24.40	140.20	11.40	10.20	5.40	0.00	0.00	0.00		
19	0.00	11.40	31.50	9.90	51.70	133.00	12.30	9.30	5.20	0.00	0.00	0.00		
20	0.00	12.90	25.60	10.20	80.00	136.30	12.00	8.70	4.80	0.00	0.00	0.00		
21	0.00	9.90	13.80	9.30	36.00	127.90	12.00	8.70	4.40	0.00	0.00	0.00		
22	0.00	17.40	10.80	10.20	20.80	102.50	11.70	9.00	4.20	0.00	0.00	0.00		
23	0.00	20.40	9.30	8.70	17.10	40.00	24.40	8.70	4.00	0.00	0.00	0.00		
24	0.00	14.70	8.40	7.80	15.90	31.50	27.60	8.70	3.80	0.00	0.00	0.00		
25	0.00	9.60	7.80	7.20	14.70	26.40	24.40	8.40	3.40	0.00	0.00	0.00		
26	0.00	9.00	7.80	7.20	13.50	23.60	16.50	8.10	3.20	0.00	0.00	0.00		
27	1.60	8.10	9.30	6.90	12.60	21.60	15.00	7.80	3.00	0.00	0.00	0.00		
28	6.90	7.20	8.70	9.90	12.00	19.60	15.00	7.50	2.80	0.00	0.00	0.00		
29	4.00	8.10	7.50	10.50	12.00	102.10	14.40	7.20	2.60	0.00		0.00		
30	2.80	7.50	7.20	9.30	12.90	62.20	13.80	7.20	2.40	0.00		0.00		
31		6.90		15.60	11.10		20.00		2.40	0.00		0.00		
Total	15.30	261.00	304.00	321.60	960.40	1621.00	872.70	380.90	156.90	12.00	0.00	0.00	4905.80	CMSDAY
Mean	0.51	8.42	10.13	10.37	30.98	54.03	28.15	12.70	5.06	0.39	0.00	0.00	13.44	CMS
Max	6.90	20.40	31.50	17.40	80.00	140.20	130.90	25.20	7.20	2.40	0.00	0.00	140.20	CMS
Min	0.00	0.20	5.40	6.90	11.10	9.30	11.40	7.20	2.40	0.00	0.00	0.00	0.00	CMS
Runoff	1.32	22.55	26.27	27.79	82.98	140.05	75.40	32.91	13.56	1.04	0.00	0.00	423.86	MCM

Momentary Peak 149.20 CMS, at 19.38 m. (MSL.), at 08.00 Hours, on Sep 20, 2008

Runoff Yield 24.53 Liters/Second/Square KM. Momentary Peak Yield 272.26 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	1,210 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**	+9.822 m. (A.D.)
Gage Reading Frequency	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 Float	-		
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 fair. Stage-discharge relation defined by 14 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

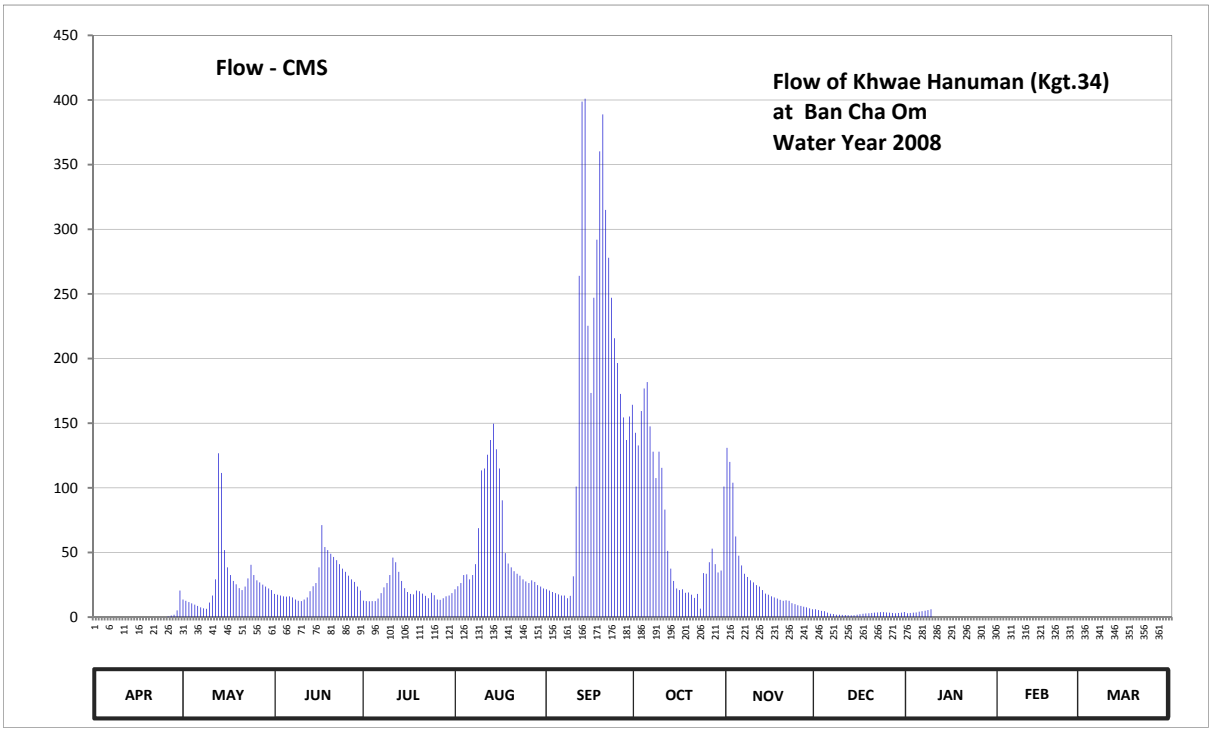
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.37	1.58	1.73	1.54	1.85	1.85	3.68	3.50	1.20	1.05	2.05	1.83	
2	0.36	1.53	1.71	1.52	1.93	1.82	3.53	3.30	1.17	1.06	2.06	1.86	
3	0.35	1.48	1.69	1.51	2.01	1.78	3.92	2.98	1.14	1.07	2.07	1.89	
4	0.34	1.43	1.67	1.52	2.15	1.75	4.17	2.68	1.13	1.08	2.08	1.92	
5	0.35	1.38	1.66	1.52	2.16	1.72	4.24	2.45	1.07	1.11	2.09	1.93	
6	0.36	1.33	1.67	1.61	2.08	1.69	3.75	2.30	1.03	1.13	2.10	1.96	
7	0.37	1.28	1.64	1.75	2.15	1.69	3.45	2.17	1.02	1.15	2.11	1.99	
8	0.38	1.24	1.58	1.90	2.32	1.62	3.05	2.12	0.99	1.17	2.12	2.01	
9	0.39	1.22	1.53	2.01	2.74	1.68	3.45	2.06	0.98	1.20	2.13	2.04	
10	0.40	1.46	1.52	2.15	3.17	2.13	3.21	2.02	0.97	1.35	2.14	2.04	
11	0.41	1.69	1.58	2.42	3.20	2.92	2.83	1.96	0.96	1.53	2.15	1.98	
12	0.42	2.08	1.64	2.35	3.41	5.27	2.52	1.92	0.95	1.63	2.14	1.96	
13	0.43	3.43	1.80	2.20	3.60	6.58	2.25	1.83	0.94	1.73	2.13	1.90	
14	0.42	3.13	1.93	2.05	3.78	6.60	2.05	1.74	0.95	1.83	2.12	1.82	
15	0.41	2.53	2.01	1.88	3.48	4.83	1.87	1.71	0.99	1.94	2.10	1.75	
16	0.41	2.27	2.27	1.78	3.20	4.12	1.83	1.67	1.01	2.00	2.07	1.78	
17	0.42	2.15	2.76	1.73	2.86	5.09	1.85	1.64	1.03	2.01	2.03	1.82	
18	0.43	2.05	2.57	1.72	2.49	5.55	1.76	1.61	1.04	2.02	1.97	1.86	
19	0.44	1.98	2.53	1.82	2.33	6.23	1.77	1.57	1.05	2.01	1.96	1.88	
20	0.45	1.88	2.48	1.80	2.27	6.49	1.71	1.53	1.06	2.02	1.97	1.92	
21	0.47	1.83	2.43	1.74	2.21	5.78	1.63	1.55	1.07	2.03	1.94	1.98	
22	0.53	1.92	2.38	1.68	2.17	5.41	1.73	1.53	1.08	2.03	1.91	2.00	
23	0.58	2.10	2.32	1.62	2.14	5.09	1.23	1.44	1.09	2.04	1.89	2.01	
24	0.65	2.31	2.25	1.76	2.08	4.71	2.18	1.40	1.09	2.03	1.86	2.02	
25	0.75	2.15	2.20	1.70	2.04	4.45	2.17	1.36	1.08	2.02	1.83	2.01	
26	0.85	2.06	2.14	1.58	2.01	4.11	2.35	1.33	1.07	2.01	1.79	2.00	
27	0.92	2.02	2.08	1.57	2.06	3.85	2.55	1.30	1.06	2.00	1.74	2.01	
28	0.98	1.97	2.03	1.62	2.03	3.60	2.32	1.28	1.05	1.98	1.71	2.02	
29	1.16	1.92	1.92	1.67	1.96	3.86	2.19	1.24	1.06	2.01		2.01	
30	1.82	1.87	1.82	1.69	1.92	3.99	2.22	1.20	1.07	2.03		2.00	
31		1.83		1.75	1.87		2.92		1.10	2.04		1.98	
Mean	0.55	1.91	1.98	1.78	2.44	3.88	2.59	1.88	1.05	1.69	2.01	1.94	
Max	1.82	3.43	2.76	2.42	3.78	6.60	4.24	3.50	1.20	2.04	2.15	2.04	6.60
Min	0.34	1.22	1.52	1.51	1.85	1.62	1.23	1.20	0.94	1.05	1.71	1.75	0.34

Annual Max Momentary Gage Height 6.72 m. (A.D.) , at 06.00 Hours, on Sep 14, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed -0.95 m. (A.D.)

Left Bank Elevation 9.78 m. (A.D.) ,

Right Bank Elevation 9.97 m. (A.D.) , Drainage Are 1,210 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	13.60	17.90	12.80	21.50	21.50	142.60	131.00	6.00	3.00	0.00	0.00		
2	0.00	12.60	17.30	12.40	23.90	20.60	132.80	120.00	5.40	3.20	0.00	0.00		
3	0.00	11.60	16.70	12.20	26.40	19.40	159.40	104.00	4.80	3.40	0.00	0.00		
4	0.00	10.60	16.10	12.40	32.50	18.50	176.90	62.40	4.60	3.60	0.00	0.00		
5	0.00	9.60	15.80	12.40	33.00	17.60	181.80	47.50	3.40	4.20	0.00	0.00		
6	0.00	8.60	16.10	14.30	29.20	16.70	147.50	40.00	2.60	4.60	0.00	0.00		
7	0.00	7.60	15.20	18.50	32.50	16.70	128.00	33.50	2.40	5.00	0.00	0.00		
8	0.00	6.80	13.60	23.00	41.00	14.60	107.50	31.00	1.90	5.40	0.00	0.00		
9	0.00	6.40	12.60	26.40	68.80	16.40	128.00	28.40	1.80	6.00	0.00	0.00		
10	0.00	11.20	12.40	32.50	113.50	31.50	115.50	26.80	1.70	0.00	0.00	0.00		
11	0.00	16.70	13.60	46.00	115.00	101.00	83.20	24.80	1.60	0.00	0.00	0.00		
12	0.00	29.20	15.20	42.50	125.60	264.00	51.20	23.60	1.50	0.00	0.00	0.00		
13	0.00	126.80	20.00	35.00	137.00	398.80	37.50	20.90	1.40	0.00	0.00	0.00		
14	0.00	111.50	23.90	28.00	149.60	401.00	28.00	18.20	1.50	0.00	0.00	0.00		
15	0.00	51.80	26.40	22.40	129.80	225.40	22.10	17.30	1.90	0.00	0.00	0.00		
16	0.00	38.50	38.50	19.40	115.00	173.40	20.90	16.10	2.20	0.00	0.00	0.00		
17	0.00	32.50	71.20	17.90	90.40	247.10	21.50	15.20	2.60	0.00	0.00	0.00		
18	0.00	28.00	54.20	17.60	49.50	292.00	18.80	14.30	2.80	0.00	0.00	0.00		
19	0.00	25.40	51.80	20.60	41.50	360.30	19.10	13.40	3.00	0.00	0.00	0.00		
20	0.00	22.40	49.00	20.00	38.50	388.90	17.30	12.60	3.20	0.00	0.00	0.00		
21	0.00	20.90	46.50	18.20	35.50	315.00	14.90	13.00	3.40	0.00	0.00	0.00		
22	0.00	23.60	44.00	16.40	33.50	278.00	17.90	12.60	3.60	0.00	0.00	0.00		
23	0.00	30.00	41.00	14.60	32.00	247.10	6.60	10.80	3.80	0.00	0.00	0.00		
24	0.00	40.50	37.50	18.80	29.20	215.80	34.00	10.00	3.80	0.00	0.00	0.00		
25	0.00	32.50	35.00	17.00	27.60	196.50	33.50	9.20	3.60	0.00	0.00	0.00		
26	0.50	28.40	32.00	13.60	26.40	172.70	42.50	8.60	3.40	0.00	0.00	0.00		
27	1.20	26.80	29.20	13.40	28.40	154.50	53.00	8.00	3.20	0.00	0.00	0.00		
28	1.80	25.10	27.20	14.60	27.20	137.00	41.00	7.60	3.00	0.00	0.00	0.00		
29	5.20	23.60	23.60	16.10	24.80	155.20	34.50	6.80	3.20	0.00		0.00		
30	20.60	22.10	20.60	16.70	23.60	164.30	36.00	6.00	3.40	0.00		0.00		
31		20.90		18.50	22.10		101.00		4.00	0.00		0.00		
Total	29.30	875.80	854.10	624.20	1724.50	5081.50	2154.50	893.60	94.70	38.40	0.00	0.00	12370.60	CMSDAY
Mean	0.98	28.25	28.47	20.14	55.63	169.38	69.50	29.79	3.05	1.24	0.00	0.00	33.89	CMS
Max	20.60	126.80	71.20	46.00	149.60	401.00	181.80	131.00	6.00	6.00	0.00	0.00	401.00	CMS
Min	0.00	6.40	12.40	12.20	21.50	14.60	6.60	6.00	1.40	0.00	0.00	0.00	0.00	CMS
Runoff	2.53	75.67	73.79	53.93	149.00	439.04	186.15	77.21	8.18	3.32	0.00	0.00	1068.82	MCM

Momentary Peak 414.20 CMS, at 6.72 m. (A.D.), at 06.00 Hours, on Sep 14, 2008

Runoff Yield 28.01 Liters/Second/Square KM. Momentary Peak Yield 342.31 Liters/Second/Square KM.

WATER YEAR : 2008

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

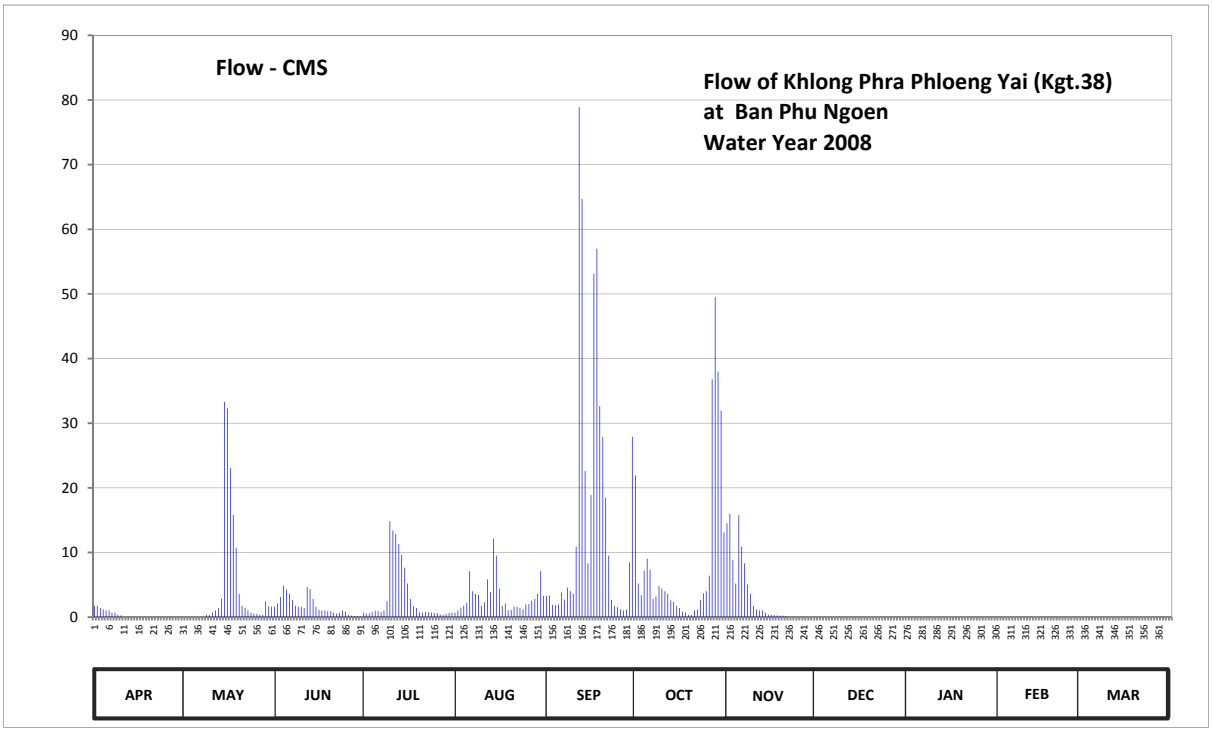
Location : on left bank at the bridge.

	Ban Phu Ngoen	**Amphoe** Khao Chakan	**Changwat** Sa Kaeo		
Drainge 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 Float	-				
Rated by Current Meter	2008 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 2008.				

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.95	1.45	1.93	1.80	1.80	2.16	3.57	3.17	1.65	1.63	1.85	1.52	
2	1.95	1.53	2.00	1.78	1.85	2.17	2.40	3.26	1.65	1.63	1.85	1.52	
3	1.90	1.58	2.14	1.78	1.91	1.97	2.17	2.75	1.65	1.63	1.85	1.52	
4	1.87	1.58	2.36	1.82	1.95	1.96	2.61	2.40	1.65	1.63	1.85	1.52	
5	1.85	1.63	2.28	1.84	2.02	1.98	2.77	3.25	1.65	1.63	1.85	1.52	
6	1.85	1.63	2.20	1.83	2.60	2.23	2.62	2.92	1.65	1.63	1.85	1.52	
7	1.80	1.63	2.08	1.81	2.25	2.09	2.10	2.71	1.65	1.63	1.80	1.52	
8	1.80	1.70	1.95	1.85	2.20	2.32	2.15	2.38	1.65	1.63	1.80	1.52	
9	1.75	1.75	1.93	2.05	2.18	2.25	2.35	2.20	1.65	1.63	1.80	1.52	
10	1.74	1.75	1.93	3.19	1.95	2.20	2.30	1.95	1.65	1.63	1.80	1.52	
11	1.53	1.80	1.90	3.10	2.03	2.92	2.25	1.87	1.65	1.62	1.80	1.51	
12	1.53	1.85	2.33	3.06	2.47	4.85	2.20	1.85	1.65	1.62	1.75	1.51	
13	1.53	1.90	2.29	2.95	2.24	4.63	2.07	1.85	1.65	1.62	1.75	1.51	
14	1.40	2.11	2.10	2.82	3.01	3.60	2.04	1.80	1.65	1.62	1.75	1.49	
15	1.38	3.98	1.93	2.65	2.81	2.71	1.95	1.75	1.65	1.62	1.75	1.49	
16	1.38	3.95	1.86	2.40	2.30	3.42	1.90	1.75	1.65	1.62	1.70	1.49	
17	1.38	3.62	1.85	2.10	1.95	4.43	1.82	1.75	1.64	1.62	1.70	1.48	
18	1.38	3.25	1.85	1.94	2.00	4.50	1.80	1.74	1.64	1.62	1.70	1.46	
19	1.38	2.91	1.83	1.90	1.85	3.96	1.75	1.73	1.64	1.62	1.70	1.46	
20	1.35	2.20	1.83	1.81	1.86	3.81	1.75	1.73	1.64	1.62	1.65	1.46	
21	1.35	1.95	1.80	1.80	1.93	3.40	1.85	1.72	1.64	1.62	1.65	1.45	
22	1.35	1.90	1.78	1.82	1.93	2.81	1.87	1.65	1.64	1.62	1.65	1.45	
23	1.38	1.85	1.80	1.81	1.90	2.08	2.08	1.65	1.64	1.62	1.60	1.45	
24	1.38	1.80	1.85	1.80	1.87	1.95	2.21	1.65	1.64	1.62	1.60	1.45	
25	1.38	1.78	1.82	1.79	1.98	1.92	2.25	1.65	1.64	1.60	1.58	1.45	
26	1.38	1.77	1.75	1.79	1.99	1.87	2.53	1.65	1.63	1.60	1.58	1.45	
27	1.38	1.75	1.73	1.76	2.06	1.85	4.07	1.65	1.63	1.60	1.56	1.45	
28	1.38	1.75	1.72	1.75	2.10	1.87	4.36	1.65	1.63	1.60	1.56	1.45	
29	1.38	2.05	1.72	1.77	2.20	2.72	4.10	1.65	1.63	1.60		1.45	
30	1.38	1.94	1.71	1.79	2.60	3.81	3.94	1.65	1.63	1.60		1.45	
31		1.93		1.80	2.16		3.08		1.63	1.60		1.45	
Mean	1.55	2.07	1.94	2.07	2.13	2.81	2.48	2.05	1.64	1.62	1.73	1.48	
Max	1.95	3.98	2.36	3.19	3.01	4.85	4.36	3.26	1.65	1.63	1.85	1.52	4.85
Min	1.35	1.45	1.71	1.75	1.80	1.85	1.75	1.65	1.63	1.60	1.56	1.45	1.35

Annual Max Momentary Gage Height	4.96	m. (A.D.) ,	at 18.00 Hours, on Sep 12, 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	-0.16	m. (A.D.)
Left Bank Elevation	9.61	m. (A.D.) ,			
Right Bank Elevation	9.61	m. (A.D.) ,	Drainage Are	289	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.75	0.00	1.61	0.70	0.70	3.28	21.94	14.52	0.00	0.00	0.00	0.00		
2	1.75	0.00	2.10	0.56	1.05	3.36	5.20	15.96	0.00	0.00	0.00	0.00		
3	1.40	0.00	3.12	0.56	1.47	1.89	3.36	8.80	0.00	0.00	0.00	0.00		
4	1.19	0.00	4.88	0.84	1.75	1.82	7.21	5.20	0.00	0.00	0.00	0.00		
5	1.05	0.00	4.24	0.98	2.24	1.96	9.04	15.80	0.00	0.00	0.00	0.00		
6	1.05	0.00	3.60	0.91	7.10	3.84	7.32	10.88	0.00	0.00	0.00	0.00		
7	0.70	0.00	2.66	0.77	4.00	2.73	2.80	8.32	0.00	0.00	0.00	0.00		
8	0.70	0.00	1.75	1.05	3.60	4.56	3.20	5.04	0.00	0.00	0.00	0.00		
9	0.35	0.35	1.61	2.45	3.44	4.00	4.80	3.60	0.00	0.00	0.00	0.00		
10	0.28	0.35	1.61	14.84	1.75	3.60	4.40	1.75	0.00	0.00	0.00	0.00		
11	0.00	0.70	1.40	13.40	2.31	10.88	4.00	1.19	0.00	0.00	0.00	0.00		
12	0.00	1.05	4.64	12.84	5.83	78.90	3.60	1.05	0.00	0.00	0.00	0.00		
13	0.00	1.40	4.32	11.30	3.92	64.72	2.59	1.05	0.00	0.00	0.00	0.00		
14	0.00	2.88	2.80	9.64	12.14	22.60	2.38	0.70	0.00	0.00	0.00	0.00		
15	0.00	33.32	1.61	7.65	9.52	8.32	1.75	0.35	0.00	0.00	0.00	0.00		
16	0.00	32.30	1.12	5.20	4.40	18.88	1.40	0.35	0.00	0.00	0.00	0.00		
17	0.00	23.08	1.05	2.80	1.75	53.15	0.84	0.35	0.00	0.00	0.00	0.00		
18	0.00	15.80	1.05	1.68	2.10	57.00	0.70	0.28	0.00	0.00	0.00	0.00		
19	0.00	10.74	0.91	1.40	1.05	32.64	0.35	0.21	0.00	0.00	0.00	0.00		
20	0.00	3.60	0.91	0.77	1.12	27.90	0.35	0.21	0.00	0.00	0.00	0.00		
21	0.00	1.75	0.70	0.70	1.61	18.50	1.05	0.14	0.00	0.00	0.00	0.00		
22	0.00	1.40	0.56	0.84	1.61	9.52	1.19	0.00	0.00	0.00	0.00	0.00		
23	0.00	1.05	0.70	0.77	1.40	2.66	2.66	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.70	1.05	0.70	1.19	1.75	3.68	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.56	0.84	0.63	1.96	1.54	4.00	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.49	0.35	0.63	2.03	1.19	6.40	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.35	0.21	0.42	2.52	1.05	36.80	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.35	0.14	0.35	2.80	1.19	49.50	0.00	0.00	0.00	0.00	0.00		
29	0.00	2.45	0.14	0.49	3.60	8.44	38.00	0.00	0.00	0.00		0.00		
30	0.00	1.68	0.07	0.63	7.10	27.90	31.96	0.00	0.00	0.00		0.00		
31		1.61		0.70	3.28		13.12		0.00	0.00		0.00		
Total	10.22	137.96	51.75	97.20	100.34	479.77	275.59	95.75	0.00	0.00	0.00	0.00	1248.58	CMSDAY
Mean	0.34	4.45	1.72	3.14	3.24	15.99	8.89	3.19	0.00	0.00	0.00	0.00	3.42	CMS
Max	1.75	33.32	4.88	14.84	12.14	78.90	49.50	15.96	0.00	0.00	0.00	0.00	78.90	CMS
Min	0.00	0.00	0.07	0.35	0.70	1.05	0.35	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.88	11.92	4.47	8.40	8.67	41.45	23.81	8.27	0.00	0.00	0.00	0.00	107.88	MCM

Momentary Peak 86.88 CMS, at 4.96 m. (A.D.), at 18.00 Hours, on Sep 12, 2008

Runoff Yield 11.48 Liters/Second/Square KM. Momentary Peak Yield 291.54 Liters/Second/Square KM.

WATER YEAR : 2008

PRACHIN BURI RIVER BASIN

Upper Khlong Phra Sathung at Ban Thung Kabin , Sa Kaeo (Kgt.40)

Lat 13 - 25 - 45 N Long 102 - 05 - 00 E

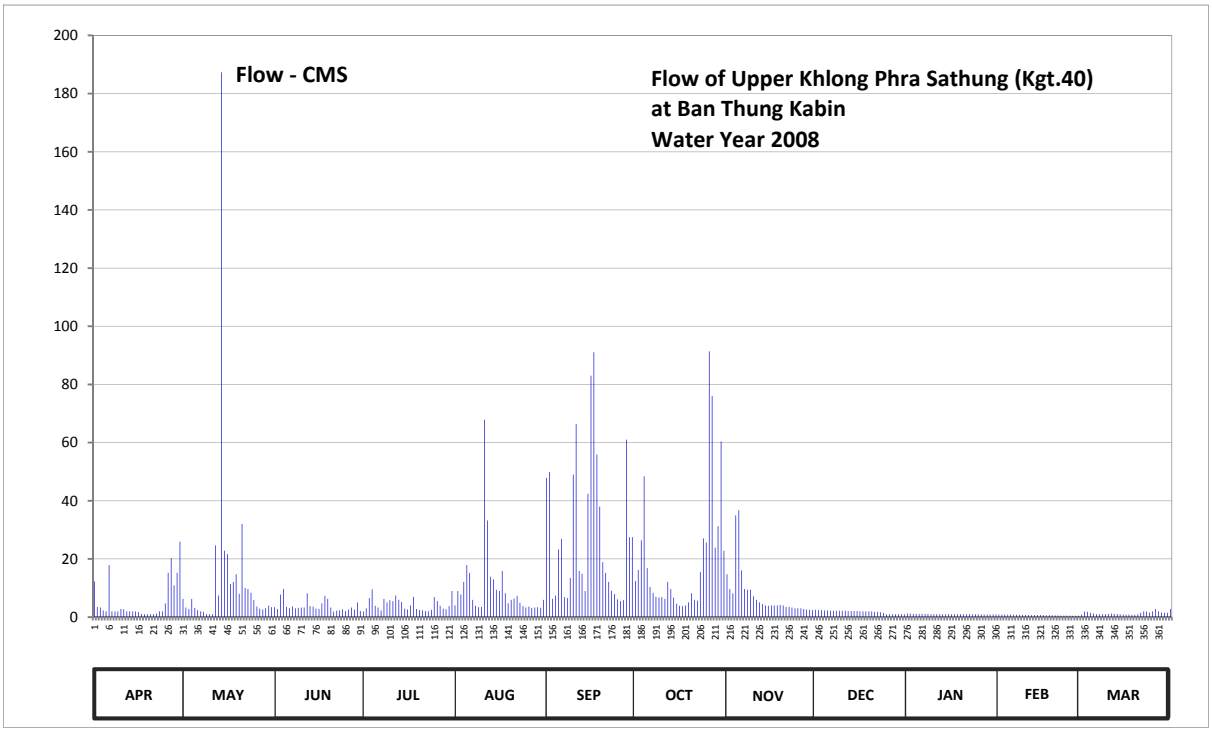
Location : on left bank at the bridge on highway.

	Ban Thung Kabin	**Amphoe** Wang Sombun	**Changwat** Sa Kaeo		
Drainge Area	574 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**	+8.423 m. (A.D.)
Gage Reading Frequency	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 Float	-				
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 17 discharge measurements made in 2008.				

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.23	0.85	0.64	0.49	0.70	2.76	1.24	1.37	0.55	0.42	0.38	0.37	
2	0.65	0.63	0.58	0.60	1.03	2.83	1.45	1.08	0.54	0.42	0.38	0.49	
3	0.63	0.58	0.95	0.87	0.95	0.85	1.95	0.98	0.54	0.41	0.37	0.48	
4	0.53	0.85	1.08	1.07	1.22	0.93	2.78	2.30	0.53	0.41	0.37	0.45	
5	0.50	0.62	0.65	0.69	1.53	1.80	1.48	2.37	0.53	0.41	0.37	0.42	
6	1.53	0.54	0.60	0.63	1.40	1.97	1.12	1.44	0.52	0.41	0.36	0.40	
7	0.50	0.50	0.67	0.53	0.83	0.89	0.99	1.08	0.52	0.41	0.36	0.40	
8	0.50	0.48	0.60	0.85	0.69	0.87	0.90	1.06	0.52	0.41	0.36	0.40	
9	0.50	0.40	0.62	0.77	0.64	1.30	0.88	1.06	0.52	0.40	0.35	0.40	
10	0.58	0.40	0.63	0.82	0.65	2.80	0.89	0.91	0.52	0.40	0.35	0.41	
11	0.57	0.40	0.63	0.80	3.43	3.38	0.85	0.83	0.52	0.40	0.35	0.42	
12	0.50	1.87	0.98	0.93	2.23	1.43	1.22	0.77	0.51	0.40	0.34	0.41	
13	0.50	0.93	0.68	0.83	1.32	1.38	1.08	0.73	0.51	0.40	0.34	0.41	
14	0.50	6.46	0.66	0.78	1.27	1.03	0.88	0.70	0.51	0.40	0.34	0.40	
15	0.50	1.78	0.59	0.59	1.06	2.58	0.74	0.69	0.51	0.40	0.34	0.39	
16	0.47	1.72	0.58	0.56	1.03	3.90	0.69	0.70	0.50	0.40	0.33	0.38	
17	0.41	1.18	0.75	0.70	1.43	4.13	0.68	0.70	0.50	0.40	0.33	0.37	
18	0.40	1.22	0.92	0.90	0.98	3.03	0.70	0.70	0.50	0.40	0.33	0.35	
19	0.40	1.37	0.85	0.58	0.75	2.42	0.77	0.71	0.50	0.40	0.33	0.36	
20	0.40	0.97	0.63	0.54	0.83	1.58	0.98	0.70	0.50	0.40	0.32	0.40	
21	0.40	2.18	0.49	0.53	0.86	1.40	0.83	0.65	0.48	0.40	0.32	0.45	
22	0.42	1.10	0.52	0.51	0.92	1.22	0.81	0.65	0.48	0.40	0.31	0.50	
23	0.50	1.08	0.53	0.50	0.76	1.04	1.41	0.63	0.47	0.40	0.31	0.49	
24	0.50	0.99	0.57	0.55	0.68	0.96	1.98	0.60	0.44	0.40	0.31	0.46	
25	0.75	0.82	0.51	0.89	0.63	0.84	1.92	0.60	0.40	0.39	0.31	0.50	
26	1.40	0.67	0.56	0.80	0.66	0.80	4.14	0.60	0.40	0.39	0.30	0.58	
27	1.65	0.59	0.63	0.69	0.62	0.82	3.70	0.58	0.40	0.39	0.30	0.50	
28	1.15	0.56	0.56	0.59	0.63	3.20	1.83	0.56	0.40	0.39	0.30	0.46	
29	1.40	0.60	0.77	0.57	0.64	2.00	2.15	0.55	0.40	0.39		0.45	
30	1.93	0.69	0.51	0.68	0.62	2.00	3.18	0.54	0.40	0.39		0.45	
31		0.64		1.03	0.83		1.78		0.40	0.39		0.58	
Mean	0.73	1.09	0.66	0.71	1.03	1.87	1.48	0.89	0.48	0.40	0.34	0.44	
Max	1.93	6.46	1.08	1.07	3.43	4.13	4.14	2.37	0.55	0.42	0.38	0.58	6.46
Min	0.40	0.40	0.49	0.49	0.62	0.80	0.68	0.54	0.40	0.39	0.30	0.35	0.30

Annual Max Momentary Gage Height	7.33	m. (A.D.) ,	at 18.00 Hours, on May 14, 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	-0.51	m. (A.D.) ,
Left Bank Elevation	9.90	m. (A.D.) ,			
Right Bank Elevation	9.96	m. (A.D.) ,	Drainage Are	574	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.28	6.25	3.40	1.90	4.00	47.80	12.45	14.73	2.50	1.20	0.90	0.85		
2	3.50	3.30	2.80	3.00	8.95	49.90	16.25	9.70	2.40	1.20	0.90	1.90		
3	3.30	2.80	7.75	6.55	7.75	6.25	26.38	8.20	2.40	1.10	0.85	1.80		
4	2.30	6.25	9.70	9.55	12.10	7.45	48.40	35.00	2.30	1.10	0.85	1.50		
5	2.00	3.20	3.50	3.90	17.85	23.25	16.85	36.75	2.30	1.10	0.85	1.20		
6	17.85	2.40	3.00	3.30	15.25	26.83	10.35	16.05	2.20	1.10	0.80	1.00		
7	2.00	2.00	3.70	2.30	5.95	6.85	8.35	9.70	2.20	1.10	0.80	1.00		
8	2.00	1.80	3.00	6.25	3.90	6.55	7.00	9.40	2.20	1.10	0.80	1.00		
9	2.00	1.00	3.20	5.05	3.40	13.50	6.70	9.40	2.20	1.00	0.75	1.00		
10	2.80	1.00	3.30	5.80	3.50	49.00	6.85	7.15	2.20	1.00	0.75	1.10		
11	2.70	1.00	3.30	5.50	67.90	66.40	6.25	5.95	2.20	1.00	0.75	1.20		
12	2.00	24.65	8.20	7.45	33.25	15.85	12.10	5.05	2.10	1.00	0.70	1.10		
13	2.00	7.45	3.80	5.95	13.85	14.90	9.70	4.45	2.10	1.00	0.70	1.10		
14	2.00	187.30	3.60	5.20	12.98	8.95	6.70	4.00	2.10	1.00	0.70	1.00		
15	2.00	22.85	2.90	2.90	9.40	42.40	4.60	3.90	2.10	1.00	0.70	0.95		
16	1.70	21.65	2.80	2.60	8.95	83.00	3.90	4.00	2.00	1.00	0.65	0.90		
17	1.10	11.40	4.75	4.00	15.85	91.05	3.80	4.00	2.00	1.00	0.65	0.85		
18	1.00	12.10	7.30	7.00	8.20	55.90	4.00	4.00	2.00	1.00	0.65	0.75		
19	1.00	14.73	6.25	2.80	4.75	38.00	5.05	4.15	2.00	1.00	0.65	0.80		
20	1.00	8.05	3.30	2.40	5.95	18.85	8.20	4.00	2.00	1.00	0.60	1.00		
21	1.00	32.00	1.90	2.30	6.40	15.25	5.95	3.50	1.80	1.00	0.60	1.50		
22	1.20	10.00	2.20	2.10	7.30	12.10	5.65	3.50	1.80	1.00	0.55	2.00		
23	2.00	9.70	2.30	2.00	4.90	9.10	15.45	3.30	1.70	1.00	0.55	1.90		
24	2.00	8.35	2.70	2.50	3.80	7.90	27.05	3.00	1.40	1.00	0.55	1.60		
25	4.75	5.80	2.10	6.85	3.30	6.10	25.70	3.00	1.00	0.95	0.55	2.00		
26	15.25	3.70	2.60	5.50	3.60	5.50	91.40	3.00	1.00	0.95	0.50	2.80		
27	20.25	2.90	3.30	3.90	3.20	5.80	76.00	2.80	1.00	0.95	0.50	2.00		
28	10.88	2.60	2.60	2.90	3.30	61.00	23.85	2.60	1.00	0.95	0.50	1.60		
29	15.25	3.00	5.05	2.70	3.40	27.50	31.25	2.50	1.00	0.95		1.50		
30	25.93	3.90	2.10	3.80	3.20	27.50	60.40	2.40	1.00	0.95		1.50		
31		3.40		8.95	5.95		22.85		1.00	0.95		2.80		
Total	165.04	426.53	116.40	136.90	312.08	850.43	609.43	229.18	57.20	31.65	19.30	43.20	2997.34	CMSDAY
Mean	5.50	13.76	3.88	4.42	10.07	28.35	19.66	7.64	1.85	1.02	0.69	1.39	8.21	CMS
Max	25.93	187.30	9.70	9.55	67.90	91.05	91.40	36.75	2.50	1.20	0.90	2.80	187.30	CMS
Min	1.00	1.00	1.90	1.90	3.20	5.50	3.80	2.40	1.00	0.95	0.50	0.75	0.50	CMS
Runoff	14.26	36.85	10.06	11.83	26.96	73.48	52.65	19.80	4.94	2.73	1.67	3.73	258.97	MCM

Momentary Peak 225.92 CMS, at 7.33 m. (A.D.), at 18.00 Hours, on May 14, 2008

Runoff Yield 14.31 Liters/Second/Square KM. Momentary Peak Yield 393.59 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	123 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 top staff gage. **Elevation** +7.250 m. (A.D.)
Gage Reading Frequency	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 Float	-
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 2008.

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

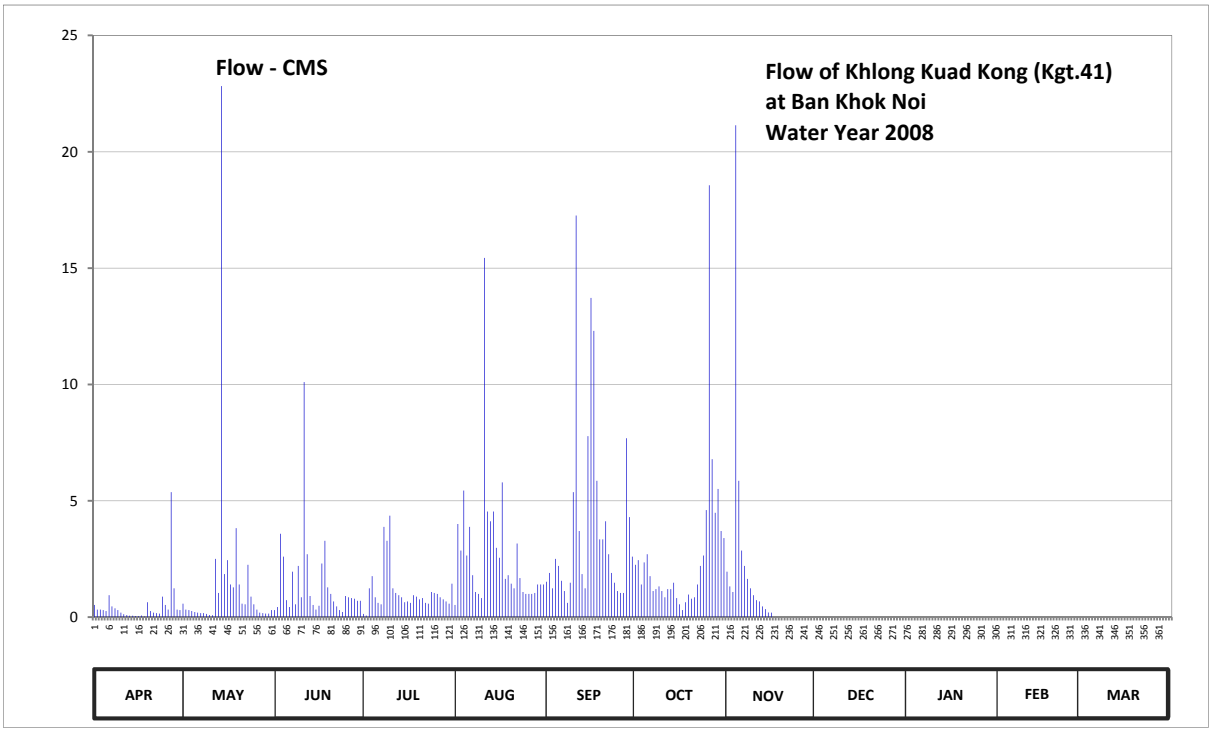
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.84	0.86	0.75	0.64	0.84	1.13	1.29	1.23	0.80	0.76	0.72	0.59	
2	0.76	0.76	0.81	0.57	1.60	1.22	1.33	1.08	0.79	0.76	0.71	0.80	
3	0.76	0.75	1.53	1.06	1.41	1.06	1.10	1.02	0.79	0.76	0.72	0.70	
4	0.75	0.73	1.36	1.19	1.82	1.34	1.31	3.31	0.77	0.76	0.73	0.69	
5	0.73	0.71	0.91	0.95	1.37	1.28	1.38	1.88	0.76	0.76	0.75	0.67	
6	0.98	0.69	0.81	0.87	1.58	1.14	1.19	1.41	0.76	0.76	0.76	0.66	
7	0.82	0.67	1.23	0.85	1.20	1.03	1.03	1.28	0.75	0.73	0.77	0.65	
8	0.79	0.67	0.85	1.58	1.02	0.87	1.05	1.16	0.75	0.73	0.78	0.65	
9	0.75	0.64	1.28	1.48	1.00	1.12	1.08	1.06	0.73	0.50	0.79	0.65	
10	0.69	0.59	0.95	1.66	0.94	1.81	1.03	0.98	0.73	0.50	0.80	0.64	
11	0.62	0.58	2.37	1.06	2.87	3.02	0.95	0.91	0.70	0.73	0.75	0.64	
12	0.59	1.34	1.38	1.01	1.69	1.55	1.05	0.89	0.72	0.73	0.72	0.63	
13	0.56	1.01	0.97	0.98	1.62	1.21	1.05	0.82	0.72	0.73	0.70	0.63	
14	0.56	3.43	0.84	0.95	1.69	1.06	1.12	0.77	0.72	0.73	0.65	0.62	
15	0.55	1.21	0.76	0.88	1.43	2.12	0.94	0.70	0.74	0.73	0.62	0.62	
16	0.54	1.33	0.83	0.89	1.35	2.72	0.85	0.69	0.74	0.73	0.60	0.65	
17	0.57	1.10	1.30	0.87	1.87	2.59	0.75	0.69	0.74	0.73	0.60	0.66	
18	0.53	1.07	1.48	0.98	1.16	1.88	0.88	0.88	0.74	0.72	0.60	0.65	
19	0.88	1.57	1.07	0.96	1.20	1.49	0.99	0.95	0.75	0.72	0.60	0.64	
20	0.73	1.10	1.00	0.92	1.11	1.49	0.93	0.87	0.75	0.72	0.60	0.64	
21	0.69	0.86	0.89	0.94	1.06	1.62	0.95	0.83	0.75	0.72	0.60	0.63	
22	0.67	0.85	0.82	0.87	1.46	1.38	1.10	0.80	0.75	0.72	0.60	0.63	
23	0.65	1.29	0.75	0.86	1.17	1.22	1.28	0.79	0.75	0.72	0.60	0.63	
24	0.96	0.96	0.71	1.02	1.02	1.12	1.37	0.79	0.75	0.72	0.60	0.62	
25	0.84	0.85	0.97	1.01	1.00	1.03	1.70	0.77	0.75	0.72	0.60	0.62	
26	0.76	0.76	0.95	1.00	1.00	1.01	3.12	0.76	0.75	0.72	0.60	0.62	
27	1.81	0.69	0.94	0.95	1.00	1.01	2.01	0.76	0.75	0.72	0.59	0.60	
28	1.06	0.67	0.93	0.92	1.01	2.11	1.68	0.75	0.76	0.72	0.59	0.60	
29	0.76	0.65	0.90	0.89	1.10	1.65	1.83	0.74	0.76	0.72		0.59	
30	0.75	0.65	0.90	0.86	1.10	1.36	1.55	0.74	0.76	0.72		0.59	
31		0.75		1.11	1.10		1.50		0.76	0.72		0.64	
Mean	0.77	0.96	1.04	0.99	1.32	1.49	1.27	1.01	0.75	0.72	0.67	0.64	
Max	1.81	3.43	2.37	1.66	2.87	3.02	3.12	3.31	0.80	0.76	0.80	0.80	3.43
Min	0.53	0.58	0.71	0.57	0.84	0.87	0.75	0.69	0.70	0.50	0.59	0.59	0.50

Annual Max Momentary Gage Height 5.00 m. (A.D.) , at 06.00 Hours, on May 14, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.49 m. (A.D.) ,

Left Bank Elevation 7.56 m. (A.D.) ,

Right Bank Elevation 7.53 m. (A.D.) , Drainage Are 123 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.52	0.58	0.30	0.14	0.52	1.52	2.25	1.95	0.00	0.00	0.00	0.00		
2	0.32	0.32	0.43	0.07	4.00	1.90	2.45	1.32	0.00	0.00	0.00	0.00		
3	0.32	0.30	3.58	1.24	2.86	1.24	1.40	1.08	0.00	0.00	0.00	0.00		
4	0.30	0.26	2.60	1.76	5.44	2.50	2.35	21.14	0.00	0.00	0.00	0.00		
5	0.26	0.22	0.73	0.85	2.65	2.20	2.70	5.86	0.00	0.00	0.00	0.00		
6	0.94	0.19	0.43	0.61	3.88	1.56	1.76	2.86	0.00	0.00	0.00	0.00		
7	0.46	0.17	1.95	0.55	1.80	1.12	1.12	2.20	0.00	0.00	0.00	0.00		
8	0.38	0.17	0.55	3.88	1.08	0.61	1.20	1.64	0.00	0.00	0.00	0.00		
9	0.30	0.14	2.20	3.28	1.00	1.48	1.32	1.24	0.00	0.00	0.00	0.00		
10	0.19	0.09	0.85	4.36	0.82	5.37	1.12	0.94	0.00	0.00	0.00	0.00		
11	0.12	0.08	10.10	1.24	15.44	17.26	0.85	0.73	0.00	0.00	0.00	0.00		
12	0.09	2.50	2.70	1.04	4.54	3.70	1.20	0.67	0.00	0.00	0.00	0.00		
13	0.06	1.04	0.91	0.94	4.12	1.85	1.20	0.46	0.00	0.00	0.00	0.00		
14	0.06	22.82	0.52	0.85	4.54	1.24	1.48	0.34	0.00	0.00	0.00	0.00		
15	0.05	1.85	0.32	0.64	2.98	7.78	0.82	0.20	0.00	0.00	0.00	0.00		
16	0.04	2.45	0.49	0.67	2.55	13.72	0.55	0.19	0.00	0.00	0.00	0.00		
17	0.07	1.40	2.30	0.61	5.79	12.30	0.30	0.00	0.00	0.00	0.00	0.00		
18	0.03	1.28	3.28	0.94	1.64	5.86	0.64	0.00	0.00	0.00	0.00	0.00		
19	0.64	3.82	1.28	0.88	1.80	3.34	0.97	0.00	0.00	0.00	0.00	0.00		
20	0.26	1.40	1.00	0.76	1.44	3.34	0.79	0.00	0.00	0.00	0.00	0.00		
21	0.19	0.58	0.67	0.82	1.24	4.12	0.85	0.00	0.00	0.00	0.00	0.00		
22	0.17	0.55	0.46	0.61	3.16	2.70	1.40	0.00	0.00	0.00	0.00	0.00		
23	0.15	2.25	0.30	0.58	1.68	1.90	2.20	0.00	0.00	0.00	0.00	0.00		
24	0.88	0.88	0.22	1.08	1.08	1.48	2.65	0.00	0.00	0.00	0.00	0.00		
25	0.52	0.55	0.91	1.04	1.00	1.12	4.60	0.00	0.00	0.00	0.00	0.00		
26	0.32	0.32	0.85	1.00	1.00	1.04	18.56	0.00	0.00	0.00	0.00	0.00		
27	5.37	0.19	0.82	0.85	1.00	1.04	6.79	0.00	0.00	0.00	0.00	0.00		
28	1.24	0.17	0.79	0.76	1.04	7.69	4.48	0.00	0.00	0.00	0.00	0.00		
29	0.32	0.15	0.70	0.67	1.40	4.30	5.51	0.00	0.00	0.00		0.00		
30	0.30	0.15	0.70	0.58	1.40	2.60	3.70	0.00	0.00	0.00		0.00		
31		0.30		1.44	1.40		3.40		0.00	0.00		0.00		
Total	14.87	47.17	42.94	34.74	84.29	117.88	80.61	42.82	0.00	0.00	0.00	0.00	465.32	CMSDAY
Mean	0.50	1.52	1.43	1.12	2.72	3.93	2.60	1.43	0.00	0.00	0.00	0.00	1.27	CMS
Max	5.37	22.82	10.10	4.36	15.44	17.26	18.56	21.14	0.00	0.00	0.00	0.00	22.82	CMS
Min	0.03	0.08	0.22	0.07	0.52	0.61	0.30	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	1.28	4.08	3.71	3.00	7.28	10.18	6.96	3.70	0.00	0.00	0.00	0.00	40.20	MCM

Momentary Peak 50.20 CMS, at 5.00 M. (A.D), at 06.00 Hours, on May 14, 2008

Runoff Yield 10.36 Liters/Second/Square KM. Momentary Peak Yield 408.13 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 Float	-		
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 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

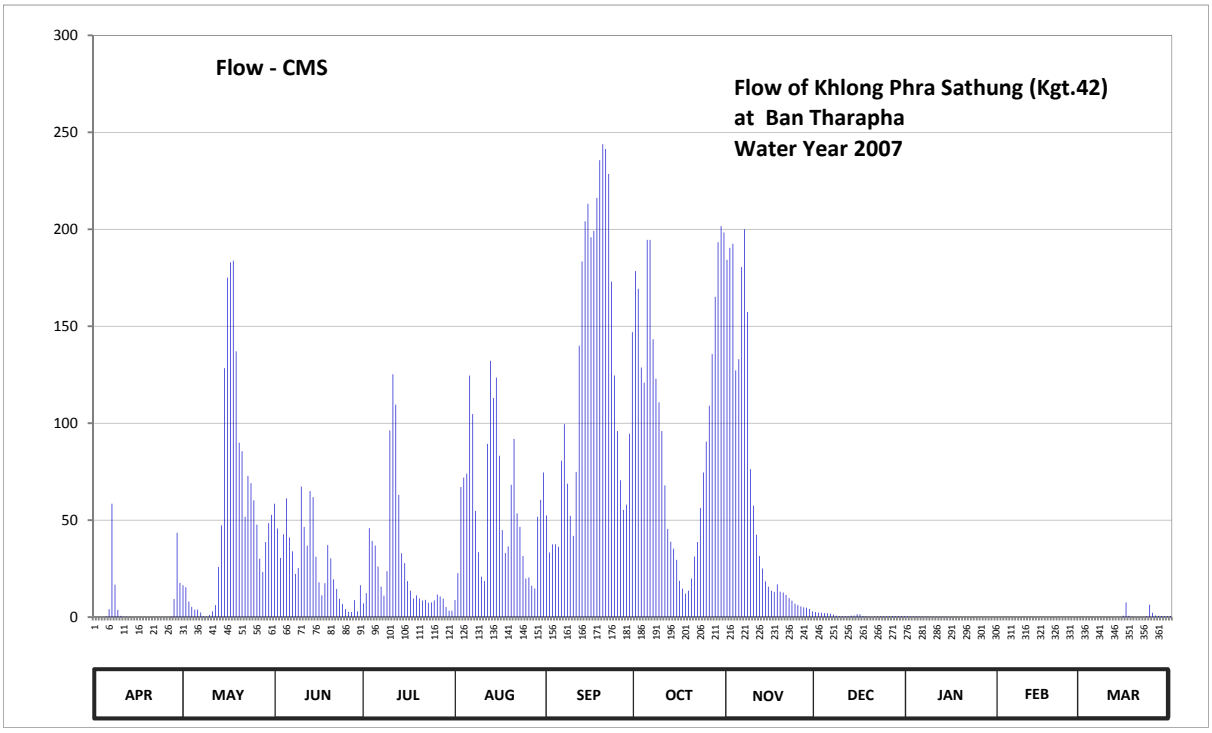
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.94	16.23	18.30	15.51	15.68	18.06	22.08	22.22	15.02	14.41	14.14	14.18	
2	13.94	16.16	17.76	15.96	16.61	17.14	21.86	22.37	14.97	14.36	14.14	14.17	
3	13.94	15.60	17.00	17.77	18.61	17.35	20.74	22.42	14.94	14.35	14.14	14.16	
4	13.97	15.33	17.61	17.44	18.78	17.35	20.47	20.69	14.91	14.35	14.14	14.15	
5	14.31	15.19	18.41	17.32	18.85	17.29	22.47	20.89	14.90	14.34	14.14	14.14	
6	15.21	15.19	17.53	16.78	20.60	19.08	22.47	22.13	14.85	14.33	14.14	14.14	
7	18.30	14.97	17.17	16.18	19.91	19.73	21.23	22.60	14.76	14.32	14.15	14.14	
8	16.25	14.45	16.59	15.87	18.15	18.67	20.54	21.57	14.55	14.31	14.15	14.14	
9	15.17	14.36	16.74	16.66	17.15	18.05	20.12	18.93	14.45	14.30	14.15	14.13	
10	14.54	14.71	18.62	19.62	16.52	17.57	19.61	18.26	14.45	14.30	14.15	14.13	
11	14.30	15.10	17.80	20.62	16.37	18.88	18.64	17.60	14.46	14.29	14.15	14.13	
12	14.26	15.42	17.32	20.08	19.38	21.13	17.75	17.05	14.42	14.28	14.15	14.13	
13	14.22	16.77	18.54	18.47	20.86	22.20	17.42	16.73	14.56	14.27	14.15	14.13	
14	14.20	17.84	18.43	17.12	20.20	22.70	17.24	16.36	14.61	14.26	14.15	14.13	
15	14.16	20.73	17.03	16.87	20.56	22.92	16.95	16.18	14.79	14.25	14.15	14.55	
16	14.14	22.00	16.33	16.37	19.17	22.50	16.38	16.04	14.78	14.23	14.14	15.56	
17	14.12	22.19	15.88	16.04	17.72	22.58	16.11	16.00	14.45	14.22	14.14	14.53	
18	14.10	22.21	16.30	15.76	17.13	22.99	15.94	16.26	14.42	14.21	14.14	14.26	
19	14.09	21.03	17.33	15.88	17.30	23.46	16.04	16.01	14.34	14.19	14.14	14.24	
20	14.08	19.40	16.99	15.76	18.65	23.66	16.46	15.98	14.29	14.19	14.14	14.23	
21	14.07	19.25	16.43	15.66	19.47	23.60	17.04	15.90	14.32	14.19	14.14	14.23	
22	14.07	18.03	16.10	15.69	18.10	23.29	17.41	15.78	14.35	14.19	14.14	14.24	
23	14.06	18.81	15.75	15.54	17.80	21.95	18.21	15.65	14.41	14.19	14.14	14.42	
24	14.06	18.68	15.48	15.56	17.05	20.60	18.87	15.49	14.41	14.19	14.14	15.44	
25	14.05	18.37	15.21	15.66	16.46	19.61	19.42	15.42	14.40	14.19	14.16	14.94	
26	14.06	17.86	15.04	15.91	16.50	18.73	20.06	15.35	14.41	14.18	14.18	14.61	
27	14.35	16.98	15.03	15.84	16.21	18.17	20.98	15.30	14.44	14.17	14.19	14.53	
28	15.73	16.64	15.67	15.76	16.12	18.28	21.76	15.29	14.46	14.16	14.19	14.49	
29	17.65	17.41	15.10	15.32	18.03	19.56	22.44	15.22	14.45	14.15		14.46	
30	16.31	17.90	16.23	15.13	18.38	21.32	22.64	15.10	14.44	14.15		14.44	
31		18.07		15.13	18.87		22.56		14.43	14.14		14.43	
Mean	14.65	17.51	16.79	16.56	18.10	20.28	19.42	17.69	14.56	14.25	14.15	14.37	
Max	18.30	22.21	18.62	20.62	20.86	23.66	22.64	22.60	15.02	14.41	14.19	15.56	23.66
Min	13.94	14.36	15.03	15.13	15.68	17.14	15.94	15.10	14.29	14.14	14.14	14.13	13.94

Annual Max Momentary Gage Height 23.67 m. (MSL.) , at 14.00 Hours, on Sep 20, 2008

Zero Gage at Bottom Elevation 13.86 m. (MSL.) , River Bed 13.88 m. (MSL)

Left Bank Elevation 24.92 m. (MSL.) ,

Right Bank Elevation 24.82 m. (MSL.) , Drainage Are 2,558 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	16.45	58.50	7.10	8.80	52.50	178.46	184.26	2.60	0.42	0.00	0.00		
2	0.00	15.40	45.70	12.40	22.70	33.30	169.34	190.47	2.35	0.32	0.00	0.00		
3	0.00	8.00	30.50	45.90	67.08	37.50	128.69	192.54	2.20	0.30	0.00	0.00		
4	0.00	5.30	42.70	39.30	71.99	37.50	120.88	127.25	2.05	0.30	0.00	0.00		
5	0.22	3.90	61.29	36.90	74.02	36.30	194.61	133.03	2.00	0.28	0.00	0.00		
6	4.10	3.90	41.10	26.10	124.64	80.67	194.61	180.53	1.75	0.26	0.00	0.00		
7	58.50	2.35	33.90	15.70	104.68	99.48	143.24	200.00	1.30	0.24	0.00	0.00		
8	16.75	0.50	22.30	11.05	54.75	68.81	122.91	157.33	0.70	0.22	0.00	0.00		
9	3.70	0.32	25.30	23.70	33.50	52.25	110.76	76.33	0.50	0.20	0.00	0.00		
10	0.68	1.05	67.36	96.29	20.90	41.90	96.00	57.50	0.50	0.20	0.00	0.00		
11	0.20	3.00	46.50	125.22	18.55	74.89	67.94	42.50	0.52	0.18	0.00	0.00		
12	0.12	6.20	36.90	109.60	89.35	139.98	45.50	31.50	0.44	0.16	0.00	0.00		
13	0.04	25.90	65.05	63.03	132.16	183.43	38.90	25.10	0.72	0.14	0.00	0.00		
14	0.00	47.30	61.87	32.90	113.07	204.14	35.30	18.40	0.82	0.12	0.00	0.00		
15	0.00	128.40	31.10	27.90	123.49	213.26	29.50	15.70	1.45	0.10	0.00	0.70		
16	0.00	175.14	17.95	18.55	83.28	195.86	18.70	13.60	1.40	0.06	0.00	7.60		
17	0.00	183.01	11.20	13.60	44.90	199.17	14.65	13.00	0.50	0.04	0.00	0.66		
18	0.00	183.84	17.50	9.60	33.10	216.16	12.10	16.90	0.44	0.02	0.00	0.12		
19	0.00	137.08	37.10	11.20	36.50	235.63	13.60	13.15	0.28	0.00	0.00	0.08		
20	0.00	89.93	30.30	9.60	68.23	243.91	19.90	12.70	0.18	0.00	0.00	0.06		
21	0.00	85.59	19.45	8.60	91.95	241.43	31.30	11.50	0.24	0.00	0.00	0.06		
22	0.00	51.75	14.50	8.90	53.50	228.59	38.70	9.80	0.30	0.00	0.00	0.08		
23	0.00	72.86	9.50	7.40	46.50	173.07	56.25	8.50	0.42	0.00	0.00	0.44		
24	0.00	69.10	6.80	7.60	31.50	124.64	74.60	6.90	0.42	0.00	0.00	6.40		
25	0.00	60.25	4.10	8.60	19.90	96.00	90.51	6.20	0.40	0.00	0.00	2.20		
26	0.00	47.70	2.70	11.65	20.50	70.55	109.02	5.50	0.42	0.00	0.00	0.82		
27	0.30	30.10	2.65	10.60	16.15	55.25	135.64	5.00	0.48	0.00	0.00	0.66		
28	9.30	23.30	8.70	9.60	14.80	58.00	165.20	4.90	0.52	0.00	0.00	0.58		
29	43.50	38.70	3.00	5.20	51.75	94.56	193.37	4.20	0.50	0.00		0.52		
30	17.65	48.50	16.45	3.30	60.50	146.97	201.66	3.00	0.48	0.00		0.48		
31		52.75		3.30	74.60		198.34		0.46	0.00		0.46		
Total	155.06	1617.57	871.97	820.39	1807.34	3735.70	3050.18	1767.29	27.34	3.56	0.00	21.92	13878.32	CMSDAY
Mean	5.17	52.18	29.07	26.46	58.30	124.52	98.39	58.91	0.88	0.11	0.00	0.71	38.02	CMS
Max	58.50	183.84	67.36	125.22	132.16	243.91	201.66	200.00	2.60	0.42	0.00	7.60	243.91	CMS
Min	0.00	0.32	2.65	3.30	8.80	33.30	12.10	3.00	0.18	0.00	0.00	0.00	0.00	CMS
Runoff	13.40	139.76	75.34	70.88	156.15	322.76	263.54	152.69	2.36	0.31	0.00	1.89	1199.09	MCM

Momentary Peak 244.33 CMS, at 23.67 m. (MSL), at 14.00 Hours, on Sep 20, 2008

Runoff Yield 14.86 Liters/Second/Square KM. Momentary Peak Yield 95.52 Liters/Second/Square KM.

WATER YEAR : 2008

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

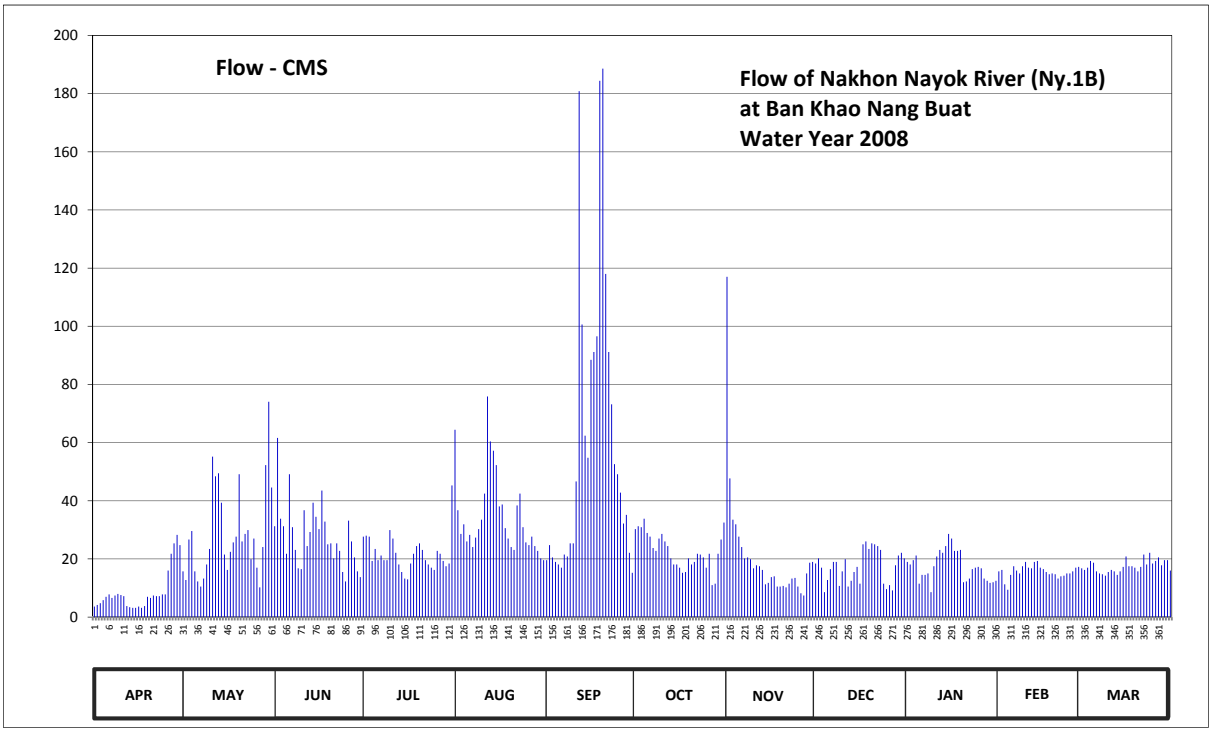
Location : on right bank about 700 meters upstream from Ny.1

	Ban	Khao Nang Buat	**Amphoe**	Mueang	**Changwat**	Nakhon Nayok
Drainge 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 mean of 5 readings					
Period of Available Gage Records	1973 to date					
Rating Operation						
Period of Rating	1973 - 1980 , 1991 to date					
Rated by Float	-					
Rated by Current Meter	1973 - 1980 , 1991 to date					
Stability of Channel Regimes	Fairly stable.					
Overbank Flow Conditions	No overbank flow.					
General Description	Records fair. Stage-discharge relation defined by 21 discharge measurements made in 2008.					

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.98	4.53	5.03	4.92	5.96	4.67	5.00	7.12	4.63	4.65	4.53	4.57	
2	4.01	4.41	5.89	4.93	5.20	4.83	5.03	5.52	4.69	4.62	4.55	4.55	
3	4.04	4.89	5.11	4.92	4.95	4.70	5.02	5.10	4.58	4.67	4.35	4.58	
4	4.09	4.98	5.03	4.66	5.05	4.65	5.11	5.05	4.23	4.72	4.27	4.66	
5	4.15	4.53	4.74	4.79	4.87	4.62	4.96	4.92	4.41	4.36	4.48	4.64	
6	4.19	4.39	5.56	4.67	4.94	4.58	4.92	4.81	4.56	4.48	4.60	4.53	
7	4.13	4.32	5.02	4.72	4.81	4.73	4.80	4.69	4.65	4.48	4.54	4.50	
8	4.17	4.43	4.78	4.67	4.91	4.71	4.77	4.70	4.65	4.50	4.50	4.49	
9	4.20	4.62	4.57	4.67	5.00	4.85	4.90	4.68	4.33	4.23	4.60	4.47	
10	4.18	4.79	4.56	4.99	5.10	4.85	4.95	4.57	4.53	4.60	4.65	4.52	
11	4.16	5.73	5.20	4.90	5.37	5.49	4.87	4.61	4.68	4.71	4.58	4.55	
12	3.99	5.54	4.82	4.75	6.23	8.23	4.82	4.60	4.32	4.78	4.57	4.53	
13	3.97	5.57	4.97	4.62	5.86	6.78	4.69	4.55	4.40	4.75	4.65	4.48	
14	3.96	5.28	5.28	4.52	5.78	5.91	4.62	4.35	4.52	4.82	4.66	4.53	
15	3.96	4.73	5.13	4.43	5.65	5.72	4.62	4.37	4.59	4.95	4.58	4.59	
16	3.98	4.55	5.00	4.42	5.24	6.51	4.58	4.45	4.36	4.90	4.56	4.71	
17	3.96	4.76	5.40	4.63	5.26	6.57	4.51	4.46	4.84	4.77	4.52	4.60	
18	3.99	4.86	5.08	4.74	5.01	6.69	4.52	4.32	4.87	4.77	4.49	4.60	
19	4.15	4.92	4.84	4.82	4.90	8.29	4.69	4.32	4.79	4.78	4.50	4.58	
20	4.13	5.56	4.85	4.85	4.81	8.36	4.62	4.33	4.85	4.38	4.49	4.53	
21	4.17	4.87	4.69	4.78	4.78	7.14	4.65	4.31	4.84	4.39	4.43	4.59	
22	4.16	4.95	4.85	4.67	5.25	6.57	4.74	4.36	4.82	4.43	4.46	4.73	
23	4.16	4.99	4.77	4.62	5.37	6.17	4.73	4.43	4.78	4.56	4.47	4.62	
24	4.19	4.68	4.52	4.58	5.02	5.66	4.70	4.44	4.36	4.58	4.50	4.75	
25	4.19	4.90	4.39	4.55	4.86	5.56	4.58	4.32	4.28	4.59	4.50	4.63	
26	4.54	4.58	5.09	4.77	4.83	5.38	4.74	4.21	4.34	4.57	4.53	4.66	
27	4.74	4.31	4.87	4.74	4.92	5.06	4.34	4.17	4.26	4.43	4.58	4.70	
28	4.85	4.81	4.70	4.66	4.82	5.15	4.36	4.50	4.61	4.40	4.59	4.61	
29	4.94	5.65	4.53	4.60	4.77	4.75	4.74	4.64	4.72	4.37		4.67	
30	4.83	6.19	4.45	4.63	4.69	4.51	4.89	4.65	4.75	4.38		4.67	
31		5.43		5.45	4.67		5.07		4.69	4.40		4.54	
Mean	4.21	4.93	4.92	4.73	5.13	5.72	4.76	4.65	4.58	4.58	4.53	4.59	
Max	4.94	6.19	5.89	5.45	6.23	8.36	5.11	7.12	4.87	4.95	4.66	4.75	8.36
Min	3.96	4.31	4.39	4.42	4.67	4.51	4.34	4.17	4.23	4.23	4.27	4.47	3.96

Annual Max Momentary Gage Height	8.60	m. (MSL.) ,	at 12.00 Hours , on Sep 12, 2008			
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	3.00	m. (MSL.)	
Left Bank Elevation	11.52	m. (MSL.) ,				
Right Bank Elevation	11.52	m. (MSL.) ,	Drainage Are	521	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.60	15.75	31.23	27.65	64.40	19.60	30.25	117.00	18.40	19.00	15.75	16.75		
2	4.20	12.75	61.60	27.98	36.75	24.73	31.23	47.70	20.20	18.10	16.25	16.25		
3	4.80	26.68	33.83	27.65	28.63	20.50	30.90	33.50	17.00	19.60	11.25	17.00		
4	5.80	29.60	31.23	19.30	31.88	19.00	33.83	31.88	8.60	21.15	9.40	19.30		
5	7.00	15.75	21.80	23.43	26.03	18.10	28.95	27.65	12.75	11.50	14.50	18.70		
6	7.80	12.25	49.10	19.60	28.30	17.00	27.65	24.08	16.50	14.50	17.50	15.75		
7	6.60	10.50	30.90	21.15	24.08	21.48	23.75	20.20	19.00	14.50	16.00	15.00		
8	7.40	13.25	23.10	19.60	27.33	20.83	22.78	20.50	19.00	15.00	15.00	14.75		
9	8.00	18.10	16.75	19.60	30.25	25.38	27.00	19.90	10.75	8.60	17.50	14.25		
10	7.60	23.43	16.50	29.93	33.50	25.38	28.63	16.75	15.75	17.50	19.00	15.50		
11	7.20	55.20	36.75	27.00	42.45	46.65	26.03	17.80	19.90	20.83	17.00	16.25		
12	3.80	48.40	24.40	22.13	75.85	180.80	24.40	17.50	10.50	23.10	16.75	15.75		
13	3.40	49.45	29.28	18.10	60.40	100.60	20.20	16.25	12.50	22.13	19.00	14.50		
14	3.20	39.35	39.35	15.50	57.20	62.40	18.10	11.25	15.50	24.40	19.30	15.75		
15	3.20	21.48	34.48	13.25	52.25	54.80	18.10	11.75	17.25	28.63	17.00	17.25		
16	3.60	16.25	30.25	13.00	38.05	88.45	17.00	13.75	11.50	27.00	16.50	20.83		
17	3.20	22.45	43.50	18.40	38.70	91.15	15.25	14.00	25.05	22.78	15.50	17.50		
18	3.80	25.70	32.85	21.80	30.58	96.55	15.50	10.50	26.03	22.78	14.75	17.50		
19	7.00	27.65	25.05	24.40	27.00	184.40	20.20	10.50	23.43	23.10	15.00	17.00		
20	6.60	49.10	25.38	25.38	24.08	188.60	18.10	10.75	25.38	12.00	14.75	15.75		
21	7.40	26.03	20.20	23.10	23.10	118.00	19.00	10.25	25.05	12.25	13.25	17.25		
22	7.20	28.63	25.38	19.60	38.38	91.15	21.80	11.50	24.40	13.25	14.00	21.48		
23	7.20	29.93	22.78	18.10	42.45	73.15	21.48	13.25	23.10	16.50	14.25	18.10		
24	7.80	19.90	15.50	17.00	30.90	52.60	20.50	13.50	11.50	17.00	15.00	22.13		
25	7.80	27.00	12.25	16.25	25.70	49.10	17.00	10.50	9.60	17.25	15.00	18.40		
26	16.00	17.00	33.18	22.78	24.73	42.80	21.80	8.20	11.00	16.75	15.75	19.30		
27	21.80	10.25	26.03	21.80	27.65	32.20	11.00	7.40	9.20	13.25	17.00	20.50		
28	25.38	24.08	20.50	19.30	24.40	35.13	11.50	15.00	17.80	12.50	17.25	17.80		
29	28.30	52.25	15.75	17.50	22.78	22.13	21.80	18.70	21.15	11.75		19.60		
30	24.73	74.05	13.75	18.40	20.20	15.25	26.68	19.00	22.13	12.00		19.60		
31		44.55		45.25	19.60		32.53		20.20	12.50		16.00		
Total	261.41	886.76	842.65	673.93	1077.60	1837.91	702.94	620.51	540.12	541.20	439.20	541.49	8965.72	CMSDAY
Mean	8.71	28.61	28.09	21.74	34.76	61.26	22.68	20.68	17.42	17.46	15.69	17.47	24.56	CMS
Max	28.30	74.05	61.60	45.25	75.85	188.60	33.83	117.00	26.03	28.63	19.30	22.13	188.60	CMS
Min	3.20	10.25	12.25	13.00	19.60	15.25	11.00	7.40	8.60	8.60	9.40	14.25	3.20	CMS
Runoff	22.59	76.62	72.80	58.23	93.10	158.80	60.73	53.61	46.67	46.76	37.95	46.78	774.64	MCM

Momentary Peak 203.50 CMS. at 8.60 m. (MSL.) at 12.00 Hours , on Sep 12, 2008

Runoff Yield 47.10 Liters/Second/Square KM. Momentary Peak Yield 390.24 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	203 sq.km.		
Type of Gage	Staff gage.		
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	1977 to date		
Rating Operation			
Period of Rating	1977 - 1978 , 1980, 1988 to date		
Rated by Float	-		
Rated by Current Meter	1977 - 1978 , 1980, 1988 to date		
Stability of Channel Regimes	Fairly stable 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 18 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

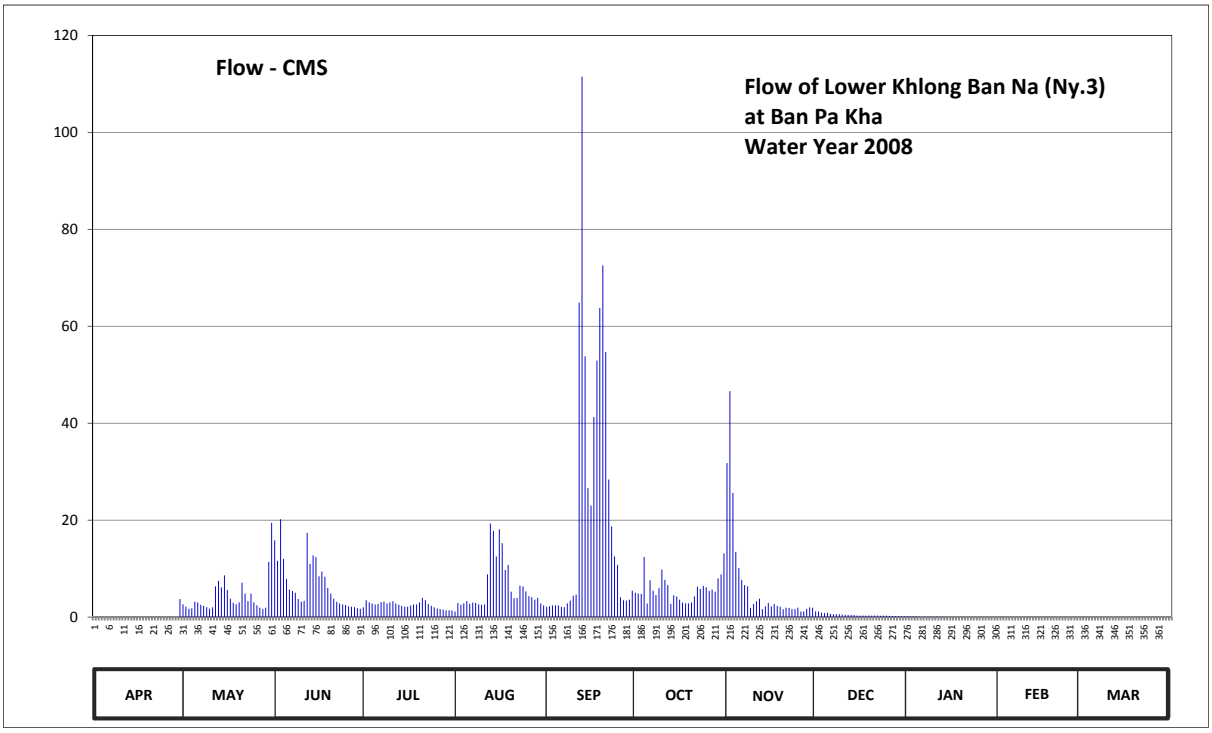
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.73	7.53	8.89	7.40	7.23	7.43	7.90	9.79	7.24	6.88	6.73	6.63	
2	6.73	7.43	8.59	7.70	7.58	7.45	7.88	10.42	7.23	6.86	6.73	6.63	
3	6.73	7.34	9.18	7.61	7.51	7.48	7.87	9.48	7.17	6.86	6.73	6.63	
4	6.73	7.36	8.62	7.56	7.57	7.48	8.65	8.73	7.13	6.86	6.73	6.63	
5	6.73	7.64	8.24	7.52	7.66	7.48	7.56	8.46	7.16	6.84	6.73	6.63	
6	6.73	7.61	7.99	7.54	7.55	7.42	8.21	8.22	7.08	6.83	6.63	6.63	
7	6.73	7.51	7.95	7.62	7.60	7.41	7.96	8.11	7.04	6.83	6.63	6.63	
8	6.73	7.46	7.90	7.64	7.59	7.57	7.84	8.08	7.03	6.83	6.63	6.63	
9	6.73	7.41	7.73	7.56	7.53	7.68	8.03	7.38	7.03	6.83	6.63	6.63	
10	6.73	7.35	7.63	7.61	7.51	7.82	8.43	7.54	7.01	6.83	6.63	6.63	
11	6.73	7.40	7.67	7.65	7.52	7.85	8.22	7.65	6.98	6.83	6.63	6.63	
12	6.73	8.08	8.99	7.56	8.33	11.01	8.11	7.74	6.98	6.81	6.63	6.63	
13	6.73	8.20	8.54	7.51	9.12	12.20	7.55	7.33	6.98	6.81	6.63	6.63	
14	6.73	8.05	8.68	7.46	9.02	10.66	7.83	7.45	6.98	6.81	6.63	6.63	
15	6.73	8.31	8.65	7.43	8.66	9.53	7.80	7.59	6.93	6.78	6.63	6.63	
16	6.73	7.98	8.29	7.43	9.04	9.35	7.71	7.44	6.93	6.78	6.63	6.63	
17	6.73	7.74	8.39	7.48	8.85	10.21	7.60	7.54	6.93	6.73	6.63	6.63	
18	6.73	7.59	8.28	7.52	8.42	10.63	7.57	7.46	6.93	6.73	6.63	6.63	
19	6.73	7.53	8.04	7.52	8.52	10.98	7.57	7.43	6.93	6.73	6.63	6.63	
20	6.73	7.61	7.88	7.61	7.93	11.23	7.61	7.33	6.93	6.73	6.63	6.63	
21	6.73	8.16	7.74	7.76	7.75	10.69	7.80	7.39	6.93	6.71	6.63	6.63	
22	6.73	7.88	7.63	7.70	7.76	9.62	8.07	7.38	6.93	6.71	6.63	6.63	
23	6.73	7.66	7.56	7.54	8.10	9.08	8.01	7.33	6.92	6.71	6.63	6.63	
24	6.73	7.88	7.52	7.46	8.08	8.66	8.09	7.33	6.92	6.71	6.63	6.63	
25	6.73	7.61	7.50	7.40	7.94	8.52	8.05	7.39	6.92	6.73	6.63	6.63	
26	6.73	7.49	7.45	7.35	7.81	7.78	7.95	7.23	6.90	6.73	6.63	6.63	
27	6.73	7.39	7.43	7.33	7.78	7.69	7.99	7.23	6.89	6.73	6.63	6.63	
28	6.73	7.33	7.41	7.31	7.71	7.68	7.93	7.34	6.89	6.73	6.63	6.63	
29	6.73	7.39	7.36	7.28	7.76	7.71	8.25	7.40	6.88	6.73		6.63	
30	7.73	8.57	7.34	7.28	7.56	7.96	8.33	7.38	6.88	6.73		6.63	
31		9.13		7.28	7.48		8.71		6.88	6.73		6.63	
Mean	6.76	7.73	8.04	7.50	7.95	8.81	7.97	7.82	6.99	6.78	6.65	6.63	
Max	7.73	9.13	9.18	7.76	9.12	12.20	8.71	10.42	7.24	6.88	6.73	6.63	12.20
Min	6.73	7.33	7.34	7.28	7.23	7.41	7.55	7.23	6.88	6.71	6.63	6.63	6.63

Annual Max Momentary Gage Height 12.63 m. (MSL.) , at 15.00 Hours , on Sep 12, 2008

Zero Gage at Bottom Elevation 6.33 m. (MSL.) , River Bed 6.82 m. (MSL.)

Left Bank Elevation 13.61 m. (MSL.) ,

Right Bank Elevation 13.62 m. (MSL.) , Drainage Are 203 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	2.65	15.85	2.00	1.15	2.15	5.00	31.80	1.20	0.20	0.00	0.00		
2	0.00	2.15	11.63	3.50	2.90	2.25	4.85	46.60	1.15	0.15	0.00	0.00		
3	0.00	1.70	20.20	3.05	2.55	2.40	4.78	25.60	0.93	0.15	0.00	0.00		
4	0.00	1.80	12.00	2.80	2.85	2.40	12.38	13.45	0.83	0.15	0.00	0.00		
5	0.00	3.20	7.90	2.60	3.30	2.40	2.80	10.10	0.90	0.10	0.00	0.00		
6	0.00	3.05	5.68	2.70	2.75	2.10	7.60	7.70	0.70	0.08	0.00	0.00		
7	0.00	2.55	5.38	3.10	3.00	2.05	5.45	6.60	0.60	0.08	0.00	0.00		
8	0.00	2.30	5.00	3.20	2.95	2.85	4.55	6.35	0.58	0.08	0.00	0.00		
9	0.00	2.05	3.73	2.80	2.65	3.40	5.98	1.90	0.58	0.08	0.00	0.00		
10	0.00	1.75	3.15	3.05	2.55	4.40	9.80	2.70	0.53	0.08	0.00	0.00		
11	0.00	2.00	3.35	3.25	2.60	4.63	7.70	3.25	0.45	0.08	0.00	0.00		
12	0.00	6.35	17.35	2.80	8.80	64.85	6.60	3.80	0.45	0.03	0.00	0.00		
13	0.00	7.50	11.00	2.55	19.30	111.50	2.75	1.65	0.45	0.03	0.00	0.00		
14	0.00	6.13	12.75	2.30	17.80	53.80	4.48	2.25	0.45	0.03	0.00	0.00		
15	0.00	8.60	12.38	2.15	12.50	26.60	4.25	2.95	0.33	0.00	0.00	0.00		
16	0.00	5.60	8.40	2.15	18.10	23.00	3.58	2.20	0.33	0.00	0.00	0.00		
17	0.00	3.80	9.40	2.40	15.25	41.25	3.00	2.70	0.33	0.00	0.00	0.00		
18	0.00	2.95	8.30	2.60	9.70	52.90	2.85	2.30	0.33	0.00	0.00	0.00		
19	0.00	2.65	6.05	2.60	10.75	63.80	2.85	2.15	0.33	0.00	0.00	0.00		
20	0.00	3.05	4.85	3.05	5.23	72.55	3.05	1.65	0.33	0.00	0.00	0.00		
21	0.00	7.10	3.80	3.95	3.88	54.70	4.25	1.95	0.33	0.00	0.00	0.00		
22	0.00	4.85	3.15	3.50	3.95	28.40	6.28	1.90	0.33	0.00	0.00	0.00		
23	0.00	3.30	2.80	2.70	6.50	18.70	5.83	1.65	0.30	0.00	0.00	0.00		
24	0.00	4.85	2.60	2.30	6.35	12.50	6.43	1.65	0.30	0.00	0.00	0.00		
25	0.00	3.05	2.50	2.00	5.30	10.75	6.13	1.95	0.30	0.00	0.00	0.00		
26	0.00	2.45	2.25	1.75	4.33	4.10	5.38	1.15	0.25	0.00	0.00	0.00		
27	0.00	1.95	2.15	1.65	4.10	3.45	5.68	1.15	0.23	0.00	0.00	0.00		
28	0.00	1.65	2.05	1.55	3.58	3.40	5.23	1.70	0.23	0.00	0.00	0.00		
29	0.00	1.95	1.80	1.40	3.95	3.58	8.00	2.00	0.20	0.00		0.00		
30	3.73	11.38	1.70	1.40	2.80	5.45	8.80	1.90	0.20	0.00		0.00		
31		19.45		1.40	2.40		13.15		0.20	0.00		0.00		
Total	3.73	133.81	209.15	78.25	193.82	686.31	179.46	194.70	14.65	1.32	0.00	0.00	1695.20	CMSDAY
Mean	0.12	4.32	6.97	2.52	6.25	22.88	5.79	6.49	0.47	0.04	0.00	0.00	4.64	CMS
Max	3.73	19.45	20.20	3.95	19.30	111.50	13.15	46.60	1.20	0.20	0.00	0.00	111.50	CMS
Min	0.00	1.65	1.70	1.40	1.15	2.05	2.75	1.15	0.20	0.00	0.00	0.00	0.00	CMS
Runoff	0.32	11.56	18.07	6.76	16.75	59.30	15.51	16.82	1.27	0.11	0.00	0.00	146.47	MCM

Momentary Peak 133.00 CMS. at 12.63 m. (MSL.) at 15.00 Hours , on Sep 12, 2008

Runoff Yield 22.86 Liters/Second/Square KM. Momentary Peak Yield 654.53 Liters/Second/Square KM.

WATER YEAR : 2008

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 right bank about 50 meters from the top staff gage.

Ban Cha Om **Amphoe** Kaeng Khoi **Changwat** Saraburi

Drainge 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 right 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 mean of 5 readings
Period of Available Gage Records	1988 to date
Rating Operation	
Period of Rating	1988 to date
Rated by Float	-
Rated by Current Meter	1988 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +34.790 m.(MSL), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 16 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

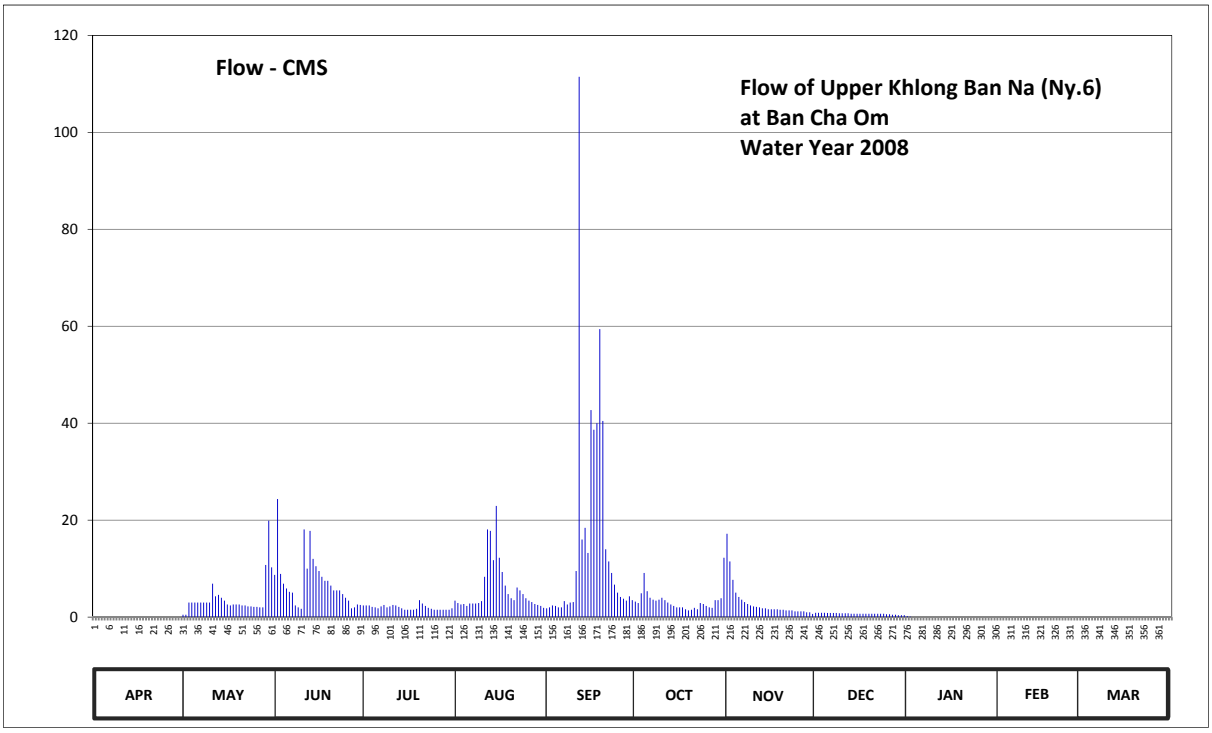
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	30.70	30.90	31.56	31.14	31.24	31.08	31.22	31.89	30.98	30.84	31.44	31.36	
2	30.70	30.90	32.11	31.14	31.19	31.10	31.19	31.68	30.98	30.82	31.44	31.40	
3	30.70	31.20	31.57	31.14	31.16	31.14	31.36	31.51	30.98	30.80	31.44	31.42	
4	30.70	31.20	31.47	31.11	31.17	31.13	31.58	31.37	30.98	30.78	31.45	31.42	
5	30.70	31.20	31.42	31.10	31.13	31.10	31.39	31.31	30.97	30.78	31.45	31.40	
6	30.70	31.20	31.38	31.08	31.18	31.10	31.30	31.26	30.97	30.78	31.45	31.40	
7	30.70	31.20	31.37	31.12	31.18	31.23	31.26	31.21	30.97	30.78	31.45	31.40	
8	30.70	31.20	31.14	31.15	31.18	31.16	31.24	31.17	30.97	30.78	31.46	31.40	
9	30.70	31.20	31.10	31.10	31.19	31.20	31.26	31.14	30.96	30.78	31.46	31.40	
10	30.70	31.20	31.07	31.12	31.23	31.21	31.30	31.12	30.96	30.78	31.46	31.40	
11	30.70	31.47	31.92	31.15	31.54	31.60	31.25	31.11	30.96	30.78	31.46	31.40	
12	30.70	31.32	31.62	31.14	31.92	33.73	31.20	31.10	30.96	30.78	31.44	31.40	
13	30.70	31.34	31.91	31.11	31.91	31.85	31.16	31.08	30.94	30.77	31.44	31.40	
14	30.70	31.30	31.70	31.08	31.69	31.93	31.13	31.08	30.94	30.77	31.40	31.40	
15	30.70	31.24	31.64	31.05	32.07	31.75	31.10	31.06	30.94	30.77	31.40	31.40	
16	30.70	31.16	31.60	31.05	31.71	32.56	31.10	31.06	30.94	30.77	31.40	31.40	
17	30.70	31.14	31.54	31.05	31.59	32.47	31.10	31.06	30.94	30.76	31.38	31.40	
18	30.70	31.16	31.50	31.05	31.45	32.50	31.06	31.06	30.94	30.76	31.36	31.40	
19	30.70	31.16	31.50	31.07	31.35	32.88	31.04	31.05	30.94	30.76	31.36	31.40	
20	30.70	31.16	31.45	31.25	31.29	32.51	31.05	31.05	30.94	30.75	31.34	31.40	
21	30.70	31.14	31.40	31.18	31.25	31.78	31.09	31.04	30.94	30.75	31.34	31.40	
22	30.70	31.14	31.40	31.13	31.43	31.68	31.06	31.04	30.94	30.75	31.34	31.40	
23	30.70	31.12	31.40	31.09	31.40	31.58	31.19	31.04	30.94	30.75	31.34	31.40	
24	30.70	31.12	31.35	31.07	31.35	31.46	31.17	31.02	30.94	30.79	31.34	31.40	
25	30.70	31.11	31.30	31.05	31.29	31.37	31.13	31.02	30.92	31.42	31.34	31.40	
26	30.70	31.11	31.24	31.05	31.24	31.31	31.10	31.02	30.92	31.44	31.34	31.40	
27	30.70	31.10	31.08	31.05	31.21	31.28	31.09	31.02	30.90	31.42	31.34	31.40	
28	30.70	31.10	31.10	31.05	31.17	31.24	31.25	31.00	30.90	31.42	31.34	31.40	
29	30.70	31.65	31.16	31.05	31.15	31.32	31.25	31.00	30.88	31.42		31.40	
30	30.70	31.98	31.15	31.05	31.13	31.25	31.29	30.93	30.88	31.42		31.40	
31		31.63		31.08	31.09		31.71		30.88	31.42		31.40	
Mean	30.70	31.23	31.44	31.10	31.36	31.65	31.21	31.15	30.94	30.92	31.40	31.40	
Max	30.70	31.98	32.11	31.25	32.07	33.73	31.71	31.89	30.98	31.44	31.46	31.42	33.73
Min	30.70	30.90	31.07	31.05	31.09	31.08	31.04	30.93	30.88	30.75	31.34	31.36	30.70

Annual Max Momentary Gage Height 35.20 m. (MSL.) , at 06.00 Hours , on Sep 12, 2008

Zero Gage at Bottom Elevation 29.60 m. (MSL.) , River Bed 30.35 m. (MSL.)

Left Bank Elevation 34.81 m. (MSL.) ,

Right Bank Elevation 34.78 m. (MSL.) , Drainage Are 126 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.50	8.70	2.40	3.40	1.80	3.20	17.20	0.90	0.20	0.00	0.00		
2	0.00	0.50	24.35	2.40	2.90	2.00	2.90	11.50	0.90	0.10	0.00	0.00		
3	0.00	3.00	8.90	2.40	2.60	2.40	4.90	7.70	0.90	0.00	0.00	0.00		
4	0.00	3.00	6.90	2.10	2.70	2.30	9.10	5.05	0.90	0.00	0.00	0.00		
5	0.00	3.00	5.90	2.00	2.30	2.00	5.35	4.15	0.85	0.00	0.00	0.00		
6	0.00	3.00	5.20	1.80	2.80	2.00	4.00	3.60	0.85	0.00	0.00	0.00		
7	0.00	3.00	5.05	2.20	2.80	3.30	3.60	3.10	0.85	0.00	0.00	0.00		
8	0.00	3.00	2.40	2.50	2.80	2.60	3.40	2.70	0.85	0.00	0.00	0.00		
9	0.00	3.00	2.00	2.00	2.90	3.00	3.60	2.40	0.80	0.00	0.00	0.00		
10	0.00	3.00	1.70	2.20	3.30	3.10	4.00	2.20	0.80	0.00	0.00	0.00		
11	0.00	6.90	18.10	2.50	8.30	9.50	3.50	2.10	0.80	0.00	0.00	0.00		
12	0.00	4.30	10.00	2.40	18.10	111.45	3.00	2.00	0.80	0.00	0.00	0.00		
13	0.00	4.60	17.80	2.10	17.80	16.00	2.60	1.80	0.70	0.00	0.00	0.00		
14	0.00	4.00	12.00	1.80	11.75	18.40	2.30	1.80	0.70	0.00	0.00	0.00		
15	0.00	3.40	10.50	1.50	22.95	13.25	2.00	1.60	0.70	0.00	0.00	0.00		
16	0.00	2.60	9.50	1.50	12.25	42.70	2.00	1.60	0.70	0.00	0.00	0.00		
17	0.00	2.40	8.30	1.50	9.30	38.65	2.00	1.60	0.70	0.00	0.00	0.00		
18	0.00	2.60	7.50	1.50	6.50	40.00	1.60	1.60	0.70	0.00	0.00	0.00		
19	0.00	2.60	7.50	1.70	4.75	59.40	1.40	1.50	0.70	0.00	0.00	0.00		
20	0.00	2.60	6.50	3.50	3.90	40.45	1.50	1.50	0.70	0.00	0.00	0.00		
21	0.00	2.40	5.50	2.80	3.50	14.00	1.90	1.40	0.70	0.00	0.00	0.00		
22	0.00	2.40	5.50	2.30	6.10	11.50	1.60	1.40	0.70	0.00	0.00	0.00		
23	0.00	2.20	5.50	1.90	5.50	9.10	2.90	1.40	0.70	0.00	0.00	0.00		
24	0.00	2.20	4.75	1.70	4.75	6.70	2.70	1.20	0.70	0.00	0.00	0.00		
25	0.00	2.10	4.00	1.50	3.90	5.05	2.30	1.20	0.60	0.00	0.00	0.00		
26	0.00	2.10	3.40	1.50	3.40	4.15	2.00	1.20	0.60	0.00	0.00	0.00		
27	0.00	2.00	1.80	1.50	3.10	3.80	1.90	1.20	0.50	0.00	0.00	0.00		
28	0.00	2.00	2.00	1.50	2.70	3.40	3.50	1.00	0.50	0.00	0.00	0.00		
29	0.00	10.75	2.60	1.50	2.50	4.30	3.50	1.00	0.40	0.00		0.00		
30	0.00	19.90	2.50	1.50	2.30	3.50	3.90	0.65	0.40	0.00		0.00		
31		10.25		1.80	1.90		12.25		0.40	0.00		0.00		
Total	0.00	119.30	216.35	61.50	183.75	479.80	104.40	88.35	22.00	0.30	0.00	0.00	1275.75	CMSDAY
Mean	0.00	3.85	7.21	1.98	5.93	15.99	3.37	2.95	0.71	0.01	0.00	0.00	3.50	CMS
Max	0.00	19.90	24.35	3.50	22.95	111.45	12.25	17.20	0.90	0.20	0.00	0.00	111.45	CMS
Min	0.00	0.50	1.70	1.50	1.90	1.80	1.40	0.65	0.40	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	10.31	18.69	5.31	15.88	41.45	9.02	7.63	1.90	0.03	0.00	0.00	110.22	MCM

Momentary Peak 223.00 CMS. at 35.20 m. (MSL.) at 06.00 Hours , on Sep 12, 2008

Runoff Yield 27.69 Liters/Second/Square KM. Momentary Peak Yield 1766.62 Liters/Second/Square KM.

WATER YEAR : 2008

TONLE SAP BASIN

Khlong Phra Phut at Ban Pang Ngon , Chanthaburi (TI.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

Drainge Area	71 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+190.675 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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1983 to date
Rating Operation	
Period of Rating	1986 to date
Rated by Float	-
Rated by Current Meter	1986 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow effected by the local weir. Stage-discharge relation defined by 10 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

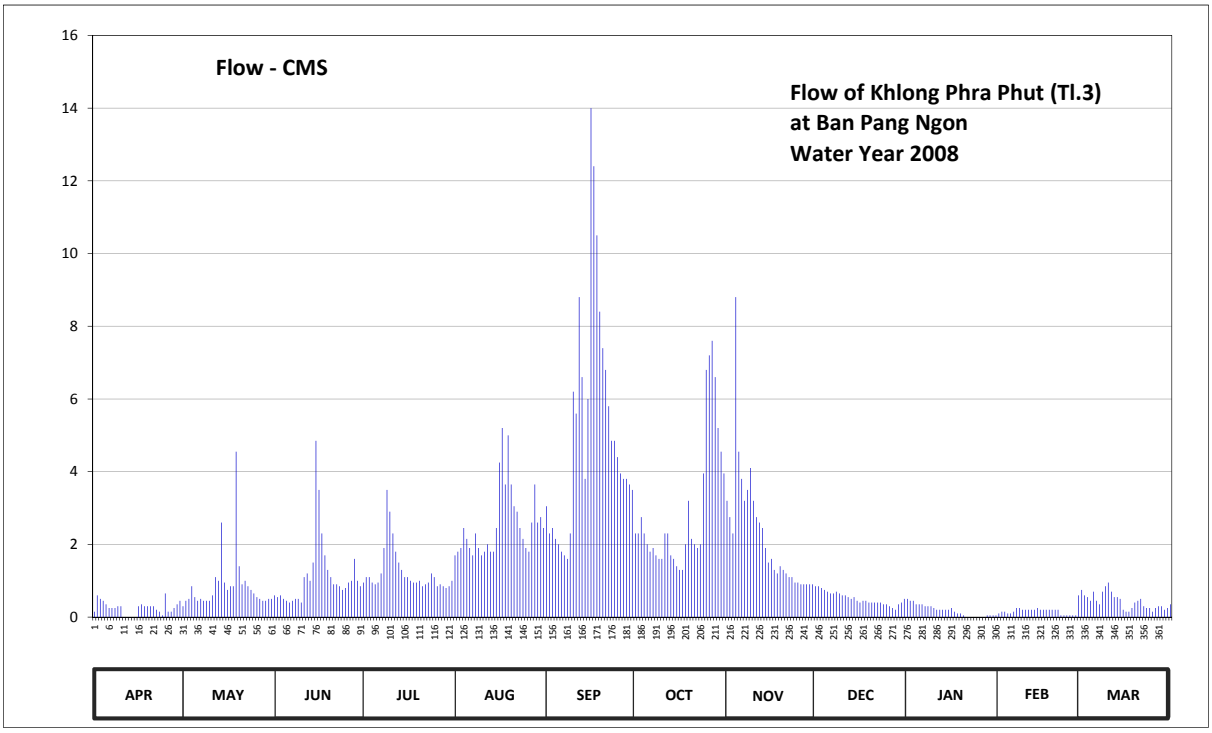
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	190.93	190.96	191.02	191.09	191.17	191.27	191.22	191.28	191.07	191.00	190.92	191.05	
2	191.02	190.99	191.01	191.11	191.18	191.22	191.22	191.25	191.07	190.99	190.93	191.02	
3	191.00	191.00	191.02	191.11	191.19	191.23	191.25	191.22	191.06	190.99	190.93	191.01	
4	190.99	191.07	191.00	191.09	191.23	191.21	191.22	191.59	191.05	190.97	190.92	190.99	
5	190.97	191.01	190.99	191.08	191.21	191.20	191.20	191.37	191.04	190.97	190.92	191.04	
6	190.95	190.99	190.98	191.09	191.19	191.18	191.18	191.32	191.03	190.97	190.93	190.99	
7	190.95	191.00	190.99	191.12	191.17	191.17	191.19	191.28	191.03	190.96	190.95	190.97	
8	190.95	190.99	191.00	191.19	191.22	191.16	191.17	191.30	191.04	190.96	190.95	191.04	
9	190.96	190.99	191.00	191.30	191.19	191.22	191.16	191.34	191.03	190.96	190.94	191.07	
10	190.96	190.99	190.98	191.26	191.17	191.46	191.16	191.28	191.02	190.95	190.94	191.09	
11	190.89	191.02	191.11	191.22	191.18	191.43	191.22	191.25	191.02	190.94	190.94	191.04	
12	190.89	191.11	191.12	191.18	191.20	191.59	191.22	191.24	191.01	190.94	190.94	191.01	
13	190.89	191.10	191.10	191.15	191.18	191.48	191.17	191.23	191.00	190.94	190.94	191.01	
14	190.89	191.24	191.15	191.13	191.18	191.32	191.16	191.19	191.01	190.94	190.95	191.00	
15	190.88	191.09	191.39	191.11	191.23	191.45	191.14	191.15	190.99	190.94	190.94	190.94	
16	190.96	191.05	191.30	191.11	191.35	191.75	191.13	191.16	190.98	190.95	190.94	190.93	
17	190.97	191.07	191.22	191.10	191.41	191.71	191.13	191.13	190.99	190.93	190.94	190.93	
18	190.96	191.07	191.17	191.09	191.31	191.65	191.20	191.12	190.99	190.92	190.94	190.95	
19	190.96	191.37	191.13	191.09	191.40	191.57	191.28	191.14	190.98	190.92	190.94	190.98	
20	190.96	191.14	191.11	191.10	191.31	191.52	191.21	191.13	190.98	190.91	190.94	190.99	
21	190.96	191.08	191.08	191.07	191.27	191.49	191.20	191.12	190.98	190.90	190.94	191.00	
22	190.94	191.10	191.08	191.08	191.26	191.44	191.19	191.11	190.98	190.90	190.91	190.96	
23	190.93	191.07	191.07	191.09	191.23	191.39	191.20	191.11	190.98	190.90	190.91	190.95	
24	190.91	191.05	191.05	191.12	191.21	191.39	191.33	191.09	190.97	190.90	190.91	190.95	
25	191.03	191.03	191.06	191.11	191.19	191.36	191.49	191.09	190.97	190.90	190.91	190.93	
26	190.93	191.01	191.09	191.07	191.18	191.33	191.51	191.08	190.96	190.89	190.91	190.95	
27	190.93	191.00	191.10	191.08	191.24	191.32	191.53	191.08	190.95	190.90	190.91	190.96	
28	190.95	190.99	191.16	191.07	191.31	191.32	191.48	191.08	190.94	190.91	191.02	190.96	
29	190.97	190.99	191.10	191.06	191.24	191.31	191.41	191.08	190.97	190.91		190.94	
30	190.99	191.00	191.07	191.07	191.25	191.30	191.37	191.08	190.98	190.91		190.95	
31		191.00		191.10	191.23		191.33		191.00	190.91		190.97	
Mean	190.95	191.05	191.09	191.12	191.23	191.38	191.25	191.20	191.00	190.93	190.93	190.99	
Max	191.03	191.37	191.39	191.30	191.41	191.75	191.53	191.59	191.07	191.00	191.02	191.09	191.75
Min	190.88	190.96	190.98	191.06	191.17	191.16	191.13	191.08	190.94	190.89	190.91	190.93	190.88

Annual Max Momentary Gage Height 192.18 m. (MSL.) , at 07.00 Hours , on Nov 4, 2008

Zero Gage at Bottom Elevation 190.68 m. (MSL.) , River Bed 190.50 m. (MSL.)

Left Bank Elevation 196.61 m. (MSL.) ,

Right Bank Elevation 196.69 m. (MSL.) , Drainage Are 71 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.15	0.30	0.60	0.95	1.70	3.05	2.30	3.20	0.85	0.50	0.10	0.75		
2	0.60	0.45	0.55	1.10	1.80	2.30	2.30	2.75	0.85	0.45	0.15	0.60		
3	0.50	0.50	0.60	1.10	1.90	2.45	2.75	2.30	0.80	0.45	0.15	0.55		
4	0.45	0.85	0.50	0.95	2.45	2.15	2.30	8.80	0.75	0.35	0.10	0.45		
5	0.35	0.55	0.45	0.90	2.15	2.00	2.00	4.55	0.70	0.35	0.10	0.70		
6	0.25	0.45	0.40	0.95	1.90	1.80	1.80	3.80	0.65	0.35	0.15	0.45		
7	0.25	0.50	0.45	1.20	1.70	1.70	1.90	3.20	0.65	0.30	0.25	0.35		
8	0.25	0.45	0.50	1.90	2.30	1.60	1.70	3.50	0.70	0.30	0.25	0.70		
9	0.30	0.45	0.50	3.50	1.90	2.30	1.60	4.10	0.65	0.30	0.20	0.85		
10	0.30	0.45	0.40	2.90	1.70	6.20	1.60	3.20	0.60	0.25	0.20	0.95		
11	0.00	0.60	1.10	2.30	1.80	5.60	2.30	2.75	0.60	0.20	0.20	0.70		
12	0.00	1.10	1.20	1.80	2.00	8.80	2.30	2.60	0.55	0.20	0.20	0.55		
13	0.00	1.00	1.00	1.50	1.80	6.60	1.70	2.45	0.50	0.20	0.20	0.55		
14	0.00	2.60	1.50	1.30	1.80	3.80	1.60	1.90	0.55	0.20	0.25	0.50		
15	0.00	0.95	4.85	1.10	2.45	6.00	1.40	1.50	0.45	0.20	0.20	0.20		
16	0.30	0.75	3.50	1.10	4.25	14.00	1.30	1.60	0.40	0.25	0.20	0.15		
17	0.35	0.85	2.30	1.00	5.20	12.40	1.30	1.30	0.45	0.15	0.20	0.15		
18	0.30	0.85	1.70	0.95	3.65	10.50	2.00	1.20	0.45	0.10	0.20	0.25		
19	0.30	4.55	1.30	0.95	5.00	8.40	3.20	1.40	0.40	0.10	0.20	0.40		
20	0.30	1.40	1.10	1.00	3.65	7.40	2.15	1.30	0.40	0.05	0.20	0.45		
21	0.30	0.90	0.90	0.85	3.05	6.80	2.00	1.20	0.40	0.00	0.20	0.50		
22	0.20	1.00	0.90	0.90	2.90	5.80	1.90	1.10	0.40	0.00	0.05	0.30		
23	0.15	0.85	0.85	0.95	2.45	4.85	2.00	1.10	0.40	0.00	0.05	0.25		
24	0.05	0.75	0.75	1.20	2.15	4.85	3.95	0.95	0.35	0.00	0.05	0.25		
25	0.65	0.65	0.80	1.10	1.90	4.40	6.80	0.95	0.35	0.00	0.05	0.15		
26	0.15	0.55	0.95	0.85	1.80	3.95	7.20	0.90	0.30	0.00	0.05	0.25		
27	0.15	0.50	1.00	0.90	2.60	3.80	7.60	0.90	0.25	0.00	0.05	0.30		
28	0.25	0.45	1.60	0.85	3.65	3.80	6.60	0.90	0.20	0.05	0.60	0.30		
29	0.35	0.45	1.00	0.80	2.60	3.65	5.20	0.90	0.35	0.05		0.20		
30	0.45	0.50	0.85	0.85	2.75	3.50	4.55	0.90	0.40	0.05		0.25		
31		0.50		1.00	2.45		3.95		0.50	0.05		0.35		
Total	7.65	26.70	34.10	38.70	79.40	154.45	91.25	67.20	15.85	5.45	4.80	13.35	538.90	CMSDAY
Mean	0.26	0.86	1.14	1.25	2.56	5.15	2.94	2.24	0.51	0.18	0.17	0.43	1.48	CMS
Max	0.65	4.55	4.85	3.50	5.20	14.00	7.60	8.80	0.85	0.50	0.60	0.95	14.00	CMS
Min	0.00	0.30	0.40	0.80	1.70	1.60	1.30	0.90	0.20	0.00	0.05	0.15	0.00	CMS
Runoff	0.66	2.31	2.95	3.34	6.86	13.34	7.88	5.81	1.37	0.47	0.41	1.15	46.56	MCM

Momentary Peak 39.40 CMS. at 192.18 m. (MSL.) at 07.00 Hours, on Nov 4, 2008

Runoff Yield 20.69 Liters/Second/Square KM. Momentary Peak Yield 552.05 Liters/Second/Square KM.

WATER YEAR : 2008

TONLE SAP BASIN

Khlong Ta Kong at Ban Khlong Ta Kong , Chanthaburi (Tl.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

Drainge 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 mean of 24 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1986 to date
Rated by Float	-
Rated by Current Meter	1986 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow
General Description	Records fair. Flow effected by the local weir. Stage-discharge relation defined by 12 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

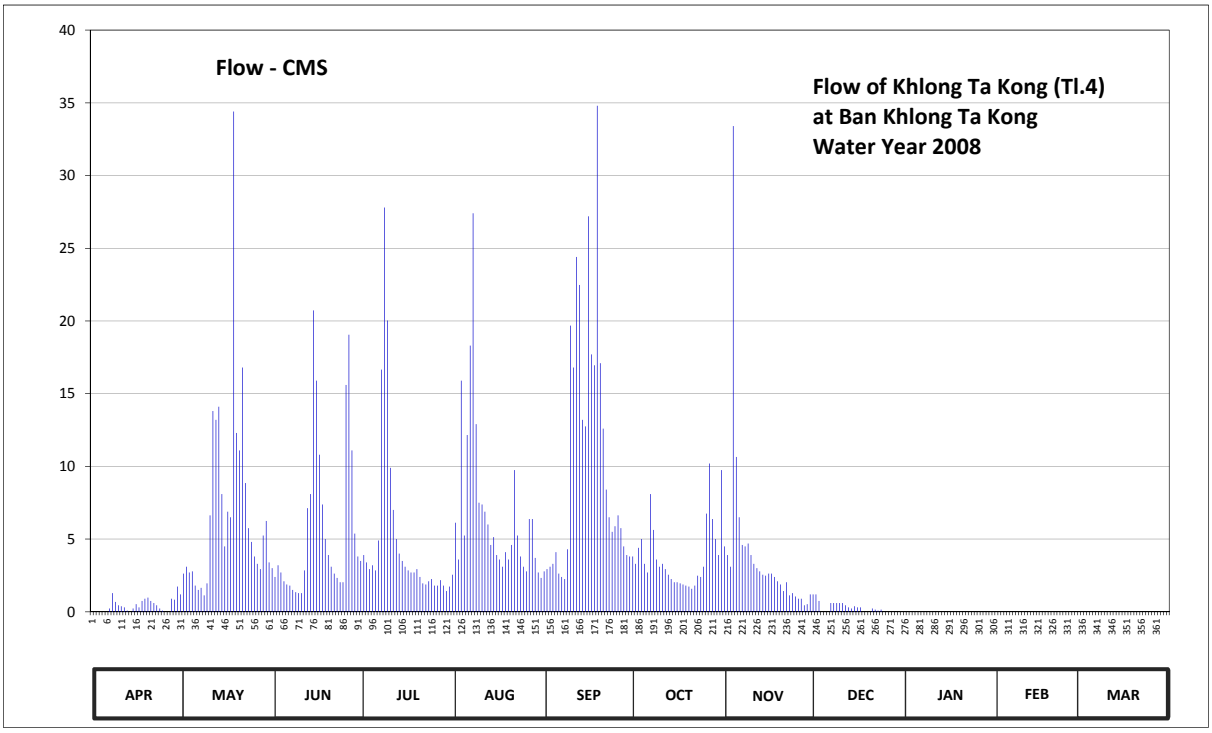
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	177.23	177.76	178.00	178.05	177.94	177.97	178.08	178.15	177.76	178.07	177.80	177.30	
2	177.28	177.95	177.92	178.09	178.29	177.99	178.03	178.09	177.76	178.05	177.78	177.30	
3	177.43	178.01	178.02	178.04	178.06	178.01	178.14	178.01	177.70	178.03	177.73	177.35	
4	177.50	177.96	177.96	177.99	178.96	178.03	178.20	179.92	177.56	178.01	177.69	177.34	
5	177.51	177.97	177.88	178.02	178.22	178.11	178.03	178.61	177.58	177.99	177.65	177.33	
6	177.52	177.84	177.85	177.98	178.71	177.95	177.96	178.32	177.60	177.99	177.62	178.15	
7	177.63	177.80	177.84	178.19	179.12	177.92	178.44	178.16	177.68	177.99	177.58	178.34	
8	177.77	177.82	177.80	179.01	179.62	177.90	178.25	178.15	177.68	177.98	177.54	178.31	
9	177.69	177.75	177.78	179.64	178.76	178.13	178.06	178.17	177.68	177.97	177.49	178.28	
10	177.66	177.86	177.77	179.23	178.40	179.21	178.01	178.09	177.68	177.96	177.48	178.30	
11	177.65	178.33	177.77	178.56	178.39	179.02	178.03	178.03	177.68	177.95	177.47	178.30	
12	177.64	178.82	177.98	178.36	178.35	179.47	177.99	178.00	177.66	177.94	177.47	178.30	
13	177.61	178.78	178.37	178.20	178.28	179.37	177.94	177.97	177.64	177.93	177.47	178.30	
14	177.59	178.84	178.44	178.10	178.16	178.78	177.90	177.94	177.63	177.93	177.45	178.29	
15	177.63	178.44	179.27	178.05	178.21	178.75	177.87	177.93	177.65	177.92	177.45	178.27	
16	177.67	178.15	178.96	178.01	178.09	179.61	177.87	177.95	177.64	177.91	177.45	178.26	
17	177.64	178.35	178.62	177.98	178.06	179.08	177.86	177.95	177.64	177.92	177.42	178.26	
18	177.70	178.32	178.39	177.96	178.01	179.03	177.85	177.92	177.60	177.93	177.42	178.25	
19	177.72	179.97	178.20	177.96	178.11	179.99	177.84	177.88	177.60	177.91	177.42	178.29	
20	177.73	178.72	178.09	177.99	178.06	179.04	177.83	177.85	177.59	177.90	177.42	178.34	
21	177.70	178.64	178.01	177.92	178.16	178.74	177.81	177.79	177.63	177.90	177.39	178.30	
22	177.68	179.02	177.95	177.86	178.55	178.46	177.84	177.87	177.62	177.90	177.39	178.19	
23	177.66	178.49	177.91	177.85	178.22	178.32	177.93	177.75	177.61	177.90	177.39	178.15	
24	177.63	178.26	177.87	177.88	178.08	178.24	177.92	177.77	177.62	177.90	177.35	178.10	
25	177.61	178.18	177.87	177.90	178.01	178.27	178.01	177.74	178.08	177.90	177.35	178.06	
26	177.59	178.08	178.94	177.84	177.97	178.33	178.34	177.72	178.11	177.90	177.35	178.03	
27	177.59	178.03	179.17	177.84	178.31	178.26	178.58	177.72	178.09	177.90	177.35	178.03	
28	177.72	177.99	178.64	177.89	178.31	178.15	178.31	177.66	178.09	177.90	177.35	178.02	
29	177.71	178.22	178.23	177.84	178.07	178.09	178.20	177.67	178.09	177.90		178.02	
30	177.83	178.30	178.08	177.79	177.96	178.08	178.09	177.76	178.06	177.90		178.07	
31		178.04		177.83	177.91		178.55		178.05	177.90		178.06	
Mean	177.62	178.28	178.19	178.12	178.30	178.54	178.06	178.02	177.74	177.94	177.49	178.06	
Max	177.83	179.97	179.27	179.64	179.62	179.99	178.58	179.92	178.11	178.07	177.80	178.34	179.99
Min	177.23	177.75	177.77	177.79	177.91	177.90	177.81	177.66	177.56	177.90	177.35	177.30	177.23

Annual Max Momentary Gage Height 181.67 m. (MSL.) , at 08.00 Hours , on Aug 4, 2008

Zero Gage at Bottom Elevation 176.80 m. (MSL.) , River Bed 176.51 m. (MSL.)

Left Bank Elevation 186.11 m. (MSL.) ,

Right Bank Elevation 186.01 m. (MSL.) , Drainage Are 86 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	1.20	3.00	3.50	2.55	2.78	3.80	4.50	1.20	0.00	0.00	0.00		
2	0.00	2.63	2.40	3.90	6.13	2.93	3.30	3.90	1.20	0.00	0.00	0.00		
3	0.00	3.10	3.20	3.40	3.60	3.10	4.40	3.10	0.75	0.00	0.00	0.00		
4	0.00	2.70	2.70	2.93	15.90	3.30	5.00	33.40	0.00	0.00	0.00	0.00		
5	0.00	2.78	2.10	3.20	5.25	4.10	3.30	10.65	0.00	0.00	0.00	0.00		
6	0.00	1.80	1.88	2.85	12.15	2.63	2.70	6.50	0.00	0.00	0.00	0.00		
7	0.23	1.50	1.80	4.90	18.30	2.40	8.10	4.60	0.60	0.00	0.00	0.00		
8	1.28	1.65	1.50	16.65	27.40	2.25	5.63	4.50	0.60	0.00	0.00	0.00		
9	0.68	1.13	1.35	27.80	12.90	4.30	3.60	4.70	0.60	0.00	0.00	0.00		
10	0.45	1.95	1.28	20.03	7.50	19.68	3.10	3.90	0.60	0.00	0.00	0.00		
11	0.38	6.63	1.28	9.90	7.38	16.80	3.30	3.30	0.60	0.00	0.00	0.00		
12	0.30	13.80	2.85	7.00	6.88	24.40	2.93	3.00	0.45	0.00	0.00	0.00		
13	0.08	13.20	7.13	5.00	6.00	22.48	2.55	2.78	0.30	0.00	0.00	0.00		
14	0.00	14.10	8.10	4.00	4.60	13.20	2.25	2.55	0.23	0.00	0.00	0.00		
15	0.23	8.10	20.73	3.50	5.13	12.75	2.03	2.48	0.38	0.00	0.00	0.00		
16	0.53	4.50	15.90	3.10	3.90	27.20	2.03	2.63	0.30	0.00	0.00	0.00		
17	0.30	6.88	10.80	2.85	3.60	17.70	1.95	2.63	0.30	0.00	0.00	0.00		
18	0.75	6.50	7.38	2.70	3.10	16.95	1.88	2.40	0.00	0.00	0.00	0.00		
19	0.90	34.40	5.00	2.70	4.10	34.80	1.80	2.10	0.00	0.00	0.00	0.00		
20	0.98	12.30	3.90	2.93	3.60	17.10	1.73	1.88	0.00	0.00	0.00	0.00		
21	0.75	11.10	3.10	2.40	4.60	12.60	1.58	1.43	0.23	0.00	0.00	0.00		
22	0.60	16.80	2.63	1.95	9.75	8.40	1.80	2.03	0.15	0.00	0.00	0.00		
23	0.45	8.85	2.33	1.88	5.25	6.50	2.48	1.13	0.08	0.00	0.00	0.00		
24	0.23	5.75	2.03	2.10	3.80	5.50	2.40	1.28	0.15	0.00	0.00	0.00		
25	0.08	4.80	2.03	2.25	3.10	5.88	3.10	1.05	0.00	0.00	0.00	0.00		
26	0.00	3.80	15.60	1.80	2.78	6.63	6.75	0.90	0.00	0.00	0.00	0.00		
27	0.00	3.30	19.05	1.80	6.38	5.75	10.20	0.90	0.00	0.00	0.00	0.00		
28	0.90	2.93	11.10	2.18	6.38	4.50	6.38	0.45	0.00	0.00	0.00	0.00		
29	0.83	5.25	5.38	1.80	3.70	3.90	5.00	0.53	0.00	0.00		0.00		
30	1.73	6.25	3.80	1.43	2.70	3.80	3.90	1.20	0.00	0.00		0.00		
31		3.40		1.73	2.33		9.75		0.00	0.00		0.00		
Total	12.66	213.08	171.33	154.16	210.74	314.31	118.72	116.40	8.72	0.00	0.00	0.00	1320.12	CMSDAY
Mean	0.42	6.87	5.71	4.97	6.80	10.48	3.83	3.88	0.28	0.00	0.00	0.00	3.62	CMS
Max	1.73	34.40	20.73	27.80	27.40	34.80	10.20	33.40	1.20	0.00	0.00	0.00	34.80	CMS
Min	0.00	1.13	1.28	1.43	2.33	2.25	1.58	0.45	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	1.09	18.41	14.80	13.32	18.21	27.16	10.26	10.06	0.75	0.00	0.00	0.00	114.06	MCM

Momentary Peak 77.60 CMS. at 181.67 m. (MSL.) at 08.00 Hours , on Nov 4, 2008

Runoff Yield 42.06 Liters/Second/Square KM. Momentary Peak Yield 902.33 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Float	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow
General Description	Records fair. Stage-discharge relation defined by 13 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

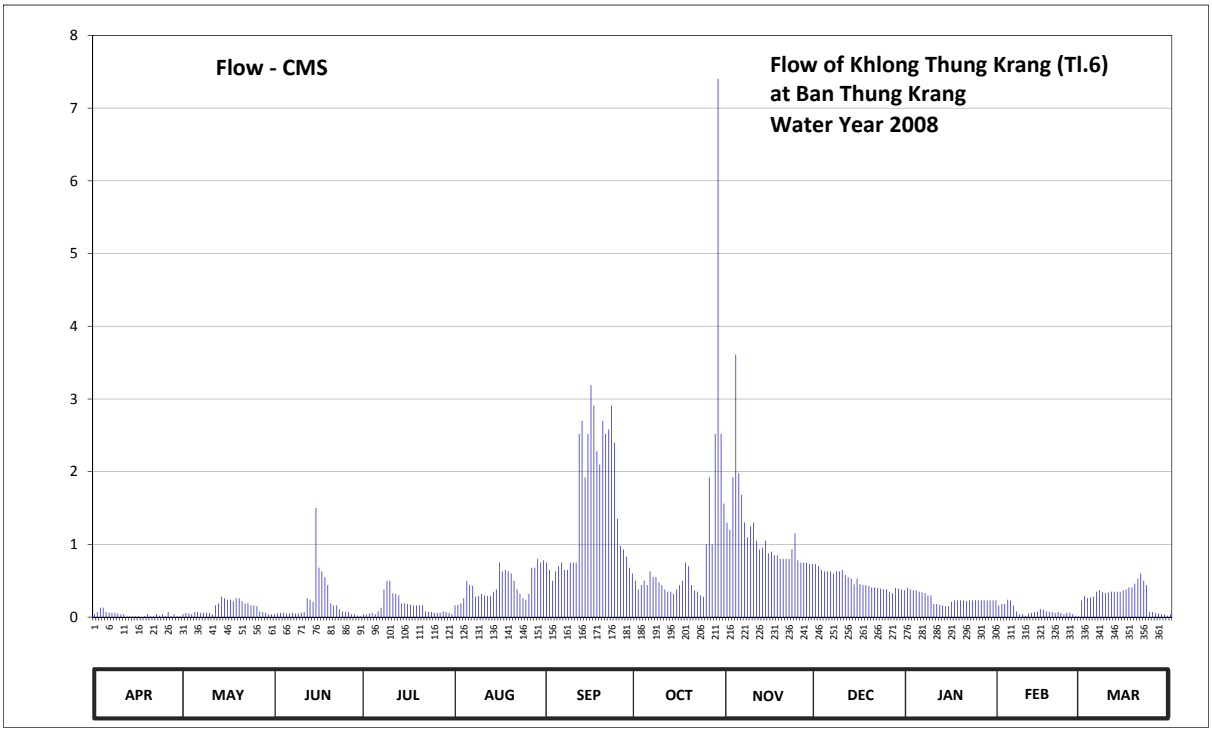
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	183.42	183.42	183.42	183.42	183.52	183.90	183.80	184.06	183.89	183.72	183.52	183.58	
2	183.45	183.44	183.43	183.42	183.53	183.86	183.70	184.04	183.88	183.70	183.54	183.63	
3	183.50	183.43	183.44	183.43	183.55	183.80	183.75	184.17	183.86	183.69	183.54	183.60	
4	183.50	183.42	183.44	183.44	183.60	183.85	183.80	184.43	183.85	183.69	183.59	183.61	
5	183.45	183.45	183.43	183.42	183.80	183.88	183.75	184.18	183.85	183.68	183.58	183.62	
6	183.44	183.45	183.43	183.46	183.75	183.90	183.85	184.13	183.85	183.67	183.52	183.68	
7	183.44	183.44	183.44	183.50	183.74	183.86	183.82	184.06	183.84	183.66	183.46	183.69	
8	183.44	183.44	183.43	183.70	183.62	183.86	183.82	184.02	183.85	183.64	183.42	183.67	
9	183.43	183.44	183.43	183.80	183.63	183.90	183.78	184.05	183.85	183.64	183.42	183.66	
10	183.42	183.44	183.44	183.80	183.65	183.90	183.75	184.06	183.86	183.54	183.41	183.67	
11	183.42	183.42	183.45	183.66	183.64	183.90	183.70	184.01	183.83	183.54	183.43	183.68	
12	183.40	183.52	183.60	183.65	183.63	184.27	183.68	183.97	183.82	183.53	183.44	183.68	
13	183.38	183.55	183.59	183.64	183.63	184.30	183.68	183.98	183.81	183.52	183.45	183.68	
14	183.36	183.62	183.56	183.55	183.68	184.17	183.65	184.01	183.76	183.51	183.46	183.68	
15	183.36	183.60	184.10	183.55	183.70	184.27	183.70	183.95	183.81	183.51	183.48	183.69	
16	183.36	183.59	183.87	183.54	183.90	184.37	183.75	183.96	183.76	183.56	183.47	183.70	
17	183.34	183.59	183.85	183.53	183.85	184.33	183.80	183.94	183.75	183.58	183.46	183.73	
18	183.40	183.57	183.82	183.52	183.86	184.23	183.90	183.94	183.75	183.58	183.45	183.73	
19	183.42	183.60	183.75	183.52	183.85	184.20	183.88	183.92	183.74	183.58	183.45	183.77	
20	183.40	183.60	183.55	183.52	183.84	184.30	183.75	183.92	183.73	183.58	183.44	183.81	
21	183.40	183.57	183.52	183.52	183.80	184.27	183.69	183.92	183.73	183.57	183.45	183.84	
22	183.42	183.55	183.52	183.46	183.70	184.28	183.68	183.92	183.72	183.58	183.44	183.80	
23	183.41	183.55	183.48	183.45	183.65	184.33	183.64	183.97	183.71	183.58	183.42	183.75	
24	183.42	183.52	183.46	183.45	183.60	184.25	183.62	184.03	183.70	183.58	183.44	183.45	
25	183.40	183.52	183.45	183.44	183.59	184.07	184.00	183.91	183.70	183.58	183.44	183.45	
26	183.45	183.51	183.45	183.44	183.65	183.99	184.17	183.90	183.68	183.58	183.42	183.44	
27	183.40	183.46	183.42	183.44	183.87	183.97	184.00	183.90	183.66	183.58	183.41	183.43	
28	183.42	183.45	183.42	183.46	183.87	183.93	184.27	183.90	183.72	183.58	183.40	183.42	
29	183.40	183.44	183.41	183.45	183.92	183.87	184.87	183.89	183.71	183.58		183.42	
30	183.40	183.42	183.40	183.44	183.90	183.84	184.27	183.89	183.70	183.58		183.41	
31		183.42		183.42	183.91		184.11		183.69	183.58		183.42	
Mean	183.41	183.50	183.53	183.52	183.72	184.06	183.86	184.00	183.78	183.60	183.46	183.63	
Max	183.50	183.62	184.10	183.80	183.92	184.37	184.87	184.43	183.89	183.72	183.59	183.84	184.87
Min	183.34	183.42	183.40	183.42	183.52	183.80	183.62	183.89	183.66	183.51	183.40	183.41	183.34

Annual Max Momentary Gage Height 186.50 m. (MSL.) , at 18.00 Hours , on Oct 29, 2008

Zero Gage at Bottom Elevation 183.10 m. (MSL.) , River Bed 182.99 m. (MSL.)

Left Bank Elevation 187.41 m. (MSL.) ,

Right Bank Elevation 187.40 m. (MSL.) , Drainage Are 42 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.04	0.04	0.04	0.04	0.16	0.75	0.50	1.30	0.73	0.40	0.16	0.23		
2	0.07	0.06	0.05	0.04	0.17	0.65	0.38	1.20	0.70	0.38	0.18	0.29		
3	0.13	0.05	0.06	0.05	0.19	0.50	0.44	1.92	0.65	0.37	0.18	0.26		
4	0.13	0.04	0.06	0.06	0.26	0.63	0.50	3.61	0.63	0.37	0.24	0.27		
5	0.07	0.07	0.05	0.04	0.50	0.70	0.44	1.98	0.63	0.35	0.23	0.28		
6	0.06	0.07	0.05	0.08	0.44	0.75	0.63	1.68	0.63	0.34	0.16	0.35		
7	0.06	0.06	0.06	0.13	0.43	0.65	0.55	1.30	0.60	0.33	0.08	0.37		
8	0.06	0.06	0.05	0.38	0.28	0.65	0.55	1.10	0.63	0.30	0.04	0.34		
9	0.05	0.06	0.05	0.50	0.29	0.75	0.48	1.25	0.63	0.30	0.04	0.33		
10	0.04	0.06	0.06	0.50	0.32	0.75	0.44	1.30	0.65	0.18	0.02	0.34		
11	0.04	0.04	0.07	0.33	0.30	0.75	0.38	1.05	0.58	0.18	0.05	0.35		
12	0.01	0.16	0.26	0.32	0.29	2.52	0.35	0.93	0.55	0.17	0.06	0.35		
13	0.01	0.19	0.24	0.30	0.29	2.70	0.35	0.95	0.53	0.16	0.07	0.35		
14	0.01	0.28	0.21	0.19	0.35	1.92	0.32	1.05	0.45	0.15	0.08	0.35		
15	0.01	0.26	1.50	0.19	0.38	2.52	0.38	0.88	0.53	0.15	0.11	0.37		
16	0.01	0.24	0.68	0.18	0.75	3.19	0.44	0.90	0.45	0.21	0.10	0.38		
17	0.00	0.24	0.63	0.17	0.63	2.91	0.50	0.85	0.44	0.23	0.08	0.41		
18	0.01	0.22	0.55	0.16	0.65	2.28	0.75	0.85	0.44	0.23	0.07	0.41		
19	0.04	0.26	0.44	0.16	0.63	2.10	0.70	0.80	0.43	0.23	0.07	0.46		
20	0.01	0.26	0.19	0.16	0.60	2.70	0.44	0.80	0.41	0.23	0.06	0.53		
21	0.01	0.22	0.16	0.16	0.50	2.52	0.37	0.80	0.41	0.22	0.07	0.60		
22	0.04	0.19	0.16	0.08	0.38	2.58	0.35	0.80	0.40	0.23	0.06	0.50		
23	0.02	0.19	0.11	0.07	0.32	2.91	0.30	0.93	0.39	0.23	0.04	0.44		
24	0.04	0.16	0.08	0.07	0.26	2.40	0.28	1.15	0.38	0.23	0.06	0.07		
25	0.01	0.16	0.07	0.06	0.24	1.35	1.00	0.78	0.38	0.23	0.06	0.07		
26	0.07	0.15	0.07	0.06	0.32	0.98	1.92	0.75	0.35	0.23	0.04	0.06		
27	0.01	0.08	0.04	0.06	0.68	0.93	1.00	0.75	0.33	0.23	0.02	0.05		
28	0.04	0.07	0.04	0.08	0.68	0.83	2.52	0.75	0.40	0.23	0.01	0.04		
29	0.01	0.06	0.02	0.07	0.80	0.68	7.40	0.73	0.39	0.23		0.04		
30	0.01	0.04	0.01	0.06	0.75	0.60	2.52	0.73	0.38	0.23		0.02		
31		0.04		0.04	0.78		1.56		0.37	0.23		0.04		
Total	1.12	4.08	6.06	4.79	13.62	46.15	28.74	33.87	15.47	7.78	2.44	8.95	173.07	CMSDAY
Mean	0.04	0.13	0.20	0.15	0.44	1.54	0.93	1.13	0.50	0.25	0.09	0.29	0.47	CMS
Max	0.13	0.28	1.50	0.50	0.80	3.19	7.40	3.61	0.73	0.40	0.24	0.60	7.40	CMS
Min	0.00	0.04	0.01	0.04	0.16	0.50	0.28	0.73	0.33	0.15	0.01	0.02	0.00	CMS
Runoff	0.10	0.35	0.52	0.41	1.18	3.99	2.48	2.93	1.34	0.67	0.21	0.77	14.95	MCM

Momentary Peak 30.90 CMS. at 186.50 m. (MSL.) at 18.00 Hours , on Oct 29, 2008

Runoff Yield 11.29 Liters/Second/Square KM. Momentary Peak Yield 735.71 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	779 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+1.901 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near automatic gage building. **Elevation** +13.181 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 mean of 5 readings
Period of Available Gage Records	1970 to date
Rating Operation	
Period of Rating	1973 - 1978 , 1999 to date
Rated by Float	-
Rated by Current Meter	1973 - 1978 , 1999 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow
General Description	Records fair. Stage-discharge relation defined by 49 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

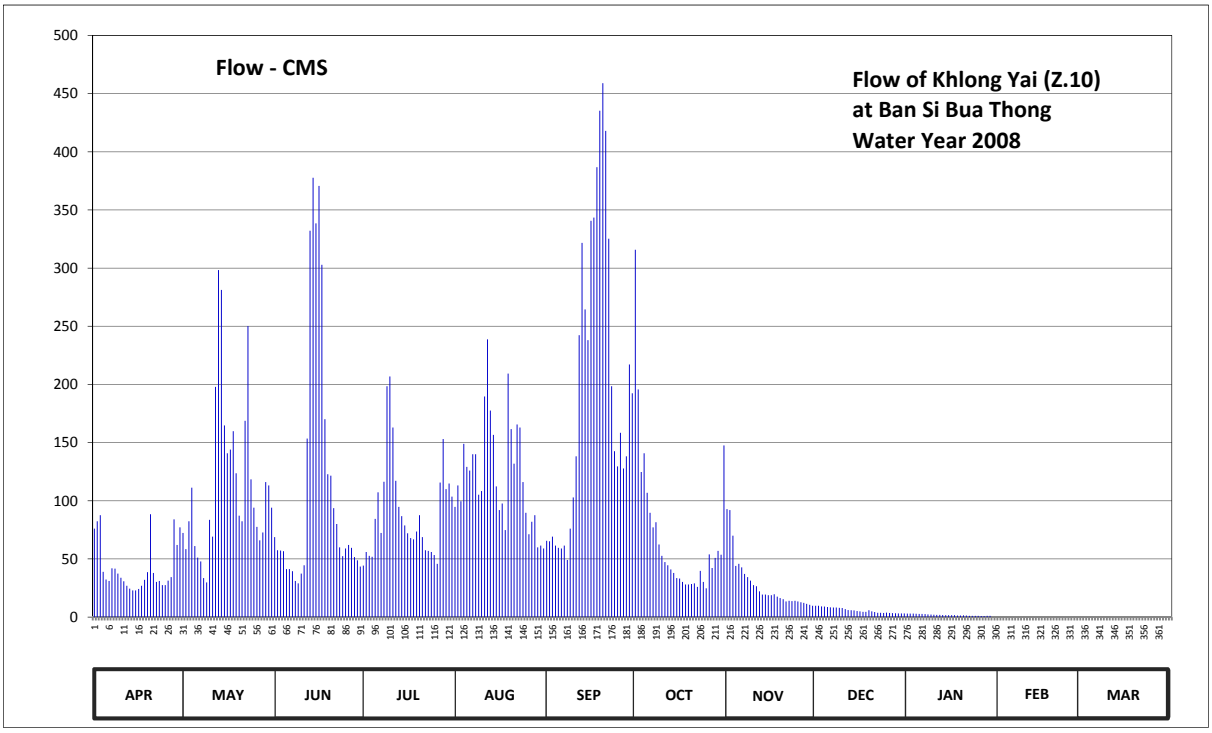
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.15	6.06	5.97	5.21	6.62	5.89	10.82	6.57	3.94	3.50	4.17	6.16	
2	6.31	5.68	5.65	5.60	7.08	5.88	8.85	6.55	3.94	3.50	4.26	6.24	
3	6.44	6.31	5.64	5.49	6.74	5.98	7.37	6.00	3.91	3.50	4.31	6.33	
4	5.03	7.03	5.62	5.46	7.91	5.78	7.73	5.20	3.90	3.49	4.33	6.54	
5	4.81	5.77	5.11	6.36	7.47	5.72	6.92	5.26	3.88	3.48	4.49	5.90	
6	4.77	5.44	5.11	6.93	7.40	5.70	6.49	5.16	3.86	3.48	4.91	5.12	
7	5.13	5.33	5.05	6.06	7.71	5.78	6.18	4.97	3.85	3.46	5.36	4.81	
8	5.12	4.85	4.77	7.16	7.71	5.37	6.29	4.88	3.85	3.43	5.71	4.73	
9	4.98	4.73	4.70	8.90	6.88	6.15	5.81	4.78	3.83	3.42	6.01	4.70	
10	4.86	6.34	4.98	9.04	6.96	6.82	5.49	4.65	3.82	3.40	6.10	4.62	
11	4.76	5.98	5.22	8.22	8.74	7.67	5.31	4.62	3.76	3.39	6.10	4.58	
12	4.63	8.89	8.01	7.18	9.57	9.63	5.22	4.47	3.70	3.38	6.09	4.53	
13	4.55	10.55	11.06	6.62	8.52	10.91	5.10	4.38	3.69	3.36	5.99	4.59	
14	4.50	10.28	11.71	6.42	8.08	10.00	5.00	4.38	3.68	3.33	5.95	5.32	
15	4.50	8.26	11.15	6.22	7.06	9.56	4.85	4.36	3.65	3.32	5.95	5.73	
16	4.54	7.73	11.61	6.05	6.55	11.18	4.84	4.36	3.63	3.33	5.95	5.93	
17	4.63	7.80	10.62	5.95	6.69	11.22	4.74	4.39	3.60	3.33	5.95	5.93	
18	4.80	8.15	8.38	5.92	6.12	11.84	4.67	4.32	3.60	3.26	5.95	6.06	
19	5.02	7.34	7.32	6.09	9.08	12.49	4.67	4.27	3.69	3.26	5.90	7.24	
20	6.46	6.43	7.29	6.44	8.19	12.80	4.68	4.22	3.63	3.30	5.94	6.45	
21	5.00	6.31	6.59	5.97	7.53	12.26	4.70	4.12	3.59	3.27	6.11	5.29	
22	4.74	8.35	6.25	5.65	8.28	10.96	4.60	4.15	3.55	3.22	6.19	5.47	
23	4.77	9.76	5.73	5.63	8.22	8.90	5.06	4.14	3.55	3.22	6.19	6.35	
24	4.65	7.21	5.48	5.60	7.15	7.77	4.74	4.15	3.54	3.22	6.19	5.20	
25	4.65	6.60	5.70	5.51	6.49	7.48	4.56	4.12	3.56	3.21	6.19	4.97	
26	4.78	6.19	5.80	5.26	6.03	8.12	5.53	4.09	3.54	3.20	6.18	4.76	
27	4.88	5.90	5.72	7.14	6.30	7.44	5.14	4.06	3.53	3.20	6.15	4.69	
28	6.35	6.07	5.45	8.00	6.44	7.67	5.43	4.02	3.52	3.21	6.13	4.64	
29	5.80	7.15	5.36	7.00	5.73	9.21	5.63	3.98	3.51	3.21		4.74	
30	6.18	7.08	5.18	7.12	5.78	8.79	5.52	3.94	3.51	3.44		4.78	
31		6.60		6.84	5.70		7.88		3.51	3.94		4.82	
Mean	5.13	6.97	6.74	6.49	7.25	8.50	5.80	4.62	3.69	3.36	5.67	5.39	
Max	6.46	10.55	11.71	9.04	9.57	12.80	10.82	6.57	3.94	3.94	6.19	7.24	12.80
Min	4.50	4.73	4.70	5.21	5.70	5.37	4.56	3.94	3.51	3.20	4.17	4.53	3.20

Annual Max Momentary Gage Height 12.82 m. (MSL.) , at 06.00 Hours, on Sep 20, 2008

Zero Gage at Bottom Elevation 1.90 m. (MSL.) , River Bed 2.01 m. (MSL.)

Left Bank Elevation 15.93 m. (MSL.) ,

Right Bank Elevation 15.93 m. (MSL.) , Drainage Are 779 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	76.00	72.40	68.80	44.30	94.80	65.60	315.80	92.80	9.80	3.00	0.00	0.00		
2	82.40	58.40	57.50	56.00	113.20	65.20	195.75	92.00	9.80	3.00	0.00	0.00		
3	87.60	82.40	57.20	52.70	99.60	69.20	124.80	70.00	9.20	3.00	0.00	0.00		
4	38.90	111.20	56.60	51.80	148.95	61.40	140.85	44.00	9.00	2.90	0.00	0.00		
5	32.30	61.10	41.30	84.40	129.15	59.60	106.80	45.80	8.70	2.80	0.00	0.00		
6	31.10	51.20	41.30	107.20	126.00	59.00	89.60	42.80	8.40	2.80	0.00	0.00		
7	41.90	47.90	39.50	72.40	139.95	61.40	77.20	37.10	8.25	2.60	0.00	0.00		
8	41.60	33.50	31.10	116.40	139.95	49.10	81.60	34.40	8.25	2.30	0.00	0.00		
9	37.40	29.90	29.00	198.50	105.20	76.00	62.40	31.40	7.95	2.20	0.00	0.00		
10	33.80	83.60	37.40	206.90	108.40	102.80	52.70	27.50	7.80	2.00	0.00	0.00		
11	30.80	69.20	44.60	162.90	189.70	138.15	47.30	26.60	6.90	1.95	0.00	0.00		
12	26.90	197.95	153.45	117.20	238.70	242.30	44.60	22.10	6.00	1.90	0.00	0.00		
13	24.50	298.25	332.20	94.80	177.60	321.70	41.00	19.40	5.85	1.80	0.00	0.00		
14	23.00	281.30	377.70	86.80	156.60	264.50	38.00	19.40	5.70	1.65	0.00	0.00		
15	23.00	164.70	338.50	78.80	112.40	238.10	33.50	18.80	5.25	1.60	0.00	0.00		
16	24.20	140.85	370.70	72.00	92.00	340.60	33.20	18.80	4.95	1.65	0.00	0.00		
17	26.90	144.00	302.80	68.00	97.60	343.40	30.20	19.70	4.50	1.65	0.00	0.00		
18	32.00	159.75	170.10	66.80	74.80	386.80	28.10	17.60	4.50	1.30	0.00	0.00		
19	38.60	123.60	122.80	73.60	209.30	435.25	28.10	16.40	5.85	1.30	0.00	0.00		
20	88.40	87.20	121.60	87.60	161.55	459.00	28.40	15.40	4.95	1.50	0.00	0.00		
21	38.00	82.40	93.60	68.80	131.85	418.00	29.00	13.40	4.35	1.35	0.00	0.00		
22	30.20	168.75	80.00	57.50	165.60	325.20	26.00	14.00	3.75	1.10	0.00	0.00		
23	31.10	250.10	59.90	56.90	162.90	198.50	39.80	13.80	3.75	1.10	0.00	0.00		
24	27.50	118.40	52.40	56.00	116.00	142.65	30.20	14.00	3.60	1.10	0.00	0.00		
25	27.50	94.00	59.00	53.30	89.60	129.60	24.80	13.40	3.90	1.05	0.00	0.00		
26	31.40	77.60	62.00	45.80	71.20	158.40	53.90	12.80	3.60	1.00	0.00	0.00		
27	34.40	66.00	59.60	115.60	82.00	127.80	42.20	12.20	3.45	1.00	0.00	0.00		
28	84.00	72.80	51.50	153.00	87.60	138.15	50.90	11.40	3.30	1.05	0.00	0.00		
29	62.00	116.00	48.80	110.00	59.90	217.10	56.90	10.60	3.15	1.05		0.00		
30	77.20	113.20	43.40	114.80	61.40	192.45	53.60	9.80	3.15	0.00		0.00		
31		94.00		103.60	59.00		147.60		3.15	0.00		0.00		
Total	1284.60	3551.65	3404.35	2834.40	3802.50	5886.95	2154.80	837.40	180.75	52.70	0.00	0.00	23990.10	CMSDAY
Mean	42.82	114.57	113.48	91.43	122.66	196.23	69.51	27.91	5.83	1.70	0.00	0.00	65.73	CMS
Max	88.40	298.25	377.70	206.90	238.70	459.00	315.80	92.80	9.80	3.00	0.00	0.00	459.00	CMS
Min	23.00	29.90	29.00	44.30	59.00	49.10	24.80	9.80	3.15	0.00	0.00	0.00	0.00	CMS
Runoff	110.99	306.86	294.14	244.89	328.54	508.63	186.17	72.35	15.62	4.55	0.00	0.00	2072.74	MCM

Momentary Peak 460.60 CMS, at 12.82 m. (MSL.), at 06.00 Hours, on Sep 20, 2008

Runoff Yield 84.37 Liters/Second/Square KM. Momentary Peak Yield 591.27 Liters/Second/Square KM.

WATER YEAR : 2008

EAST COAST - GULF BASIN

Khlong Prasae at Ban Khao Chik , Rayong (Z.11)

Lat 12 - 51 - 20 N Long 101 - 37 - 09 E

Location : on left bank near the Meteorological Station.

Ban Khao Chik **Amphoe** Klaeng **Changwat** Rayong

Drainge 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 mean of 24 readings
Period of Available Gage Records	1965 - 1974 , 1989 to date
Rating Operation	
Period of Rating	1989 to date
Rated by Float	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow
General Description	Records fair. Flow effectedn by the concrete weir about 7 kilometers downstream and 5 kilometers above gage site. Stage-discharge relation defined by 26 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

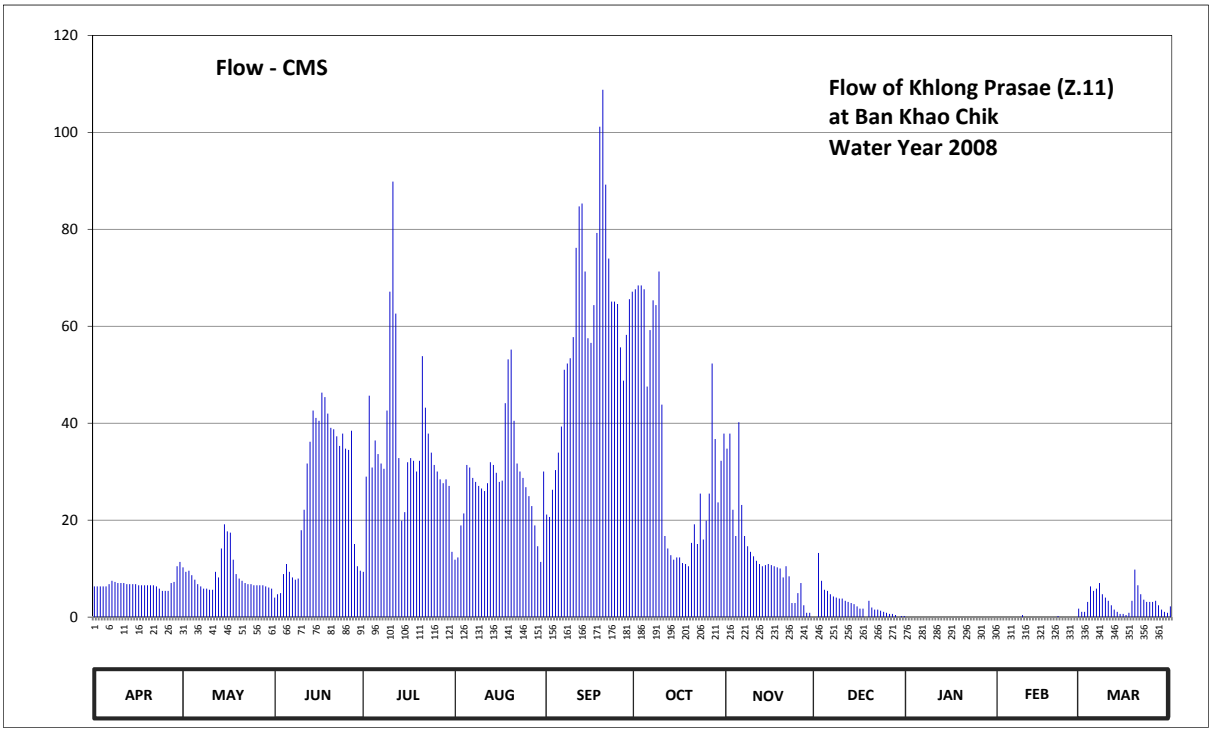
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.68	4.85	4.58	4.81	4.92	5.31	7.04	5.82	4.00	4.24	4.39	4.45	
2	4.68	4.81	4.61	5.61	4.94	5.29	7.07	5.93	4.98	4.27	4.38	4.45	
3	4.68	4.82	4.62	6.19	5.22	5.51	7.07	5.35	4.73	4.35	4.38	4.54	
4	4.68	4.78	4.79	5.68	5.32	5.66	7.04	5.13	4.65	4.37	4.37	4.68	
5	4.68	4.74	4.88	5.88	5.70	5.79	6.25	6.01	4.64	4.37	4.34	4.64	
6	4.70	4.70	4.81	5.78	5.68	5.98	6.70	5.39	4.61	4.37	4.34	4.66	
7	4.73	4.68	4.76	5.71	5.60	6.36	6.95	5.13	4.59	4.37	4.34	4.71	
8	4.72	4.66	4.74	5.67	5.57	6.40	6.91	5.04	4.58	4.37	4.35	4.61	
9	4.71	4.66	4.75	6.09	5.54	6.45	7.18	4.99	4.57	4.37	4.42	4.58	
10	4.71	4.65	5.18	7.02	5.52	6.64	6.13	4.95	4.57	4.36	4.38	4.55	
11	4.71	4.65	5.35	7.83	5.50	7.36	5.13	4.91	4.55	4.36	4.39	4.51	
12	4.70	4.81	5.71	6.84	5.56	7.66	5.02	4.88	4.54	4.37	4.40	4.47	
13	4.70	4.76	5.87	5.75	5.72	7.68	4.96	4.86	4.53	4.36	4.40	4.45	
14	4.70	5.02	6.09	5.26	5.70	7.18	4.92	4.87	4.52	4.34	4.40	4.43	
15	4.70	5.23	6.04	5.33	5.64	6.63	4.94	4.88	4.50	4.35	4.40	4.43	
16	4.69	5.17	6.02	5.72	5.57	6.59	4.94	4.87	4.48	4.36	4.40	4.42	
17	4.69	5.16	6.21	5.75	5.58	6.91	4.89	4.86	4.48	4.37	4.40	4.44	
18	4.69	4.92	6.18	5.73	6.14	7.47	4.88	4.85	4.33	4.38	4.40	4.55	
19	4.69	4.79	6.07	5.65	6.44	8.19	4.86	4.84	4.55	4.37	4.40	4.83	
20	4.69	4.75	5.97	5.73	6.53	8.42	5.07	4.76	4.49	4.37	4.40	4.69	
21	4.69	4.73	5.96	6.47	6.02	7.81	5.23	4.86	4.47	4.38	4.41	4.61	
22	4.68	4.71	5.91	6.11	5.71	7.28	5.06	4.77	4.47	4.38	4.40	4.56	
23	4.66	4.70	5.84	5.93	5.65	6.94	5.48	4.53	4.46	4.38	4.38	4.54	
24	4.64	4.70	5.93	5.79	5.60	6.94	5.10	4.53	4.45	4.38	4.39	4.54	
25	4.64	4.69	5.82	5.70	5.53	6.92	5.26	4.62	4.44	4.38	4.39	4.54	
26	4.64	4.69	5.81	5.65	5.46	6.55	5.48	4.71	4.43	4.38	4.39	4.55	
27	4.71	4.69	5.95	5.59	5.38	6.29	6.40	4.51	4.43	4.38	4.40	4.51	
28	4.72	4.69	5.06	5.56	5.22	6.66	5.89	4.44	4.42	4.39	4.48	4.47	
29	4.86	4.68	4.86	5.59	5.04	6.96	5.41	4.44	4.40	4.37		4.45	
30	4.90	4.67	4.82	5.54	4.90	7.02	5.73	4.38	4.41	4.37		4.44	
31		4.66		4.99	5.65		5.93		4.41	4.38		4.50	
Mean	4.70	4.78	5.44	5.84	5.57	6.76	5.77	4.94	4.51	4.36	4.39	4.54	
Max	4.90	5.23	6.21	7.83	6.53	8.42	7.18	6.01	4.98	4.39	4.48	4.83	8.42
Min	4.64	4.65	4.58	4.81	4.90	5.29	4.86	4.38	4.00	4.24	4.34	4.42	4.00

Annual Max Momentary Gage Height 8.52 m. (MSL.) , at 06.00 Hours, on Sep 20, 2008

Zero Gage at Bottom Elevation 2.63 m. (MSL.) , River Bed 3.56 m. (MSL.)

Left Bank Elevation 10.81 m. (MSL.) ,

Right Bank Elevation 10.73 m. (MSL.) , Drainage Are 1,236 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.34	10.25	4.04	9.33	11.86	21.15	67.64	34.76	0.00	0.00	0.00	1.10		
2	6.34	9.33	4.73	28.97	12.32	20.65	68.42	37.87	13.24	0.00	0.00	1.10		
3	6.34	9.56	4.96	45.69	18.90	26.27	68.42	22.15	7.49	0.00	0.00	3.12		
4	6.34	8.64	8.87	30.86	21.40	30.32	67.64	16.72	5.65	0.00	0.00	6.34		
5	6.34	7.72	10.94	36.44	31.40	33.92	47.55	40.20	5.42	0.00	0.00	5.42		
6	6.80	6.80	9.33	33.64	30.86	39.32	59.20	23.15	4.73	0.00	0.00	5.88		
7	7.49	6.34	8.18	31.68	28.70	51.02	65.35	16.72	4.27	0.00	0.00	7.03		
8	7.26	5.88	7.72	30.59	27.89	52.30	64.35	14.62	4.04	0.00	0.00	4.73		
9	7.03	5.88	7.95	42.60	27.08	53.40	71.28	13.47	3.81	0.00	0.44	4.04		
10	7.03	5.65	17.92	67.12	26.54	57.76	43.83	12.55	3.81	0.00	0.00	3.35		
11	7.03	5.65	22.15	89.83	26.00	76.18	16.72	11.63	3.35	0.00	0.00	2.43		
12	6.80	9.33	31.68	62.60	27.62	84.74	14.16	10.94	3.12	0.00	0.00	1.54		
13	6.80	8.18	36.16	32.80	31.96	85.32	12.78	10.48	2.89	0.00	0.00	1.10		
14	6.80	14.16	42.60	19.90	31.40	71.28	11.86	10.71	2.66	0.00	0.00	0.66		
15	6.80	19.15	41.10	21.65	29.78	57.52	12.32	10.94	2.20	0.00	0.00	0.66		
16	6.57	17.68	40.50	31.96	27.89	56.57	12.32	10.71	1.76	0.00	0.00	0.44		
17	6.57	17.44	46.31	32.80	28.16	64.35	11.17	10.48	1.76	0.00	0.00	0.88		
18	6.57	11.86	45.38	32.24	44.14	79.26	10.94	10.25	0.00	0.00	0.00	3.35		
19	6.57	8.87	42.00	30.05	53.18	101.18	10.48	10.02	3.35	0.00	0.00	9.79		
20	6.57	7.95	39.03	32.24	55.19	108.78	15.31	8.18	1.98	0.00	0.00	6.57		
21	6.57	7.49	38.74	53.84	40.50	89.21	19.15	10.48	1.54	0.00	0.22	4.73		
22	6.34	7.03	37.29	43.21	31.68	73.96	15.08	8.41	1.54	0.00	0.00	3.58		
23	5.88	6.80	35.32	37.87	30.05	65.10	25.48	2.89	1.32	0.00	0.00	3.12		
24	5.42	6.80	37.87	33.92	28.70	65.10	16.00	2.89	1.10	0.00	0.00	3.12		
25	5.42	6.57	34.76	31.40	26.81	64.60	19.90	4.96	0.88	0.00	0.00	3.12		
26	5.42	6.57	34.48	30.05	24.96	55.65	25.48	7.03	0.66	0.00	0.00	3.35		
27	7.03	6.57	38.45	28.43	22.90	48.79	52.30	2.43	0.66	0.00	0.00	2.43		
28	7.26	6.57	15.08	27.62	18.90	58.24	36.72	0.88	0.44	0.00	1.76	1.54		
29	10.48	6.34	10.48	28.43	14.62	65.60	23.66	0.88	0.00	0.00		1.10		
30	11.40	6.11	9.56	27.08	11.40	67.12	32.24	0.00	0.22	0.00		0.88		
31		5.88		13.47	30.05		37.87		0.22	0.00		2.20		
Total	205.61	269.05	763.58	1098.31	872.84	1824.66	1055.62	377.40	84.11	0.00	2.42	98.70	6652.30	CMSDAY
Mean	6.85	8.68	25.45	35.43	28.16	60.82	34.05	12.58	2.71	0.00	0.09	3.18	18.23	CMS
Max	11.40	19.15	46.31	89.83	55.19	108.78	71.28	40.20	13.24	0.00	1.76	9.79	108.78	CMS
Min	5.42	5.65	4.04	9.33	11.40	20.65	10.48	0.00	0.00	0.00	0.00	0.44	0.00	CMS
Runoff	17.76	23.25	65.97	94.89	75.41	157.65	91.21	32.61	7.27	0.00	0.21	8.53	574.76	MCM

Momentary Peak 112.18 CMS, at 8.52 m. (MSL.), at 06.00 Hours, on Sep 20, 2008

Runoff Yield 14.75 Liters/Second/Square KM. Momentary Peak Yield 90.76 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	647 sq.km.
Type of Gage	Staff gage.
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1968 to date
Rating Operation	
Period of Rating	1969 to date
Rated by Float	-
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 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

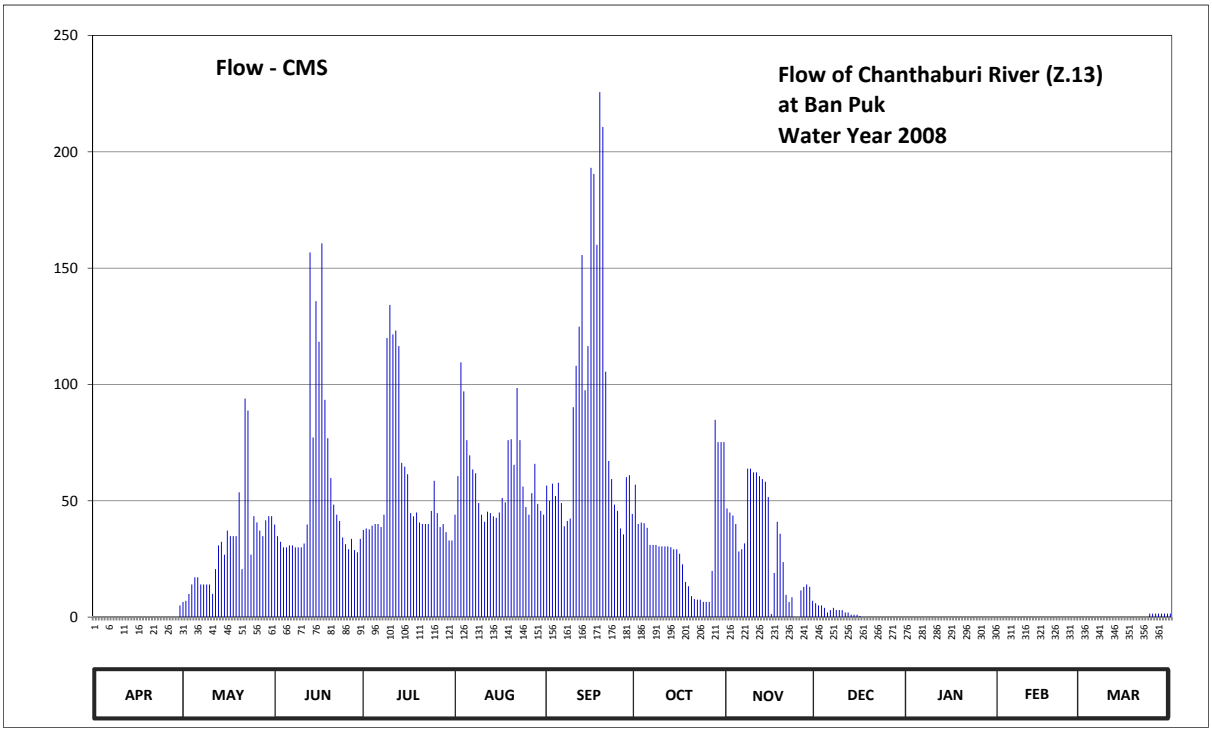
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.60	8.73	9.22	7.92	8.12	8.46	8.47	8.20	8.72	8.48	8.48	8.40	
2	7.60	8.74	9.16	7.94	8.56	8.30	8.00	8.15	8.70	8.48	8.48	8.55	
3	7.60	8.80	9.13	7.93	9.66	8.48	8.02	8.11	8.70	8.54	8.48	8.55	
4	7.60	8.88	9.10	7.98	9.41	8.35	8.01	8.00	8.68	8.54	8.48	8.55	
5	7.58	8.93	9.10	8.00	8.94	8.49	7.95	7.63	8.64	8.54	8.48	8.55	
6	7.58	8.93	9.11	8.00	8.78	8.27	7.72	7.66	8.66	8.52	8.46	8.55	
7	7.58	8.88	9.11	7.96	8.63	7.97	7.72	7.74	8.68	8.52	8.46	8.55	
8	7.56	8.88	9.10	8.12	8.59	8.04	7.72	8.64	8.66	8.52	8.46	8.55	
9	7.55	8.88	9.10	9.87	8.27	8.07	7.70	8.64	8.66	8.50	8.46	8.55	
10	7.55	8.88	9.10	10.13	8.12	9.26	7.70	8.60	8.66	8.50	8.46	8.55	
11	7.53	8.80	9.12	9.90	8.03	9.63	7.70	8.60	8.64	8.50	8.46	8.55	
12	7.53	8.98	9.22	9.93	8.16	9.96	7.70	8.56	8.64	8.50	8.46	8.55	
13	7.51	9.11	10.54	9.80	8.14	10.52	7.69	8.53	8.62	8.50	8.46	8.55	
14	7.51	9.13	9.56	8.70	8.10	9.42	7.66	8.50	8.62	8.50	8.44	8.55	
15	7.53	9.06	10.16	8.66	8.08	9.80	7.66	8.34	8.62	8.50	8.44	8.55	
16	7.53	9.19	9.83	8.58	8.15	11.14	7.60	6.67	8.61	8.50	8.44	8.55	
17	7.52	9.16	10.61	8.14	8.33	11.10	7.46	7.34	8.59	8.50	8.43	8.55	
18	7.52	9.16	9.33	8.10	8.28	10.60	7.21	8.03	8.59	8.50	8.43	8.55	
19	7.51	9.16	8.96	8.15	8.94	11.63	7.15	7.87	8.57	8.50	8.43	8.60	
20	7.49	9.36	8.54	8.02	8.95	11.41	7.00	7.49	8.56	8.48	8.43	8.60	
21	7.49	8.98	8.25	8.00	8.68	9.58	6.95	7.02	8.56	8.48	8.42	8.60	
22	7.48	9.67	8.12	8.00	9.44	8.72	6.94	6.90	8.56	8.48	8.42	8.60	
23	7.48	9.64	8.04	8.00	8.94	8.53	6.94	6.98	8.55	8.48	8.40	8.60	
24	8.47	9.06	7.82	8.17	8.45	8.25	6.90	6.91	8.55	8.48	8.40	8.63	
25	8.46	9.26	7.73	8.51	8.22	8.17	6.90	7.15	8.54	8.48	8.40	8.63	
26	8.46	9.23	7.66	8.14	8.12	7.94	6.90	8.83	8.54	8.48	8.39	8.63	
27	8.49	9.19	7.80	7.96	8.38	7.86	7.37	8.86	8.53	8.48	8.39	8.63	
28	8.55	9.16	7.65	8.00	8.69	8.55	9.14	8.88	8.50	8.48	8.39	8.63	
29	8.60	9.24	7.62	7.89	8.26	8.57	8.92	8.86	8.50	8.48		8.63	
30	8.70	9.26	7.80	7.78	8.17	8.13	8.92	8.74	8.48	8.48		8.63	
31		9.26		7.78	8.12		8.92		8.48	8.48		8.63	
Mean	7.77	9.08	8.85	8.39	8.51	9.11	7.70	8.01	8.60	8.50	8.44	8.57	
Max	8.70	9.67	10.61	10.13	9.66	11.63	9.14	8.88	8.72	8.54	8.48	8.63	11.63
Min	7.48	8.73	7.62	7.78	8.03	7.86	6.90	6.67	8.48	8.48	8.39	8.40	6.67

Annual Max Momentary Gage Height 11.96 m. (MSL.) , at 18.00 Hours, on Sep 19, 2008

Zero Gage at Bottom Elevation 6.30 m. (MSL.) , River Bed 5.41 m. (MSL.)

Left Bank Elevation 14.83 m. (MSL.) ,

Right Bank Elevation 14.84 m. (MSL.) , Drainage Are 647 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	6.50	39.80	37.44	44.00	56.51	56.92	46.67	6.00	0.00	0.00	0.00		
2	0.00	7.00	34.80	38.08	60.59	50.00	40.00	45.00	5.00	0.00	0.00	0.00		
3	0.00	10.00	32.40	37.76	109.50	57.33	40.67	43.67	5.00	0.00	0.00	0.00		
4	0.00	14.00	30.00	39.36	97.00	52.04	40.33	40.00	4.00	0.00	0.00	0.00		
5	0.00	17.10	30.00	40.00	76.06	57.74	38.40	28.16	2.00	0.00	0.00	0.00		
6	0.00	17.10	30.80	40.00	69.54	49.00	31.04	29.12	3.00	0.00	0.00	0.00		
7	0.00	14.00	30.80	38.72	63.44	39.04	31.04	31.68	4.00	0.00	0.00	0.00		
8	0.00	14.00	30.00	44.00	61.81	41.33	31.04	63.84	3.00	0.00	0.00	0.00		
9	0.00	14.00	30.00	120.00	49.00	42.33	30.40	63.84	3.00	0.00	0.00	0.00		
10	0.00	14.00	30.00	134.15	44.00	90.20	30.40	62.21	3.00	0.00	0.00	0.00		
11	0.00	10.00	31.60	121.50	41.00	108.00	30.40	62.21	2.00	0.00	0.00	0.00		
12	0.00	20.60	39.80	123.15	45.33	124.80	30.40	60.59	2.00	0.00	0.00	0.00		
13	0.00	30.80	156.70	116.50	44.67	155.60	30.08	59.36	1.00	0.00	0.00	0.00		
14	0.00	32.40	77.20	66.29	43.33	97.50	29.12	58.14	1.00	0.00	0.00	0.00		
15	0.00	26.80	135.80	64.66	42.67	116.50	29.12	51.63	1.00	0.00	0.00	0.00		
16	0.00	37.20	118.35	61.40	45.00	193.10	27.20	1.40	0.50	0.00	0.00	0.00		
17	0.00	34.80	160.60	44.67	51.22	190.50	22.72	19.00	0.00	0.00	0.00	0.00		
18	0.00	34.80	93.35	43.33	49.33	160.00	15.10	41.00	0.00	0.00	0.00	0.00		
19	0.00	34.80	76.87	45.00	76.06	225.60	13.30	35.84	0.00	0.00	0.00	0.00		
20	0.00	53.60	59.77	40.67	76.46	210.65	9.00	23.68	0.00	0.00	0.00	0.00		
21	0.00	20.60	48.33	40.00	65.47	105.50	7.75	9.56	0.00	0.00	0.00	0.00		
22	0.00	93.90	44.00	40.00	98.50	67.10	7.50	6.50	0.00	0.00	0.00	0.00		
23	0.00	88.80	41.33	40.00	76.06	59.36	7.50	8.50	0.00	0.00	0.00	0.00		
24	0.00	26.80	34.24	45.67	56.11	48.33	6.50	0.00	0.00	0.00	0.00	1.50		
25	0.00	43.40	31.36	58.55	47.33	45.67	6.50	0.00	0.00	0.00	0.00	1.50		
26	0.00	40.70	29.12	44.67	44.00	38.08	6.50	11.50	0.00	0.00	0.00	1.50		
27	0.00	37.20	33.60	38.72	53.26	35.52	19.90	13.00	0.00	0.00	0.00	1.50		
28	0.00	34.80	28.80	40.00	65.88	60.18	84.80	14.00	0.00	0.00	0.00	1.50		
29	0.00	41.60	27.84	36.48	48.67	60.99	75.24	13.00	0.00	0.00		1.50		
30	5.00	43.40	33.60	32.96	45.67	44.33	75.24	7.00	0.00	0.00		1.50		
31		43.40		32.96	44.00		75.24		0.00	0.00		1.50		
Total	5.00	958.10	1620.86	1746.69	1834.96	2682.83	979.35	950.10	45.50	0.00	0.00	12.00	10835.39	CMSDAY
Mean	0.17	30.91	54.03	56.34	59.19	89.43	31.59	31.67	1.47	0.00	0.00	0.39	29.69	CMS
Max	5.00	93.90	160.60	134.15	109.50	225.60	84.80	63.84	6.00	0.00	0.00	1.50	225.60	CMS
Min	0.00	6.50	27.84	32.96	41.00	35.52	6.50	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.43	82.78	140.04	150.91	158.54	231.80	84.62	82.09	3.93	0.00	0.00	1.04	936.18	MCM

Momentary Peak 248.70 CMS, at 11.96 m. (MSL.), at 18.00 Hours, on Sep 19, 2008

Runoff Yield 45.88 Liters/Second/Square KM. Momentary Peak Yield 384.39 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	229 sq.km.
Type of Gage	Staff gage.
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	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings
Period of Available Gage Records	1968 to date
Rating Operation	
Period of Rating	1986 to date
Rated by Float	-
Rated by Current Meter	1986 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	Overbank flow starts at elevation +13.370 m.(MSL), records are channel flow only.
General Description	Records fair. Stage-discharge relation defined by 17 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

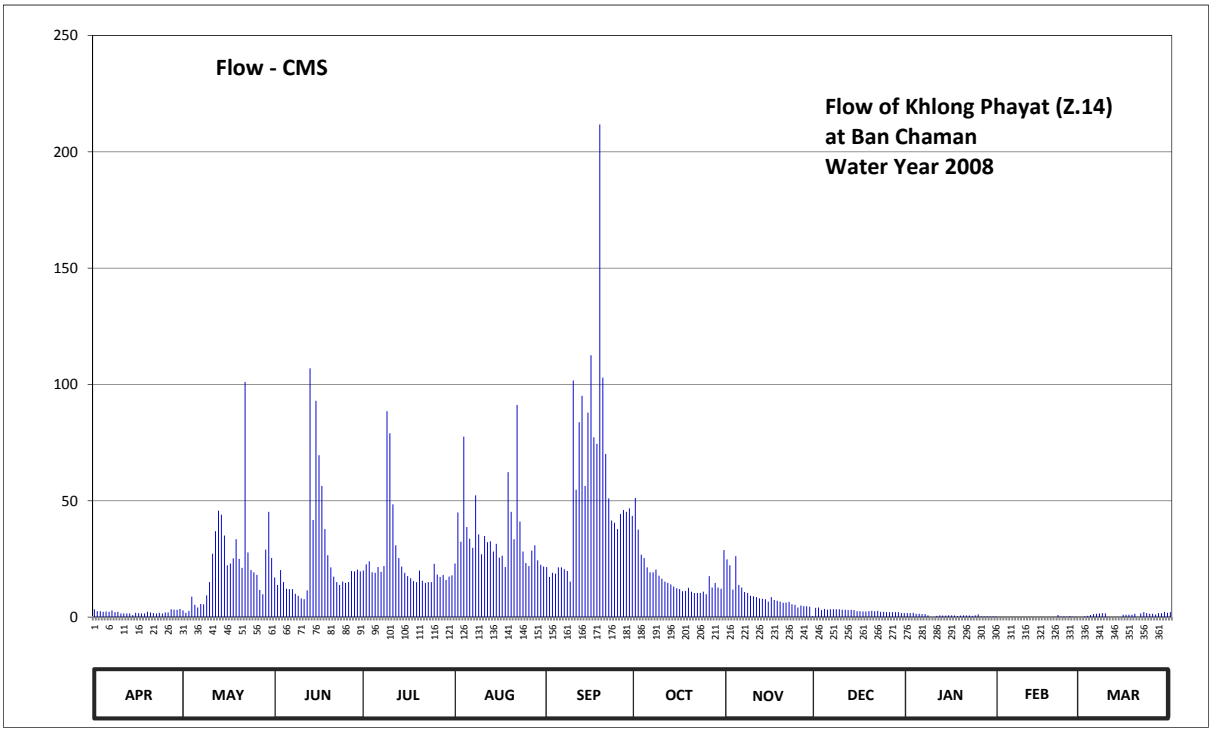
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.54	6.51	7.32	7.48	7.64	7.56	8.89	7.73	6.58	6.43	6.30	6.30	
2	6.49	6.44	7.14	7.62	8.64	7.33	8.33	7.60	6.59	6.43	6.30	6.32	
3	6.49	6.50	7.49	7.69	8.10	7.43	7.83	7.03	6.52	6.44	6.30	6.34	
4	6.47	6.86	7.21	7.44	9.86	7.41	7.76	7.80	6.55	6.41	6.29	6.37	
5	6.48	6.66	7.05	7.43	8.38	7.55	7.55	7.14	6.53	6.41	6.27	6.40	
6	6.47	6.59	7.04	7.56	8.16	7.55	7.44	7.08	6.54	6.40	6.26	6.41	
7	6.51	6.68	7.04	7.45	7.98	7.51	7.44	6.97	6.54	6.40	6.26	6.42	
8	6.46	6.67	6.93	7.58	8.93	7.47	7.50	6.95	6.54	6.36	6.26	6.43	
9	6.47	6.89	6.88	10.24	8.24	7.22	7.36	6.88	6.54	6.30	6.26	6.42	
10	6.42	7.21	6.82	9.91	7.84	10.68	7.29	6.87	6.53	6.30	6.27	6.27	
11	6.42	7.85	6.80	8.78	8.21	9.02	7.22	6.85	6.53	6.34	6.27	6.26	
12	6.42	8.30	7.01	8.03	8.09	10.08	7.19	6.82	6.52	6.36	6.27	6.26	
13	6.42	8.67	10.85	7.76	8.11	10.46	7.15	6.81	6.53	6.35	6.27	6.25	
14	6.37	8.60	8.51	7.57	7.90	9.08	7.10	6.80	6.52	6.35	6.27	6.30	
15	6.44	8.22	10.39	7.43	8.06	10.22	7.06	6.74	6.49	6.36	6.27	6.38	
16	6.43	7.60	9.57	7.35	7.77	11.03	7.04	6.85	6.49	6.36	6.27	6.38	
17	6.42	7.64	9.08	7.30	7.81	9.85	6.99	6.78	6.48	6.35	6.28	6.38	
18	6.42	7.75	8.34	7.23	7.56	9.75	7.00	6.76	6.48	6.33	6.28	6.38	
19	6.47	8.15	7.82	7.21	9.30	12.96	7.07	6.74	6.49	6.35	6.28	6.41	
20	6.45	7.74	7.55	7.48	8.65	10.72	6.98	6.71	6.50	6.36	6.28	6.30	
21	6.43	7.54	7.34	7.24	8.15	9.59	6.95	6.71	6.49	6.36	6.37	6.42	
22	6.42	10.66	7.21	7.19	10.33	8.88	6.95	6.73	6.50	6.35	6.31	6.46	
23	6.44	7.88	7.14	7.21	8.48	8.50	6.95	6.67	6.47	6.34	6.32	6.43	
24	6.42	7.49	7.22	7.21	7.90	8.46	6.98	6.66	6.47	6.36	6.31	6.41	
25	6.45	7.44	7.19	7.63	7.65	8.34	6.92	6.59	6.46	6.39	6.33	6.41	
26	6.45	7.38	7.21	7.39	7.58	8.61	7.35	6.64	6.46	6.32	6.31	6.39	
27	6.54	7.02	7.47	7.33	7.92	8.68	7.08	6.62	6.46	6.32	6.31	6.43	
28	6.53	6.92	7.46	7.38	8.03	8.65	7.19	6.62	6.46	6.32	6.30	6.43	
29	6.53	7.94	7.50	7.26	7.71	8.71	7.08	6.61	6.46	6.32		6.47	
30	6.55	8.65	7.46	7.34	7.61	8.58	7.05	6.33	6.43	6.32		6.44	
31		7.76		7.37	7.57		7.93		6.43	6.32		6.46	
Mean	6.46	7.56	7.67	7.65	8.20	8.93	7.31	6.87	6.50	6.36	6.29	6.38	
Max	6.55	10.66	10.85	10.24	10.33	12.96	8.89	7.80	6.59	6.44	6.37	6.47	12.96
Min	6.37	6.44	6.80	7.19	7.56	7.22	6.92	6.33	6.43	6.30	6.26	6.25	6.25

Annual Max Momentary Gage Height 13.52 m. (MSL.) , at 18.00 Hours, on Sep 19, 2008

Zero Gage at Bottom Elevation 5.40 m. (MSL.) , River Bed 5.81 m. (MSL.)

Left Bank Elevation 13.42 m. (MSL.) ,

Right Bank Elevation 13.36 m. (MSL.) , Drainage Are 229 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.34	2.86	17.06	20.02	23.06	21.54	51.25	24.80	3.98	1.72	0.00	0.00		
2	2.56	1.86	13.82	22.68	45.00	17.24	37.59	22.30	4.14	1.72	0.00	0.26		
3	2.56	2.70	20.21	24.01	32.40	19.07	26.80	11.84	3.02	1.86	0.00	0.52		
4	2.28	8.78	15.08	19.26	77.58	18.69	25.40	26.20	3.50	1.44	0.00	0.91		
5	2.42	5.32	12.20	19.07	38.74	21.35	21.35	13.82	3.18	1.44	0.00	1.30		
6	2.28	4.14	12.02	21.54	33.72	21.35	19.26	12.74	3.34	1.30	0.00	1.44		
7	2.86	5.66	12.02	19.45	29.80	20.59	19.26	10.76	3.34	1.30	0.00	1.58		
8	2.14	5.49	10.04	21.92	52.31	19.83	20.40	10.40	3.34	0.78	0.00	1.72		
9	2.28	9.32	9.14	88.50	35.52	15.26	17.78	9.14	3.34	0.00	0.00	1.58		
10	1.58	15.08	8.06	78.98	27.00	101.70	16.52	8.96	3.18	0.00	0.00	0.00		
11	1.58	27.20	7.70	48.50	34.83	54.74	15.26	8.60	3.18	0.52	0.00	0.00		
12	1.58	36.90	11.48	30.86	32.18	83.74	14.72	8.06	3.02	0.78	0.00	0.00		
13	1.58	45.75	106.95	25.40	32.62	95.10	14.00	7.88	3.18	0.65	0.00	0.00		
14	0.91	44.00	41.75	21.73	28.20	56.36	13.10	7.70	3.02	0.65	0.00	0.00		
15	1.86	35.06	93.00	19.07	31.52	87.90	12.38	6.68	2.56	0.78	0.00	1.04		
16	1.72	22.30	69.59	17.60	25.60	112.56	12.02	8.60	2.56	0.78	0.00	1.04		
17	1.58	23.06	56.36	16.70	26.40	77.30	11.12	7.36	2.42	0.65	0.00	1.04		
18	1.58	25.20	37.82	15.44	21.54	74.50	11.30	7.02	2.42	0.39	0.00	1.04		
19	2.28	33.50	26.60	15.08	62.30	211.70	12.56	6.68	2.56	0.65	0.00	1.44		
20	2.00	25.00	21.35	20.02	45.25	102.92	10.94	6.17	2.70	0.78	0.00	0.00		
21	1.72	21.16	17.42	15.62	33.50	70.13	10.40	6.17	2.56	0.78	0.91	1.58		
22	1.58	101.10	15.08	14.72	91.20	51.00	10.40	6.51	2.70	0.65	0.13	2.14		
23	1.86	27.80	13.82	15.08	41.04	41.50	10.40	5.49	2.28	0.52	0.26	1.72		
24	1.58	20.21	15.26	15.08	28.20	40.58	10.94	5.32	2.28	0.78	0.13	1.44		
25	2.00	19.26	14.72	22.87	23.25	37.82	9.86	4.14	2.14	1.17	0.39	1.44		
26	2.00	18.14	15.08	18.32	21.92	44.25	17.60	4.98	2.14	0.26	0.13	1.17		
27	3.34	11.66	19.83	17.24	28.60	46.00	12.74	4.64	2.14	0.26	0.13	1.72		
28	3.18	9.86	19.64	18.14	30.86	45.25	14.72	4.64	2.14	0.26	0.00	1.72		
29	3.18	29.00	20.40	15.98	24.40	46.75	12.74	4.47	2.14	0.26		2.28		
30	3.50	45.25	19.64	17.42	22.49	43.50	12.20	0.39	1.72	0.26		1.86		
31		25.40		17.96	21.73		28.80		1.72	0.26		2.14		
Total	64.91	708.02	773.14	754.26	1102.76	1700.22	533.81	272.46	85.94	23.65	2.08	34.12	6055.37	CMSDAY
Mean	2.16	22.84	25.77	24.33	35.57	56.67	17.22	9.08	2.77	0.76	0.07	1.10	16.59	CMS
Max	3.50	101.10	106.95	88.50	91.20	211.70	51.25	26.20	4.14	1.86	0.91	2.28	211.70	CMS
Min	0.91	1.86	7.70	14.72	21.54	15.26	9.86	0.39	1.72	0.00	0.00	0.00	0.00	CMS
Runoff	5.61	61.17	66.80	65.17	95.28	146.90	46.12	23.54	7.43	2.04	0.18	2.95	523.18	MCM

Momentary Peak 286.40 CMS, at 13.52 m. (MSL.), at 18.00 Hours, on Sep 19, 2008

Runoff Yield 72.45 Liters/Second/Square KM. Momentary Peak Yield 1250.66 Liters/Second/Square KM.

WATER YEAR : 2008

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** Khao Chamao **Changwat** Rayong

Drainge 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 mean of 5 readings
Period of Available Gage Records	1982 to date
Rating Operation	
Period of Rating	1983 to date
Rated by Float	-
Rated by Current Meter	1983 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Flow regulated by the concrete weir about 1.5 kilometers downstream from the gage site. Stage-discharge relation defined by 29 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

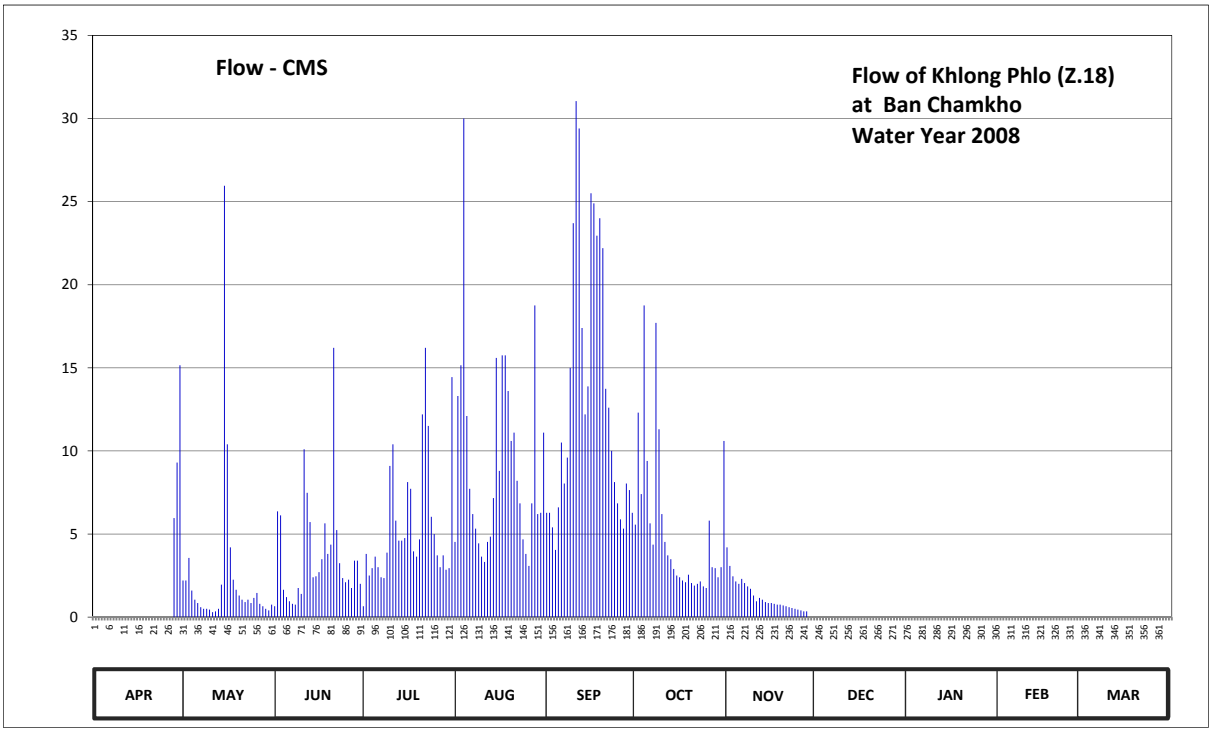
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.30	29.54	29.23	29.23	29.89	30.11	30.02	29.85	31.00	31.30	29.75	28.86	
2	28.29	29.54	30.12	29.80	30.87	30.11	30.77	29.71	31.37	31.30	29.72	28.92	
3	28.33	29.77	30.09	29.60	31.01	30.00	30.25	29.59	31.42	31.24	29.69	28.96	
4	28.28	29.42	29.43	29.69	32.00	29.83	31.25	29.53	31.42	31.23	29.65	28.98	
5	28.25	29.31	29.34	29.78	30.75	30.15	30.48	29.50	31.42	31.21	29.62	29.00	
6	28.23	29.27	29.29	29.70	30.29	30.59	30.03	29.56	31.42	31.19	29.58	29.01	
7	28.32	29.22	29.26	29.58	30.10	30.33	29.87	29.51	31.42	31.16	29.55	29.00	
8	28.36	29.20	29.25	29.57	29.99	30.50	31.18	29.47	31.42	30.92	29.52	28.99	
9	28.36	29.20	29.45	29.81	29.88	31.00	30.67	29.44	31.42	30.34	29.48	28.97	
10	28.30	29.19	29.38	30.45	29.78	31.58	30.10	29.36	31.36	30.33	29.43	28.96	
11	28.19	29.16	30.55	30.58	29.74	32.06	29.89	29.29	31.35	30.33	29.39	28.93	
12	28.18	29.17	30.26	30.05	29.89	31.96	29.79	29.33	31.34	30.33	29.42	28.91	
13	28.15	29.20	30.04	29.90	29.93	31.16	29.76	29.31	31.34	30.32	29.32	28.90	
14	28.15	29.49	29.58	29.90	30.22	30.76	29.68	29.28	31.34	30.30	29.25	28.87	
15	28.15	31.73	29.59	29.92	31.04	30.92	29.60	29.27	31.34	30.30	29.21	28.89	
16	28.18	30.58	29.64	30.34	30.42	31.70	29.58	29.27	31.34	30.29	29.17	28.86	
17	28.30	29.85	29.76	30.29	31.05	31.66	29.54	29.26	31.33	30.26	29.11	28.82	
18	28.23	29.55	30.03	29.82	31.05	31.53	29.52	29.25	31.33	30.22	29.06	28.82	
19	28.20	29.43	29.80	29.78	30.90	31.60	29.61	29.25	31.33	30.19	28.99	28.86	
20	28.17	29.36	29.87	29.91	30.60	31.48	29.51	29.24	31.32	30.14	29.03	28.90	
21	28.15	29.31	31.08	30.76	30.65	30.91	29.48	29.23	31.32	30.08	29.01	28.94	
22	28.15	29.28	29.98	31.08	30.35	30.80	29.50	29.22	31.31	30.04	29.02	28.95	
23	28.15	29.31	29.73	30.69	30.18	30.54	29.53	29.21	31.31	30.03	28.99	28.99	
24	28.15	29.27	29.57	30.08	29.91	30.34	29.47	29.20	31.31	29.99	28.91	29.00	
25	28.23	29.33	29.52	29.95	29.80	30.18	29.45	29.19	31.31	29.95	28.87	28.97	
26	28.28	29.39	29.55	29.79	29.71	30.06	30.05	29.18	31.31	29.92	28.87	28.80	
27	28.33	29.26	29.45	29.70	30.18	29.99	29.70	29.17	31.31	29.88	28.89	28.75	
28	30.07	29.23	29.75	29.79	31.25	30.33	29.69	29.17	31.31	29.86	28.72	28.79	
29	30.47	29.20	29.75	29.67	30.10	30.28	29.58	29.39	31.31	29.84		28.82	
30	31.01	29.18	29.50	29.69	30.11	30.11	29.70	29.90	31.31	29.82		28.75	
31		29.25		30.96	30.65		30.60		31.30	29.79		29.17	
Mean	28.46	29.46	29.73	30.00	30.40	30.75	29.93	29.37	31.34	30.39	29.26	28.91	
Max	31.01	31.73	31.08	31.08	32.00	32.06	31.25	29.90	31.42	31.30	29.75	29.17	32.06
Min	28.15	29.16	29.23	29.23	29.71	29.83	29.45	29.17	31.00	29.79	28.72	28.75	28.15

Annual Max Momentary Gage Height 32.22 m. (MSL.) , at 06.00 Hours, on Sep 11, 2008

Zero Gage at Bottom Elevation 28.15 m. (MSL.) , River Bed 28.37 m. (MSL.)

Left Bank Elevation 34.53 m. (MSL.) ,

Right Bank Elevation 32.93 m. (MSL.) , Drainage Are 201 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	2.20	0.65	0.65	4.52	6.28	5.56	4.20	0.00	0.00	0.00	0.00		
2	0.00	2.20	6.36	3.80	13.30	6.28	12.30	3.08	0.00	0.00	0.00	0.00		
3	0.00	3.56	6.12	2.50	15.15	5.40	7.40	2.45	0.00	0.00	0.00	0.00		
4	0.00	1.60	1.65	2.95	30.00	4.04	18.75	2.15	0.00	0.00	0.00	0.00		
5	0.00	1.05	1.20	3.64	12.10	6.60	9.40	2.00	0.00	0.00	0.00	0.00		
6	0.00	0.85	0.95	3.00	7.72	10.50	5.64	2.30	0.00	0.00	0.00	0.00		
7	0.00	0.60	0.80	2.40	6.20	8.04	4.36	2.05	0.00	0.00	0.00	0.00		
8	0.00	0.50	0.75	2.35	5.32	9.60	17.70	1.85	0.00	0.00	0.00	0.00		
9	0.00	0.50	1.75	3.88	4.44	15.00	11.30	1.70	0.00	0.00	0.00	0.00		
10	0.00	0.45	1.40	9.10	3.64	23.70	6.20	1.30	0.00	0.00	0.00	0.00		
11	0.00	0.30	10.10	10.40	3.32	31.05	4.52	0.95	0.00	0.00	0.00	0.00		
12	0.00	0.35	7.48	5.80	4.52	29.40	3.72	1.15	0.00	0.00	0.00	0.00		
13	0.00	0.50	5.72	4.60	4.84	17.40	3.48	1.05	0.00	0.00	0.00	0.00		
14	0.00	1.95	2.40	4.60	7.16	12.20	2.90	0.90	0.00	0.00	0.00	0.00		
15	0.00	25.95	2.45	4.76	15.60	13.88	2.50	0.85	0.00	0.00	0.00	0.00		
16	0.00	10.40	2.70	8.12	8.80	25.50	2.40	0.85	0.00	0.00	0.00	0.00		
17	0.00	4.20	3.48	7.72	15.75	24.90	2.20	0.80	0.00	0.00	0.00	0.00		
18	0.00	2.25	5.64	3.96	15.75	22.95	2.10	0.75	0.00	0.00	0.00	0.00		
19	0.00	1.65	3.80	3.64	13.60	24.00	2.55	0.75	0.00	0.00	0.00	0.00		
20	0.00	1.30	4.36	4.68	10.60	22.20	2.05	0.70	0.00	0.00	0.00	0.00		
21	0.00	1.05	16.20	12.20	11.10	13.74	1.90	0.65	0.00	0.00	0.00	0.00		
22	0.00	0.90	5.24	16.20	8.20	12.60	2.00	0.60	0.00	0.00	0.00	0.00		
23	0.00	1.05	3.24	11.50	6.84	10.00	2.15	0.55	0.00	0.00	0.00	0.00		
24	0.00	0.85	2.35	6.04	4.68	8.12	1.85	0.50	0.00	0.00	0.00	0.00		
25	0.00	1.15	2.10	5.00	3.80	6.84	1.75	0.45	0.00	0.00	0.00	0.00		
26	0.00	1.45	2.25	3.72	3.08	5.88	5.80	0.40	0.00	0.00	0.00	0.00		
27	0.00	0.80	1.75	3.00	6.84	5.32	3.00	0.35	0.00	0.00	0.00	0.00		
28	5.96	0.65	3.40	3.72	18.75	8.04	2.95	0.35	0.00	0.00	0.00	0.00		
29	9.30	0.50	3.40	2.85	6.20	7.64	2.40	0.00	0.00	0.00		0.00		
30	15.15	0.40	2.00	2.95	6.28	6.28	3.00	0.00	0.00	0.00		0.00		
31		0.75		14.44	11.10		10.60		0.00	0.00		0.00		
Total	30.41	71.91	111.69	174.17	289.20	403.38	164.43	35.68	0.00	0.00	0.00	0.00	1280.87	CMSDAY
Mean	1.01	2.32	3.72	5.62	9.33	13.45	5.30	1.19	0.00	0.00	0.00	0.00	3.51	CMS
Max	15.15	25.95	16.20	16.20	30.00	31.05	18.75	4.20	0.00	0.00	0.00	0.00	31.05	CMS
Min	0.00	0.30	0.65	0.65	3.08	4.04	1.75	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	2.63	6.21	9.65	15.05	24.99	34.85	14.21	3.08	0.00	0.00	0.00	0.00	110.67	MCM

Momentary Peak 33.90 CMS, at 32.22 m. (MSL.), at 06.00 Hours, on Sep 11, 2008

Runoff Yield 17.46 Liters/Second/Square KM. Momentary Peak Yield 168.66 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean 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 fair. Stage-discharge relation defined by 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

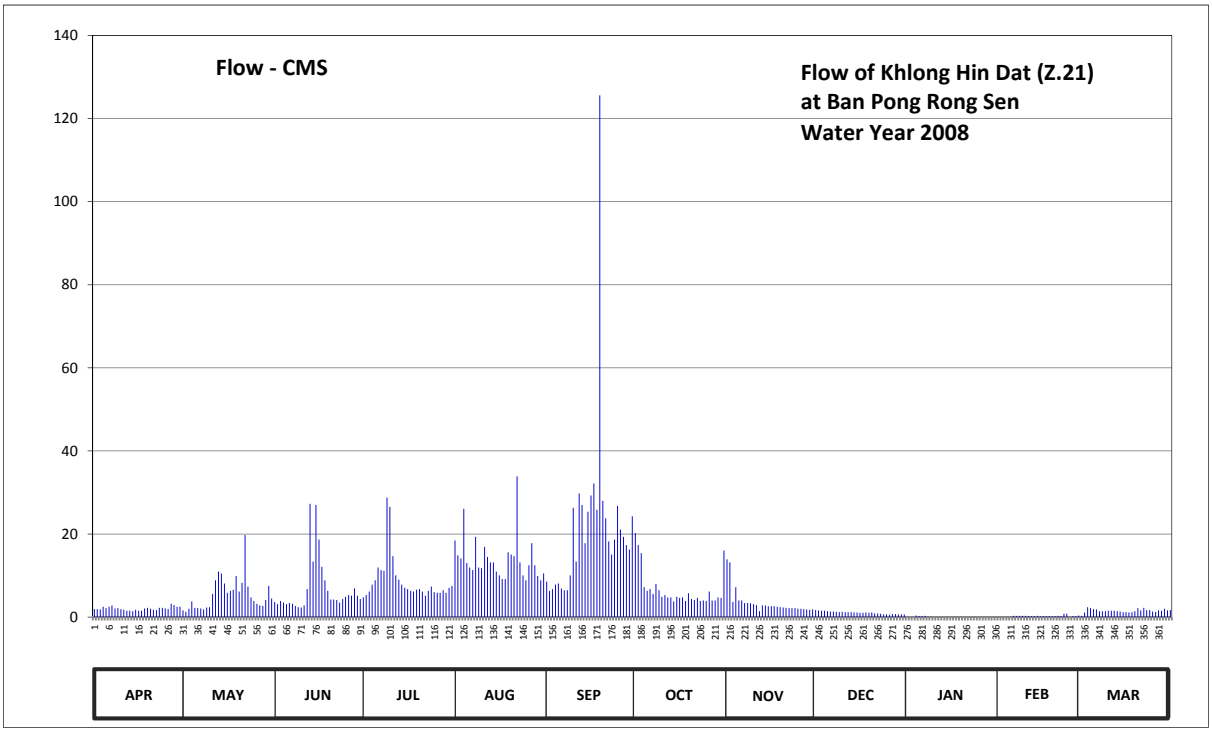
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.94	21.90	22.12	22.21	23.02	22.47	23.10	22.80	21.91	21.67	21.68	21.74	
2	21.94	21.86	22.07	22.25	22.85	22.32	22.97	22.76	21.90	21.64	21.68	21.84	
3	21.93	21.95	22.14	22.31	22.81	22.35	22.88	22.12	21.89	21.65	21.69	22.00	
4	22.01	22.13	22.11	22.42	23.36	22.42	22.38	22.38	21.89	21.75	21.67	21.97	
5	21.97	21.98	22.07	22.49	22.75	22.44	22.32	22.15	21.88	21.73	21.67	21.94	
6	22.01	21.97	22.10	22.69	22.69	22.36	22.35	22.15	21.87	21.73	21.74	21.93	
7	22.04	21.96	22.08	22.65	22.65	22.33	22.27	22.10	21.87	21.74	21.74	21.88	
8	21.96	21.93	22.03	22.64	23.06	22.33	22.43	22.10	21.86	21.71	21.74	21.88	
9	21.97	21.99	22.00	23.47	22.69	22.57	22.33	22.09	21.85	21.71	21.74	21.88	
10	21.94	22.00	21.99	23.38	22.68	23.37	22.22	22.07	21.86	21.69	21.74	21.89	
11	21.92	22.27	22.04	22.84	22.95	22.77	22.25	22.05	21.85	21.66	21.73	21.89	
12	21.89	22.49	22.35	22.57	22.83	23.51	22.21	21.88	21.85	21.63	21.73	21.89	
13	21.89	22.63	23.41	22.50	22.76	23.40	22.21	22.04	21.85	21.62	21.73	21.88	
14	21.88	22.60	22.77	22.42	22.76	22.99	22.13	22.04	21.84	21.62	21.74	21.87	
15	21.92	22.44	23.40	22.37	22.63	23.33	22.22	22.02	21.84	21.63	21.73	21.85	
16	21.89	22.29	23.03	22.35	22.57	23.49	22.20	22.02	21.83	21.64	21.73	21.85	
17	21.89	22.32	22.70	22.32	22.51	23.60	22.21	22.02	21.83	21.66	21.73	21.84	
18	21.96	22.34	22.49	22.31	22.51	23.35	22.14	22.01	21.84	21.66	21.73	21.85	
19	21.98	22.56	22.32	22.34	22.89	26.03	22.28	22.00	21.83	21.64	21.73	21.88	
20	21.95	22.31	22.17	22.35	22.86	23.44	22.18	21.99	21.84	21.64	21.73	21.97	
21	21.92	22.45	22.17	22.31	22.84	23.26	22.16	21.98	21.81	21.64	21.74	21.90	
22	21.91	23.08	22.16	22.24	23.66	23.01	22.20	21.97	21.81	21.66	21.73	21.98	
23	21.98	22.39	22.11	22.32	22.76	22.86	22.14	21.97	21.80	21.66	21.80	21.91	
24	21.98	22.21	22.18	22.39	22.57	23.03	22.15	21.97	21.78	21.66	21.80	21.91	
25	21.96	22.14	22.22	22.30	22.49	23.39	22.14	21.95	21.78	21.66	21.66	21.87	
26	21.94	22.08	22.25	22.29	22.72	23.14	22.31	21.95	21.77	21.66	21.73	21.86	
27	22.08	22.04	22.24	22.29	22.99	23.06	22.15	21.94	21.79	21.66	21.73	21.90	
28	22.05	22.03	22.36	22.33	22.72	22.97	22.15	21.93	21.79	21.66	21.75	21.89	
29	22.01	22.16	22.24	22.29	22.56	22.92	22.21	21.92	21.78	21.66		21.95	
30	22.01	22.40	22.18	22.37	22.49	23.28	22.20	21.93	21.78	21.66		21.90	
31		22.19		22.40	22.60		22.91		21.78	21.67		21.91	
Mean	21.96	22.23	22.32	22.46	22.78	23.06	22.32	22.08	21.83	21.67	21.73	21.89	
Max	22.08	23.08	23.41	23.47	23.66	26.03	23.10	22.80	21.91	21.75	21.80	22.00	26.03
Min	21.88	21.86	21.99	22.21	22.49	22.32	22.13	21.88	21.77	21.62	21.66	21.74	21.62

Annual Max Momentary Gage Height 28.00 m. (MSL.) , at 12.00 Hours, on Sep 19, 2008

Zero Gage at Bottom Elevation 21.20 m. (MSL.) , River Bed 20.93 m. (MSL.)

Left Bank Elevation 29.68 m. (MSL.) ,

Right Bank Elevation 29.67 m. (MSL.) , Drainage Are 78 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.92	1.60	3.64	4.74	18.44	8.55	20.20	13.90	1.68	0.00	0.00	0.32		
2	1.92	1.28	3.10	5.30	14.85	6.30	17.34	13.18	1.60	0.00	0.00	1.12		
3	1.84	2.00	3.88	6.15	14.09	6.75	15.42	3.64	1.52	0.00	0.00	2.40		
4	2.50	3.76	3.52	7.80	26.08	7.80	7.20	7.20	1.52	0.40	0.00	2.16		
5	2.16	2.24	3.10	8.85	13.00	8.10	6.30	4.00	1.44	0.24	0.00	1.92		
6	2.50	2.16	3.40	11.94	11.94	6.90	6.75	4.00	1.36	0.24	0.32	1.84		
7	2.80	2.08	3.20	11.30	11.30	6.45	5.58	3.40	1.36	0.32	0.32	1.44		
8	2.08	1.84	2.70	11.14	19.32	6.45	7.95	3.40	1.28	0.08	0.32	1.44		
9	2.16	2.32	2.40	28.75	11.94	10.05	6.45	3.30	1.20	0.08	0.32	1.44		
10	1.92	2.40	2.32	26.54	11.78	26.31	4.88	3.10	1.28	0.00	0.32	1.52		
11	1.76	5.58	2.80	14.66	16.90	13.36	5.30	2.90	1.20	0.00	0.24	1.52		
12	1.52	8.85	6.75	10.05	14.47	29.77	4.74	1.44	1.20	0.00	0.24	1.52		
13	1.52	10.98	27.25	9.00	13.18	27.00	4.74	2.80	1.20	0.00	0.24	1.44		
14	1.44	10.50	13.36	7.80	13.18	17.78	3.76	2.80	1.12	0.00	0.32	1.36		
15	1.76	8.10	27.00	7.05	10.98	25.39	4.88	2.60	1.12	0.00	0.24	1.20		
16	1.52	5.86	18.66	6.75	10.05	29.25	4.60	2.60	1.04	0.00	0.24	1.20		
17	1.52	6.30	12.10	6.30	9.15	32.20	4.74	2.60	1.04	0.00	0.24	1.12		
18	2.08	6.60	8.85	6.15	9.15	25.85	3.88	2.50	1.12	0.00	0.24	1.20		
19	2.24	9.90	6.30	6.60	15.61	125.56	5.72	2.40	1.04	0.00	0.24	1.44		
20	2.00	6.15	4.24	6.75	15.04	28.00	4.36	2.32	1.12	0.00	0.24	2.16		
21	1.76	8.25	4.24	6.15	14.66	23.78	4.12	2.24	0.88	0.00	0.32	1.60		
22	1.68	19.76	4.12	5.16	33.88	18.22	4.60	2.16	0.88	0.00	0.24	2.24		
23	2.24	7.35	3.52	6.30	13.18	15.04	3.88	2.16	0.80	0.00	0.80	1.68		
24	2.24	4.74	4.36	7.35	10.05	18.66	4.00	2.16	0.64	0.00	0.80	1.68		
25	2.08	3.88	4.88	6.00	8.85	26.77	3.88	2.00	0.64	0.00	0.00	1.36		
26	1.92	3.20	5.30	5.86	12.46	21.08	6.15	2.00	0.56	0.00	0.24	1.28		
27	3.20	2.80	5.16	5.86	17.78	19.32	4.00	1.92	0.72	0.00	0.24	1.60		
28	2.90	2.70	6.90	6.45	12.46	17.34	4.00	1.84	0.72	0.00	0.40	1.52		
29	2.50	4.12	5.16	5.86	9.90	16.24	4.74	1.76	0.64	0.00		2.00		
30	2.50	7.50	4.36	7.05	8.85	24.24	4.60	1.84	0.64	0.00		1.60		
31		4.48		7.50	10.50		16.02		0.64	0.00		1.68		
Total	62.18	169.28	206.57	273.16	433.02	648.51	204.78	104.16	33.20	1.36	7.12	48.00	2191.34	CMSDAY
Mean	2.07	5.46	6.89	8.81	13.97	21.62	6.61	3.47	1.07	0.04	0.25	1.55	6.00	CMS
Max	3.20	19.76	27.25	28.75	33.88	125.56	20.20	13.90	1.68	0.40	0.80	2.40	125.56	CMS
Min	1.44	1.28	2.32	4.74	8.85	6.30	3.76	1.44	0.56	0.00	0.00	0.32	0.00	CMS
Runoff	5.37	14.63	17.85	23.60	37.41	56.03	17.69	9.00	2.87	0.12	0.62	4.15	189.33	MCM

Momentary Peak 243.37 CMS, at 28.00 m. (MSL.), at 12.00 Hours, on Sep 19, 2008

Runoff Yield 76.97 Liters/Second/Square KM. Momentary Peak Yield 3120.13 Liters/Second/Square KM.

WATER YEAR : 2008

EAST COAST - GULF BASIN

Upper Khlong Tanot at Ban Khun Song , Chanthaburi (Z.28)

Lat 13 - 04 - 31 N Long 101 - 56 - 55 E

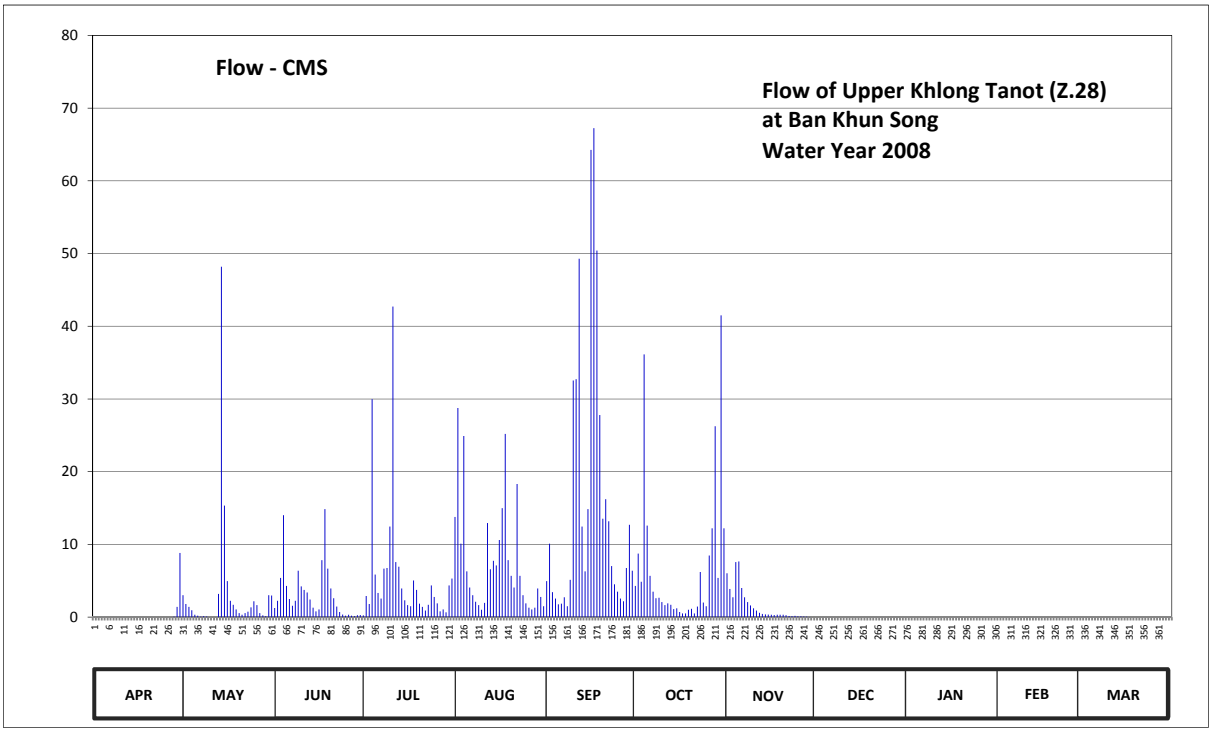
Location : on right bank near Wat Khun Song.

	Ban Khun Song	**Amphoe** Kaeng Hang Maeo	**Changwat** Chanthaburi
Drainge 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 mean of 24 readings		
Period of Available Gage Records	1986 to date		
Rating Operation			
Period of Rating	1986 to date		
Rated by Float	-		
Rated by Current Meter	1986 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined byn 23 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.38	33.87	33.55	33.31	35.04	34.15	34.07	34.27	33.13	33.57	33.54	33.14	
2	32.38	33.66	33.74	33.85	36.11	34.71	34.57	34.01	33.13	33.56	33.50	33.15	
3	32.38	33.58	34.20	33.66	34.71	33.94	34.14	33.82	33.14	33.54	33.49	33.17	
4	32.38	33.49	35.06	36.18	35.86	33.79	36.53	34.44	33.18	33.54	33.48	33.19	
5	32.38	33.34	34.07	34.25	34.30	33.65	34.94	34.45	33.20	33.53	33.47	33.18	
6	32.64	33.30	33.78	33.92	34.04	33.67	34.23	34.03	33.18	33.55	33.45	33.17	
7	33.03	33.23	33.61	33.79	33.87	33.82	33.95	33.82	33.16	33.60	33.44	33.16	
8	33.04	33.26	33.74	34.34	33.72	33.60	33.80	33.71	33.43	33.60	33.43	33.15	
9	33.07	33.24	34.31	34.35	33.63	34.17	33.81	33.62	33.63	33.60	33.41	33.15	
10	33.16	33.15	34.06	34.93	33.50	36.33	33.71	33.54	33.63	33.60	33.40	33.13	
11	33.13	33.15	33.99	36.88	33.69	36.34	33.63	33.48	33.58	33.60	33.38	33.13	
12	33.11	33.18	33.93	34.44	34.97	37.19	33.68	33.42	33.59	33.60	33.38	33.12	
13	33.10	33.90	33.77	34.37	34.33	34.93	33.64	33.38	33.61	33.60	33.38	33.11	
14	33.10	37.14	33.56	34.02	34.46	34.30	33.52	33.36	33.61	33.60	33.38	33.10	
15	33.09	35.17	33.46	33.75	34.39	35.13	33.54	33.35	33.61	33.60	33.38	33.10	
16	33.09	34.15	33.51	33.63	34.76	37.83	33.44	33.34	33.62	33.60	33.35	33.10	
17	33.08	33.74	34.47	33.60	35.14	37.95	33.40	33.33	33.62	33.60	33.28	33.09	
18	33.08	33.64	35.13	34.16	35.88	37.24	33.40	33.34	33.61	33.60	33.27	33.10	
19	33.08	33.51	34.34	33.99	34.47	36.05	33.50	33.34	33.58	33.60	33.23	33.10	
20	33.07	33.41	34.02	33.67	34.23	35.02	33.53	33.34	33.59	33.60	33.20	33.10	
21	33.01	33.34	33.80	33.58	34.04	35.24	33.40	33.32	33.59	33.59	33.18	33.12	
22	33.07	33.41	33.59	33.48	35.40	34.99	33.59	33.28	33.58	33.59	33.16	33.11	
23	33.07	33.45	33.44	33.64	34.23	34.38	34.29	33.26	33.59	33.59	33.14	33.11	
24	33.07	33.57	33.35	34.08	33.87	34.10	33.70	33.29	33.58	33.59	33.14	33.12	
25	33.06	33.73	33.30	33.83	33.68	33.95	33.60	33.25	33.59	33.59	33.14	33.11	
26	33.06	33.63	33.34	33.68	33.56	33.79	34.54	33.25	33.59	33.57	33.14	33.11	
27	33.07	33.41	33.30	33.46	33.51	33.73	34.91	33.24	33.59	33.56	33.14	33.10	
28	33.23	33.31	33.27	33.51	33.56	34.35	35.95	33.23	33.56	33.56	33.13	33.10	
29	33.58	33.27	33.32	33.43	34.02	34.95	34.20	33.21	33.56	33.56		33.10	
30	34.58	33.87	33.33	34.08	33.83	34.31	36.82	33.15	33.57	33.55		33.11	
31		33.86		34.19	33.60		34.91		33.57	33.54		33.11	
Mean	33.02	33.68	33.81	34.07	34.34	34.92	34.16	33.53	33.49	33.58	33.32	33.12	
Max	34.58	37.14	35.13	36.88	36.11	37.95	36.82	34.45	33.63	33.60	33.54	33.19	37.95
Min	32.38	33.15	33.27	33.31	33.50	33.60	33.40	33.15	33.13	33.53	33.13	33.09	32.38

Annual Max Momentary Gage Height	38.03	m. (MSL.) ,	at 18.00 Hours, on Sep 16, 2008		
Zero Gage at Bottom Elevation	32.60	m. (MSL.) ,	River Bed	32.38	m. (MSL.)
Left Bank Elevation	41.01	m. (MSL.) ,			
Right Bank Elevation	39.21	m. (MSL.) ,	Drainage Are	280	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	3.02	1.25	0.23	13.78	4.95	4.29	6.03	0.00	0.00	0.00	0.00		
2	0.00	1.80	2.24	2.90	28.77	10.10	8.73	3.87	0.00	0.00	0.00	0.00		
3	0.00	1.40	5.40	1.80	10.10	3.44	4.86	2.72	0.00	0.00	0.00	0.00		
4	0.00	0.95	14.02	29.96	24.90	2.54	36.14	7.56	0.00	0.00	0.00	0.00		
5	0.00	0.32	4.29	5.85	6.30	1.75	12.58	7.65	0.00	0.00	0.00	0.00		
6	0.00	0.20	2.48	3.32	4.08	1.85	5.67	4.01	0.00	0.00	0.00	0.00		
7	0.00	0.06	1.55	2.54	3.02	2.72	3.50	2.72	0.00	0.00	0.00	0.00		
8	0.00	0.12	2.24	6.66	2.12	1.50	2.60	2.06	0.00	0.00	0.00	0.00		
9	0.00	0.08	6.39	6.75	1.65	5.13	2.66	1.60	0.00	0.00	0.00	0.00		
10	0.00	0.00	4.22	12.46	1.00	32.54	2.06	1.20	0.00	0.00	0.00	0.00		
11	0.00	0.00	3.74	42.70	1.95	32.72	1.65	0.90	0.00	0.00	0.00	0.00		
12	0.00	0.00	3.38	7.56	12.94	49.28	1.90	0.60	0.00	0.00	0.00	0.00		
13	0.00	3.20	2.42	6.93	6.57	12.46	1.70	0.44	0.00	0.00	0.00	0.00		
14	0.00	48.18	1.30	3.94	7.74	6.30	1.10	0.38	0.00	0.00	0.00	0.00		
15	0.00	15.34	0.80	2.30	7.11	14.86	1.20	0.35	0.00	0.00	0.00	0.00		
16	0.00	4.95	1.05	1.65	10.60	64.25	0.70	0.32	0.00	0.00	0.00	0.00		
17	0.00	2.24	7.83	1.50	14.98	67.25	0.50	0.29	0.00	0.00	0.00	0.00		
18	0.00	1.70	14.86	5.04	25.20	50.42	0.50	0.32	0.00	0.00	0.00	0.00		
19	0.00	1.05	6.66	3.74	7.83	27.80	1.00	0.32	0.00	0.00	0.00	0.00		
20	0.00	0.55	3.94	1.85	5.67	13.54	1.15	0.32	0.00	0.00	0.00	0.00		
21	0.00	0.32	2.60	1.40	4.08	16.22	0.50	0.26	0.00	0.00	0.00	0.00		
22	0.00	0.55	1.45	0.90	18.30	13.18	1.45	0.16	0.00	0.00	0.00	0.00		
23	0.00	0.75	0.70	1.70	5.67	7.02	6.21	0.12	0.00	0.00	0.00	0.00		
24	0.00	1.35	0.35	4.36	3.02	4.50	2.00	0.18	0.00	0.00	0.00	0.00		
25	0.00	2.18	0.20	2.78	1.90	3.50	1.50	0.10	0.00	0.00	0.00	0.00		
26	0.00	1.65	0.32	1.90	1.30	2.54	8.46	0.10	0.00	0.00	0.00	0.00		
27	0.00	0.55	0.20	0.80	1.05	2.18	12.22	0.08	0.00	0.00	0.00	0.00		
28	0.06	0.23	0.14	1.05	1.30	6.75	26.25	0.06	0.00	0.00	0.00	0.00		
29	1.40	0.14	0.26	0.65	3.94	12.70	5.40	0.02	0.00	0.00		0.00		
30	8.82	3.02	0.29	4.36	2.78	6.39	41.50	0.00	0.00	0.00		0.00		
31		2.96		5.31	1.50		12.22		0.00	0.00		0.00		
Total	10.28	98.86	96.57	174.89	241.15	480.38	212.20	44.74	0.00	0.00	0.00	0.00	1359.07	CMSDAY
Mean	0.34	3.19	3.22	5.64	7.78	16.01	6.85	1.49	0.00	0.00	0.00	0.00	3.72	CMS
Max	8.82	48.18	14.86	42.70	28.77	67.25	41.50	7.65	0.00	0.00	0.00	0.00	67.25	CMS
Min	0.00	0.00	0.14	0.23	1.00	1.50	0.50	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.89	8.54	8.34	15.11	20.84	41.50	18.33	3.87	0.00	0.00	0.00	0.00	117.42	MCM

Momentary Peak 69.25 CMS, at 38.03 m. (MSL.), at 18.00 Hours, on Sep 16, 2008

Runoff Yield 13.30 Liters/Second/Square KM. Momentary Peak Yield 247.32 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	316 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+9.200 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank next tall pole for eletric cable near dwelling. **Elevation** +18.683 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 mean of 5 readings
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Float	-
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 18 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

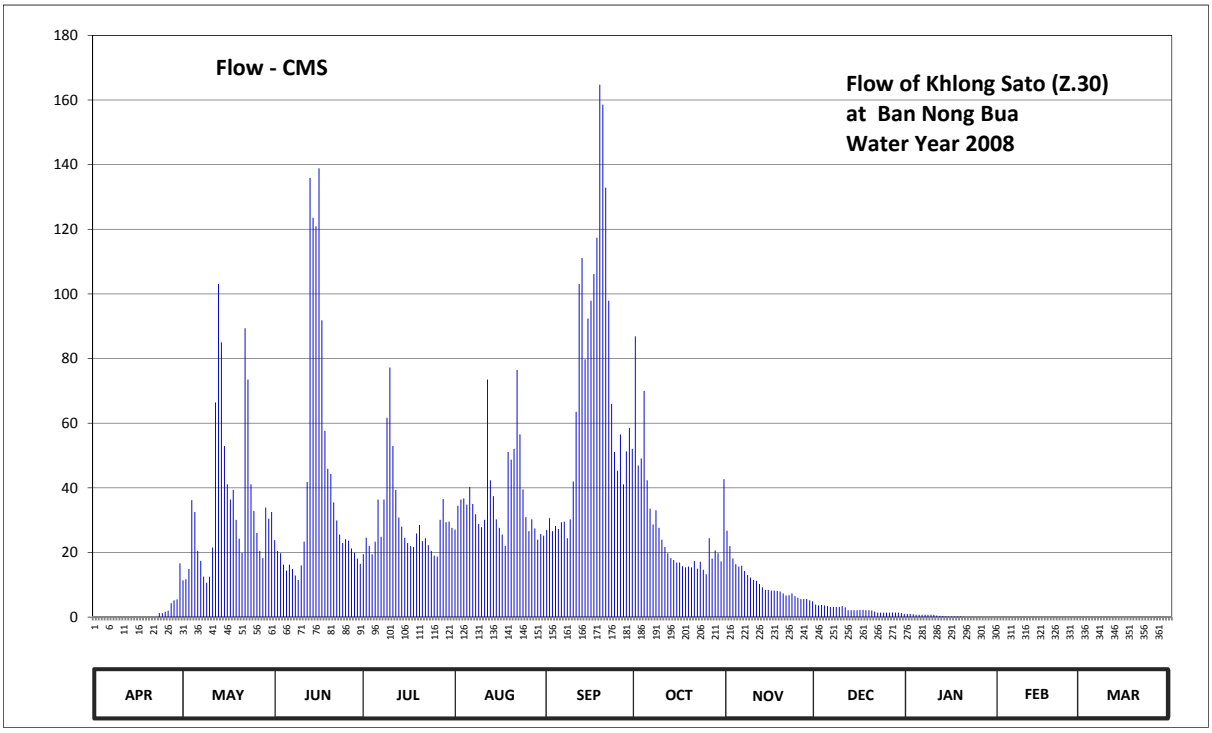
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.28	11.51	12.42	12.13	12.62	12.61	15.45	12.60	10.78	10.40	12.27	12.85	
2	12.43	11.54	12.20	12.47	13.04	12.82	13.72	12.30	10.75	10.40	12.27	12.86	
3	12.65	11.79	12.15	12.30	13.15	12.59	13.83	12.04	10.77	10.38	12.29	13.19	
4	13.37	13.14	11.90	12.13	13.17	12.68	14.78	11.91	10.75	10.35	12.30	13.65	
5	13.36	12.93	11.75	12.39	13.06	12.63	13.49	11.85	10.72	10.35	12.30	14.07	
6	13.48	12.20	11.90	13.15	13.37	12.75	12.99	11.87	10.68	10.35	12.32	13.75	
7	13.75	11.99	11.79	12.49	13.07	12.76	12.71	11.74	10.69	10.35	12.34	13.49	
8	13.77	11.60	11.63	13.15	12.89	12.46	12.96	11.64	10.69	10.35	12.30	13.28	
9	13.62	11.45	11.52	14.42	12.72	12.80	12.65	11.58	10.69	10.35	12.30	13.21	
10	13.55	11.60	11.88	15.07	12.66	13.47	12.43	11.52	10.72	10.34	12.30	13.23	
11	13.24	12.27	12.39	14.02	12.79	14.50	12.28	11.50	10.67	10.30	12.30	13.30	
12	13.10	14.63	13.46	13.32	14.92	16.04	12.15	11.42	10.55	10.28	12.32	13.22	
13	12.95	16.04	17.18	12.83	13.49	16.33	12.05	11.32	10.55	10.27	12.32	13.07	
14	12.85	15.38	16.77	12.67	13.21	15.17	12.01	11.24	10.55	10.25	12.31	12.98	
15	12.88	14.02	16.68	12.47	12.80	15.65	11.95	11.24	10.55	10.24	12.34	13.00	
16	12.96	13.42	17.28	12.36	12.65	15.85	11.95	11.22	10.56	10.24	12.34	12.88	
17	13.05	13.15	15.63	12.30	12.53	16.15	11.86	11.22	10.56	10.24	12.34	12.80	
18	13.37	13.32	14.24	12.28	12.30	16.56	11.83	11.21	10.55	10.24	12.33	13.00	
19	13.02	12.79	13.67	12.55	13.93	18.10	11.85	11.19	10.55	10.24	12.32	13.40	
20	10.74	12.45	13.59	12.70	13.81	17.91	11.83	11.13	10.54	10.22	12.29	13.49	
21	10.51	12.16	13.10	12.40	13.98	17.08	11.99	11.07	10.50	10.20	12.30	13.59	
22	10.42	15.54	12.78	12.46	15.04	15.85	11.80	11.08	10.45	10.32	12.30	13.48	
23	10.43	14.92	12.53	12.32	14.19	14.61	11.97	11.13	10.45	10.87	12.29	13.35	
24	10.43	13.42	12.36	12.20	13.33	13.93	11.77	11.05	10.45	11.31	12.31	13.19	
25	10.49	12.95	12.44	12.10	12.84	13.64	11.66	11.00	10.45	11.50	12.48	13.05	
26	10.53	12.56	12.41	12.08	12.59	14.19	12.46	10.96	10.45	11.83	12.58	12.91	
27	10.83	12.20	12.25	12.79	12.80	13.42	12.04	10.96	10.46	12.02	12.64	12.95	
28	10.92	12.05	12.16	13.16	12.64	13.94	12.21	10.96	10.45	12.20	12.79	12.93	
29	10.95	13.01	12.04	12.75	12.43	14.28	12.15	10.92	10.45	12.20		12.90	
30	11.93	12.81	11.92	12.76	12.54	13.98	11.98	10.89	10.43	12.21		13.13	
31		12.93		12.65	12.51		13.51		10.40	12.21		13.35	
Mean	12.26	12.96	13.13	12.74	13.13	14.49	12.53	11.39	10.57	10.74	12.35	13.21	
Max	13.77	16.04	17.28	15.07	15.04	18.10	15.45	12.60	10.78	12.21	12.79	14.07	18.10
Min	10.42	11.45	11.52	12.08	12.30	12.46	11.66	10.89	10.40	10.20	12.27	12.80	10.20

Annual Max Momentary Gage Height 18.17 m. (MSL.) , at 18.00 Hours, on Sep 19, 2008

Zero Gage at Bottom Elevation 9.20 m. (MSL.) , River Bed 8.71 m. (MSL.)

Left Bank Elevation 20.51 m. (MSL.) ,

Right Bank Elevation 20.53 m. (MSL.) , Drainage Are 316 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	11.38	23.80	19.45	27.10	26.93	86.88	26.75	3.85	1.00	0.00	0.00		
2	0.00	11.75	20.50	24.55	34.45	30.60	46.90	22.00	3.63	1.00	0.00	0.00		
3	0.00	14.88	19.75	22.00	36.38	26.58	49.10	18.10	3.78	0.90	0.00	0.00		
4	0.00	36.20	16.25	19.45	36.73	28.15	70.00	16.38	3.63	0.75	0.00	0.01		
5	0.00	32.53	14.38	23.35	34.80	27.28	42.33	15.63	3.40	0.75	0.00	0.01		
6	0.00	20.50	16.25	36.38	40.23	29.38	33.58	15.88	3.10	0.75	0.00	0.01		
7	0.01	17.38	14.88	24.85	34.98	29.55	28.68	14.25	3.18	0.75	0.00	0.00		
8	0.01	12.50	12.88	36.38	31.83	24.40	33.05	13.00	3.18	0.75	0.00	0.00		
9	0.01	10.63	11.50	61.70	28.85	30.25	27.63	12.25	3.18	0.75	0.00	0.00		
10	0.00	12.50	16.00	77.25	27.80	41.98	23.95	11.50	3.40	0.70	0.00	0.00		
11	0.00	21.55	23.35	52.90	30.08	63.50	21.70	11.25	3.03	0.50	0.00	0.00		
12	0.00	66.43	41.80	39.35	73.50	103.10	19.75	10.25	2.13	0.40	0.00	0.00		
13	0.00	103.10	135.90	30.78	42.33	111.08	18.25	9.20	2.13	0.35	0.00	0.00		
14	0.00	85.00	123.60	27.98	37.43	79.75	17.65	8.40	2.13	0.25	0.00	0.00		
15	0.00	52.90	120.90	24.55	30.25	92.38	16.88	8.40	2.13	0.20	0.00	0.00		
16	0.00	41.10	138.90	22.90	27.63	97.88	16.88	8.20	2.20	0.20	0.00	0.00		
17	0.00	36.38	91.83	22.00	25.53	106.13	15.75	8.20	2.20	0.20	0.00	0.00		
18	0.00	39.35	57.65	21.70	22.00	117.40	15.38	8.10	2.13	0.20	0.00	0.00		
19	0.00	30.08	45.90	25.88	51.10	164.75	15.63	7.90	2.13	0.20	0.00	0.00		
20	0.00	24.25	44.30	28.50	48.70	158.58	15.38	7.30	2.05	0.10	0.00	0.00		
21	0.00	19.90	35.50	23.50	52.10	132.90	17.38	6.70	1.75	0.00	0.00	0.01		
22	0.00	89.35	29.90	24.40	76.50	97.88	15.00	6.80	1.38	0.00	0.00	0.00		
23	1.23	73.50	25.53	22.30	56.53	65.98	17.13	7.30	1.38	0.00	0.00	0.00		
24	1.23	41.10	22.90	20.50	39.53	51.10	14.63	6.50	1.38	0.00	0.00	0.00		
25	1.68	32.88	24.10	19.00	30.95	45.30	13.25	6.00	1.38	0.00	0.00	0.00		
26	1.98	26.05	23.65	18.70	26.58	56.53	24.40	5.60	1.38	0.00	0.00	0.00		
27	4.30	20.50	21.25	30.08	30.25	41.10	18.10	5.60	1.45	0.00	0.00	0.00		
28	5.20	18.25	19.90	36.55	27.45	51.30	20.65	5.60	1.38	0.00	0.00	0.00		
29	5.50	33.93	18.10	29.38	23.95	58.55	19.75	5.20	1.38	0.00		0.00		
30	16.63	30.43	16.50	29.55	25.70	52.10	17.25	4.90	1.23	0.00		0.00		
31		32.53		27.63	25.18		42.70		1.00	0.00		0.00		
Total	37.78	1098.81	1227.65	923.49	1136.42	2042.39	835.59	313.14	71.68	10.70	0.00	0.04	7697.69	CMSDAY
Mean	1.26	35.45	40.92	29.79	36.66	68.08	26.95	10.44	2.31	0.35	0.00	0.00	21.09	CMS
Max	16.63	103.10	138.90	77.25	76.50	164.75	86.88	26.75	3.85	1.00	0.00	0.01	164.75	CMS
Min	0.00	10.63	11.50	18.70	22.00	24.40	13.25	4.90	1.00	0.00	0.00	0.00	0.00	CMS
Runoff	3.26	94.94	106.07	79.79	98.19	176.46	72.19	27.06	6.19	0.92	0.00	0.00	665.08	MCM

Momentary Peak 167.02 CMS, at 18.17 m. (MSL.), at 18.00 Hours, on Sep 19, 2008

Runoff Yield 66.74 Liters/Second/Square KM. Momentary Peak Yield 528.54 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	150 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 next tall pole for eletric cable near dwelling. **Elevation** +4.000 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings
Period of Available Gage Records	2008 to date
Rating Operation	
Period of Rating	2008 to date
Rated by Float	-
Rated by Current Meter	2008 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 9 discharge measurements made in 2008.

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

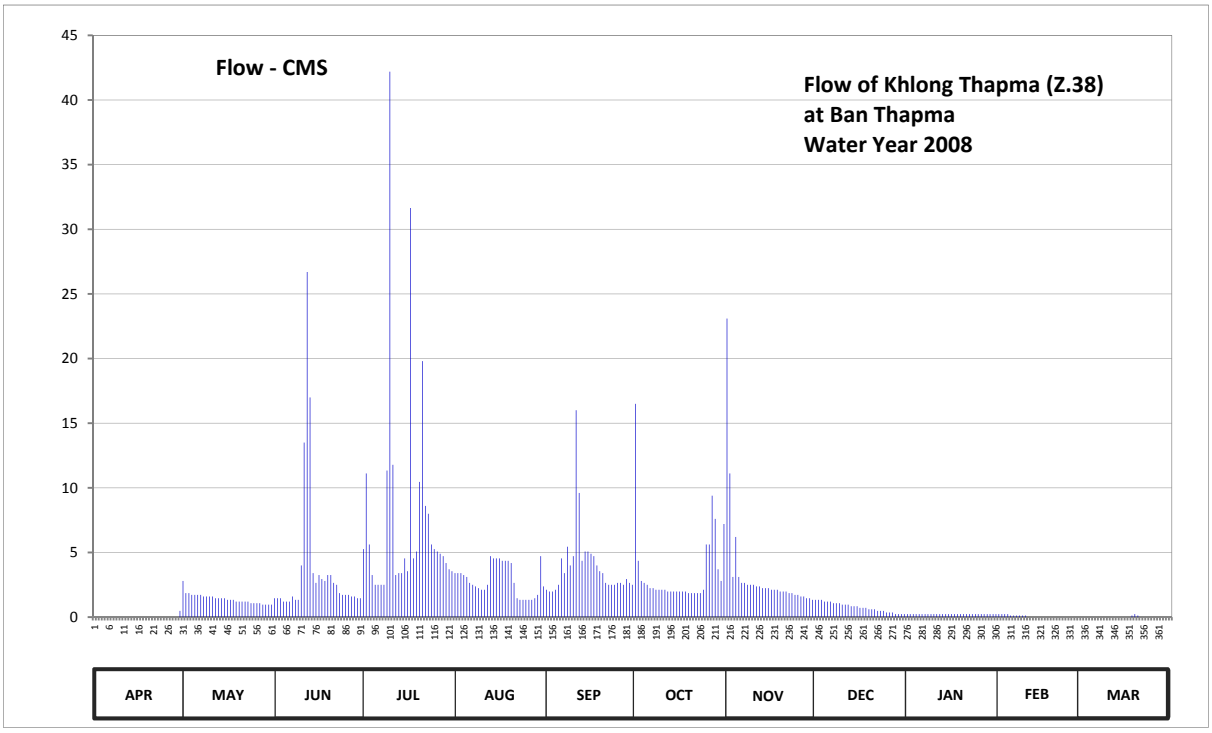
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.58	0.82	0.72	0.97	0.86	0.77	1.48	1.72	0.71	0.62	0.62	0.57	
2	0.58	0.75	0.72	1.26	0.86	0.76	0.92	1.26	0.71	0.62	0.62	0.57	
3	0.58	0.75	0.72	0.99	0.86	0.76	0.82	0.84	0.71	0.62	0.62	0.58	
4	0.58	0.74	0.70	0.85	0.85	0.77	0.81	1.02	0.70	0.62	0.62	0.58	
5	0.58	0.74	0.70	0.80	0.84	0.80	0.80	0.84	0.70	0.62	0.61	0.59	
6	0.58	0.74	0.70	0.80	0.81	0.93	0.78	0.81	0.70	0.62	0.61	0.59	
7	0.58	0.74	0.73	0.80	0.80	0.86	0.78	0.81	0.69	0.62	0.61	0.60	
8	0.58	0.73	0.71	0.80	0.79	0.98	0.77	0.80	0.69	0.62	0.61	0.60	
9	0.58	0.73	0.71	1.27	0.78	0.90	0.77	0.80	0.69	0.62	0.61	0.60	
10	0.58	0.73	0.90	2.28	0.77	0.94	0.77	0.80	0.68	0.62	0.61	0.60	
11	0.58	0.73	1.36	1.29	0.77	1.46	0.77	0.79	0.68	0.62	0.60	0.60	
12	0.58	0.72	1.84	0.85	0.80	1.19	0.76	0.79	0.68	0.62	0.60	0.60	
13	0.58	0.72	1.50	0.86	0.94	0.92	0.76	0.78	0.67	0.62	0.60	0.60	
14	0.58	0.72	0.86	0.86	0.93	0.96	0.76	0.78	0.67	0.62	0.60	0.60	
15	0.58	0.72	0.81	0.93	0.93	0.96	0.76	0.78	0.67	0.62	0.60	0.60	
16	0.58	0.71	0.85	0.87	0.93	0.95	0.76	0.77	0.66	0.62	0.59	0.60	
17	0.58	0.71	0.83	1.99	0.92	0.94	0.76	0.77	0.66	0.62	0.59	0.60	
18	0.58	0.71	0.82	0.93	0.92	0.90	0.76	0.77	0.66	0.62	0.59	0.61	
19	0.58	0.70	0.85	0.96	0.92	0.87	0.75	0.76	0.65	0.62	0.59	0.62	
20	0.58	0.70	0.85	1.23	0.91	0.86	0.75	0.76	0.65	0.62	0.59	0.61	
21	0.58	0.70	0.81	1.61	0.81	0.81	0.75	0.76	0.65	0.62	0.59	0.60	
22	0.58	0.70	0.80	1.14	0.72	0.80	0.75	0.75	0.64	0.62	0.58	0.60	
23	0.58	0.70	0.75	1.11	0.71	0.80	0.75	0.75	0.64	0.62	0.58	0.60	
24	0.58	0.69	0.74	0.99	0.71	0.80	0.77	0.74	0.64	0.62	0.58	0.60	
25	0.58	0.69	0.74	0.97	0.71	0.81	0.99	0.74	0.63	0.62	0.58	0.60	
26	0.58	0.69	0.74	0.96	0.71	0.81	0.99	0.73	0.63	0.62	0.58	0.60	
27	0.58	0.69	0.73	0.95	0.71	0.80	1.18	0.73	0.63	0.62	0.57	0.60	
28	0.58	0.68	0.73	0.94	0.72	0.83	1.09	0.72	0.62	0.62	0.57	0.60	
29	0.58	0.68	0.72	0.91	0.74	0.81	0.88	0.72	0.62	0.62		0.60	
30	0.64	0.68	0.72	0.88	0.94	0.80	0.82	0.71	0.62	0.62		0.60	
31		0.68		0.87	0.79		1.07		0.62	0.62		0.60	
Mean	0.58	0.72	0.85	1.06	0.82	0.88	0.85	0.83	0.66	0.62	0.60	0.60	
Max	0.64	0.82	1.84	2.28	0.94	1.46	1.48	1.72	0.71	0.62	0.62	0.62	2.28
Min	0.58	0.68	0.70	0.80	0.71	0.76	0.75	0.71	0.62	0.62	0.57	0.57	0.57

Annual Max Momentary Gage Height 2.34 m. (A.D.) , at 09.00 Hours, on Jul 10, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.02 m. (A.D.)

Left Bank Elevation 4.70 m. (A.D.) ,

Right Bank Elevation 4.71 m. (A.D.) , Drainage Are 150 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	2.80	1.46	5.26	3.40	2.11	16.50	23.10	1.33	0.24	0.24	0.00		
2	0.00	1.85	1.46	11.12	3.40	1.98	4.36	11.12	1.33	0.24	0.24	0.00		
3	0.00	1.85	1.46	5.62	3.40	1.98	2.80	3.10	1.33	0.24	0.24	0.00		
4	0.00	1.72	1.20	3.25	3.25	2.11	2.65	6.20	1.20	0.24	0.24	0.00		
5	0.00	1.72	1.20	2.50	3.10	2.50	2.50	3.10	1.20	0.24	0.12	0.00		
6	0.00	1.72	1.20	2.50	2.65	4.54	2.24	2.65	1.20	0.24	0.12	0.00		
7	0.00	1.72	1.59	2.50	2.50	3.40	2.24	2.65	1.08	0.24	0.12	0.00		
8	0.00	1.59	1.33	2.50	2.37	5.44	2.11	2.50	1.08	0.24	0.12	0.00		
9	0.00	1.59	1.33	11.34	2.24	4.00	2.11	2.50	1.08	0.24	0.12	0.00		
10	0.00	1.59	4.00	42.20	2.11	4.72	2.11	2.50	0.96	0.24	0.12	0.00		
11	0.00	1.59	13.50	11.78	2.11	16.00	2.11	2.37	0.96	0.24	0.00	0.00		
12	0.00	1.46	26.70	3.25	2.50	9.60	1.98	2.37	0.96	0.24	0.00	0.00		
13	0.00	1.46	17.00	3.40	4.72	4.36	1.98	2.24	0.84	0.24	0.00	0.00		
14	0.00	1.46	3.40	3.40	4.54	5.08	1.98	2.24	0.84	0.24	0.00	0.00		
15	0.00	1.46	2.65	4.54	4.54	5.08	1.98	2.24	0.84	0.24	0.00	0.00		
16	0.00	1.33	3.25	3.55	4.54	4.90	1.98	2.11	0.72	0.24	0.00	0.00		
17	0.00	1.33	2.95	31.65	4.36	4.72	1.98	2.11	0.72	0.24	0.00	0.00		
18	0.00	1.33	2.80	4.54	4.36	4.00	1.98	2.11	0.72	0.24	0.00	0.12		
19	0.00	1.20	3.25	5.08	4.36	3.55	1.85	1.98	0.60	0.24	0.00	0.24		
20	0.00	1.20	3.25	10.46	4.18	3.40	1.85	1.98	0.60	0.24	0.00	0.12		
21	0.00	1.20	2.65	19.80	2.65	2.65	1.85	1.98	0.60	0.24	0.00	0.00		
22	0.00	1.20	2.50	8.60	1.46	2.50	1.85	1.85	0.48	0.24	0.00	0.00		
23	0.00	1.20	1.85	8.00	1.33	2.50	1.85	1.85	0.48	0.24	0.00	0.00		
24	0.00	1.08	1.72	5.62	1.33	2.50	2.11	1.72	0.48	0.24	0.00	0.00		
25	0.00	1.08	1.72	5.26	1.33	2.65	5.62	1.72	0.36	0.24	0.00	0.00		
26	0.00	1.08	1.72	5.08	1.33	2.65	5.62	1.59	0.36	0.24	0.00	0.00		
27	0.00	1.08	1.59	4.90	1.33	2.50	9.40	1.59	0.36	0.24	0.00	0.00		
28	0.00	0.96	1.59	4.72	1.46	2.95	7.60	1.46	0.24	0.24	0.00	0.00		
29	0.00	0.96	1.46	4.18	1.72	2.65	3.70	1.46	0.24	0.24		0.00		
30	0.48	0.96	1.46	3.70	4.72	2.50	2.80	1.33	0.24	0.24		0.00		
31		0.96		3.55	2.37		7.20		0.24	0.24		0.00		
Total	0.48	43.73	113.24	243.85	89.66	119.52	108.89	97.72	23.67	7.44	1.68	0.48	850.36	CMSDAY
Mean	0.02	1.41	3.77	7.87	2.89	3.98	3.51	3.26	0.76	0.24	0.06	0.02	2.33	CMS
Max	0.48	2.80	26.70	42.20	4.72	16.00	16.50	23.10	1.33	0.24	0.24	0.24	42.20	CMS
Min	0.00	0.96	1.20	2.50	1.33	1.98	1.85	1.33	0.24	0.24	0.00	0.00	0.00	CMS
Runoff	0.04	3.78	9.78	21.07	7.75	10.33	9.41	8.44	2.05	0.64	0.15	0.04	73.47	MCM

Momentary Peak 44.60 CMS, at 2.34 m. (A.D.), at 09.00 Hours, on Jul 10, 2008

Runoff Yield 15.49 Liters/Second/Square KM. Momentary Peak Yield 296.48 Liters/Second/Square KM.

WATER YEAR : 2008

EAST COAST - GULF BASIN

Khlong Prakaet at Ban Prakaet , Chanthaburi (Z.42)

Lat 12 - 57 - 32 N Long 101 - 51 - 57 E

Location : on left bank at Ban Prakaet, Tambon Sam Phinong.

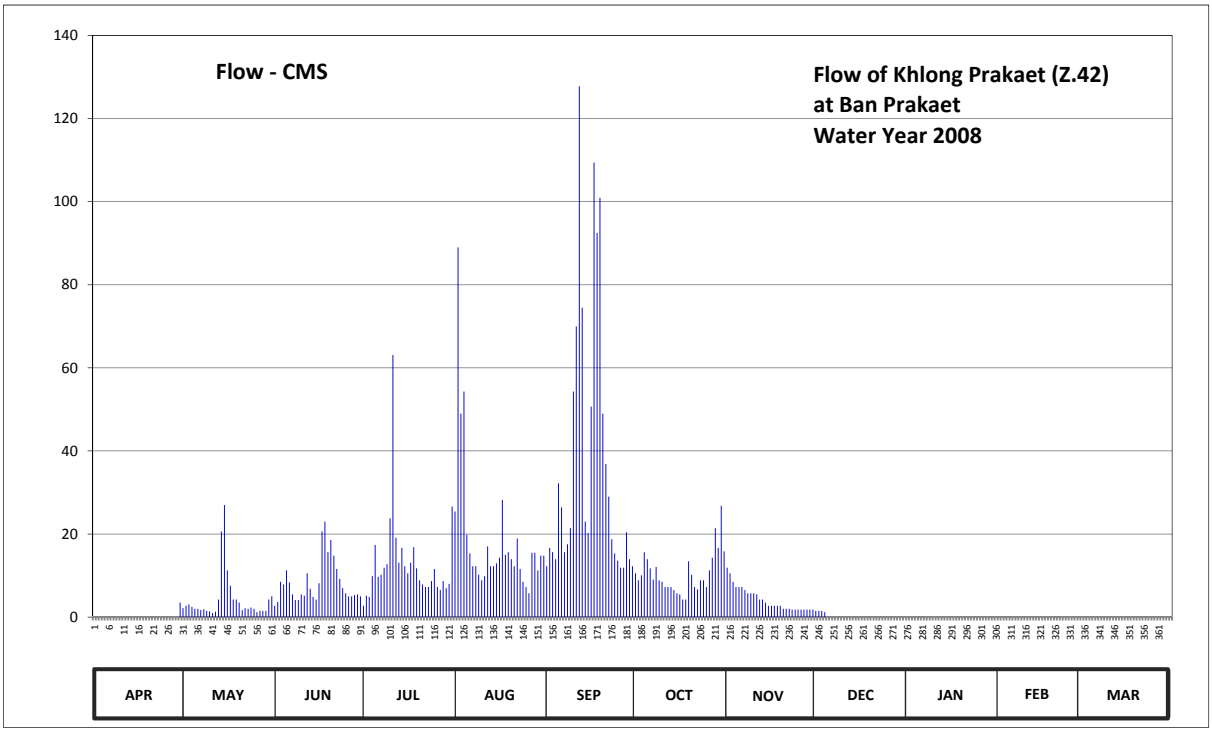
Ban Prakaet **Amphoe** Kaeng Hang Maeo **Changwat** Chanthaburi

Drainge Area	451 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+17.754 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 200 meters from the gage observer's house. **Elevation** +24.921 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	2000 to date.
Rated by Float	-
Rated by Current Meter	2000 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 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.74	18.11	18.15	18.15	19.47	18.75	18.65	18.73	18.05	18.35	18.12	17.88	
2	17.74	18.15	18.21	18.31	22.02	19.01	18.55	18.65	18.05	18.35	18.12	17.90	
3	17.74	18.17	18.53	18.29	20.55	18.95	18.62	18.53	18.05	18.35	18.11	17.89	
4	17.74	18.13	18.49	18.61	20.77	18.85	18.95	18.45	18.02	18.33	18.09	17.90	
5	17.74	18.10	18.69	19.05	19.19	19.81	18.85	18.45	17.90	18.30	18.09	17.90	
6	17.74	18.10	18.52	18.60	18.93	19.52	18.72	18.45	17.98	18.35	18.08	17.90	
7	17.74	18.07	18.33	18.63	18.75	18.95	18.56	18.40	18.65	18.30	18.07	17.89	
8	17.74	18.09	18.24	18.73	18.75	19.06	18.74	18.35	18.65	18.25	18.06	17.89	
9	17.74	18.05	18.24	18.78	18.63	19.27	18.55	18.35	18.65	18.25	18.05	17.88	
10	17.74	18.04	18.33	19.39	18.55	20.77	18.53	18.35	18.60	18.25	18.04	17.88	
11	17.74	18.00	18.31	21.11	18.61	21.36	18.45	18.33	18.60	18.25	18.02	17.88	
12	17.74	18.03	18.65	19.15	19.03	23.26	18.45	18.25	18.55	18.25	18.01	17.87	
13	17.74	18.25	18.42	18.80	18.75	21.52	18.45	18.25	18.55	18.25	17.99	17.86	
14	17.74	19.23	18.29	19.01	18.75	19.35	18.40	18.20	18.55	18.21	17.97	17.90	
15	17.74	19.55	18.25	18.75	18.79	19.21	18.35	18.15	18.55	18.22	17.95	17.89	
16	17.74	18.69	18.51	18.65	18.87	20.62	18.33	18.15	18.55	18.22	17.93	17.87	
17	17.74	18.47	19.23	18.80	19.61	22.70	18.25	18.15	18.55	18.22	17.93	17.87	
18	17.74	18.25	19.35	19.02	18.91	22.14	18.25	18.15	18.55	18.22	17.91	17.90	
19	17.74	18.25	18.95	18.72	18.95	22.43	18.82	18.15	18.55	18.22	17.90	17.90	
20	17.74	18.20	19.12	18.55	18.85	20.55	18.63	18.10	18.55	18.21	17.89	17.89	
21	17.74	18.07	18.90	18.49	18.75	20.03	18.45	18.10	18.55	18.20	17.89	17.89	
22	17.74	18.11	18.71	18.45	19.14	19.65	18.41	18.10	18.55	18.19	17.89	17.89	
23	17.74	18.10	18.57	18.45	18.71	19.13	18.55	18.08	18.55	18.19	17.89	17.89	
24	17.74	18.12	18.43	18.54	18.53	18.93	18.55	18.08	18.55	18.18	17.88	17.88	
25	17.74	18.10	18.35	18.71	18.45	18.83	18.45	18.08	18.55	18.17	17.90	17.88	
26	17.74	18.02	18.30	18.45	18.35	18.73	18.69	18.08	18.55	18.17	17.90	17.87	
27	17.74	18.05	18.30	18.40	18.94	18.73	18.87	18.08	18.55	18.17	17.89	17.86	
28	17.74	18.05	18.32	18.54	18.94	19.22	19.27	18.08	18.64	18.16	17.88	17.86	
29	17.74	18.05	18.33	18.43	18.69	18.85	19.01	18.08	18.64	18.15		17.85	
30	18.20	18.25	18.30	18.50	18.90	18.75	19.54	18.08	18.45	18.13		17.85	
31		18.30		19.53	18.90		18.96		18.35	18.13		17.89	
Mean	17.76	18.23	18.51	18.76	19.07	19.90	18.64	18.25	18.45	18.23	17.98	17.88	
Max	18.20	19.55	19.35	21.11	22.02	23.26	19.54	18.73	18.65	18.35	18.12	17.90	23.26
Min	17.74	18.00	18.15	18.15	18.35	18.73	18.25	18.08	17.90	18.13	17.88	17.85	17.74

Annual Max Momentary Gage Height	23.57	m. (MSL.) ,	at 15.00 Hours, on Sep 12, 2008		
Zero Gage at Bottom Elevation	17.75	m. (MSL.) ,	River Bed	17.74	m. (MSL.)
Left Bank Elevation	24.92	m. (MSL.) ,			
Right Bank Elevation	24.87	m. (MSL.) ,	Drainage Are	451	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	2.15	2.75	2.75	25.40	12.25	10.55	11.91	1.50	0.00	0.00	0.00		
2	0.00	2.75	3.65	5.15	88.98	16.67	8.85	10.55	1.50	0.00	0.00	0.00		
3	0.00	3.05	8.51	4.85	49.00	15.65	10.04	8.51	1.50	0.00	0.00	0.00		
4	0.00	2.45	7.85	9.87	54.28	13.95	15.65	7.25	1.20	0.00	0.00	0.00		
5	0.00	2.00	11.23	17.35	19.82	32.20	13.95	7.25	0.00	0.00	0.00	0.00		
6	0.00	2.00	8.34	9.70	15.31	26.40	11.74	7.25	0.00	0.00	0.00	0.00		
7	0.00	1.70	5.45	10.21	12.25	15.65	9.02	6.50	0.00	0.00	0.00	0.00		
8	0.00	1.90	4.10	11.91	12.25	17.52	12.08	5.75	0.00	0.00	0.00	0.00		
9	0.00	1.50	4.10	12.76	10.21	21.40	8.85	5.75	0.00	0.00	0.00	0.00		
10	0.00	1.40	5.45	23.80	8.85	54.28	8.51	5.75	0.00	0.00	0.00	0.00		
11	0.00	1.00	5.15	63.07	9.87	69.98	7.25	5.45	0.00	0.00	0.00	0.00		
12	0.00	1.30	10.55	19.10	17.01	127.78	7.25	4.25	0.00	0.00	0.00	0.00		
13	0.00	4.25	6.80	13.10	12.25	74.48	7.25	4.25	0.00	0.00	0.00	0.00		
14	0.00	20.60	4.85	16.67	12.25	23.00	6.50	3.50	0.00	0.00	0.00	0.00		
15	0.00	27.00	4.25	12.25	12.93	20.20	5.75	2.75	0.00	0.00	0.00	0.00		
16	0.00	11.23	8.17	10.55	14.29	50.68	5.45	2.75	0.00	0.00	0.00	0.00		
17	0.00	7.55	20.60	13.10	28.20	109.40	4.25	2.75	0.00	0.00	0.00	0.00		
18	0.00	4.25	23.00	16.84	14.97	92.46	4.25	2.75	0.00	0.00	0.00	0.00		
19	0.00	4.25	15.65	11.74	15.65	100.93	13.44	2.75	0.00	0.00	0.00	0.00		
20	0.00	3.50	18.56	8.85	13.95	49.00	10.21	2.00	0.00	0.00	0.00	0.00		
21	0.00	1.70	14.80	7.85	12.25	36.86	7.25	2.00	0.00	0.00	0.00	0.00		
22	0.00	2.15	11.57	7.25	18.92	29.00	6.65	2.00	0.00	0.00	0.00	0.00		
23	0.00	2.00	9.19	7.25	11.57	18.74	8.85	1.80	0.00	0.00	0.00	0.00		
24	0.00	2.30	6.95	8.68	8.51	15.31	8.85	1.80	0.00	0.00	0.00	0.00		
25	0.00	2.00	5.75	11.57	7.25	13.61	7.25	1.80	0.00	0.00	0.00	0.00		
26	0.00	1.20	5.00	7.25	5.75	11.91	11.23	1.80	0.00	0.00	0.00	0.00		
27	0.00	1.50	5.00	6.50	15.48	11.91	14.29	1.80	0.00	0.00	0.00	0.00		
28	0.00	1.50	5.30	8.68	15.48	20.40	21.40	1.80	0.00	0.00	0.00	0.00		
29	0.00	1.50	5.45	6.95	11.23	13.95	16.67	1.80	0.00	0.00		0.00		
30	3.50	4.25	5.00	8.00	14.80	12.25	26.80	1.80	0.00	0.00		0.00		
31		5.00		26.60	14.80		15.82		0.00	0.00		0.00		
Total	3.50	130.93	253.02	400.20	583.76	1127.82	325.90	128.07	5.70	0.00	0.00	0.00	2958.90	CMSDAY
Mean	0.12	4.22	8.43	12.91	18.83	37.59	10.51	4.27	0.18	0.00	0.00	0.00	8.11	CMS
Max	3.50	27.00	23.00	63.07	88.98	127.78	26.80	11.91	1.50	0.00	0.00	0.00	127.78	CMS
Min	0.00	1.00	2.75	2.75	5.75	11.91	4.25	1.80	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.30	11.31	21.86	34.58	50.44	97.44	28.16	11.07	0.49	0.00	0.00	0.00	255.65	MCM

Momentary Peak 138.01 CMS, at 23.57 m. (MSL.), at 15.00 Hours, on Sep 12, 2008

Runoff Yield 17.97 Liters/Second/Square KM. Momentary Peak Yield 306.01 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 Float	-
Rated by Current Meter	1996 to date.
Stability of Channel Regimes	Fairly stable with variable water surface slope.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 8 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

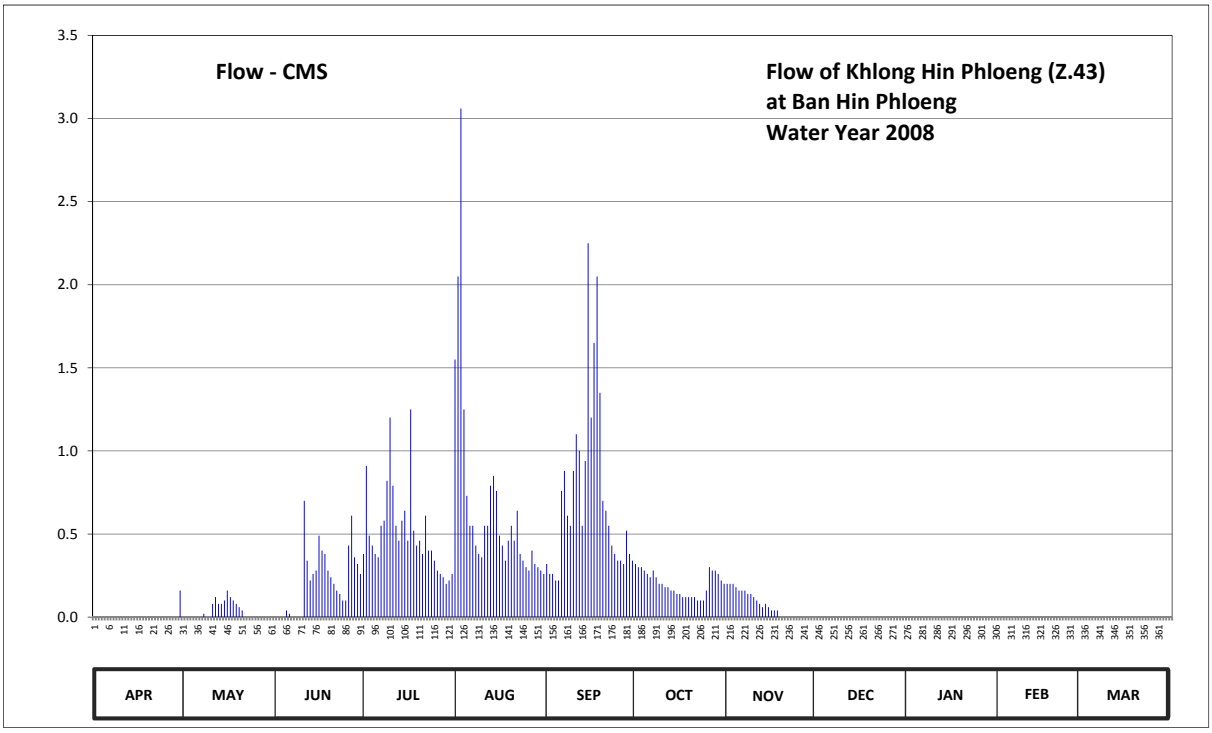
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	45.09	45.50	45.47	45.69	46.01	45.66	45.66	45.60	45.49	45.44	45.42	45.48	
2	45.09	45.48	45.48	45.87	46.11	45.63	45.65	45.60	45.49	45.44	45.42	45.42	
3	45.09	45.48	45.50	45.73	46.31	45.63	45.65	45.60	45.49	45.44	45.42	45.42	
4	45.09	45.49	45.49	45.71	45.95	45.61	45.64	45.59	45.49	45.44	45.42	45.42	
5	45.09	45.48	45.52	45.69	45.81	45.61	45.63	45.58	45.49	45.44	45.42	45.41	
6	45.09	45.48	45.51	45.68	45.75	45.82	45.62	45.58	45.48	45.44	45.41	45.41	
7	45.09	45.49	45.50	45.75	45.75	45.86	45.64	45.58	45.48	45.44	45.41	45.41	
8	45.09	45.51	45.50	45.76	45.71	45.77	45.62	45.57	45.48	45.44	45.41	45.46	
9	45.09	45.50	45.50	45.84	45.69	45.75	45.60	45.57	45.47	45.44	45.41	45.47	
10	45.09	45.41	45.49	45.94	45.68	45.86	45.60	45.56	45.47	45.44	45.41	45.45	
11	45.09	45.54	45.80	45.83	45.75	45.92	45.59	45.55	45.47	45.44	45.41	45.44	
12	45.09	45.56	45.67	45.75	45.75	45.90	45.59	45.54	45.47	45.44	45.41	45.43	
13	45.09	45.54	45.61	45.72	45.83	45.75	45.58	45.53	45.47	45.44	45.40	45.42	
14	45.09	45.54	45.63	45.76	45.85	45.88	45.58	45.54	45.47	45.44	45.40	45.42	
15	45.09	45.55	45.64	45.78	45.82	46.15	45.57	45.53	45.47	45.44	45.40	45.42	
16	45.09	45.58	45.73	45.72	45.73	45.94	45.57	45.52	45.47	45.44	45.40	45.41	
17	45.09	45.56	45.70	45.95	45.71	46.03	45.56	45.52	45.46	45.44	45.39	45.46	
18	45.09	45.55	45.69	45.74	45.67	46.11	45.56	45.52	45.46	45.44	45.39	45.46	
19	45.09	45.54	45.64	45.71	45.72	45.97	45.56	45.50	45.46	45.44	45.39	45.44	
20	45.09	45.53	45.62	45.72	45.75	45.80	45.56	45.50	45.46	45.44	45.39	45.48	
21	45.09	45.52	45.60	45.69	45.72	45.78	45.56	45.50	45.46	45.43	45.38	45.48	
22	45.09	45.50	45.58	45.77	45.78	45.75	45.55	45.50	45.46	45.43	45.38	45.45	
23	45.09	45.50	45.57	45.70	45.69	45.71	45.55	45.50	45.45	45.43	45.37	45.44	
24	45.09	45.50	45.55	45.70	45.67	45.69	45.55	45.50	45.45	45.43	45.36	45.44	
25	45.09	45.50	45.55	45.67	45.65	45.67	45.58	45.50	45.45	45.43	45.34	45.44	
26	45.09	45.49	45.71	45.64	45.64	45.67	45.65	45.50	45.45	45.43	45.33	45.44	
27	45.09	45.48	45.77	45.63	45.70	45.66	45.64	45.50	45.45	45.43	45.32	45.44	
28	45.09	45.48	45.68	45.62	45.66	45.74	45.64	45.49	45.45	45.43	45.30	45.43	
29	45.45	45.47	45.66	45.60	45.65	45.69	45.63	45.49	45.45	45.43		45.43	
30	45.58	45.47	45.63	45.61	45.64	45.67	45.61	45.49	45.44	45.43		45.44	
31		45.47		45.63	45.63		45.60		45.44	45.43		45.44	
Mean	45.12	45.51	45.60	45.73	45.77	45.79	45.60	45.53	45.47	45.44	45.39	45.44	
Max	45.58	45.58	45.80	45.95	46.31	46.15	45.66	45.60	45.49	45.44	45.42	45.48	46.31
Min	45.09	45.41	45.47	45.60	45.63	45.61	45.55	45.49	45.44	45.43	45.30	45.41	45.09

Annual Max Momentary Gage Height 47.29 m. (MSL.) , at 18.00 Hours, on Aug 3, 2008

Zero Gage at Bottom Elevation 45.09 m. (MSL.) , River Bed 45.22 m. (MSL.)

Left Bank Elevation 49.84 m. (MSL.) ,

Right Bank Elevation 49.83 m. (MSL.) , Drainage Are 4 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.38	1.55	0.32	0.32	0.20	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.91	2.05	0.26	0.30	0.20	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.49	3.06	0.26	0.30	0.20	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.43	1.25	0.22	0.28	0.18	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.04	0.38	0.73	0.22	0.26	0.16	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.02	0.36	0.55	0.76	0.24	0.16	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.55	0.55	0.88	0.28	0.16	0.00	0.00	0.00	0.00		
8	0.00	0.02	0.00	0.58	0.43	0.61	0.24	0.14	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.82	0.38	0.55	0.20	0.14	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	1.20	0.36	0.88	0.20	0.12	0.00	0.00	0.00	0.00		
11	0.00	0.08	0.70	0.79	0.55	1.10	0.18	0.10	0.00	0.00	0.00	0.00		
12	0.00	0.12	0.34	0.55	0.55	1.00	0.18	0.08	0.00	0.00	0.00	0.00		
13	0.00	0.08	0.22	0.46	0.79	0.55	0.16	0.06	0.00	0.00	0.00	0.00		
14	0.00	0.08	0.26	0.58	0.85	0.94	0.16	0.08	0.00	0.00	0.00	0.00		
15	0.00	0.10	0.28	0.64	0.76	2.25	0.14	0.06	0.00	0.00	0.00	0.00		
16	0.00	0.16	0.49	0.46	0.49	1.20	0.14	0.04	0.00	0.00	0.00	0.00		
17	0.00	0.12	0.40	1.25	0.43	1.65	0.12	0.04	0.00	0.00	0.00	0.00		
18	0.00	0.10	0.38	0.52	0.34	2.05	0.12	0.04	0.00	0.00	0.00	0.00		
19	0.00	0.08	0.28	0.43	0.46	1.35	0.12	0.00	0.00	0.00	0.00	0.00		
20	0.00	0.06	0.24	0.46	0.55	0.70	0.12	0.00	0.00	0.00	0.00	0.00		
21	0.00	0.04	0.20	0.38	0.46	0.64	0.12	0.00	0.00	0.00	0.00	0.00		
22	0.00	0.00	0.16	0.61	0.64	0.55	0.10	0.00	0.00	0.00	0.00	0.00		
23	0.00	0.00	0.14	0.40	0.38	0.43	0.10	0.00	0.00	0.00	0.00	0.00		
24	0.00	0.00	0.10	0.40	0.34	0.38	0.10	0.00	0.00	0.00	0.00	0.00		
25	0.00	0.00	0.10	0.34	0.30	0.34	0.16	0.00	0.00	0.00	0.00	0.00		
26	0.00	0.00	0.43	0.28	0.28	0.34	0.30	0.00	0.00	0.00	0.00	0.00		
27	0.00	0.00	0.61	0.26	0.40	0.32	0.28	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.00	0.36	0.24	0.32	0.52	0.28	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.00	0.32	0.20	0.30	0.38	0.26	0.00	0.00	0.00		0.00		
30	0.16	0.00	0.26	0.22	0.28	0.34	0.22	0.00	0.00	0.00		0.00		
31		0.00		0.26	0.26		0.20		0.00	0.00		0.00		
Total	0.16	1.04	6.33	15.83	20.64	21.99	6.18	2.16	0.00	0.00	0.00	0.00	74.33	CMSDAY
Mean	0.01	0.03	0.21	0.51	0.67	0.73	0.20	0.07	0.00	0.00	0.00	0.00	0.20	CMS
Max	0.16	0.16	0.70	1.25	3.06	2.25	0.32	0.20	0.00	0.00	0.00	0.00	3.06	CMS
Min	0.00	0.00	0.00	0.20	0.26	0.22	0.10	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.01	0.09	0.55	1.37	1.78	1.90	0.53	0.19	0.00	0.00	0.00	0.00	6.42	MCM

Momentary Peak 10.90 CMS, at 47.29 m. (MSL.), at 18.00 Hours, on Aug 3, 2008

Runoff Yield 50.91 Liters/Second/Square KM. Momentary Peak Yield 2725.00 Liters/Second/Square KM.

WATER YEAR : 2008

EAST COAST - GULF BASIN

Khlong Aeng at Ban Kho Lae , 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 Kho Lae **Amphoe** Bo Rai **Changwat** Trat

Drainge Area	58 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+31.250 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On right bank about 15 meters from the top staff gage. **Elevation** +36.568 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 mean of 5 readings
Period of Available Gage Records	1999 to date
Rating Operation	
Period of Rating	1999 to date
Rated by Float	-
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 18 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

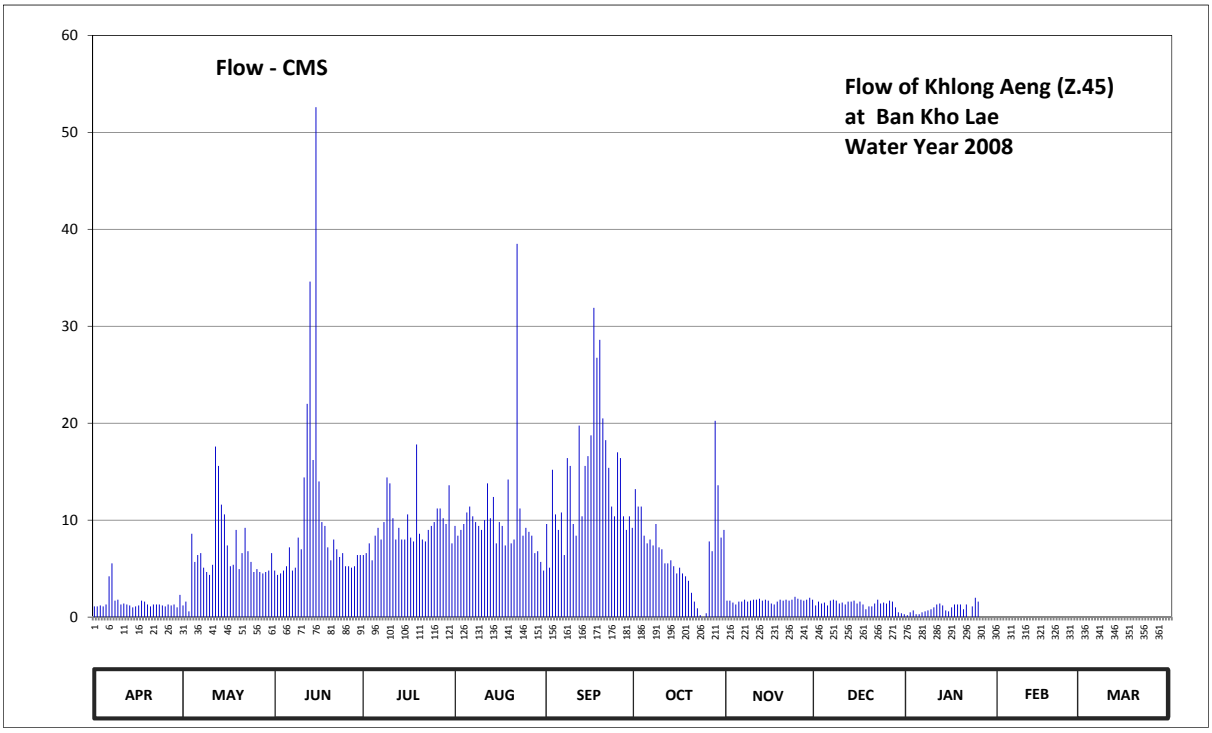
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.11	31.12	31.42	31.52	31.67	31.68	31.86	31.17	31.12	31.02	30.93	30.82	
2	31.11	31.16	31.39	31.53	31.62	31.44	31.77	31.17	31.16	31.05	30.93	30.89	
3	31.12	31.06	31.40	31.58	31.65	31.96	31.77	31.15	31.14	31.07	30.92	30.97	
4	31.11	31.63	31.42	31.49	31.68	31.73	31.62	31.13	31.15	31.03	30.92	30.99	
5	31.13	31.48	31.45	31.62	31.74	31.65	31.58	31.16	31.12	31.03	30.91	31.03	
6	31.38	31.52	31.56	31.66	31.77	31.74	31.60	31.16	31.17	31.05	30.90	30.90	
7	31.47	31.53	31.42	31.60	31.72	31.52	31.57	31.18	31.18	31.06	30.90	30.92	
8	31.17	31.44	31.44	31.69	31.69	32.02	31.68	31.16	31.17	31.07	30.88	30.87	
9	31.18	31.41	31.61	31.92	31.67	31.98	31.56	31.17	31.14	31.08	30.86	30.82	
10	31.13	31.39	31.55	31.89	31.65	31.68	31.55	31.18	31.15	31.10	30.85	30.79	
11	31.14	31.46	31.92	31.71	31.70	31.62	31.47	31.18	31.13	31.13	30.83	30.78	
12	31.13	32.08	32.26	31.60	31.89	32.17	31.47	31.19	31.16	31.14	30.82	30.78	
13	31.12	31.98	32.72	31.66	31.71	31.72	31.49	31.17	31.16	31.12	30.80	31.00	
14	31.10	31.78	32.01	31.60	31.82	31.98	31.45	31.18	31.17	31.07	30.79	31.00	
15	31.11	31.73	33.26	31.60	31.58	32.03	31.40	31.17	31.14	31.06	30.83	30.97	
16	31.12	31.57	31.90	31.73	31.69	32.13	31.44	31.14	31.16	31.10	30.82	30.97	
17	31.17	31.45	31.69	31.61	31.67	32.63	31.40	31.13	31.13	31.13	30.78	30.90	
18	31.16	31.46	31.67	31.59	31.57	32.45	31.38	31.16	31.08	31.13	30.83	30.98	
19	31.13	31.65	31.56	32.09	31.91	32.52	31.35	31.18	31.11	31.13	30.82	30.93	
20	31.11	31.43	31.49	31.63	31.58	32.20	31.25	31.17	31.11	31.08	30.81	30.93	
21	31.13	31.53	31.60	31.60	31.60	32.11	31.16	31.18	31.14	31.13	30.80	31.00	
22	31.13	31.66	31.55	31.59	32.85	31.97	31.09	31.17	31.18	30.99	30.77	31.02	
23	31.13	31.54	31.51	31.65	31.76	31.77	31.02	31.18	31.14	31.11	30.83	30.97	
24	31.12	31.48	31.53	31.67	31.62	31.72	31.00	31.21	31.15	31.20	30.82	30.99	
25	31.11	31.41	31.45	31.69	31.66	32.05	31.04	31.19	31.14	31.16	30.79	31.11	
26	31.13	31.43	31.45	31.76	31.64	32.02	31.59	31.18	31.17	30.92	30.82	31.10	
27	31.12	31.41	31.44	31.76	31.62	31.72	31.54	31.17	31.16	30.91	30.82	31.06	
28	31.13	31.40	31.45	31.71	31.53	31.65	32.19	31.18	31.10	30.94	30.83	31.06	
29	31.10	31.41	31.52	31.68	31.54	31.72	31.88	31.20	31.05	30.94		31.03	
30	31.23	31.42	31.52	31.88	31.48	31.66	31.61	31.18	31.04	30.94		31.01	
31		31.53		31.58	31.42		31.65		31.03	30.94		31.01	
Mean	31.15	31.50	31.67	31.67	31.70	31.91	31.50	31.17	31.13	31.06	30.84	30.95	
Max	31.47	32.08	33.26	32.09	32.85	32.63	32.19	31.21	31.18	31.20	30.93	31.11	33.26
Min	31.10	31.06	31.39	31.49	31.42	31.44	31.00	31.13	31.03	30.91	30.77	30.78	30.77

Annual Max Momentary Gage Height 34.15 m. (MSL.) , at 18.00 Hours, on Sep 18, 2008

Zero Gage at Bottom Elevation 31.25 m. (MSL.) , River Bed 30.39 m. (MSL.)

Left Bank Elevation 35.31 m. (MSL.) ,

Right Bank Elevation 35.31 m. (MSL.) , Drainage Are 58 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	1.20	4.80	6.40	9.40	9.60	13.20	1.70	1.20	0.20	0.00	0.00		
2	1.10	1.60	4.35	6.60	8.40	5.10	11.40	1.70	1.60	0.50	0.00	0.00		
3	1.20	0.60	4.50	7.60	9.00	15.20	11.40	1.50	1.40	0.70	0.00	0.00		
4	1.10	8.60	4.80	5.85	9.60	10.60	8.40	1.30	1.50	0.30	0.00	0.00		
5	1.30	5.70	5.25	8.40	10.80	9.00	7.60	1.60	1.20	0.30	0.00	0.00		
6	4.20	6.40	7.20	9.20	11.40	10.80	8.00	1.60	1.70	0.50	0.00	0.00		
7	5.55	6.60	4.80	8.00	10.40	6.40	7.40	1.80	1.80	0.60	0.00	0.00		
8	1.70	5.10	5.10	9.80	9.80	16.40	9.60	1.60	1.70	0.70	0.00	0.00		
9	1.80	4.65	8.20	14.40	9.40	15.60	7.20	1.70	1.40	0.80	0.00	0.00		
10	1.30	4.35	7.00	13.80	9.00	9.60	7.00	1.80	1.50	1.00	0.00	0.00		
11	1.40	5.40	14.40	10.20	10.00	8.40	5.55	1.80	1.30	1.30	0.00	0.00		
12	1.30	17.60	22.00	8.00	13.80	19.75	5.55	1.90	1.60	1.40	0.00	0.00		
13	1.20	15.60	34.60	9.20	10.20	10.40	5.85	1.70	1.60	1.20	0.00	0.00		
14	1.00	11.60	16.20	8.00	12.40	15.60	5.25	1.80	1.70	0.70	0.00	0.00		
15	1.10	10.60	52.60	8.00	7.60	16.60	4.50	1.70	1.40	0.60	0.00	0.00		
16	1.20	7.40	14.00	10.60	9.80	18.75	5.10	1.40	1.60	1.00	0.00	0.00		
17	1.70	5.25	9.80	8.20	9.40	31.90	4.50	1.30	1.30	1.30	0.00	0.00		
18	1.60	5.40	9.40	7.80	7.40	26.75	4.20	1.60	0.80	1.30	0.00	0.00		
19	1.30	9.00	7.20	17.80	14.20	28.60	3.75	1.80	1.10	1.30	0.00	0.00		
20	1.10	4.95	5.85	8.60	7.60	20.50	2.50	1.70	1.10	0.80	0.00	0.00		
21	1.30	6.60	8.00	8.00	8.00	18.25	1.60	1.80	1.40	1.30	0.00	0.00		
22	1.30	9.20	7.00	7.80	38.50	15.40	0.90	1.70	1.80	0.00	0.00	0.00		
23	1.30	6.80	6.20	9.00	11.20	11.40	0.20	1.80	1.40	1.10	0.00	0.00		
24	1.20	5.70	6.60	9.40	8.40	10.40	0.00	2.10	1.50	2.00	0.00	0.00		
25	1.10	4.65	5.25	9.80	9.20	17.00	0.40	1.90	1.40	1.60	0.00	0.00		
26	1.30	4.95	5.25	11.20	8.80	16.40	7.80	1.80	1.70	0.00	0.00	0.00		
27	1.20	4.65	5.10	11.20	8.40	10.40	6.80	1.70	1.60	0.00	0.00	0.00		
28	1.30	4.50	5.25	10.20	6.60	9.00	20.25	1.80	1.00	0.00	0.00	0.00		
29	1.00	4.65	6.40	9.60	6.80	10.40	13.60	2.00	0.50	0.00		0.00		
30	2.30	4.80	6.40	13.60	5.70	9.20	8.20	1.80	0.40	0.00		0.00		
31		6.60		7.60	4.80		9.00		0.30	0.00		0.00		
Total	46.55	200.70	303.50	293.85	316.00	433.40	206.70	51.40	41.50	22.50	0.00	0.00	1916.10	CMSDAY
Mean	1.55	6.47	10.12	9.48	10.19	14.45	6.67	1.71	1.34	0.73	0.00	0.00	5.25	CMS
Max	5.55	17.60	52.60	17.80	38.50	31.90	20.25	2.10	1.80	2.00	0.00	0.00	52.60	CMS
Min	1.00	0.60	4.35	5.85	4.80	5.10	0.00	1.30	0.30	0.00	0.00	0.00	0.00	CMS
Runoff	4.02	17.34	26.22	25.39	27.30	37.45	17.86	4.44	3.59	1.94	0.00	0.00	165.55	MCM

Momentary Peak 85.58 CMS, at 34.15 m. (MSL.), at 18.00 Hours, on Sep 18, 2008

Runoff Yield 90.51 Liters/Second/Square KM. Momentary Peak Yield 1475.52 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	92 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+20.128 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 fair. Stage-discharge relation defined by 16 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

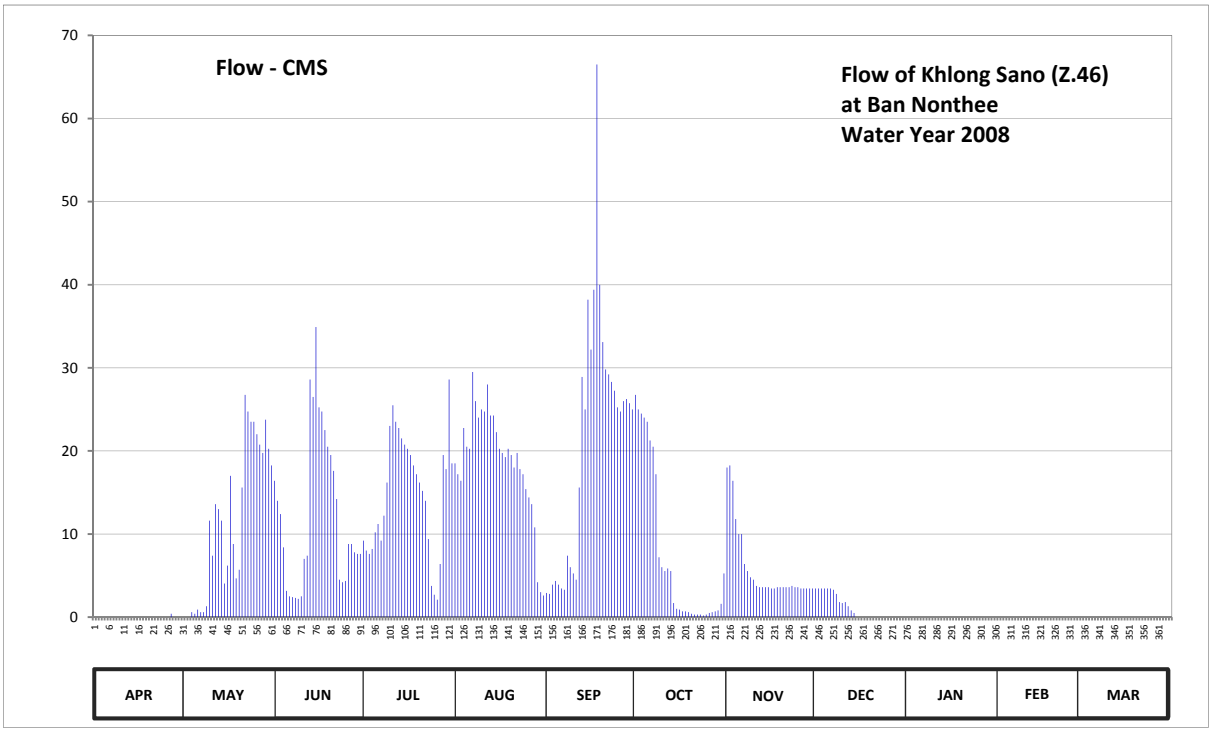
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	19.74	19.77	20.82	20.46	20.92	20.09	21.25	20.90	20.13	19.83	19.83	19.96	
2	19.76	19.79	20.70	20.40	20.86	20.08	21.18	20.91	20.13	19.83	19.88	19.94	
3	19.79	19.79	20.62	20.38	20.82	20.16	21.16	20.82	20.13	19.83	20.05	19.91	
4	19.75	19.86	20.42	20.41	21.09	20.19	21.14	20.59	20.13	19.82	20.06	19.88	
5	19.74	19.84	20.11	20.51	21.00	20.16	21.12	20.50	20.13	19.82	20.03	19.86	
6	19.74	19.89	20.05	20.56	20.99	20.13	21.03	20.50	20.13	19.82	20.04	19.79	
7	19.73	19.86	20.04	20.46	21.35	20.12	21.00	20.32	20.12	19.82	20.06	19.77	
8	19.74	19.86	20.03	20.61	21.22	20.37	20.86	20.27	20.08	19.82	20.07	19.76	
9	19.77	19.93	20.02	20.81	21.14	20.30	20.36	20.22	19.98	19.84	20.08	19.70	
10	19.70	20.58	20.05	21.10	21.18	20.25	20.30	20.20	19.97	19.84	20.00	19.67	
11	19.68	20.37	20.35	21.20	21.17	20.20	20.27	20.15	19.98	19.83	19.85	19.65	
12	19.66	20.68	20.37	21.12	21.30	20.78	20.29	20.14	19.93	19.82	19.84	19.64	
13	19.65	20.65	21.32	21.09	21.15	21.33	20.27	20.14	19.88	19.82	19.84	19.65	
14	19.64	20.58	21.24	21.04	21.15	21.18	19.97	20.14	19.85	19.82	19.84	19.73	
15	19.64	20.17	21.53	21.01	21.07	21.64	19.90	20.14	19.80	19.82	19.83	19.80	
16	19.63	20.31	21.19	20.99	20.99	21.44	19.89	20.13	19.79	19.82	19.83	19.78	
17	19.67	20.85	21.17	20.96	20.97	21.68	19.87	20.13	19.83	19.81	19.83	19.77	
18	19.73	20.44	21.08	20.91	20.95	22.52	19.87	20.14	19.87	19.81	19.84	19.81	
19	19.79	20.21	21.00	20.86	20.99	21.70	19.86	20.14	19.85	19.81	19.84	20.02	
20	19.78	20.28	20.96	20.81	20.96	21.47	19.84	20.14	19.84	19.82	19.85	19.91	
21	19.78	20.78	20.88	20.76	20.90	21.36	19.83	20.14	19.83	19.82	19.94	19.89	
22	19.78	21.25	20.71	20.70	20.97	21.34	19.83	20.14	19.82	19.82	20.01	19.88	
23	19.77	21.17	20.20	20.47	20.89	21.31	19.83	20.15	19.81	19.83	20.00	19.87	
24	19.74	21.12	20.18	20.15	20.86	21.27	19.82	20.14	19.81	19.83	19.99	19.87	
25	19.73	21.12	20.19	20.07	20.77	21.19	19.83	20.14	19.81	19.82	19.98	19.86	
26	19.77	21.06	20.44	20.01	20.72	21.17	19.85	20.13	19.81	19.81	19.98	19.85	
27	19.84	21.01	20.44	20.32	20.68	21.22	19.86	20.13	19.82	19.81	19.97	19.84	
28	19.80	20.97	20.39	20.96	20.54	21.23	19.87	20.13	19.82	19.81	19.97	19.83	
29	19.78	21.13	20.38	20.89	20.18	21.21	19.88	20.13	19.82	19.81		19.83	
30	19.77	20.99	20.38	21.32	20.10	21.18	19.96	20.13	19.83	19.82		19.82	
31		20.91		20.92	20.06		20.25		19.83	19.82		19.82	
Mean	19.74	20.49	20.58	20.72	20.90	20.94	20.27	20.27	19.92	19.82	19.94	19.82	
Max	19.84	21.25	21.53	21.32	21.35	22.52	21.25	20.91	20.13	19.84	20.08	20.02	22.52
Min	19.63	19.77	20.02	20.01	20.06	20.08	19.82	20.13	19.79	19.81	19.83	19.64	19.63

Annual Max Momentary Gage Height 23.90 m. (MSL.) , at 15.00 Hours, on Sep 18, 2008

Zero Gage at Bottom Elevation 20.13 m. (MSL.) , River Bed 19.23 m. (MSL)

Left Bank Elevation 28.10 m. (MSL.) ,

Right Bank Elevation 27.84 m. (MSL.) , Drainage Are 92 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	16.40	9.20	18.50	2.90	26.75	18.00	3.45	0.00	0.00	0.00		
2	0.00	0.00	14.00	8.00	17.20	2.80	25.00	18.25	3.45	0.00	0.00	0.00		
3	0.00	0.00	12.40	7.60	16.40	3.90	24.50	16.40	3.45	0.00	0.00	0.00		
4	0.00	0.60	8.40	8.20	22.75	4.35	24.00	11.80	3.45	0.00	0.00	0.00		
5	0.00	0.40	3.15	10.20	20.50	3.90	23.50	10.00	3.45	0.00	0.00	0.00		
6	0.00	0.90	2.50	11.20	20.25	3.45	21.25	10.00	3.45	0.00	0.00	0.00		
7	0.00	0.60	2.40	9.20	29.50	3.30	20.50	6.40	3.30	0.00	0.00	0.00		
8	0.00	0.60	2.30	12.20	26.00	7.40	17.20	5.55	2.80	0.00	0.00	0.00		
9	0.00	1.30	2.20	16.20	24.00	6.00	7.20	4.80	1.80	0.00	0.00	0.00		
10	0.00	11.60	2.50	23.00	25.00	5.25	6.00	4.50	1.70	0.00	0.00	0.00		
11	0.00	7.40	7.00	25.50	24.75	4.50	5.55	3.75	1.80	0.00	0.00	0.00		
12	0.00	13.60	7.40	23.50	28.00	15.60	5.85	3.60	1.30	0.00	0.00	0.00		
13	0.00	13.00	28.60	22.75	24.25	28.90	5.55	3.60	0.80	0.00	0.00	0.00		
14	0.00	11.60	26.50	21.50	24.25	25.00	1.70	3.60	0.50	0.00	0.00	0.00		
15	0.00	4.05	34.90	20.75	22.25	38.20	1.00	3.60	0.00	0.00	0.00	0.00		
16	0.00	6.20	25.25	20.25	20.25	32.20	0.90	3.45	0.00	0.00	0.00	0.00		
17	0.00	17.00	24.75	19.50	19.75	39.40	0.70	3.45	0.00	0.00	0.00	0.00		
18	0.00	8.80	22.50	18.25	19.25	66.50	0.70	3.60	0.00	0.00	0.00	0.00		
19	0.00	4.65	20.50	17.20	20.25	40.00	0.60	3.60	0.00	0.00	0.00	0.00		
20	0.00	5.70	19.50	16.20	19.50	33.10	0.40	3.60	0.00	0.00	0.00	0.00		
21	0.00	15.60	17.60	15.20	18.00	29.80	0.30	3.60	0.00	0.00	0.00	0.00		
22	0.00	26.75	14.20	14.00	19.75	29.20	0.30	3.60	0.00	0.00	0.00	0.00		
23	0.00	24.75	4.50	9.40	17.80	28.30	0.30	3.75	0.00	0.00	0.00	0.00		
24	0.00	23.50	4.20	3.75	17.20	27.25	0.20	3.60	0.00	0.00	0.00	0.00		
25	0.00	23.50	4.35	2.70	15.40	25.25	0.30	3.60	0.00	0.00	0.00	0.00		
26	0.00	22.00	8.80	2.10	14.40	24.75	0.50	3.45	0.00	0.00	0.00	0.00		
27	0.40	20.75	8.80	6.40	13.60	26.00	0.60	3.45	0.00	0.00	0.00	0.00		
28	0.00	19.75	7.80	19.50	10.80	26.25	0.70	3.45	0.00	0.00	0.00	0.00		
29	0.00	23.75	7.60	17.80	4.20	25.75	0.80	3.45	0.00	0.00		0.00		
30	0.00	20.25	7.60	28.60	3.00	25.00	1.60	3.45	0.00	0.00		0.00		
31		18.25		18.50	2.60		5.25		0.00	0.00		0.00		
Total	0.40	346.85	368.60	458.35	579.35	634.20	229.70	176.95	34.70	0.00	0.00	0.00	2829.10	CMSDAY
Mean	0.01	11.19	12.29	14.79	18.69	21.14	7.41	5.90	1.12	0.00	0.00	0.00	7.75	CMS
Max	0.40	26.75	34.90	28.60	29.50	66.50	26.75	18.25	3.45	0.00	0.00	0.00	66.50	CMS
Min	0.00	0.00	2.20	2.10	2.60	2.80	0.20	3.45	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.03	29.97	31.85	39.60	50.06	54.79	19.85	15.29	3.00	0.00	0.00	0.00	244.43	MCM

Momentary Peak 138.00 CMS, at 23.90 m. (MSL), at 15.00 Hours, on Sep 18, 2008

Runoff Yield 83.97 Liters/Second/Square KM. Momentary Peak Yield 1494.96 Liters/Second/Square KM.

WATER YEAR : 2008

EAST COAST - GULF BASIN

Khlong Chanthi at Ban Khlong Khwang , Trat (Z.47)

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

Drainge Area	27 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+7.846 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank about 20 meters from the top staff gage. **Elevation** +12.782 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 mean of 5 readings
Period of Available Gage Records	1997 to date
Rating Operation	
Period of Rating	2000 to date
Rated by Float	-
Rated by Current Meter	2000 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 15 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

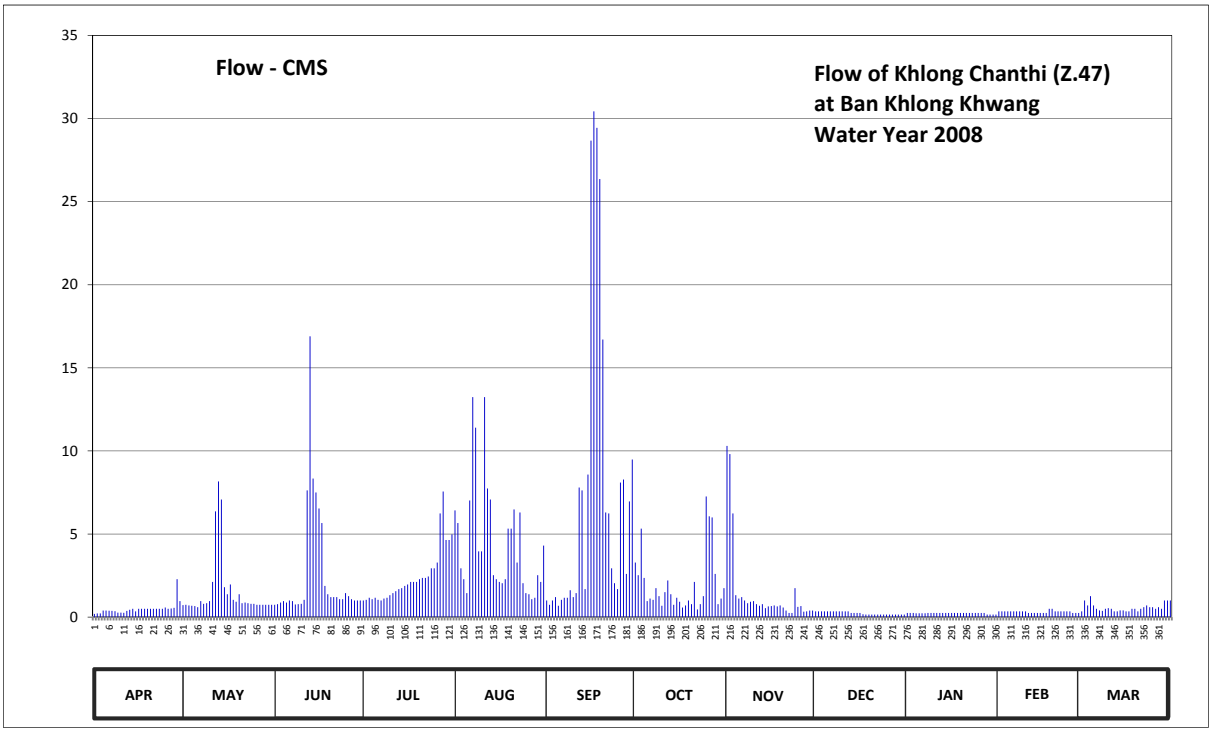
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.59	8.96	8.97	9.05	9.47	9.05	9.32	10.10	8.75	8.65	8.75	8.75	
2	8.62	8.97	8.99	9.06	9.39	8.97	9.29	10.03	8.75	8.65	8.75	9.05	
3	8.62	8.95	9.02	9.09	9.31	9.05	9.38	9.44	8.75	8.65	8.75	8.95	
4	8.79	8.94	9.04	9.07	9.26	9.10	9.27	9.12	8.75	8.63	8.75	9.11	
5	8.79	8.93	9.02	9.09	9.14	8.94	9.04	9.08	8.75	8.63	8.75	8.95	
6	8.78	8.90	9.05	9.06	9.57	9.06	9.08	9.10	8.75	8.63	8.75	8.85	
7	8.77	9.04	9.04	9.05	10.48	9.09	9.06	9.05	8.75	8.63	8.75	8.80	
8	8.76	9.00	8.98	9.08	10.25	9.09	9.19	9.01	8.75	8.65	8.75	8.77	
9	8.67	9.01	8.99	9.09	9.34	9.17	9.11	9.03	8.75	8.65	8.75	8.85	
10	8.67	9.04	9.00	9.12	9.34	9.10	8.94	9.04	8.75	8.65	8.75	8.87	
11	8.66	9.24	9.06	9.14	10.48	9.14	9.15	8.99	8.75	8.65	8.65	8.85	
12	8.77	9.46	9.67	9.16	9.69	9.70	9.25	8.94	8.75	8.65	8.65	8.75	
13	8.82	9.76	10.88	9.18	9.58	9.67	9.13	8.99	8.65	8.65	8.65	8.75	
14	8.85	9.58	9.79	9.19	9.29	9.18	8.97	8.87	8.65	8.65	8.65	8.80	
15	8.75	9.20	9.65	9.21	9.26	9.83	9.09	8.92	8.65	8.65	8.65	8.80	
16	8.85	9.13	9.49	9.22	9.24	11.97	9.03	8.93	8.65	8.65	8.65	8.75	
17	8.85	9.22	9.39	9.24	9.23	12.13	8.89	8.95	8.57	8.65	8.65	8.75	
18	8.85	9.06	9.21	9.24	9.26	12.04	8.95	8.92	8.55	8.65	8.85	8.85	
19	8.85	9.03	9.13	9.24	9.38	11.76	9.05	8.95	8.55	8.65	8.85	8.85	
20	8.85	9.13	9.10	9.26	9.38	10.86	8.99	8.89	8.55	8.65	8.75	8.75	
21	8.85	9.01	9.10	9.27	9.48	9.45	9.24	8.79	8.55	8.65	8.75	8.85	
22	8.85	9.02	9.10	9.27	9.32	9.44	8.83	8.65	8.55	8.65	8.75	8.90	
23	8.85	9.01	9.07	9.28	9.45	9.31	8.99	8.65	8.55	8.65	8.75	8.95	
24	8.85	9.00	9.07	9.31	9.23	9.23	9.11	9.19	8.55	8.65	8.75	8.90	
25	8.89	9.00	9.14	9.31	9.14	9.18	9.61	8.91	8.55	8.65	8.75	8.90	
26	8.85	8.97	9.11	9.32	9.13	9.75	9.41	8.93	8.55	8.65	8.65	8.85	
27	8.86	8.97	9.07	9.44	9.07	9.78	9.40	8.73	8.55	8.65	8.65	8.90	
28	8.88	8.97	9.05	9.66	9.09	9.30	9.30	8.75	8.55	8.55	8.65	8.85	
29	9.26	8.97	9.05	9.36	9.29	9.56	8.99	8.79	8.55	8.55		9.05	
30	9.04	8.97	9.05	9.36	9.24	9.98	9.08	8.79	8.55	8.55		9.05	
31		8.97		9.37	9.35		9.19		8.55	8.55		9.05	
Mean	8.81	9.08	9.21	9.22	9.42	9.73	9.14	9.02	8.64	8.63	8.72	8.87	
Max	9.26	9.76	10.88	9.66	10.48	12.13	9.61	10.10	8.75	8.65	8.85	9.11	12.13
Min	8.59	8.90	8.97	9.05	9.07	8.94	8.83	8.65	8.55	8.55	8.65	8.75	8.55

Annual Max Momentary Gage Height 12.74 m. (MSL.) , at 18.00 Hours, on Sep 17, 2008

Zero Gage at Bottom Elevation 7.85 m. (MSL.) , River Bed 8.29 m. (MSL.)

Left Bank Elevation 12.80 m. (MSL.) ,

Right Bank Elevation 12.76 m. (MSL.) , Drainage Are 27 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.19	0.72	0.74	1.00	6.42	1.00	3.28	10.30	0.35	0.25	0.35	0.35		
2	0.22	0.74	0.78	1.04	5.66	0.74	2.52	9.81	0.35	0.25	0.35	1.00		
3	0.22	0.70	0.88	1.16	2.94	1.00	5.32	6.24	0.35	0.25	0.35	0.70		
4	0.39	0.68	0.96	1.08	2.28	1.20	2.36	1.32	0.35	0.23	0.35	1.26		
5	0.39	0.66	0.88	1.16	1.44	0.68	0.96	1.12	0.35	0.23	0.35	0.70		
6	0.38	0.60	1.00	1.04	7.02	1.04	1.12	1.20	0.35	0.23	0.35	0.50		
7	0.37	0.96	0.96	1.00	13.24	1.16	1.04	1.00	0.35	0.23	0.35	0.40		
8	0.36	0.80	0.76	1.12	11.40	1.16	1.74	0.84	0.35	0.25	0.35	0.37		
9	0.27	0.84	0.78	1.16	3.96	1.62	1.26	0.92	0.35	0.25	0.35	0.50		
10	0.27	0.96	0.80	1.32	3.96	1.20	0.68	0.96	0.35	0.25	0.35	0.54		
11	0.26	2.12	1.04	1.44	13.24	1.44	1.50	0.78	0.35	0.25	0.25	0.50		
12	0.37	6.36	7.62	1.56	7.74	7.80	2.20	0.68	0.35	0.25	0.25	0.35		
13	0.44	8.16	16.90	1.68	7.08	7.62	1.38	0.78	0.25	0.25	0.25	0.35		
14	0.50	7.08	8.34	1.74	2.52	1.68	0.74	0.54	0.25	0.25	0.25	0.40		
15	0.35	1.80	7.50	1.88	2.28	8.58	1.16	0.64	0.25	0.25	0.25	0.40		
16	0.50	1.38	6.54	1.96	2.12	28.67	0.92	0.66	0.25	0.25	0.25	0.35		
17	0.50	1.96	5.66	2.12	2.04	30.43	0.58	0.70	0.17	0.25	0.25	0.35		
18	0.50	1.04	1.88	2.12	2.28	29.44	0.70	0.64	0.15	0.25	0.50	0.50		
19	0.50	0.92	1.38	2.12	5.32	26.36	1.00	0.70	0.15	0.25	0.50	0.50		
20	0.50	1.38	1.20	2.28	5.32	16.70	0.78	0.58	0.15	0.25	0.35	0.35		
21	0.50	0.84	1.20	2.36	6.48	6.30	2.12	0.39	0.15	0.25	0.35	0.50		
22	0.50	0.88	1.20	2.36	3.28	6.24	0.46	0.25	0.15	0.25	0.35	0.60		
23	0.50	0.84	1.08	2.44	6.30	2.94	0.78	0.25	0.15	0.25	0.35	0.70		
24	0.50	0.80	1.08	2.94	2.04	2.04	1.26	1.74	0.15	0.25	0.35	0.60		
25	0.58	0.80	1.44	2.94	1.44	1.68	7.26	0.62	0.15	0.25	0.35	0.60		
26	0.50	0.74	1.26	3.28	1.38	8.10	6.06	0.66	0.15	0.25	0.25	0.50		
27	0.52	0.74	1.08	6.24	1.08	8.28	6.00	0.33	0.15	0.25	0.25	0.60		
28	0.56	0.74	1.00	7.56	1.16	2.60	2.60	0.35	0.15	0.15	0.25	0.50		
29	2.28	0.74	1.00	4.64	2.52	6.96	0.78	0.39	0.15	0.15		1.00		
30	0.96	0.74	1.00	4.64	2.12	9.48	1.12	0.39	0.15	0.15		1.00		
31		0.74		4.98	4.30		1.74		0.15	0.15		1.00		
Total	14.88	48.46	77.94	74.36	140.36	224.14	61.42	45.78	7.47	7.27	9.10	17.97	729.15	CMSDAY
Mean	0.50	1.56	2.60	2.40	4.53	7.47	1.98	1.53	0.24	0.23	0.32	0.58	2.00	CMS
Max	2.28	8.16	16.90	7.56	13.24	30.43	7.26	10.30	0.35	0.25	0.50	1.26	30.43	CMS
Min	0.19	0.60	0.74	1.00	1.08	0.68	0.46	0.25	0.15	0.15	0.25	0.35	0.15	CMS
Runoff	1.29	4.19	6.73	6.42	12.13	19.37	5.31	3.96	0.65	0.63	0.79	1.55	63.00	MCM

Momentary Peak 37.82 CMS, at 12.74 m. (MSL.), at 18.00 Hours, on Sep 17, 2008

Runoff Yield 73.99 Liters/Second/Square KM. Momentary Peak Yield 1400.74 Liters/Second/Square KM.

WATER YEAR : 2008

EAST COAST - GULF BASIN

Khlong Pran Bun at Ban Khlong Yai Tai , Chanthaburi (Z.52)

Lat 13 - 05 - 10 N Long 101 - 56 - 25 E

Location : on left bank at Ban Khlong Yai Tai.

Ban Khlong Yai Tai **Amphoe** Kaeng Hang Maeo **Changwat** Chanthaburi

Drainge Area	60 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+37.740 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the abutment of the bridge. **Elevation** +42.415 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 mean of 5 readings
Period of Available Gage Records	2001 to date
Rating Operation	
Period of Rating	2001 to date
Rated by Float	-
Rated by Current Meter	2001 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 9 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

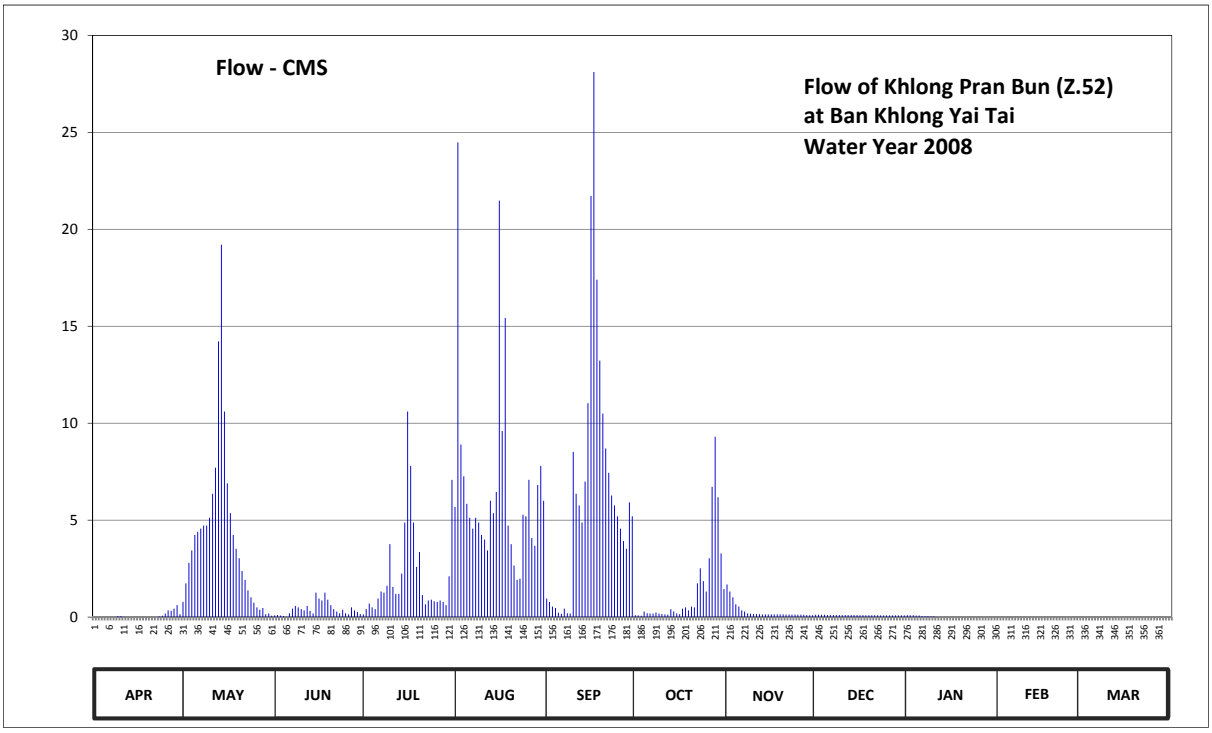
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.74	38.77	38.49	38.54	39.46	38.81	38.50	38.93	38.52	38.50	38.28	37.93	
2	37.74	38.94	38.51	38.67	41.19	38.77	38.49	38.87	38.52	38.50	38.28	37.93	
3	37.74	39.10	38.48	38.75	39.82	38.71	38.47	38.82	38.52	38.50	38.28	37.93	
4	37.74	39.18	38.46	38.70	39.64	38.69	38.63	38.74	38.52	38.48	38.41	37.93	
5	37.74	39.28	38.42	38.67	39.48	38.61	38.60	38.71	38.51	38.48	38.41	37.93	
6	37.74	39.30	38.60	38.81	39.39	38.57	38.58	38.65	38.51	38.45	38.37	37.93	
7	37.74	39.32	38.68	38.87	39.32	38.68	38.58	38.63	38.51	38.45	38.37	37.93	
8	37.74	39.34	38.72	38.86	39.39	38.60	38.61	38.59	38.51	38.45	38.32	37.93	
9	38.46	39.34	38.70	38.92	39.36	38.58	38.58	38.57	38.51	38.44	38.30	37.93	
10	38.45	39.39	38.67	39.22	39.28	39.78	38.56	38.56	38.51	38.44	38.23	37.93	
11	38.42	39.54	38.65	38.91	39.25	39.54	38.54	38.56	38.51	38.41	38.14	37.93	
12	38.40	39.69	38.72	38.85	39.18	39.47	38.53	38.55	38.51	38.38	38.14	37.93	
13	38.38	40.32	38.64	38.85	39.50	39.36	38.67	38.54	38.51	38.38	38.08	37.93	
14	38.35	40.75	38.59	39.02	39.42	39.61	38.63	38.54	38.51	38.35	38.08	37.93	
15	38.34	39.99	38.86	39.36	39.55	40.03	38.59	38.54	38.51	38.35	38.05	37.93	
16	38.33	39.60	38.81	39.99	40.94	40.96	38.55	38.54	38.50	38.32	38.03	37.93	
17	38.32	39.42	38.79	39.70	39.89	41.47	38.68	38.54	38.50	38.28	38.03	37.93	
18	38.31	39.28	38.86	39.36	40.43	40.60	38.70	38.54	38.50	38.28	37.99	37.93	
19	38.35	39.19	38.80	39.07	39.34	40.23	38.65	38.54	38.50	38.25	37.99	37.93	
20	38.34	39.13	38.73	39.17	39.22	39.98	38.71	38.54	38.50	38.25	37.99	37.93	
21	38.33	39.04	38.67	38.84	39.08	39.80	38.70	38.53	38.50	38.25	37.94	38.05	
22	38.36	38.97	38.63	38.74	38.97	39.66	38.94	38.53	38.50	38.25	37.94	38.05	
23	38.43	38.88	38.60	38.79	38.98	39.53	39.06	38.53	38.49	38.25	37.94	38.05	
24	38.47	38.82	38.66	38.80	39.41	39.47	38.96	38.53	38.49	38.24	37.93	38.05	
25	38.58	38.76	38.60	38.78	39.40	39.40	38.87	38.52	38.49	38.24	37.93	38.03	
26	38.65	38.70	38.54	38.77	39.62	39.32	39.13	38.52	38.49	38.24	37.93	38.03	
27	38.64	38.66	38.70	38.79	39.26	39.24	39.58	38.52	38.49	38.24	37.93	38.03	
28	38.68	38.69	38.65	38.77	39.21	39.19	39.86	38.51	38.49	38.24	37.93	38.03	
29	38.73	38.55	38.62	38.73	39.59	39.49	39.52	38.50	38.49	38.24		38.03	
30	38.55	38.59	38.56	39.00	39.70	39.40	39.16	38.50	38.49	38.24		38.03	
31		38.47		39.62	39.50		38.89		38.49	38.24		38.03	
Mean	38.26	39.19	38.65	38.97	39.54	39.45	38.79	38.59	38.50	38.34	38.12	37.97	
Max	38.73	40.75	38.86	39.99	41.19	41.47	39.86	38.93	38.52	38.50	38.41	38.05	41.47
Min	37.74	38.47	38.42	38.54	38.97	38.57	38.47	38.50	38.49	38.24	37.93	37.93	37.74

Annual Max Momentary Gage Height 41.66 m. (MSL.) , at 18.00 Hours, on Sep 17, 2008

Zero Gage at Bottom Elevation 37.74 m. (MSL.) , River Bed 38.38 m. (MSL.)

Left Bank Elevation 43.13 m. (MSL.) ,

Right Bank Elevation 43.16 m. (MSL.) , Drainage Are 60 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.78	0.09	0.14	5.68	0.96	0.10	1.68	0.12	0.10	0.00	0.00		
2	0.00	1.74	0.11	0.41	24.48	0.78	0.09	1.32	0.12	0.10	0.00	0.00		
3	0.00	2.80	0.08	0.70	8.90	0.54	0.07	1.02	0.12	0.10	0.00	0.00		
4	0.00	3.44	0.06	0.50	7.26	0.47	0.29	0.66	0.12	0.08	0.01	0.00		
5	0.00	4.24	0.02	0.41	5.84	0.23	0.20	0.54	0.11	0.08	0.01	0.00		
6	0.00	4.40	0.20	0.96	5.12	0.17	0.18	0.35	0.11	0.05	0.00	0.00		
7	0.00	4.56	0.44	1.32	4.56	0.44	0.18	0.29	0.11	0.05	0.00	0.00		
8	0.00	4.72	0.58	1.26	5.12	0.20	0.23	0.19	0.11	0.05	0.00	0.00		
9	0.06	4.72	0.50	1.62	4.88	0.18	0.18	0.17	0.11	0.04	0.00	0.00		
10	0.05	5.12	0.41	3.76	4.24	8.52	0.16	0.16	0.11	0.04	0.00	0.00		
11	0.02	6.36	0.35	1.56	4.00	6.36	0.14	0.16	0.11	0.01	0.00	0.00		
12	0.00	7.71	0.58	1.20	3.44	5.76	0.13	0.15	0.11	0.00	0.00	0.00		
13	0.00	14.22	0.32	1.20	6.00	4.88	0.41	0.14	0.11	0.00	0.00	0.00		
14	0.00	19.20	0.19	2.24	5.36	6.99	0.29	0.14	0.11	0.00	0.00	0.00		
15	0.00	10.60	1.26	4.88	6.45	11.03	0.19	0.14	0.11	0.00	0.00	0.00		
16	0.00	6.90	0.96	10.60	21.48	21.72	0.15	0.14	0.10	0.00	0.00	0.00		
17	0.00	5.36	0.86	7.80	9.60	28.11	0.44	0.14	0.10	0.00	0.00	0.00		
18	0.00	4.24	1.26	4.88	15.43	17.40	0.50	0.14	0.10	0.00	0.00	0.00		
19	0.00	3.52	0.90	2.59	4.72	13.23	0.35	0.14	0.10	0.00	0.00	0.00		
20	0.00	3.04	0.62	3.36	3.76	10.50	0.54	0.14	0.10	0.00	0.00	0.00		
21	0.00	2.38	0.41	1.14	2.66	8.70	0.50	0.13	0.10	0.00	0.00	0.00		
22	0.00	1.92	0.29	0.66	1.92	7.44	1.74	0.13	0.10	0.00	0.00	0.00		
23	0.03	1.38	0.20	0.86	1.98	6.27	2.52	0.13	0.09	0.00	0.00	0.00		
24	0.07	1.02	0.38	0.90	5.28	5.76	1.86	0.13	0.09	0.00	0.00	0.00		
25	0.18	0.74	0.20	0.82	5.20	5.20	1.32	0.12	0.09	0.00	0.00	0.00		
26	0.35	0.50	0.14	0.78	7.08	4.56	3.04	0.12	0.09	0.00	0.00	0.00		
27	0.32	0.38	0.50	0.86	4.08	3.92	6.72	0.12	0.09	0.00	0.00	0.00		
28	0.44	0.47	0.35	0.78	3.68	3.52	9.30	0.11	0.09	0.00	0.00	0.00		
29	0.62	0.15	0.26	0.62	6.81	5.92	6.18	0.10	0.09	0.00		0.00		
30	0.15	0.19	0.16	2.10	7.80	5.20	3.28	0.10	0.09	0.00		0.00		
31		0.07		7.08	6.00		1.44		0.09	0.00		0.00		
Total	2.29	126.87	12.68	67.99	208.81	194.96	42.72	9.00	3.20	0.70	0.02	0.00	669.24	CMSDAY
Mean	0.08	4.09	0.42	2.19	6.74	6.50	1.38	0.30	0.10	0.02	0.00	0.00	1.83	CMS
Max	0.62	19.20	1.26	10.60	24.48	28.11	9.30	1.68	0.12	0.10	0.01	0.00	28.11	CMS
Min	0.00	0.07	0.02	0.14	1.92	0.17	0.07	0.10	0.09	0.00	0.00	0.00	0.00	CMS
Runoff	0.20	10.96	1.10	5.87	18.04	16.84	3.69	0.78	0.28	0.06	0.00	0.00	57.82	MCM

Momentary Peak 30.58 CMS, at 41.66 m. (MSL.), at 18.00 Hours, on Sep 17, 2008

Runoff Yield 30.56 Liters/Second/Square KM. Momentary Peak Yield 509.67 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 Float	-
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 10 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

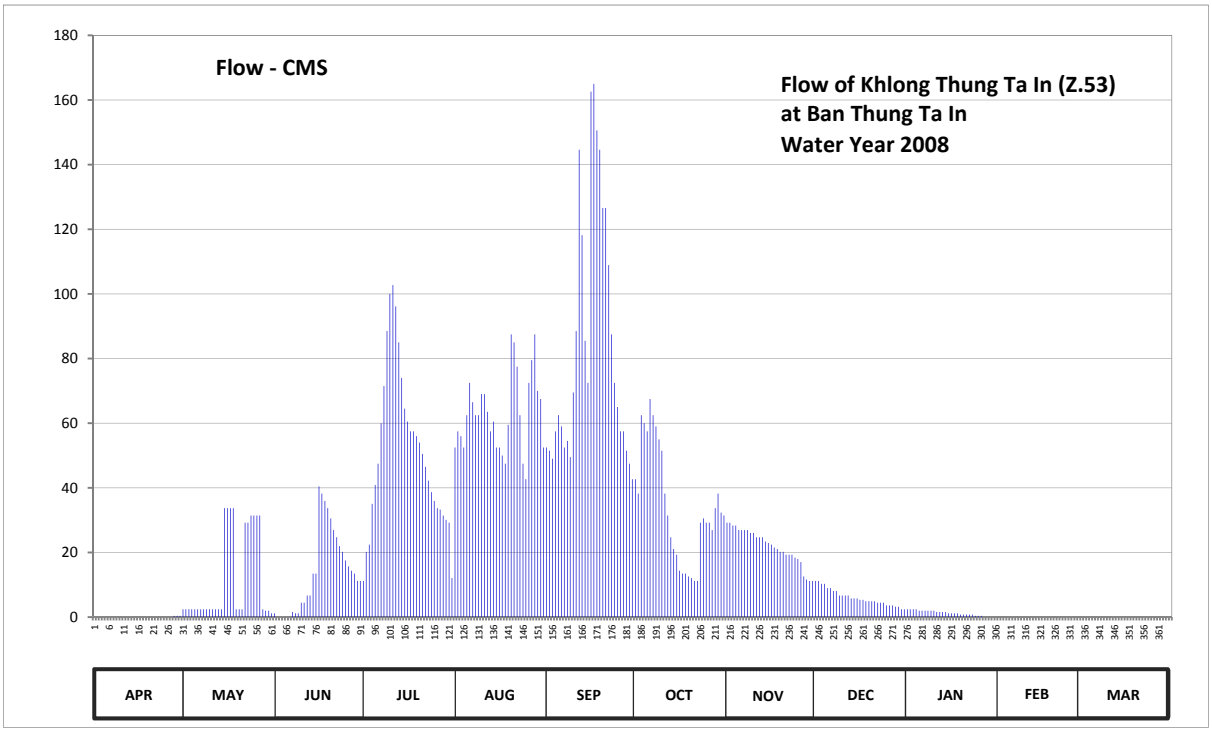
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.26	15.46	15.43	15.66	16.56	16.56	16.36	16.06	15.66	15.46	15.03	14.89	
2	15.26	15.46	15.30	15.86	16.66	16.54	16.26	16.06	15.66	15.46	15.03	14.96	
3	15.26	15.46	15.32	15.91	16.63	16.49	16.76	16.04	15.64	15.46	15.03	15.01	
4	15.26	15.46	15.30	16.19	16.56	16.66	16.71	16.04	15.64	15.46	15.03	15.08	
5	15.26	15.46	15.29	16.32	16.76	16.76	16.66	16.01	15.61	15.45	15.02	15.09	
6	15.16	15.46	15.28	16.46	16.96	16.69	16.86	16.01	15.61	15.45	15.02	15.13	
7	15.16	15.46	15.44	16.71	16.84	16.56	16.76	16.01	15.59	15.45	15.01	15.13	
8	15.16	15.46	15.43	16.94	16.76	16.60	16.69	16.01	15.59	15.45	15.01	15.26	
9	15.16	15.46	15.43	17.28	16.76	16.50	16.61	15.99	15.56	15.45	15.05	15.26	
10	15.16	15.46	15.51	17.50	16.89	16.90	16.54	15.99	15.56	15.45	15.11	15.26	
11	15.16	15.46	15.51	17.55	16.89	17.28	16.26	15.96	15.56	15.44	15.23	15.19	
12	15.16	15.46	15.56	17.43	16.78	18.26	16.11	15.96	15.56	15.44	15.26	15.16	
13	15.16	15.46	15.56	17.21	16.66	17.82	15.96	15.96	15.54	15.44	15.26	15.12	
14	15.16	15.46	15.71	16.99	16.72	17.22	15.88	15.93	15.54	15.44	15.26	15.08	
15	15.16	16.16	15.71	16.80	16.56	16.96	15.84	15.92	15.54	15.43	15.26	15.06	
16	15.16	16.16	16.31	16.72	16.56	18.56	15.73	15.91	15.53	15.43	15.19	15.26	
17	15.16	16.16	16.26	16.66	16.51	18.60	15.71	15.89	15.53	15.43	15.16	15.26	
18	15.16	16.16	16.21	16.66	16.46	18.36	15.71	15.88	15.52	15.43	15.16	15.20	
19	15.16	15.46	16.16	16.63	16.70	18.26	15.69	15.86	15.52	15.42	15.13	15.20	
20	15.16	15.46	16.09	16.59	17.26	17.96	15.68	15.86	15.52	15.42	15.13	15.20	
21	15.26	15.46	16.01	16.52	17.21	17.96	15.66	15.84	15.52	15.42	15.10	15.16	
22	15.31	16.06	15.96	16.44	17.06	17.66	15.66	15.84	15.51	15.42	14.96	15.16	
23	15.31	16.06	15.90	16.35	16.76	17.26	16.06	15.84	15.51	15.42	14.96	15.13	
24	15.31	16.11	15.86	16.27	16.46	16.96	16.09	15.82	15.51	15.41	14.94	15.13	
25	15.36	16.11	15.80	16.21	16.36	16.81	16.06	15.81	15.49	15.41	14.94	15.11	
26	15.36	16.11	15.76	16.16	16.96	16.66	16.06	15.79	15.49	15.41	14.91	15.11	
27	15.36	16.11	15.73	16.15	17.10	16.66	16.01	15.69	15.49	15.40	14.91	15.09	
28	15.41	15.46	15.71	16.11	17.26	16.54	16.16	15.67	15.48	15.40	14.89	15.09	
29	15.41	15.45	15.66	16.08	16.91	16.46	16.26	15.66	15.48	15.40		15.06	
30	15.41	15.45	15.66	16.06	16.86	16.36	16.13	15.66	15.46	15.39		15.06	
31		15.43		15.68	16.56		16.11		15.46	15.39		15.06	
Mean	15.24	15.67	15.70	16.52	16.77	17.16	16.16	15.90	15.54	15.43	15.07	15.13	
Max	15.41	16.16	16.31	17.55	17.26	18.60	16.86	16.06	15.66	15.46	15.26	15.26	18.60
Min	15.16	15.43	15.28	15.66	16.36	16.36	15.66	15.66	15.46	15.39	14.89	14.89	14.89

Annual Max Momentary Gage Height 18.76 m. (MSL.) , at 06.00 Hours, on Sep 16, 2008

Zero Gage at Bottom Elevation 14.26 m. (MSL.) , River Bed 13.22 m. (MSL)

Left Bank Elevation 21.61 m. (MSL.) ,

Right Bank Elevation 21.53 m. (MSL.) , Drainage Area Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	2.40	1.20	11.20	52.50	52.50	42.70	29.20	11.20	2.40	0.00	0.00		
2	0.00	2.40	0.00	20.20	57.50	51.50	38.20	29.20	11.20	2.40	0.00	0.00		
3	0.00	2.40	0.00	22.45	56.00	49.00	62.50	28.30	10.30	2.40	0.00	0.00		
4	0.00	2.40	0.00	35.05	52.50	57.50	60.00	28.30	10.30	2.40	0.00	0.00		
5	0.00	2.40	0.00	40.90	62.50	62.50	57.50	26.95	8.95	2.00	0.00	0.00		
6	0.00	2.40	0.00	47.50	72.50	59.00	67.50	26.95	8.95	2.00	0.00	0.00		
7	0.00	2.40	1.60	60.00	66.50	52.50	62.50	26.95	8.05	2.00	0.00	0.00		
8	0.00	2.40	1.20	71.50	62.50	54.50	59.00	26.95	8.05	2.00	0.00	0.00		
9	0.00	2.40	1.20	88.50	62.50	49.50	55.00	26.05	6.70	2.00	0.00	0.00		
10	0.00	2.40	4.45	100.00	69.00	69.50	51.50	26.05	6.70	2.00	0.00	0.00		
11	0.00	2.40	4.45	102.75	69.00	88.50	38.20	24.70	6.70	1.60	0.00	0.00		
12	0.00	2.40	6.70	96.15	63.50	144.60	31.45	24.70	6.70	1.60	0.00	0.00		
13	0.00	2.40	6.70	85.00	57.50	118.20	24.70	24.70	5.80	1.60	0.00	0.00		
14	0.00	2.40	13.45	74.00	60.50	85.50	21.10	23.35	5.80	1.60	0.00	0.00		
15	0.00	33.70	13.45	64.50	52.50	72.50	19.30	22.90	5.80	1.20	0.00	0.00		
16	0.00	33.70	40.45	60.50	52.50	162.60	14.35	22.45	5.35	1.20	0.00	0.00		
17	0.00	33.70	38.20	57.50	50.00	165.00	13.45	21.55	5.35	1.20	0.00	0.00		
18	0.00	33.70	35.95	57.50	47.50	150.60	13.45	21.10	4.90	1.20	0.00	0.00		
19	0.00	2.40	33.70	56.00	59.50	144.60	12.55	20.20	4.90	0.80	0.00	0.00		
20	0.00	2.40	30.55	54.00	87.50	126.60	12.10	20.20	4.90	0.80	0.00	0.00		
21	0.00	2.40	26.95	50.50	85.00	126.60	11.20	19.30	4.90	0.80	0.00	0.00		
22	0.00	29.20	24.70	46.50	77.50	108.92	11.20	19.30	4.45	0.80	0.00	0.00		
23	0.00	29.20	22.00	42.25	62.50	87.50	29.20	19.30	4.45	0.80	0.00	0.00		
24	0.00	31.45	20.20	38.65	47.50	72.50	30.55	18.40	4.45	0.40	0.00	0.00		
25	0.00	31.45	17.50	35.95	42.70	65.00	29.20	17.95	3.60	0.40	0.00	0.00		
26	0.00	31.45	15.70	33.70	72.50	57.50	29.20	17.05	3.60	0.40	0.00	0.00		
27	0.00	31.45	14.35	33.25	79.50	57.50	26.95	12.55	3.60	0.00	0.00	0.00		
28	0.40	2.40	13.45	31.45	87.50	51.50	33.70	11.65	3.20	0.00	0.00	0.00		
29	0.40	2.00	11.20	30.10	70.00	47.50	38.20	11.20	3.20	0.00		0.00		
30	0.40	2.00	11.20	29.20	67.50	42.70	32.35	11.20	2.40	0.00		0.00		
31		1.20		12.10	52.50		31.45		2.40	0.00		0.00		
Total	1.20	367.40	410.50	1588.85	1958.70	2533.92	1060.25	658.65	186.85	38.00	0.00	0.00	8804.32	CMSDAY
Mean	0.04	11.85	13.68	51.25	63.18	84.46	34.20	21.95	6.03	1.23	0.00	0.00	24.12	CMS
Max	0.40	33.70	40.45	102.75	87.50	165.00	67.50	29.20	11.20	2.40	0.00	0.00	165.00	CMS
Min	0.00	1.20	0.00	11.20	42.70	42.70	11.20	11.20	2.40	0.00	0.00	0.00	0.00	CMS
Runoff	0.10	31.74	35.47	137.28	169.23	218.93	91.61	56.91	16.14	3.28	0.00	0.00	760.69	MCM

Momentary Peak 175.40 CMS, at 18.76 m. (MSL), at 06.00 Hours, on Sep 16, 2008

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

WATER YEAR : 2008

EAST COAST - GULF BASIN

Chanthaburi River at Ban Bang Cha Ai , Chanthaburi (Z.55)

Lat 12 - 42 - 26 N Long 102 - 10 - 53 E

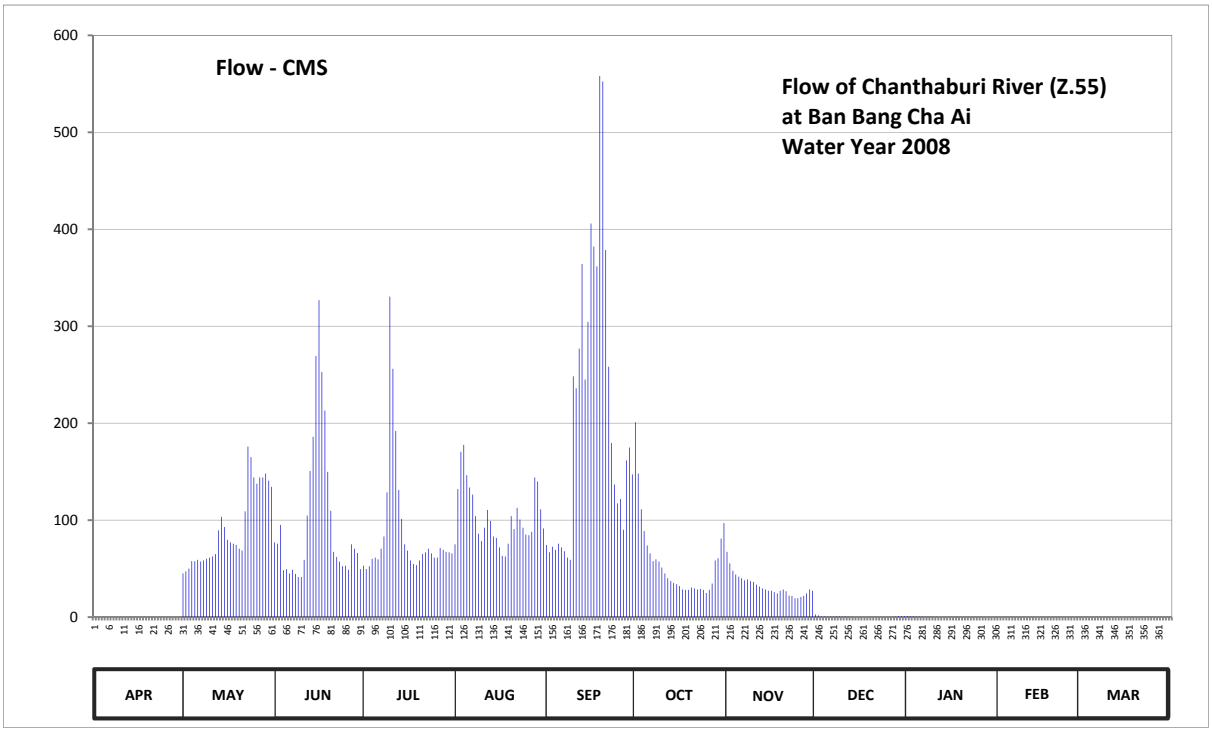
Location : on left bank at the bridge on highway.

	Ban Bang Cha Ai	**Amphoe** Makham	**Changwat** Chanthaburi
Drainge Area	- 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 Float	-		
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 16 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.25	3.31	3.84	3.45	3.81	3.80	5.37	3.69	2.16	1.99	1.74	3.04	
2	3.24	3.35	3.82	3.39	4.60	3.68	4.80	3.49	2.08	1.99	1.73	3.13	
3	3.23	3.40	4.10	3.44	5.05	3.77	4.33	3.36	1.95	1.97	1.72	3.15	
4	3.21	3.53	3.37	3.57	5.13	3.72	4.01	3.29	1.92	1.95	1.71	3.15	
5	3.22	3.53	3.39	3.59	4.78	3.82	3.79	3.25	1.90	1.92	1.71	3.15	
6	3.23	3.55	3.31	3.56	4.62	3.76	3.66	3.22	1.92	1.91	1.72	3.17	
7	3.24	3.52	3.38	3.74	4.53	3.70	3.53	3.18	1.90	1.90	1.73	3.11	
8	3.22	3.54	3.30	3.93	4.23	3.59	3.56	3.20	1.94	1.88	1.74	3.11	
9	3.21	3.57	3.24	4.56	3.97	3.55	3.52	3.17	1.95	1.86	1.75	3.11	
10	3.24	3.59	3.24	6.58	3.86	5.84	3.42	3.15	1.92	1.84	1.76	3.12	
11	3.21	3.61	3.55	5.91	4.06	5.72	3.31	3.10	1.93	1.83	2.81	3.20	
12	3.26	3.65	4.24	5.28	4.32	6.10	3.22	3.06	1.89	1.81	2.93	3.22	
13	3.26	4.02	4.83	4.59	4.16	6.86	3.17	3.02	1.85	1.79	2.96	3.11	
14	3.25	4.22	5.22	4.19	3.93	5.81	3.13	3.00	1.80	1.78	2.98	3.10	
15	3.23	4.07	6.03	3.81	3.91	6.35	3.11	2.97	1.81	1.78	2.97	3.12	
16	3.22	3.88	6.55	3.71	3.76	7.20	3.07	2.97	1.83	1.80	2.98	3.11	
17	3.21	3.84	5.88	3.54	3.62	7.01	3.00	2.94	1.81	1.81	2.99	3.10	
18	3.20	3.82	5.49	3.48	3.61	6.84	2.99	2.91	1.80	1.83	2.98	3.12	
19	3.21	3.80	4.82	3.46	3.82	8.33	2.99	2.97	1.81	1.80	2.98	3.21	
20	3.25	3.74	4.31	3.54	4.23	8.29	3.04	3.00	1.80	1.79	3.09	3.28	
21	3.27	3.71	3.69	3.65	4.04	6.98	3.02	2.96	1.78	1.78	3.09	3.27	
22	3.27	4.30	3.60	3.68	4.35	5.93	3.00	2.83	1.76	1.77	3.10	3.27	
23	3.26	5.11	3.52	3.74	4.18	5.15	3.01	2.81	1.76	1.79	3.07	3.27	
24	3.24	4.99	3.44	3.66	4.06	4.66	2.99	2.72	1.74	1.78	3.06	3.22	
25	3.24	4.75	3.45	3.59	3.96	4.41	2.92	2.72	1.74	1.76	3.10	3.21	
26	3.28	4.67	3.38	3.59	3.95	4.47	2.99	2.77	1.75	1.78	3.08	3.18	
27	3.31	4.75	3.81	3.75	4.00	4.03	3.12	2.82	1.79	1.76	3.07	3.19	
28	3.33	4.75	3.74	3.72	4.75	4.95	3.54	2.91	1.91	1.75	3.08	3.22	
29	3.35	4.80	3.67	3.69	4.70	5.10	3.58	3.00	1.99	1.79		3.22	
30	3.37	4.71	3.39	3.68	4.33	4.79	3.90	2.97	1.99	1.75		3.20	
31		4.63		3.66	4.05		4.13		1.99	1.74		3.28	
Mean	3.25	4.02	4.05	3.93	4.21	5.27	3.46	3.05	1.88	1.83	2.56	3.17	
Max	3.37	5.11	6.55	6.58	5.13	8.33	5.37	3.69	2.16	1.99	3.10	3.28	8.33
Min	3.20	3.31	3.24	3.39	3.61	3.55	2.92	2.72	1.74	1.74	1.71	3.04	1.71

Annual Max Momentary Gage Height	8.80	m. (MSL.) ,	at 18.00 Hours, on Sep 19, 2008	
Zero Gage at Bottom Elevation	1.74	m. (MSL.) ,	River Bed -0.25	m. (MSL)
Left Bank Elevation	9.48	m. (MSL.) ,		
Right Bank Elevation	10.15	m. (MSL.) ,	Drainage Area	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.01	45.05	77.10	53.00	75.15	74.50	201.00	67.40	2.60	0.94	0.00	0.00		
2	0.01	47.25	75.80	49.45	132.00	66.80	148.00	55.40	1.80	0.94	0.00	0.01		
3	0.01	50.00	95.00	52.40	170.50	72.55	111.25	47.80	0.70	0.82	0.00	0.01		
4	0.01	57.80	48.35	60.20	177.70	69.30	88.70	43.95	0.52	0.70	0.00	0.01		
5	0.01	57.80	49.45	61.40	146.40	75.80	73.85	41.75	0.40	0.52	0.00	0.01		
6	0.01	59.00	45.05	59.60	133.60	71.90	65.60	40.10	0.52	0.46	0.00	0.01		
7	0.01	57.20	48.90	70.60	126.40	68.00	57.80	37.90	0.40	0.40	0.00	0.00		
8	0.01	58.40	44.50	83.10	104.10	61.40	59.60	39.00	0.64	0.32	0.00	0.00		
9	0.01	60.20	41.20	128.80	85.90	59.00	57.20	37.35	0.70	0.24	0.00	0.00		
10	0.01	61.40	41.20	330.60	78.40	248.40	51.20	36.25	0.52	0.16	0.00	0.01		
11	0.01	62.60	59.00	256.10	92.20	236.00	45.05	33.50	0.58	0.12	0.00	0.01		
12	0.01	65.00	104.80	192.00	110.50	277.00	40.10	31.50	0.36	0.04	0.00	0.01		
13	0.01	89.40	150.70	131.20	99.20	364.20	37.35	29.50	0.20	0.00	0.00	0.00		
14	0.01	103.40	186.00	101.30	83.10	245.10	35.15	28.50	0.00	0.00	0.00	0.00		
15	0.01	92.90	269.30	75.15	81.70	304.50	34.05	27.15	0.04	0.00	0.00	0.01		
16	0.01	79.70	327.00	68.65	71.90	406.00	32.00	27.15	0.12	0.00	0.00	0.00		
17	0.01	77.10	252.80	58.40	63.20	382.25	28.50	25.80	0.04	0.04	0.00	0.00		
18	0.01	75.80	213.00	54.80	62.60	361.80	28.05	24.45	0.00	0.12	0.00	0.01		
19	0.01	74.50	149.80	53.60	75.80	558.20	28.05	27.15	0.04	0.00	0.00	0.01		
20	0.01	70.60	109.75	58.40	104.10	552.60	30.50	28.50	0.00	0.00	0.00	0.01		
21	0.01	68.65	67.40	65.00	90.80	378.60	29.50	26.70	0.00	0.00	0.00	0.01		
22	0.01	109.00	62.00	66.80	112.75	258.30	28.50	22.25	0.00	0.00	0.00	0.01		
23	0.01	175.90	57.20	70.60	100.60	179.50	29.00	21.75	0.00	0.00	0.00	0.01		
24	0.01	165.10	52.40	65.60	92.20	136.80	28.05	19.50	0.00	0.00	0.00	0.01		
25	0.01	144.00	53.00	61.40	85.20	117.25	24.90	19.50	0.00	0.00	0.00	0.01		
26	0.01	137.60	48.90	61.40	84.50	121.75	28.05	20.75	0.00	0.00	0.00	0.01		
27	0.01	144.00	75.15	71.25	88.00	90.10	34.60	22.00	0.00	0.00	0.00	0.01		
28	0.01	144.00	70.60	69.30	144.00	161.50	58.40	24.45	0.46	0.00	0.00	0.01		
29	0.01	148.00	66.20	67.40	140.00	175.00	60.80	28.50	0.94	0.00		0.01		
30	0.01	140.80	49.45	66.80	111.25	147.20	81.00	27.15	0.94	0.00		0.01		
31		134.40		65.60	91.50		97.10		0.94	0.00		0.01		
Total	0.30	2856.55	2991.00	2729.90	3215.25	6321.30	1752.90	962.65	13.46	5.82	0.00	0.23	20849.36	CMSDAY
Mean	0.01	92.15	99.70	88.06	103.72	210.71	56.55	32.09	0.43	0.19	0.00	0.01	57.12	CMS
Max	0.01	175.90	327.00	330.60	177.70	558.20	201.00	67.40	2.60	0.94	0.00	0.01	558.20	CMS
Min	0.01	45.05	41.20	49.45	62.60	59.00	24.90	19.50	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.03	246.81	258.42	235.86	277.80	546.16	151.45	83.17	1.16	0.50	0.00	0.02	1801.38	MCM

Momentary Peak 624.00 CMS, at 8.80 m. (MSL), at 18.00 Hours, on Sep 19, 2008

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

WATER YEAR : 2008

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

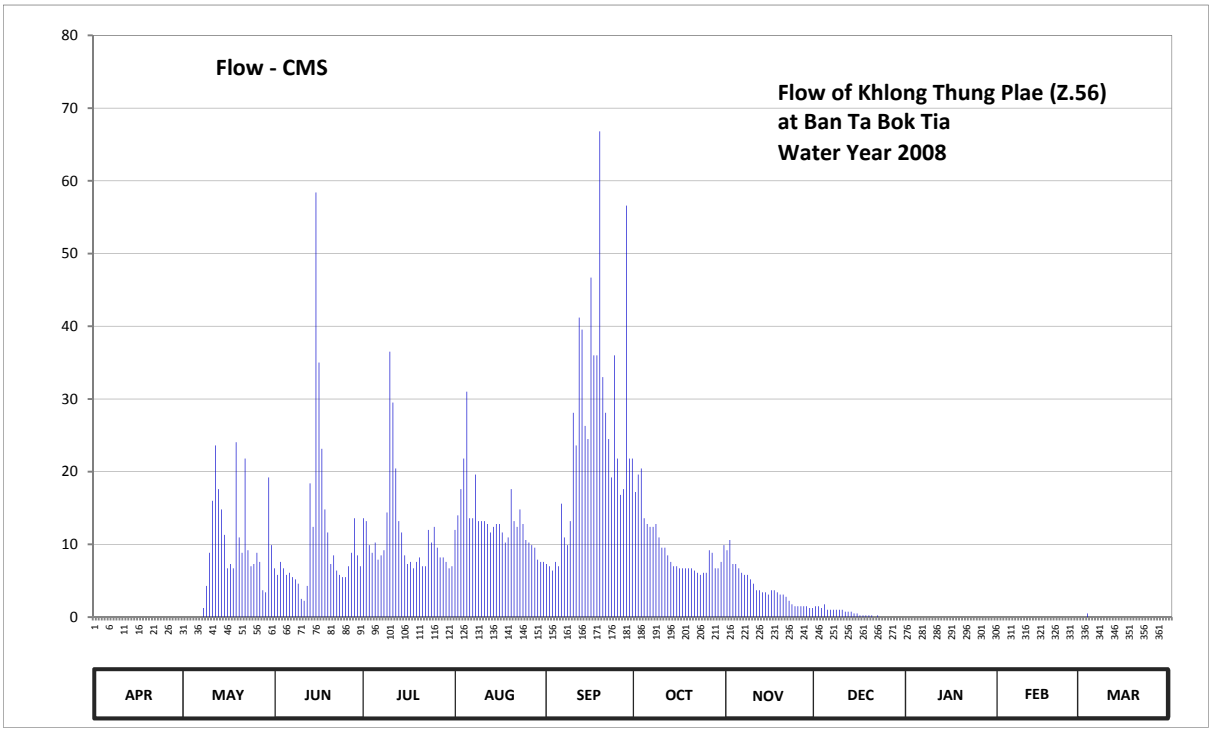
Location : on left bank at the bridge on highway.

	Ban Ta Bok Tia	**Amphoe** Makham	**Changwat** Chanthaburi
Drainge 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 Float	-		
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 15 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	25.14	25.07	25.54	25.74	25.70	25.56	25.83	25.62	25.36	25.26	25.23	25.20	
2	25.13	25.14	25.51	25.73	25.75	25.55	25.89	25.66	25.36	25.26	25.23	25.27	
3	25.09	25.18	25.57	25.64	25.84	25.53	25.91	25.56	25.35	25.25	25.22	25.32	
4	25.07	25.26	25.54	25.61	25.94	25.57	25.74	25.56	25.37	25.25	25.22	25.29	
5	25.06	25.25	25.51	25.65	26.14	25.55	25.72	25.54	25.34	25.25	25.22	25.30	
6	25.05	25.26	25.52	25.58	25.74	25.79	25.71	25.52	25.34	25.25	25.21	25.28	
7	25.04	25.26	25.50	25.60	25.74	25.67	25.71	25.51	25.34	25.25	25.21	25.28	
8	25.04	25.35	25.49	25.62	25.89	25.64	25.72	25.51	25.34	25.25	25.20	25.27	
9	25.04	25.46	25.47	25.76	25.73	25.73	25.67	25.49	25.34	25.25	25.20	25.25	
10	25.04	25.61	25.40	26.25	25.73	26.08	25.63	25.47	25.34	25.24	25.20	25.25	
11	25.01	25.80	25.39	26.11	25.73	25.98	25.63	25.44	25.33	25.24	25.19	25.26	
12	24.98	25.98	25.46	25.91	25.72	26.34	25.60	25.44	25.33	25.24	25.19	25.25	
13	24.94	25.84	25.86	25.73	25.69	26.31	25.57	25.43	25.33	25.24	25.18	25.23	
14	24.94	25.77	25.71	25.69	25.71	26.04	25.55	25.43	25.32	25.24	25.17	25.20	
15	24.94	25.68	26.64	25.60	25.72	26.00	25.55	25.42	25.32	25.24	25.17	25.19	
16	24.94	25.54	26.22	25.56	25.72	26.44	25.54	25.44	25.31	25.24	25.16	25.18	
17	24.95	25.56	25.97	25.57	25.69	26.24	25.54	25.44	25.31	25.24	25.16	25.17	
18	24.96	25.54	25.77	25.54	25.65	26.24	25.54	25.43	25.31	25.24	25.16	25.16	
19	25.04	25.99	25.69	25.57	25.67	26.78	25.54	25.42	25.31	25.24	25.16	25.16	
20	24.97	25.67	25.56	25.59	25.84	26.18	25.54	25.42	25.31	25.24	25.16	25.24	
21	24.94	25.61	25.60	25.55	25.73	26.08	25.53	25.41	25.30	25.24	25.16	25.24	
22	24.95	25.94	25.53	25.55	25.71	26.00	25.52	25.39	25.31	25.23	25.15	25.24	
23	24.94	25.62	25.51	25.70	25.77	25.88	25.51	25.37	25.30	25.23	25.15	25.23	
24	24.94	25.55	25.50	25.65	25.72	26.24	25.52	25.36	25.29	25.23	25.15	25.23	
25	24.95	25.56	25.50	25.71	25.66	25.94	25.52	25.36	25.29	25.23	25.15	25.22	
26	24.98	25.61	25.55	25.63	25.65	25.82	25.62	25.36	25.29	25.23	25.14	25.22	
27	25.09	25.57	25.61	25.59	25.64	25.84	25.61	25.36	25.29	25.23	25.14	25.23	
28	25.09	25.44	25.74	25.59	25.63	26.61	25.54	25.36	25.27	25.23	25.14	25.24	
29	25.04	25.43	25.60	25.57	25.58	25.94	25.54	25.35	25.29	25.23		25.24	
30	25.10	25.88	25.55	25.54	25.57	25.94	25.57	25.35	25.27	25.23		25.22	
31		25.64		25.55	25.57		25.64		25.27	25.23		25.22	
Mean	25.01	25.55	25.63	25.67	25.73	25.98	25.62	25.45	25.32	25.24	25.18	25.23	
Max	25.14	25.99	26.64	26.25	26.14	26.78	25.91	25.66	25.37	25.26	25.23	25.32	26.78
Min	24.94	25.07	25.39	25.54	25.57	25.53	25.51	25.35	25.27	25.23	25.14	25.16	24.94

Annual Max Momentary Gage Height	28.24	m. (MSL.) ,	at 18.00 Hours, on Sep 28, 2008		
Zero Gage at Bottom Elevation	24.74	m. (MSL.) ,	River Bed	24.74	m. (MSL)
Left Bank Elevation	32.40	m. (MSL.) ,			
Right Bank Elevation	32.35	m. (MSL.) ,	Drainage Area	Square Kilometers	



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	6.70	13.60	12.00	7.30	17.20	9.20	1.50	0.00	0.00	0.00		
2	0.00	0.00	5.80	13.20	14.00	7.00	19.60	10.60	1.50	0.00	0.00	0.00		
3	0.00	0.00	7.60	9.90	17.60	6.40	20.45	7.30	1.25	0.00	0.00	0.50		
4	0.00	0.00	6.70	8.85	21.80	7.60	13.60	7.30	1.75	0.00	0.00	0.00		
5	0.00	0.00	5.80	10.25	31.00	7.00	12.80	6.70	1.00	0.00	0.00	0.00		
6	0.00	0.00	6.10	7.90	13.60	15.60	12.40	6.10	1.00	0.00	0.00	0.00		
7	0.00	0.00	5.50	8.50	13.60	10.95	12.40	5.80	1.00	0.00	0.00	0.00		
8	0.00	1.25	5.20	9.20	19.60	9.90	12.80	5.80	1.00	0.00	0.00	0.00		
9	0.00	4.30	4.60	14.40	13.20	13.20	10.95	5.20	1.00	0.00	0.00	0.00		
10	0.00	8.85	2.50	36.50	13.20	28.10	9.55	4.60	1.00	0.00	0.00	0.00		
11	0.00	16.00	2.25	29.50	13.20	23.60	9.55	3.70	0.75	0.00	0.00	0.00		
12	0.00	23.60	4.30	20.45	12.80	41.20	8.50	3.70	0.75	0.00	0.00	0.00		
13	0.00	17.60	18.40	13.20	11.65	39.55	7.60	3.40	0.75	0.00	0.00	0.00		
14	0.00	14.80	12.40	11.65	12.40	26.30	7.00	3.40	0.50	0.00	0.00	0.00		
15	0.00	11.30	58.40	8.50	12.80	24.50	7.00	3.10	0.50	0.00	0.00	0.00		
16	0.00	6.70	35.00	7.30	12.80	46.70	6.70	3.70	0.25	0.00	0.00	0.00		
17	0.00	7.30	23.15	7.60	11.65	36.00	6.70	3.70	0.25	0.00	0.00	0.00		
18	0.00	6.70	14.80	6.70	10.25	36.00	6.70	3.40	0.25	0.00	0.00	0.00		
19	0.00	24.05	11.65	7.60	10.95	66.80	6.70	3.10	0.25	0.00	0.00	0.00		
20	0.00	10.95	7.30	8.20	17.60	33.00	6.70	3.10	0.25	0.00	0.00	0.00		
21	0.00	8.85	8.50	7.00	13.20	28.10	6.40	2.80	0.00	0.00	0.00	0.00		
22	0.00	21.80	6.40	7.00	12.40	24.50	6.10	2.25	0.25	0.00	0.00	0.00		
23	0.00	9.20	5.80	12.00	14.80	19.20	5.80	1.75	0.00	0.00	0.00	0.00		
24	0.00	7.00	5.50	10.25	12.80	36.00	6.10	1.50	0.00	0.00	0.00	0.00		
25	0.00	7.30	5.50	12.40	10.60	21.80	6.10	1.50	0.00	0.00	0.00	0.00		
26	0.00	8.85	7.00	9.55	10.25	16.80	9.20	1.50	0.00	0.00	0.00	0.00		
27	0.00	7.60	8.85	8.20	9.90	17.60	8.85	1.50	0.00	0.00	0.00	0.00		
28	0.00	3.70	13.60	8.20	9.55	56.60	6.70	1.50	0.00	0.00	0.00	0.00		
29	0.00	3.40	8.50	7.60	7.90	21.80	6.70	1.25	0.00	0.00		0.00		
30	0.00	19.20	7.00	6.70	7.60	21.80	7.60	1.25	0.00	0.00		0.00		
31		9.90		7.00	7.60		9.90		0.00	0.00		0.00		
Total	0.00	260.20	320.80	348.90	412.30	750.90	294.35	119.70	16.75	0.00	0.00	0.50	2524.40	CMSDAY
Mean	0.00	8.39	10.69	11.25	13.30	25.03	9.50	3.99	0.54	0.00	0.00	0.02	6.92	CMS
Max	0.00	24.05	58.40	36.50	31.00	66.80	20.45	10.60	1.75	0.00	0.00	0.50	66.80	CMS
Min	0.00	0.00	2.25	6.70	7.60	6.40	5.80	1.25	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	0.00	22.48	27.72	30.14	35.62	64.88	25.43	10.34	1.45	0.00	0.00	0.04	218.11	MCM

Momentary Peak 173.20 CMS, at 28.24 m. (MSL), at 18.00 Hours, on Sep 28, 2008

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

WATER YEAR : 2008

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

Drainge Area	2,220 sq.km.
Type of Gage	Water - stage recorder
Zero Gage at Bottom	+41.000 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 mean 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 Float	-
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 37 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

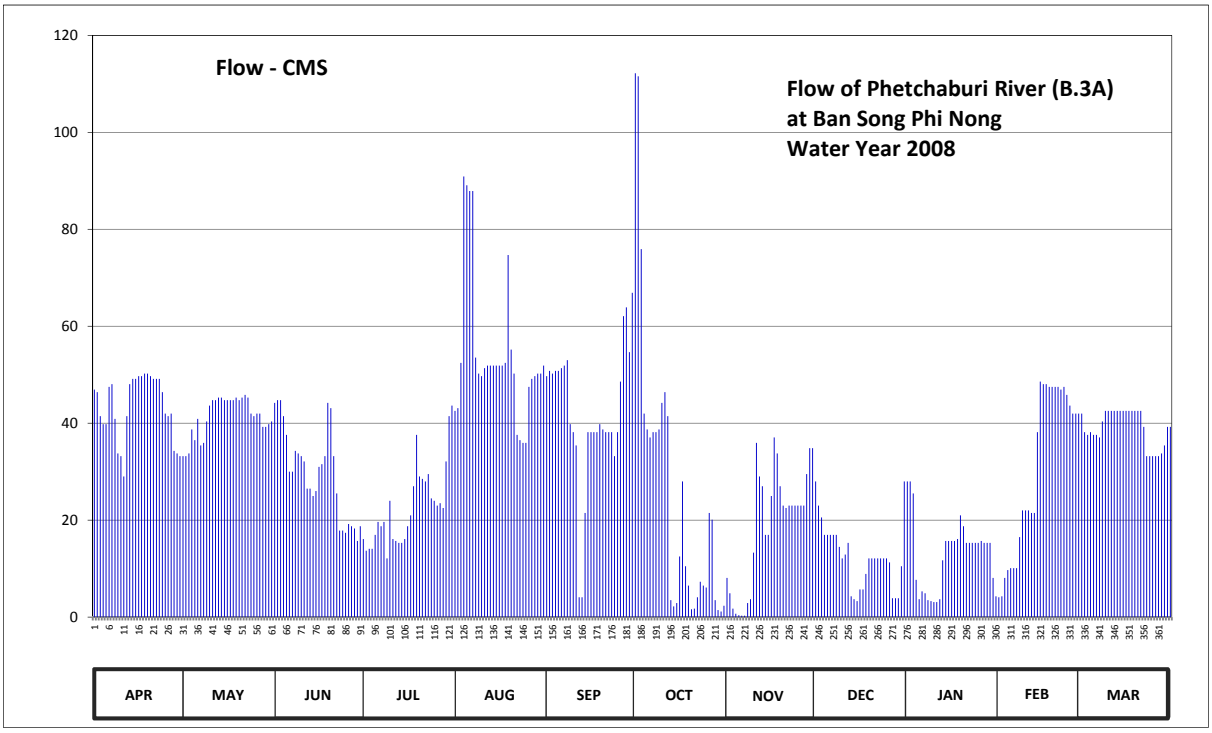
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.59	42.34	42.54	41.99	42.51	42.64	43.68	41.79	42.24	42.24	41.68	42.50	
2	42.58	42.34	42.55	41.93	42.52	42.66	43.67	41.71	42.14	42.24	41.69	42.43	
3	42.49	42.35	42.55	41.94	42.69	42.65	43.09	41.55	42.09	42.19	41.79	42.42	
4	42.46	42.44	42.49	41.94	43.34	42.66	42.50	41.47	42.01	41.78	41.83	42.43	
5	42.46	42.40	42.42	42.01	43.31	42.66	42.44	41.44	42.01	41.66	41.84	42.42	
6	42.60	42.48	42.28	42.07	43.29	42.67	42.41	41.43	42.01	41.72	41.84	42.42	
7	42.61	42.38	42.28	42.05	43.29	42.68	42.43	41.43	42.01	41.71	41.84	42.41	
8	42.48	42.39	42.36	42.07	42.71	42.70	42.43	41.62	42.01	41.65	42.00	42.47	
9	42.35	42.47	42.35	41.89	42.65	42.46	42.44	41.66	41.95	41.64	42.12	42.51	
10	42.34	42.53	42.34	42.16	42.64	42.43	42.54	41.92	41.89	41.63	42.12	42.51	
11	42.26	42.55	42.32	41.99	42.67	42.38	42.58	42.39	41.91	41.63	42.12	42.51	
12	42.49	42.55	42.21	41.98	42.68	41.68	42.49	42.26	41.97	41.66	42.11	42.51	
13	42.61	42.56	42.21	41.97	42.68	41.68	41.65	42.22	41.69	41.88	42.11	42.51	
14	42.63	42.56	42.18	41.97	42.68	42.11	41.58	42.01	41.66	41.98	42.43	42.51	
15	42.63	42.55	42.20	41.99	42.68	42.43	41.62	42.01	41.64	41.98	42.62	42.51	
16	42.64	42.55	42.30	42.05	42.68	42.43	41.90	42.18	41.73	41.98	42.61	42.51	
17	42.64	42.55	42.31	42.10	42.68	42.43	42.24	42.41	41.73	41.98	42.61	42.51	
18	42.65	42.55	42.34	42.22	42.69	42.43	41.85	42.35	41.81	41.99	42.60	42.51	
19	42.65	42.56	42.54	42.42	43.07	42.46	41.75	42.22	41.89	42.10	42.60	42.51	
20	42.64	42.55	42.52	42.26	42.74	42.44	41.54	42.14	41.89	42.05	42.60	42.51	
21	42.63	42.56	42.34	42.25	42.65	42.43	41.55	42.13	41.89	41.97	42.60	42.51	
22	42.63	42.57	42.19	42.24	42.42	42.43	41.68	42.14	41.89	41.97	42.59	42.45	
23	42.63	42.56	42.03	42.27	42.40	42.43	41.77	42.14	41.89	41.97	42.60	42.34	
24	42.58	42.50	42.03	42.17	42.39	42.34	41.75	42.14	41.89	41.97	42.57	42.34	
25	42.50	42.49	42.02	42.16	42.39	42.43	41.74	42.14	41.89	41.97	42.53	42.34	
26	42.49	42.50	42.06	42.14	42.60	42.62	42.11	42.14	41.87	41.98	42.50	42.34	
27	42.50	42.50	42.05	42.15	42.63	42.86	42.08	42.14	41.67	41.97	42.50	42.34	
28	42.36	42.45	42.04	42.13	42.64	42.89	41.65	42.27	41.67	41.97	42.50	42.35	
29	42.35	42.45	41.98	42.32	42.65	42.73	41.53	42.37	41.67	41.97		42.38	
30	42.34	42.46	42.05	42.49	42.65	42.94	41.51	42.37	41.85	41.79		42.45	
31		42.47		42.53	42.68		41.59		42.24	41.69		42.45	
Mean	42.53	42.49	42.27	42.12	42.72	42.49	42.12	42.01	41.89	41.90	42.27	42.45	
Max	42.65	42.57	42.55	42.53	43.34	42.94	43.68	42.41	42.24	42.24	42.62	42.51	43.68
Min	42.26	42.34	41.98	41.89	42.39	41.68	41.51	41.43	41.64	41.63	41.68	42.34	41.43

Annual Max Momentary Gage Height 43.68 m. (MSL.) , at 03.00 Hours , on Oct 1 , 2008

Zero Gage at Bottom Elevation 41.00 m. (MSL.) , River Bed 40.50 m. (MSL.)

Left Bank Elevation 47.91 m. (MSL.) ,

Right Bank Elevation 48.82 m. (MSL.) , Drainage Are 2,220 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	46.95	33.20	44.20	16.10	42.55	49.70	112.20	8.10	28.00	28.00	4.10	42.00		
2	46.40	33.20	44.75	13.70	43.10	50.80	111.55	4.90	23.00	28.00	4.30	38.15		
3	41.45	33.75	44.75	14.10	52.45	50.25	75.90	1.75	20.55	25.50	8.10	37.60		
4	39.80	38.70	41.45	14.10	90.90	50.80	42.00	0.70	16.95	7.70	9.70	38.15		
5	39.80	36.50	37.60	16.95	89.10	50.80	38.70	0.40	16.95	3.70	10.10	37.60		
6	47.50	40.90	30.00	19.65	87.90	51.35	37.05	0.30	16.95	5.30	10.10	37.60		
7	48.05	35.40	30.00	18.75	87.90	51.90	38.15	0.30	16.95	4.90	10.10	37.05		
8	40.90	35.95	34.30	19.65	53.55	53.00	38.15	2.90	16.95	3.50	16.50	40.35		
9	33.75	40.35	33.75	12.10	50.25	39.80	38.70	3.70	14.50	3.30	22.00	42.55		
10	33.20	43.65	33.20	24.00	49.70	38.15	44.20	13.30	12.10	3.10	22.00	42.55		
11	29.00	44.75	32.10	16.10	51.35	35.40	46.40	35.95	12.90	3.10	22.00	42.55		
12	41.45	44.75	26.50	15.70	51.90	4.10	41.45	29.00	15.30	3.70	21.50	42.55		
13	48.05	45.30	26.50	15.30	51.90	4.10	3.50	27.00	4.30	11.70	21.50	42.55		
14	49.15	45.30	25.00	15.30	51.90	21.50	2.20	16.95	3.70	15.70	38.15	42.55		
15	49.15	44.75	26.00	16.10	51.90	38.15	2.90	16.95	3.30	15.70	48.60	42.55		
16	49.70	44.75	31.00	18.75	51.90	38.15	12.50	25.00	5.70	15.70	48.05	42.55		
17	49.70	44.75	31.55	21.00	51.90	38.15	28.00	37.05	5.70	15.70	48.05	42.55		
18	50.25	44.75	33.20	27.00	52.45	38.15	10.50	33.75	8.90	16.10	47.50	42.55		
19	50.25	45.30	44.20	37.60	74.70	39.80	6.50	27.00	12.10	21.00	47.50	42.55		
20	49.70	44.75	43.10	29.00	55.20	38.70	1.60	23.00	12.10	18.75	47.50	42.55		
21	49.15	45.30	33.20	28.50	50.25	38.15	1.75	22.50	12.10	15.30	47.50	42.55		
22	49.15	45.85	25.50	28.00	37.60	38.15	4.10	23.00	12.10	15.30	46.95	39.25		
23	49.15	45.30	17.85	29.50	36.50	38.15	7.30	23.00	12.10	15.30	47.50	33.20		
24	46.40	42.00	17.85	24.50	35.95	33.20	6.50	23.00	12.10	15.30	45.85	33.20		
25	42.00	41.45	17.40	24.00	35.95	38.15	6.10	23.00	12.10	15.30	43.65	33.20		
26	41.45	42.00	19.20	23.00	47.50	48.60	21.50	23.00	11.30	15.70	42.00	33.20		
27	42.00	42.00	18.75	23.50	49.15	62.10	20.10	23.00	3.90	15.30	42.00	33.20		
28	34.30	39.25	18.30	22.50	49.70	63.90	3.50	29.50	3.90	15.30	42.00	33.75		
29	33.75	39.25	15.70	32.10	50.25	54.65	1.45	34.85	3.90	15.30		35.40		
30	33.20	39.80	18.75	41.45	50.25	66.90	1.15	34.85	10.50	8.10		39.25		
31		40.35		43.65	51.90		2.35		28.00	4.30		39.25		
Total	1304.75	1283.30	895.65	701.65	1687.50	1264.70	807.95	567.70	388.90	400.65	864.80	1214.55	11382.10	CMSDAY
Mean	43.49	41.40	29.86	22.63	54.44	42.16	26.06	18.92	12.55	12.92	30.89	39.18	31.18	CMS
Max	50.25	45.85	44.75	43.65	90.90	66.90	112.20	37.05	28.00	28.00	48.60	42.55	112.20	CMS
Min	29.00	33.20	15.70	12.10	35.95	4.10	1.15	0.30	3.30	3.10	4.10	33.20	0.30	CMS
Runoff	112.73	110.88	77.38	60.62	145.80	109.27	69.81	49.05	33.60	34.62	74.72	104.94	983.41	MCM

Momentary Peak 112.20 CMS. at 43.68 m. (MSL.) at 03.00 Hours , on Oct 1, 2008

Runoff Yield 14.05 Liters/Second/Square KM. Momentary Peak Yield 50.54 Liters/Second/Square KM.

WATER YEAR : 2008

PHETCHABURI RIVER BASIN

Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi (B.6)

Lat 12 - 56 - 00 N Long 99 - 46 - 59 E

Location : on left bank about 250 meters upstream from the bridge of Khuan Phet-Kaeng Krachan Reservoir Road.

Ban Sa Yai Non **Amphoe** Kaeng Krachan **Changwat** Phetchaburi

Drainge Area	1,003 sq.km.
Type of Gage	Water - stage recorder.
Zero Gage at Bottom	+22.710 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	Near the automatic gage building. **Elevation** +30.274 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1941 - 1942, 1961 to date.
Rating Operation	
Period of Rating	1961 - 1962, 1964 to date.
Rated by Float	-
Rated by Current Meter	1961 - 1962, 1964 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 36 diacharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

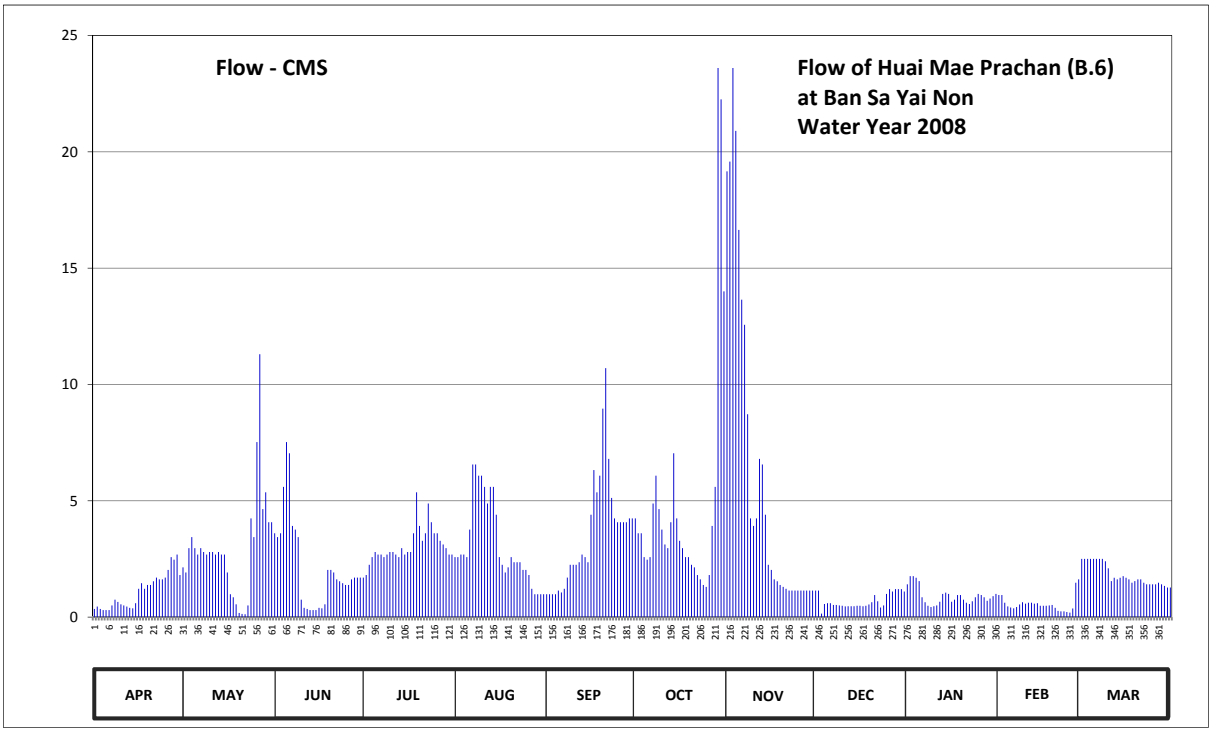
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.58	22.84	22.95	22.80	22.88	22.71	22.99	23.48	22.73	23.33	23.25	23.46	
2	22.61	22.82	22.94	22.81	22.88	22.71	22.95	23.49	22.73	23.38	23.25	23.46	
3	22.58	22.91	22.95	22.85	22.89	22.71	22.95	23.58	22.77	23.38	23.16	23.46	
4	22.56	22.94	23.05	22.88	22.89	22.71	22.88	23.52	23.13	23.37	23.07	23.46	
5	22.56	22.91	23.13	22.90	22.88	22.73	22.87	23.42	23.15	23.35	23.04	23.46	
6	22.56	22.89	23.11	22.89	22.96	22.72	22.88	23.34	23.15	23.23	23.02	23.46	
7	22.62	22.91	22.97	22.89	23.09	22.74	23.02	23.31	23.11	23.17	23.05	23.46	
8	22.67	22.90	22.96	22.88	23.09	22.80	23.07	23.18	23.11	23.09	23.12	23.46	
9	22.65	22.89	22.94	22.89	23.07	22.85	23.01	22.99	23.10	23.05	23.17	23.45	
10	22.63	22.90	22.67	22.90	23.07	22.85	22.96	22.97	23.09	23.08	23.14	23.42	
11	22.62	22.90	22.60	22.90	23.05	22.85	22.92	22.99	23.07	23.10	23.16	23.35	
12	22.61	22.89	22.58	22.89	23.02	22.86	22.91	23.10	23.08	23.18	23.16	23.37	
13	22.60	22.90	22.56	22.88	23.05	22.89	22.98	23.09	23.08	23.26	23.14	23.36	
14	22.59	22.89	22.56	22.91	23.05	22.88	23.11	23.00	23.08	23.27	23.15	23.37	
15	22.64	22.89	22.56	22.89	23.00	22.86	22.99	22.85	23.09	23.26	23.09	23.38	
16	22.74	22.82	22.60	22.90	22.88	23.00	22.93	22.83	23.09	23.18	23.09	23.37	
17	22.77	22.71	22.59	22.90	22.85	23.08	22.91	22.79	23.08	23.21	23.09	23.36	
18	22.74	22.69	22.63	22.95	22.82	23.04	22.88	22.78	23.09	23.25	23.10	23.34	
19	22.76	22.63	22.83	23.04	22.84	23.07	22.88	22.76	23.12	23.25	23.11	23.35	
20	22.76	22.51	22.83	22.97	22.88	23.19	22.85	22.75	23.17	23.21	23.03	23.36	
21	22.78	22.49	22.82	22.93	22.86	23.25	22.84	22.74	23.25	23.16	22.92	23.36	
22	22.80	22.48	22.79	22.95	22.86	23.10	22.81	22.73	23.19	23.13	22.90	23.34	
23	22.79	22.62	22.78	23.02	22.86	23.03	22.79	22.73	23.04	23.19	22.90	23.33	
24	22.79	22.99	22.77	22.98	22.83	22.99	22.76	22.73	23.10	23.23	22.86	23.33	
25	22.80	22.94	22.76	22.95	22.83	22.98	22.75	22.73	23.26	23.26	22.82	23.33	
26	22.83	23.13	22.76	22.95	22.81	22.98	22.81	22.73	23.30	23.25	23.01	23.33	
27	22.88	23.27	22.79	22.93	22.74	22.98	22.97	22.73	23.28	23.23	23.34	23.34	
28	22.87	23.01	22.80	22.92	22.71	22.98	23.05	22.73	23.30	23.20	23.36	23.33	
29	22.89	23.04	22.80	22.91	22.71	22.99	23.58	22.73	23.30	23.22		23.32	
30	22.81	22.98	22.80	22.89	22.71	22.99	23.55	22.73	23.30	23.24		23.31	
31		22.98		22.89	22.71		23.35		23.28	23.26		23.31	
Mean	22.70	22.86	22.80	22.91	22.90	22.92	22.97	22.98	23.12	23.22	23.09	23.38	
Max	22.89	23.27	23.13	23.04	23.09	23.25	23.58	23.58	23.30	23.38	23.36	23.46	23.58
Min	22.56	22.48	22.56	22.80	22.71	22.71	22.75	22.73	22.73	23.05	22.82	23.31	22.48

Annual Max Momentary Gage Height 23.71 m. (MSL.) , at 23.00 Hours , on Oct 29, 2008

Zero Gage at Bottom Elevation 22.71 m. (MSL.) , River Bed 21.69 m. (MSL.)

Left Bank Elevation 31.32 m. (MSL.) ,

Right Bank Elevation 30.43 m. (MSL.) , Drainage Are 1,003 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.35	2.14	3.60	1.70	2.58	0.98	4.24	19.16	1.14	1.41	0.95	2.50		
2	0.45	1.92	3.44	1.81	2.58	0.98	3.60	19.58	1.14	1.76	0.95	2.50		
3	0.35	2.96	3.60	2.25	2.69	0.98	3.60	23.60	0.15	1.76	0.62	2.50		
4	0.30	3.44	5.60	2.58	2.69	0.98	2.58	20.90	0.56	1.69	0.46	2.50		
5	0.30	2.96	7.52	2.80	2.58	1.14	2.47	16.64	0.60	1.55	0.41	2.50		
6	0.30	2.69	7.04	2.69	3.76	1.06	2.58	13.64	0.60	0.85	0.38	2.50		
7	0.50	2.96	3.92	2.69	6.56	1.22	4.88	12.56	0.52	0.64	0.43	2.50		
8	0.75	2.80	3.76	2.58	6.56	1.70	6.08	8.72	0.52	0.49	0.54	2.50		
9	0.65	2.69	3.44	2.69	6.08	2.25	4.64	4.24	0.50	0.43	0.64	2.40		
10	0.55	2.80	0.75	2.80	6.08	2.25	3.76	3.92	0.49	0.47	0.58	2.10		
11	0.50	2.80	0.40	2.80	5.60	2.25	3.12	4.24	0.46	0.50	0.62	1.55		
12	0.45	2.69	0.35	2.69	4.88	2.36	2.96	6.80	0.47	0.66	0.62	1.69		
13	0.40	2.80	0.30	2.58	5.60	2.69	4.08	6.56	0.47	1.00	0.58	1.62		
14	0.38	2.69	0.30	2.96	5.60	2.58	7.04	4.40	0.47	1.05	0.60	1.69		
15	0.60	2.69	0.30	2.69	4.40	2.36	4.24	2.25	0.49	1.00	0.49	1.76		
16	1.22	1.92	0.40	2.80	2.58	4.40	3.28	2.03	0.49	0.66	0.49	1.69		
17	1.46	0.98	0.38	2.80	2.25	6.32	2.96	1.62	0.47	0.75	0.49	1.62		
18	1.22	0.85	0.55	3.60	1.92	5.36	2.58	1.54	0.49	0.95	0.50	1.48		
19	1.38	0.55	2.03	5.36	2.14	6.08	2.58	1.38	0.54	0.95	0.52	1.55		
20	1.38	0.18	2.03	3.92	2.58	8.96	2.25	1.30	0.64	0.75	0.40	1.62		
21	1.54	0.14	1.92	3.28	2.36	10.70	2.14	1.22	0.95	0.62	0.27	1.62		
22	1.70	0.12	1.62	3.60	2.36	6.80	1.81	1.14	0.68	0.56	0.25	1.48		
23	1.62	0.50	1.54	4.88	2.36	5.12	1.62	1.14	0.41	0.68	0.25	1.41		
24	1.62	4.24	1.46	4.08	2.03	4.24	1.38	1.14	0.50	0.85	0.22	1.41		
25	1.70	3.44	1.38	3.60	2.03	4.08	1.30	1.14	1.00	1.00	0.19	1.41		
26	2.03	7.52	1.38	3.60	1.81	4.08	1.81	1.14	1.20	0.95	0.37	1.41		
27	2.58	11.30	1.62	3.28	1.22	4.08	3.92	1.14	1.10	0.85	1.48	1.48		
28	2.47	4.64	1.70	3.12	0.98	4.08	5.60	1.14	1.20	0.70	1.62	1.41		
29	2.69	5.36	1.70	2.96	0.98	4.24	23.60	1.14	1.20	0.80		1.34		
30	1.81	4.08	1.70	2.69	0.98	4.24	22.25	1.14	1.20	0.90		1.27		
31		4.08		2.69	0.98		14.00		1.10	1.00		1.27		
Total	33.25	90.93	65.73	94.57	97.80	108.56	152.95	186.56	21.75	28.23	15.92	56.28	952.53	CMSDAY
Mean	1.11	2.93	2.19	3.05	3.15	3.62	4.93	6.22	0.70	0.91	0.57	1.82	2.61	CMS
Max	2.69	11.30	7.52	5.36	6.56	10.70	23.60	23.60	1.20	1.76	1.62	2.50	23.60	CMS
Min	0.30	0.12	0.30	1.70	0.98	0.98	1.30	1.14	0.15	0.43	0.19	1.27	0.12	CMS
Runoff	2.87	7.86	5.68	8.17	8.45	9.38	13.21	16.12	1.88	2.44	1.38	4.86	82.30	MCM

Momentary Peak 30.65 CMS. at 23.71 m. (MSL.) at 23.00 Hours , on Oct 29, 2008

Runoff Yield 2.60 Liters/Second/Square KM. Momentary Peak Yield 30.56 Liters/Second/Square KM.

WATER YEAR : 2008

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 Prong Khae.

	Ban Prong Khae	**Amphoe** Tha Yang	**Changwat** Phetchaburi
Drainge 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** +51.185 m. (MSL.)
Gage Reading Frequency	Recording		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1973 to date		
Rating Operation			
Period of Rating	1973 to date		
Rated by Float	-		
Rated by Current Meter	1973 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

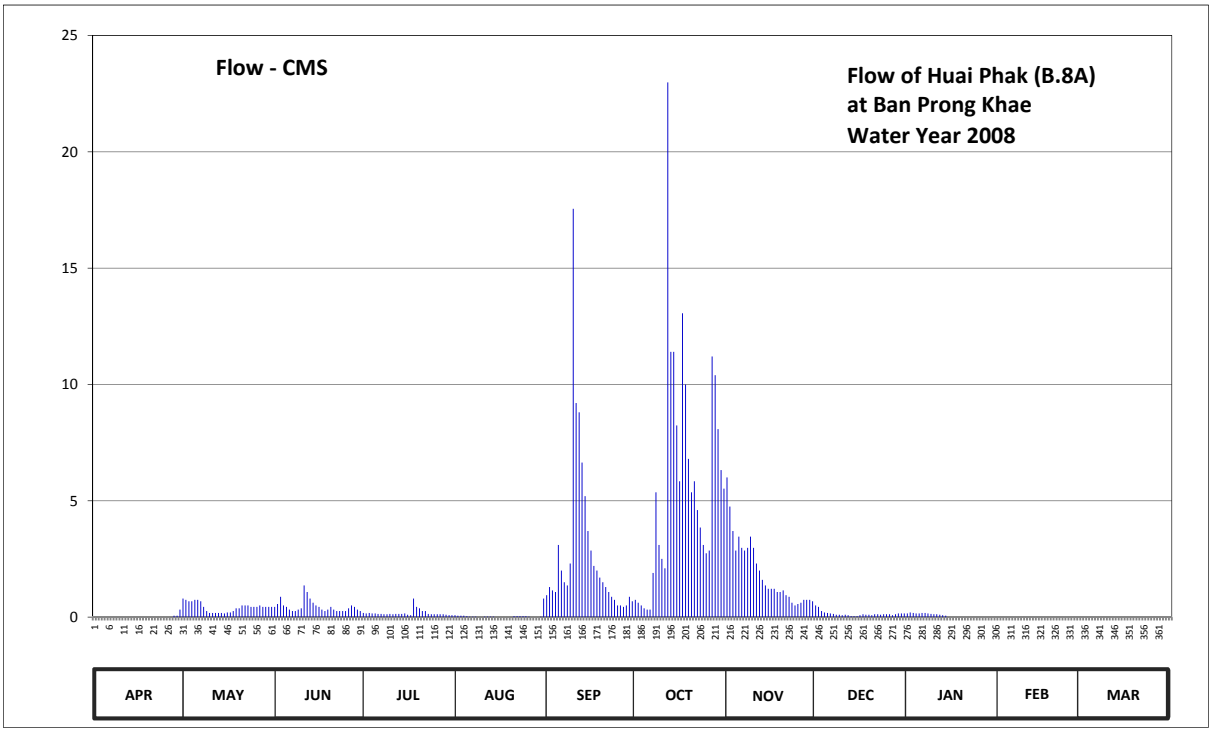
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	39.68	40.00	39.94	39.89	39.84	40.02	39.99	40.45	39.95	39.88	39.76	39.76	
2	39.68	39.99	39.96	39.88	39.83	40.07	39.97	40.37	39.94	39.90	39.76	39.76	
3	39.68	39.98	40.01	39.89	39.83	40.05	39.95	40.30	39.91	39.89	39.76	39.76	
4	39.68	39.98	39.95	39.88	39.83	40.04	39.93	40.23	39.90	39.88	39.76	39.76	
5	39.68	39.99	39.94	39.88	39.82	40.25	39.92	40.28	39.89	39.88	39.76	39.76	
6	39.68	39.99	39.92	39.87	39.81	40.15	39.92	40.24	39.88	39.89	39.76	39.76	
7	39.68	39.98	39.91	39.87	39.81	40.10	40.14	40.23	39.87	39.89	39.76	39.76	
8	39.68	39.94	39.91	39.86	39.81	40.08	40.41	40.24	39.85	39.88	39.76	39.76	
9	39.68	39.91	39.92	39.86	39.80	40.18	40.25	40.28	39.85	39.87	39.76	39.76	
10	39.68	39.89	39.93	39.87	39.79	41.03	40.20	40.24	39.84	39.86	39.76	39.76	
11	39.68	39.89	40.08	39.86	39.81	40.64	40.16	40.18	39.85	39.86	39.76	39.76	
12	39.68	39.89	40.04	39.87	39.81	40.62	41.24	40.15	39.84	39.85	39.76	39.76	
13	39.68	39.89	40.00	39.87	39.81	40.49	40.75	40.11	39.82	39.84	39.76	39.76	
14	39.68	39.89	39.97	39.87	39.81	40.40	40.75	40.08	39.82	39.83	39.76	39.76	
15	39.68	39.88	39.95	39.88	39.80	40.30	40.59	40.06	39.82	39.80	39.76	39.76	
16	39.68	39.90	39.94	39.85	39.78	40.23	40.44	40.06	39.84	39.79	39.76	39.76	
17	39.68	39.90	39.92	39.84	39.71	40.17	40.83	40.06	39.86	39.79	39.76	39.76	
18	39.69	39.91	39.91	40.00	39.70	40.15	40.68	40.04	39.85	39.79	39.76	39.76	
19	39.68	39.93	39.92	39.94	39.75	40.12	40.50	40.04	39.85	39.76	39.76	39.76	
20	39.71	39.93	39.94	39.93	39.78	40.10	40.41	40.05	39.84	39.76	39.76	39.76	
21	39.68	39.95	39.92	39.91	39.82	40.07	40.44	40.02	39.86	39.76	39.76	39.76	
22	39.68	39.95	39.91	39.91	39.82	40.04	40.36	40.01	39.86	39.76	39.76	39.76	
23	39.68	39.95	39.91	39.87	39.82	40.01	40.31	39.97	39.85	39.76	39.76	39.76	
24	39.68	39.94	39.91	39.86	39.82	39.99	40.25	39.95	39.86	39.76	39.76	39.76	
25	39.68	39.94	39.91	39.86	39.82	39.95	40.22	39.96	39.86	39.76	39.76	39.76	
26	39.68	39.94	39.93	39.86	39.81	39.95	40.23	39.97	39.86	39.76	39.76	39.76	
27	39.68	39.95	39.95	39.86	39.80	39.94	40.74	39.99	39.84	39.76	39.76	39.76	
28	39.83	39.94	39.94	39.86	39.79	39.95	40.70	39.99	39.86	39.76	39.76	39.76	
29	39.83	39.94	39.92	39.85	39.78	40.01	40.58	39.99	39.88	39.76		39.76	
30	39.92	39.94	39.91	39.84	39.81	39.98	40.47	39.98	39.88	39.76		39.76	
31		39.94		39.84	40.00		40.42		39.88	39.76		39.76	
Mean	39.70	39.94	39.94	39.88	39.81	40.17	40.38	40.12	39.86	39.81	39.76	39.76	
Max	39.92	40.00	40.08	40.00	40.00	41.03	41.24	40.45	39.95	39.90	39.76	39.76	41.24
Min	39.68	39.88	39.91	39.84	39.70	39.94	39.92	39.95	39.82	39.76	39.76	39.76	39.68

Annual Max Momentary Gage Height 42.34 m. (MSL.) , at 10.00 Hours , on Oct 12, 2008

Zero Gage at Bottom Elevation 39.18 m. (MSL.) , River Bed 39.18 m. (MSL.)

Left Bank Elevation 45.13 m. (MSL.) ,

Right Bank Elevation 45.19 m. (MSL.) , Drainage Are 301 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.80	0.44	0.18	0.08	0.94	0.74	6.00	0.50	0.16	0.00	0.00		
2	0.00	0.74	0.56	0.16	0.06	1.29	0.62	4.75	0.44	0.20	0.00	0.00		
3	0.00	0.68	0.87	0.18	0.06	1.15	0.50	3.70	0.26	0.18	0.00	0.00		
4	0.00	0.68	0.50	0.16	0.06	1.08	0.38	2.86	0.20	0.16	0.00	0.00		
5	0.00	0.74	0.44	0.16	0.04	3.10	0.32	3.46	0.18	0.16	0.00	0.00		
6	0.00	0.74	0.32	0.14	0.02	2.00	0.32	2.98	0.16	0.18	0.00	0.00		
7	0.00	0.68	0.26	0.14	0.02	1.50	1.90	2.86	0.14	0.18	0.00	0.00		
8	0.00	0.44	0.26	0.12	0.02	1.36	5.36	2.98	0.10	0.16	0.00	0.00		
9	0.00	0.26	0.32	0.12	0.00	2.30	3.10	3.46	0.10	0.14	0.00	0.00		
10	0.00	0.18	0.38	0.14	0.00	17.55	2.50	2.98	0.08	0.12	0.00	0.00		
11	0.00	0.18	1.36	0.12	0.02	9.20	2.10	2.30	0.10	0.12	0.00	0.00		
12	0.00	0.18	1.08	0.14	0.02	8.80	22.98	2.00	0.08	0.10	0.00	0.00		
13	0.00	0.18	0.80	0.14	0.02	6.64	11.40	1.60	0.04	0.08	0.00	0.00		
14	0.00	0.18	0.62	0.14	0.02	5.20	11.40	1.36	0.04	0.06	0.00	0.00		
15	0.00	0.16	0.50	0.16	0.00	3.70	8.24	1.22	0.04	0.00	0.00	0.00		
16	0.00	0.20	0.44	0.10	0.00	2.86	5.84	1.22	0.08	0.00	0.00	0.00		
17	0.00	0.20	0.32	0.08	0.00	2.20	13.06	1.22	0.12	0.00	0.00	0.00		
18	0.00	0.26	0.26	0.80	0.00	2.00	10.00	1.08	0.10	0.00	0.00	0.00		
19	0.00	0.38	0.32	0.44	0.00	1.70	6.80	1.08	0.10	0.00	0.00	0.00		
20	0.00	0.38	0.44	0.38	0.00	1.50	5.36	1.15	0.08	0.00	0.00	0.00		
21	0.00	0.50	0.32	0.26	0.04	1.29	5.84	0.94	0.12	0.00	0.00	0.00		
22	0.00	0.50	0.26	0.26	0.04	1.08	4.60	0.87	0.12	0.00	0.00	0.00		
23	0.00	0.50	0.26	0.14	0.04	0.87	3.85	0.62	0.10	0.00	0.00	0.00		
24	0.00	0.44	0.26	0.12	0.04	0.74	3.10	0.50	0.12	0.00	0.00	0.00		
25	0.00	0.44	0.26	0.12	0.04	0.50	2.74	0.56	0.12	0.00	0.00	0.00		
26	0.00	0.44	0.38	0.12	0.02	0.50	2.86	0.62	0.12	0.00	0.00	0.00		
27	0.00	0.50	0.50	0.12	0.00	0.44	11.20	0.74	0.08	0.00	0.00	0.00		
28	0.06	0.44	0.44	0.12	0.00	0.50	10.40	0.74	0.12	0.00	0.00	0.00		
29	0.06	0.44	0.32	0.10	0.00	0.87	8.08	0.74	0.16	0.00		0.00		
30	0.32	0.44	0.26	0.08	0.02	0.68	6.32	0.68	0.16	0.00		0.00		
31		0.44		0.08	0.80		5.52		0.16	0.00		0.00		
Total	0.44	13.32	13.75	5.52	1.48	83.54	177.43	57.27	4.32	2.00	0.00	0.00	359.07	CMSDAY
Mean	0.01	0.43	0.46	0.18	0.05	2.78	5.72	1.91	0.14	0.06	0.00	0.00	0.98	CMS
Max	0.32	0.80	1.36	0.80	0.80	17.55	22.98	6.00	0.50	0.20	0.00	0.00	22.98	CMS
Min	0.00	0.16	0.26	0.08	0.00	0.44	0.32	0.50	0.04	0.00	0.00	0.00	0.00	CMS
Runoff	0.04	1.15	1.19	0.48	0.13	7.22	15.33	4.95	0.37	0.17	0.00	0.00	31.02	MCM

Momentary Peak 61.60 CMS. at 42.34 m. (MSL.) at 10.00 Hours , on Oct 12, 2008

Runoff Yield 3.27 Liters/Second/Square KM. Momentary Peak Yield 204.65 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Float	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relationdefined by 39 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

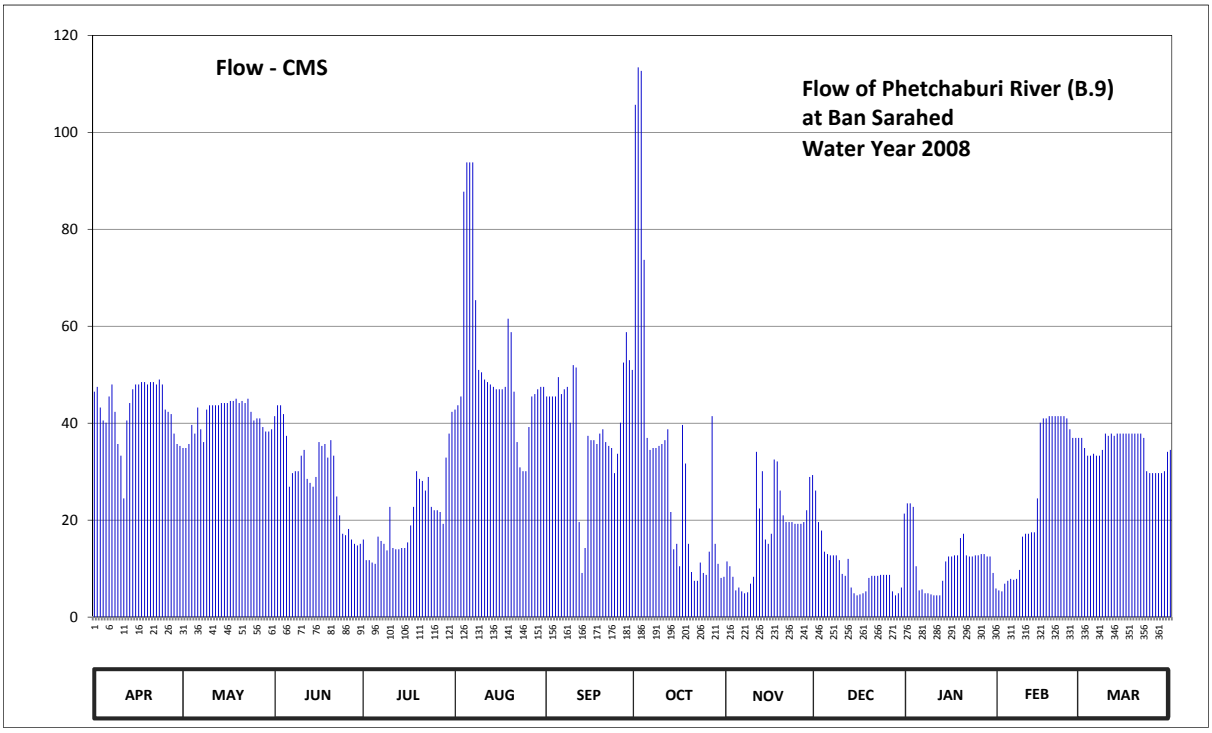
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	27.92	27.66	27.81	27.15	27.84	27.90	28.91	26.98	27.44	27.37	26.70	27.71	
2	27.94	27.66	27.86	26.99	27.86	27.90	29.02	26.94	27.26	27.37	26.69	27.66	
3	27.85	27.68	27.86	26.99	27.90	27.90	29.01	26.84	27.21	27.35	26.77	27.62	
4	27.79	27.77	27.82	26.97	28.65	27.90	28.42	26.70	27.06	26.94	26.80	27.62	
5	27.78	27.73	27.72	26.96	28.74	27.98	27.71	26.73	27.04	26.70	26.82	27.63	
6	27.90	27.85	27.46	27.17	28.74	27.91	27.65	26.69	27.03	26.71	26.81	27.62	
7	27.95	27.75	27.53	27.14	28.74	27.93	27.66	26.67	27.03	26.67	26.82	27.62	
8	27.83	27.69	27.54	27.12	28.28	27.94	27.66	26.68	27.03	26.67	26.91	27.65	
9	27.68	27.84	27.54	27.07	28.01	27.78	27.67	26.77	26.99	26.66	27.17	27.73	
10	27.62	27.86	27.62	27.35	28.00	28.03	27.68	26.84	26.87	26.65	27.19	27.72	
11	27.40	27.86	27.65	27.09	27.97	28.02	27.70	27.64	26.85	26.65	27.19	27.73	
12	27.79	27.86	27.50	27.08	27.96	27.26	27.75	27.34	27.00	26.65	27.20	27.72	
13	27.87	27.86	27.48	27.08	27.95	26.88	27.32	27.54	26.73	26.80	27.20	27.73	
14	27.93	27.87	27.46	27.09	27.94	27.09	27.08	27.15	26.67	26.98	27.40	27.73	
15	27.95	27.87	27.51	27.09	27.93	27.72	27.12	27.12	26.65	27.02	27.78	27.73	
16	27.95	27.87	27.69	27.13	27.93	27.70	26.94	27.19	26.66	27.02	27.80	27.73	
17	27.96	27.88	27.67	27.24	27.93	27.70	27.77	27.60	26.67	27.03	27.80	27.73	
18	27.96	27.88	27.68	27.35	27.94	27.68	27.58	27.59	26.69	27.03	27.81	27.73	
19	27.95	27.89	27.61	27.54	28.21	27.73	27.12	27.44	26.83	27.16	27.81	27.73	
20	27.96	27.87	27.70	27.50	28.16	27.75	26.89	27.30	26.85	27.19	27.81	27.73	
21	27.96	27.88	27.62	27.49	27.92	27.69	26.80	27.26	26.85	27.03	27.81	27.73	
22	27.95	27.87	27.41	27.44	27.69	27.67	26.80	27.26	26.85	27.02	27.81	27.71	
23	27.97	27.89	27.30	27.51	27.56	27.66	26.97	27.26	26.86	27.02	27.81	27.54	
24	27.95	27.83	27.19	27.35	27.54	27.53	26.88	27.25	26.86	27.03	27.80	27.53	
25	27.84	27.79	27.18	27.33	27.54	27.63	26.86	27.25	26.86	27.03	27.75	27.53	
26	27.83	27.80	27.22	27.33	27.76	27.78	27.06	27.25	26.86	27.04	27.71	27.53	
27	27.82	27.80	27.15	27.32	27.90	28.04	27.81	27.26	26.69	27.04	27.71	27.53	
28	27.73	27.76	27.12	27.25	27.91	28.16	27.12	27.33	26.65	27.02	27.71	27.53	
29	27.68	27.74	27.11	27.61	27.93	28.05	26.96	27.51	26.67	27.02		27.54	
30	27.67	27.74	27.12	27.73	27.94	28.01	26.83	27.52	26.73	26.88		27.64	
31		27.75		27.83	27.94		26.84		27.31	26.72		27.65	
Mean	27.85	27.81	27.50	27.27	28.01	27.76	27.47	27.16	26.90	26.95	27.38	27.66	
Max	27.97	27.89	27.86	27.83	28.74	28.16	29.02	27.64	27.44	27.37	27.81	27.73	29.02
Min	27.40	27.66	27.11	26.96	27.54	26.88	26.80	26.67	26.65	26.65	26.69	27.53	26.65

Annual Max Momentary Gage Height 29.03 m. (MSL.) , at 19.00 Hours , on Oct 1, 2008

Zero Gage at Bottom Elevation 25.32 m. (MSL.) , River Bed 25.48 m. (MSL.)

Left Bank Elevation 31.04 m. (MSL.) ,

Right Bank Elevation 32.11 m. (MSL.) , Drainage Are 2,617 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	46.50	34.90	41.45	16.00	42.80	45.50	105.70	11.50	26.10	23.45	5.50	36.95		
2	47.50	34.90	43.70	11.75	43.70	45.50	113.40	10.50	19.60	23.45	5.30	34.90		
3	43.25	35.70	43.70	11.75	45.50	45.50	112.70	8.30	17.85	22.75	6.90	33.30		
4	40.55	39.65	41.90	11.25	87.75	45.50	73.70	5.50	13.50	10.50	7.50	33.30		
5	40.10	37.85	37.40	11.00	93.80	49.50	36.95	6.10	13.00	5.50	7.90	33.70		
6	45.50	43.25	26.90	16.60	93.80	46.00	34.50	5.30	12.75	5.70	7.70	33.30		
7	48.00	38.75	29.70	15.70	93.80	47.00	34.90	4.90	12.75	4.90	7.90	33.30		
8	42.35	36.10	30.10	15.10	65.40	47.50	34.90	5.10	12.75	4.90	9.75	34.50		
9	35.70	42.80	30.10	13.75	51.00	40.10	35.30	6.90	11.75	4.70	16.60	37.85		
10	33.30	43.70	33.30	22.75	50.50	52.00	35.70	8.30	8.90	4.50	17.20	37.40		
11	24.50	43.70	34.50	14.25	49.00	51.50	36.50	34.10	8.50	4.50	17.20	37.85		
12	40.55	43.70	28.50	14.00	48.50	19.60	38.75	22.40	12.00	4.50	17.50	37.40		
13	44.15	43.70	27.70	14.00	48.00	9.10	21.70	30.10	6.10	7.50	17.50	37.85		
14	47.00	44.15	26.90	14.25	47.50	14.25	14.00	16.00	4.90	11.50	24.50	37.85		
15	48.00	44.15	28.90	14.25	47.00	37.40	15.10	15.10	4.50	12.50	40.10	37.85		
16	48.00	44.15	36.10	15.40	47.00	36.50	10.50	17.20	4.70	12.50	41.00	37.85		
17	48.50	44.60	35.30	18.90	47.00	36.50	39.65	32.50	4.90	12.75	41.00	37.85		
18	48.50	44.60	35.70	22.75	47.50	35.70	31.70	32.10	5.30	12.75	41.45	37.85		
19	48.00	45.05	32.90	30.10	61.55	37.85	15.10	26.10	8.10	16.30	41.45	37.85		
20	48.50	44.15	36.50	28.50	58.80	38.75	9.30	21.00	8.50	17.20	41.45	37.85		
21	48.50	44.60	33.30	28.10	46.50	36.10	7.50	19.60	8.50	12.75	41.45	37.85		
22	48.00	44.15	24.90	26.10	36.10	35.30	7.50	19.60	8.50	12.50	41.45	36.95		
23	49.00	45.05	21.00	28.90	30.90	34.90	11.25	19.60	8.70	12.50	41.45	30.10		
24	48.00	42.35	17.20	22.75	30.10	29.70	9.10	19.25	8.70	12.75	41.00	29.70		
25	42.80	40.55	16.90	22.05	30.10	33.70	8.70	19.25	8.70	12.75	38.75	29.70		
26	42.35	41.00	18.20	22.05	39.20	40.10	13.50	19.25	8.70	13.00	36.95	29.70		
27	41.90	41.00	16.00	21.70	45.50	52.50	41.45	19.60	5.30	13.00	36.95	29.70		
28	37.85	39.20	15.10	19.25	46.00	58.80	15.10	22.05	4.50	12.50	36.95	29.70		
29	35.70	38.30	14.80	32.90	47.00	53.00	11.00	28.90	4.90	12.50		30.10		
30	35.30	38.30	15.10	37.85	47.50	51.00	8.10	29.30	6.10	9.10		34.10		
31		38.75		42.35	47.50		8.30		21.35	5.90		34.50		
Total	1297.85	1282.80	873.75	636.05	1616.30	1206.35	991.55	535.40	310.40	351.60	730.35	1078.65	10911.05	CMSDAY
Mean	43.26	41.38	29.13	20.52	52.14	40.21	31.99	17.85	10.01	11.34	26.08	34.80	29.89	CMS
Max	49.00	45.05	43.70	42.35	93.80	58.80	113.40	34.10	26.10	23.45	41.45	37.85	113.40	CMS
Min	24.50	34.90	14.80	11.00	30.10	9.10	7.50	4.90	4.50	4.50	5.30	29.70	4.50	CMS
Runoff	112.13	110.83	75.49	54.95	139.65	104.23	85.67	46.26	26.82	30.38	63.10	93.20	942.71	MCM

Momentary Peak 114.10 CMS. at 29.03 m. (MSL.) at 19.00 Hours , on Oct 1, 2008

Runoff Yield 11.42 Liters/Second/Square KM. Momentary Peak Yield 43.60 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	1983 to date		
Rating Operation			
Period of Rating	1985 to date		
Rated by Float	-		
Rated by Current Meter	1985 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Flow regulated by Phet Dam.		
	Stage-discharge relation defined by 41 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

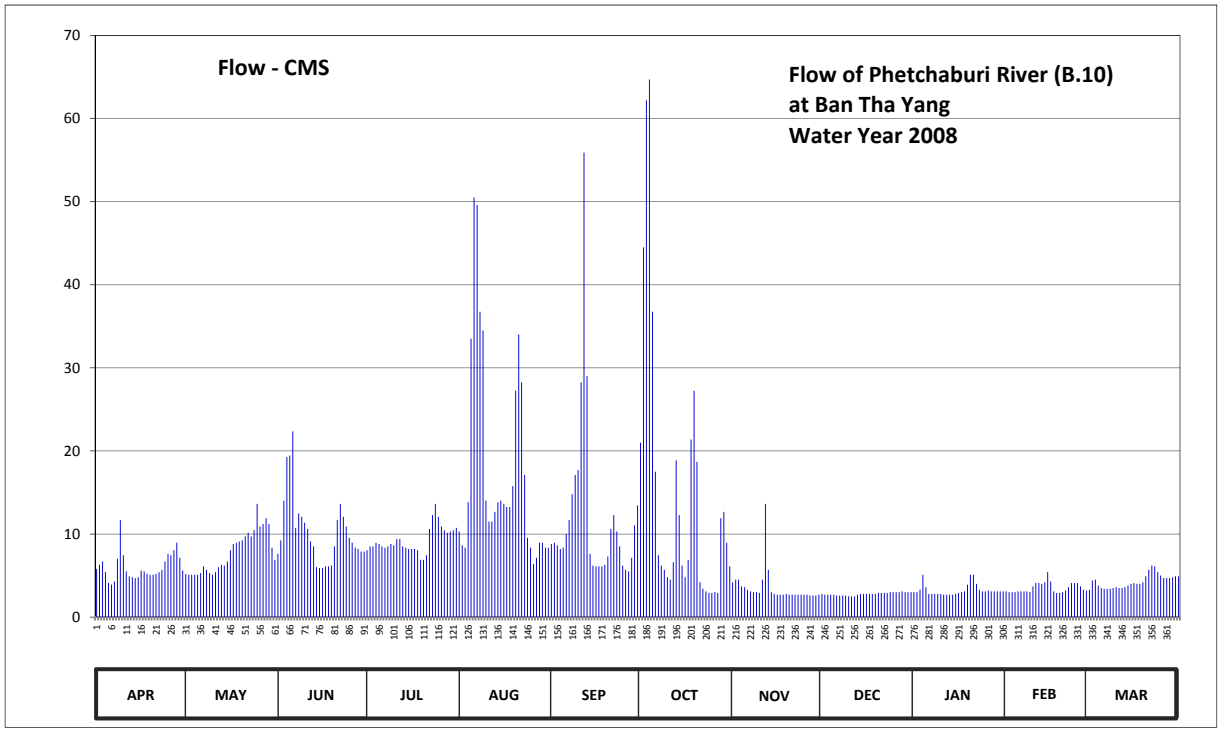
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.18	6.12	6.34	6.37	6.52	6.42	7.09	6.02	5.88	5.90	5.91	5.93	
2	6.23	6.11	6.45	6.40	6.41	6.43	8.05	6.05	5.87	5.90	5.90	6.04	
3	6.27	6.11	6.73	6.40	6.39	6.41	8.64	6.05	5.87	5.93	5.90	6.05	
4	6.14	6.11	7.00	6.43	6.72	6.38	8.72	5.97	5.87	6.11	5.90	5.98	
5	6.01	6.11	7.01	6.42	7.66	6.39	7.79	5.96	5.87	5.96	5.91	5.95	
6	5.99	6.13	7.16	6.40	8.25	6.50	6.91	5.93	5.86	5.88	5.91	5.94	
7	6.03	6.21	6.55	6.39	8.22	6.61	6.33	5.91	5.86	5.88	5.91	5.94	
8	6.30	6.17	6.65	6.40	7.79	6.77	6.22	5.90	5.86	5.88	5.91	5.94	
9	6.61	6.13	6.63	6.42	7.70	6.89	6.17	5.90	5.86	5.88	5.90	5.95	
10	6.33	6.11	6.59	6.41	6.73	6.92	6.08	5.89	5.85	5.88	5.97	5.96	
11	6.15	6.14	6.54	6.46	6.60	7.45	6.05	6.05	5.85	5.87	6.01	5.95	
12	6.09	6.20	6.44	6.46	6.60	8.43	6.26	6.71	5.85	5.87	6.01	5.95	
13	6.08	6.23	6.40	6.40	6.66	7.48	6.98	6.17	5.87	5.87	6.00	5.96	
14	6.07	6.22	6.20	6.39	6.72	6.34	6.64	5.90	5.88	5.87	6.02	5.98	
15	6.08	6.27	6.19	6.38	6.73	6.22	6.22	5.88	5.88	5.88	6.14	6.00	
16	6.16	6.37	6.19	6.38	6.71	6.21	6.08	5.87	5.88	5.89	6.03	6.01	
17	6.15	6.42	6.21	6.38	6.69	6.21	6.29	5.87	5.88	5.90	5.91	6.00	
18	6.12	6.43	6.21	6.37	6.69	6.21	7.11	5.87	5.88	5.91	5.89	6.00	
19	6.11	6.44	6.22	6.29	6.82	6.23	7.41	5.88	5.88	5.99	5.89	6.02	
20	6.11	6.45	6.40	6.29	7.41	6.32	6.97	5.87	5.89	6.11	5.90	6.09	
21	6.12	6.48	6.61	6.33	7.68	6.54	6.02	5.87	5.89	6.11	5.92	6.17	
22	6.14	6.51	6.71	6.54	7.45	6.64	5.94	5.87	5.89	6.00	5.96	6.22	
23	6.17	6.48	6.63	6.64	6.89	6.52	5.91	5.87	5.89	5.93	6.01	6.21	
24	6.27	6.53	6.56	6.71	6.47	6.40	5.89	5.87	5.90	5.91	6.01	6.14	
25	6.34	6.71	6.47	6.63	6.39	6.22	5.89	5.87	5.90	5.91	6.01	6.10	
26	6.33	6.56	6.43	6.56	6.24	6.17	5.90	5.87	5.90	5.92	5.97	6.07	
27	6.37	6.58	6.39	6.53	6.31	6.15	5.89	5.86	5.90	5.91	5.93	6.07	
28	6.43	6.62	6.38	6.51	6.43	6.31	6.62	5.86	5.91	5.91	5.92	6.07	
29	6.31	6.58	6.36	6.52	6.43	6.57	6.66	5.86	5.90	5.91		6.08	
30	6.16	6.39	6.36	6.53	6.39	6.70	6.43	5.87	5.90	5.91		6.09	
31		6.29		6.55	6.39		6.21		5.90	5.91		6.09	
Mean	6.19	6.33	6.50	6.45	6.87	6.57	6.62	5.94	5.88	5.93	5.95	6.03	
Max	6.61	6.71	7.16	6.71	8.25	8.43	8.72	6.71	5.91	6.11	6.14	6.22	8.72
Min	5.99	6.11	6.19	6.29	6.24	6.15	5.89	5.86	5.85	5.87	5.89	5.93	5.85

Annual Max Momentary Gage Height 8.78 m. (MSL.) , at 06.00 Hours , on Oct 4, 2008

Zero Gage at Bottom Elevation 5.63 m. (MSL.) , River Bed 4.70 m. (MSL.)

Left Bank Elevation 15.14 m. (MSL.) ,

Right Bank Elevation 14.98 m. (MSL.) , Drainage Are 4,076 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.80	5.20	7.60	8.05	10.30	8.80	20.99	4.20	2.80	3.00	3.10	3.30		
2	6.30	5.10	9.25	8.50	8.65	8.95	44.50	4.50	2.70	3.00	3.00	4.40		
3	6.70	5.10	14.02	8.50	8.35	8.65	62.20	4.50	2.70	3.30	3.00	4.50		
4	5.40	5.10	19.25	8.95	13.83	8.20	64.70	3.70	2.70	5.10	3.00	3.80		
5	4.10	5.10	19.44	8.80	33.50	8.35	36.75	3.60	2.70	3.60	3.10	3.50		
6	3.90	5.30	22.35	8.50	50.50	10.00	17.51	3.30	2.60	2.80	3.10	3.40		
7	4.30	6.10	10.75	8.35	49.60	11.69	7.45	3.10	2.60	2.80	3.10	3.40		
8	7.00	5.70	12.47	8.50	36.75	14.79	6.20	3.00	2.60	2.80	3.10	3.40		
9	11.69	5.30	12.08	8.80	34.50	17.12	5.70	3.00	2.60	2.80	3.00	3.50		
10	7.45	5.10	11.35	8.65	14.02	17.70	4.80	2.90	2.50	2.80	3.70	3.60		
11	5.50	5.40	10.60	9.40	11.50	28.25	4.50	4.50	2.50	2.70	4.10	3.50		
12	4.90	6.00	9.10	9.40	11.50	55.90	6.60	13.63	2.50	2.70	4.10	3.50		
13	4.80	6.30	8.50	8.50	12.66	29.00	18.86	5.70	2.70	2.70	4.00	3.60		
14	4.70	6.20	6.00	8.35	13.83	7.60	12.28	3.00	2.80	2.70	4.20	3.80		
15	4.80	6.70	5.90	8.20	14.02	6.20	6.20	2.80	2.80	2.80	5.40	4.00		
16	5.60	8.05	5.90	8.20	13.63	6.10	4.80	2.70	2.80	2.90	4.30	4.10		
17	5.50	8.80	6.10	8.20	13.24	6.10	6.90	2.70	2.80	3.00	3.10	4.00		
18	5.20	8.95	6.10	8.05	13.24	6.10	21.38	2.70	2.80	3.10	2.90	4.00		
19	5.10	9.10	6.20	6.90	15.76	6.30	27.25	2.80	2.80	3.90	2.90	4.20		
20	5.10	9.25	8.50	6.90	27.25	7.30	18.67	2.70	2.90	5.10	3.00	4.90		
21	5.20	9.70	11.69	7.45	34.00	10.60	4.20	2.70	2.90	5.10	3.20	5.70		
22	5.40	10.15	13.63	10.60	28.25	12.28	3.40	2.70	2.90	4.00	3.60	6.20		
23	5.70	9.70	12.08	12.28	17.12	10.30	3.10	2.70	2.90	3.30	4.10	6.10		
24	6.70	10.45	10.90	13.63	9.55	8.50	2.90	2.70	3.00	3.10	4.10	5.40		
25	7.60	13.63	9.55	12.08	8.35	6.20	2.90	2.70	3.00	3.10	4.10	5.00		
26	7.45	10.90	8.95	10.90	6.40	5.70	3.00	2.70	3.00	3.20	3.70	4.70		
27	8.05	11.20	8.35	10.45	7.15	5.50	2.90	2.60	3.00	3.10	3.30	4.70		
28	8.95	11.89	8.20	10.15	8.95	7.15	11.89	2.60	3.10	3.10	3.20	4.70		
29	7.15	11.20	7.90	10.30	8.95	11.05	12.66	2.60	3.00	3.10		4.80		
30	5.60	8.35	7.90	10.45	8.35	13.44	8.95	2.70	3.00	3.10		4.90		
31		6.90		10.75	8.35		6.10		3.00	3.10		4.90		
Total	181.64	241.92	310.61	286.74	552.05	363.82	460.24	105.73	86.70	100.90	98.50	133.50	2922.35	CMSDAY
Mean	6.05	7.80	10.35	9.25	17.81	12.13	14.85	3.52	2.80	3.25	3.52	4.31	8.01	CMS
Max	11.69	13.63	22.35	13.63	50.50	55.90	64.70	13.63	3.10	5.10	5.40	6.20	64.70	CMS
Min	3.90	5.10	5.90	6.90	6.40	5.50	2.90	2.60	2.50	2.70	2.90	3.30	2.50	CMS
Runoff	15.69	20.90	26.84	24.77	47.70	31.43	39.76	9.14	7.49	8.72	8.51	11.53	252.49	MCM

Momentary Peak 66.80 CMS. at 8.78 m. (MSL.) at 06.00 Hours , on Oct 4, 2008

Runoff Yield 1.96 Liters/Second/Square KM. Momentary Peak Yield 16.39 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	461 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 mean of 24 readings
Period of Available Gage Records	2000 to date
Rating Operation	
Period of Rating	2000 to date
Rated by Float	-
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 26 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

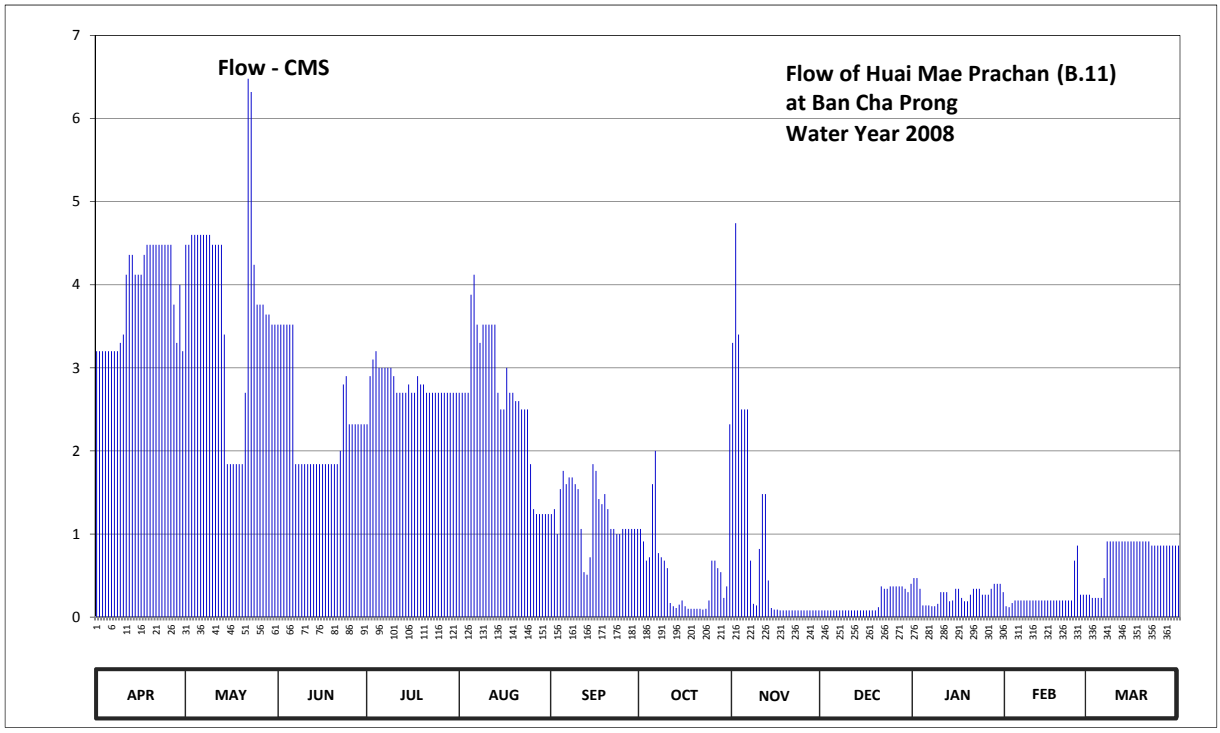
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	72.18	72.29	72.21	72.09	72.13	71.94	71.91	72.19	71.58	71.78	71.63	71.72	
2	72.18	72.29	72.21	72.15	72.13	71.95	71.88	72.31	71.58	71.78	71.62	71.71	
3	72.18	72.30	72.21	72.17	72.13	71.90	71.83	72.20	71.58	71.74	71.67	71.71	
4	72.18	72.30	72.21	72.18	72.13	71.99	71.84	72.11	71.58	71.64	71.70	71.71	
5	72.18	72.30	72.21	72.16	72.24	72.02	72.00	72.11	71.58	71.64	71.70	71.71	
6	72.18	72.30	72.21	72.16	72.26	72.00	72.05	72.11	71.58	71.64	71.70	71.78	
7	72.18	72.30	72.03	72.16	72.21	72.01	71.85	71.83	71.58	71.63	71.70	71.88	
8	72.18	72.30	72.03	72.16	72.19	72.01	71.84	71.66	71.58	71.63	71.70	71.88	
9	72.19	72.30	72.03	72.16	72.21	72.00	71.83	71.64	71.58	71.66	71.70	71.88	
10	72.20	72.29	72.03	72.15	72.21	71.99	71.81	71.86	71.58	71.73	71.70	71.88	
11	72.26	72.29	72.03	72.13	72.21	71.91	71.67	71.98	71.58	71.73	71.70	71.88	
12	72.28	72.29	72.03	72.13	72.21	71.80	71.63	71.98	71.58	71.73	71.70	71.88	
13	72.28	72.29	72.03	72.13	72.21	71.79	71.61	71.77	71.58	71.69	71.70	71.88	
14	72.26	72.20	72.03	72.13	72.13	71.84	71.65	71.61	71.58	71.70	71.70	71.88	
15	72.26	72.03	72.03	72.14	72.11	72.03	71.70	71.59	71.58	71.74	71.70	71.88	
16	72.26	72.03	72.03	72.13	72.11	72.02	71.63	71.59	71.58	71.74	71.70	71.88	
17	72.28	72.03	72.03	72.13	72.16	71.97	71.60	71.58	71.58	71.71	71.70	71.88	
18	72.29	72.03	72.03	72.15	72.13	71.96	71.60	71.58	71.58	71.69	71.70	71.88	
19	72.29	72.03	72.03	72.14	72.13	71.98	71.60	71.58	71.58	71.69	71.70	71.88	
20	72.29	72.03	72.03	72.14	72.12	71.95	71.60	71.58	71.62	71.72	71.70	71.88	
21	72.29	72.13	72.03	72.13	72.12	71.91	71.60	71.58	71.75	71.74	71.70	71.88	
22	72.29	72.43	72.05	72.13	72.11	71.91	71.59	71.58	71.74	71.74	71.70	71.87	
23	72.29	72.42	72.14	72.13	72.11	71.90	71.60	71.58	71.74	71.74	71.70	71.87	
24	72.29	72.27	72.15	72.13	72.11	71.90	71.70	71.58	71.75	71.72	71.83	71.87	
25	72.29	72.23	72.09	72.13	72.03	71.91	71.83	71.58	71.75	71.72	71.87	71.87	
26	72.29	72.23	72.09	72.13	71.95	71.91	71.83	71.58	71.75	71.72	71.72	71.87	
27	72.23	72.23	72.09	72.13	71.94	71.91	71.81	71.58	71.75	71.74	71.72	71.87	
28	72.19	72.22	72.09	72.13	71.94	71.91	71.80	71.58	71.75	71.76	71.72	71.87	
29	72.25	72.22	72.09	72.13	71.94	71.91	71.71	71.58	71.74	71.76		71.87	
30	72.18	72.21	72.09	72.13	71.94	71.91	71.75	71.58	71.73	71.76		71.87	
31		72.21		72.13	71.94		72.09		71.76	71.73		71.87	
Mean	72.24	72.23	72.09	72.14	72.11	71.94	71.76	71.76	71.64	71.71	71.71	71.85	
Max	72.29	72.43	72.21	72.18	72.26	72.03	72.09	72.31	71.76	71.78	71.87	71.88	72.43
Min	72.18	72.03	72.03	72.09	71.94	71.79	71.59	71.58	71.58	71.63	71.62	71.71	71.58

Annual Max Momentary Gage Height 72.43 m. (MSL.) , at 05.00 Hours , on May 22, 2008

Zero Gage at Bottom Elevation 72.27 m. (MSL.) , River Bed 71.34 m. (MSL.)

Left Bank Elevation 79.14 m. (MSL.) ,

Right Bank Elevation 78.99 m. (MSL.) , Drainage Are 461 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.20	4.48	3.52	2.32	2.70	1.24	1.06	3.30	0.08	0.47	0.13	0.27		
2	3.20	4.48	3.52	2.90	2.70	1.30	0.91	4.74	0.08	0.47	0.12	0.23		
3	3.20	4.60	3.52	3.10	2.70	1.00	0.68	3.40	0.08	0.34	0.17	0.23		
4	3.20	4.60	3.52	3.20	2.70	1.54	0.72	2.50	0.08	0.14	0.20	0.23		
5	3.20	4.60	3.52	3.00	3.88	1.76	1.60	2.50	0.08	0.14	0.20	0.23		
6	3.20	4.60	3.52	3.00	4.12	1.60	2.00	2.50	0.08	0.14	0.20	0.47		
7	3.20	4.60	1.84	3.00	3.52	1.68	0.77	0.68	0.08	0.13	0.20	0.91		
8	3.20	4.60	1.84	3.00	3.30	1.68	0.72	0.16	0.08	0.13	0.20	0.91		
9	3.30	4.60	1.84	3.00	3.52	1.60	0.68	0.14	0.08	0.16	0.20	0.91		
10	3.40	4.48	1.84	2.90	3.52	1.54	0.59	0.82	0.08	0.30	0.20	0.91		
11	4.12	4.48	1.84	2.70	3.52	1.06	0.17	1.48	0.08	0.30	0.20	0.91		
12	4.36	4.48	1.84	2.70	3.52	0.54	0.13	1.48	0.08	0.30	0.20	0.91		
13	4.36	4.48	1.84	2.70	3.52	0.51	0.11	0.44	0.08	0.19	0.20	0.91		
14	4.12	3.40	1.84	2.70	2.70	0.72	0.15	0.11	0.08	0.20	0.20	0.91		
15	4.12	1.84	1.84	2.80	2.50	1.84	0.20	0.09	0.08	0.34	0.20	0.91		
16	4.12	1.84	1.84	2.70	2.50	1.76	0.13	0.09	0.08	0.34	0.20	0.91		
17	4.36	1.84	1.84	2.70	3.00	1.42	0.10	0.08	0.08	0.23	0.20	0.91		
18	4.48	1.84	1.84	2.90	2.70	1.36	0.10	0.08	0.08	0.19	0.20	0.91		
19	4.48	1.84	1.84	2.80	2.70	1.48	0.10	0.08	0.08	0.19	0.20	0.91		
20	4.48	1.84	1.84	2.80	2.60	1.30	0.10	0.08	0.12	0.27	0.20	0.91		
21	4.48	2.70	1.84	2.70	2.60	1.06	0.10	0.08	0.37	0.34	0.20	0.91		
22	4.48	6.48	2.00	2.70	2.50	1.06	0.09	0.08	0.34	0.34	0.20	0.86		
23	4.48	6.32	2.80	2.70	2.50	1.00	0.10	0.08	0.34	0.34	0.20	0.86		
24	4.48	4.24	2.90	2.70	2.50	1.00	0.20	0.08	0.37	0.27	0.68	0.86		
25	4.48	3.76	2.32	2.70	1.84	1.06	0.68	0.08	0.37	0.27	0.86	0.86		
26	4.48	3.76	2.32	2.70	1.30	1.06	0.68	0.08	0.37	0.27	0.27	0.86		
27	3.76	3.76	2.32	2.70	1.24	1.06	0.59	0.08	0.37	0.34	0.27	0.86		
28	3.30	3.64	2.32	2.70	1.24	1.06	0.54	0.08	0.37	0.40	0.27	0.86		
29	4.00	3.64	2.32	2.70	1.24	1.06	0.23	0.08	0.34	0.40		0.86		
30	3.20	3.52	2.32	2.70	1.24	1.06	0.37	0.08	0.30	0.40		0.86		
31		3.52		2.70	1.24		2.32		0.40	0.30		0.86		
Total	116.44	118.86	70.34	86.62	81.36	37.41	16.92	25.55	5.58	8.64	6.77	23.91	598.40	CMSDAY
Mean	3.88	3.83	2.34	2.79	2.62	1.25	0.55	0.85	0.18	0.28	0.24	0.77	1.64	CMS
Max	4.48	6.48	3.52	3.20	4.12	1.84	2.32	4.74	0.40	0.47	0.86	0.91	6.48	CMS
Min	3.20	1.84	1.84	2.32	1.24	0.51	0.09	0.08	0.08	0.13	0.12	0.23	0.08	CMS
Runoff	10.06	10.27	6.08	7.48	7.03	3.23	1.46	2.21	0.48	0.75	0.58	2.07	51.70	MCM

Momentary Peak 6.48 CMS. at 72.43 m. (MSL.) at 05.00 Hours , on May 22, 2008

Runoff Yield 3.56 Liters/Second/Square KM. Momentary Peak Yield 14.09 Liters/Second/Square KM.

WATER YEAR : 2008

WEST COAST - GULF BASIN

Khlong Wa Thon at Ban Rai Khlong, Prachuap Khiri Khan (Gt.8)

Lat 11 - 43 - 29 N Long 99 - 43 - 51 E

Location : on right bank at the bridge of Phet Kasem Highway near the guidepost 335 - 336.

Ban Rai Khlong **Amphoe** Mueang **Changwat** Prachuap Khiri Khan

Drainge Area	44 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+8.865 m. (MSL.)
Bench Mark	B.M.- H.D.
Location BM	On right bank at the abutment of the bridge. **Elevation** +14.354 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 mean of 5 readings
Period of Available Gage Records	1979 to date
Rating Operation	
Period of Rating	1997 to date
Rated by Float	-
Rated by Current Meter	1997 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

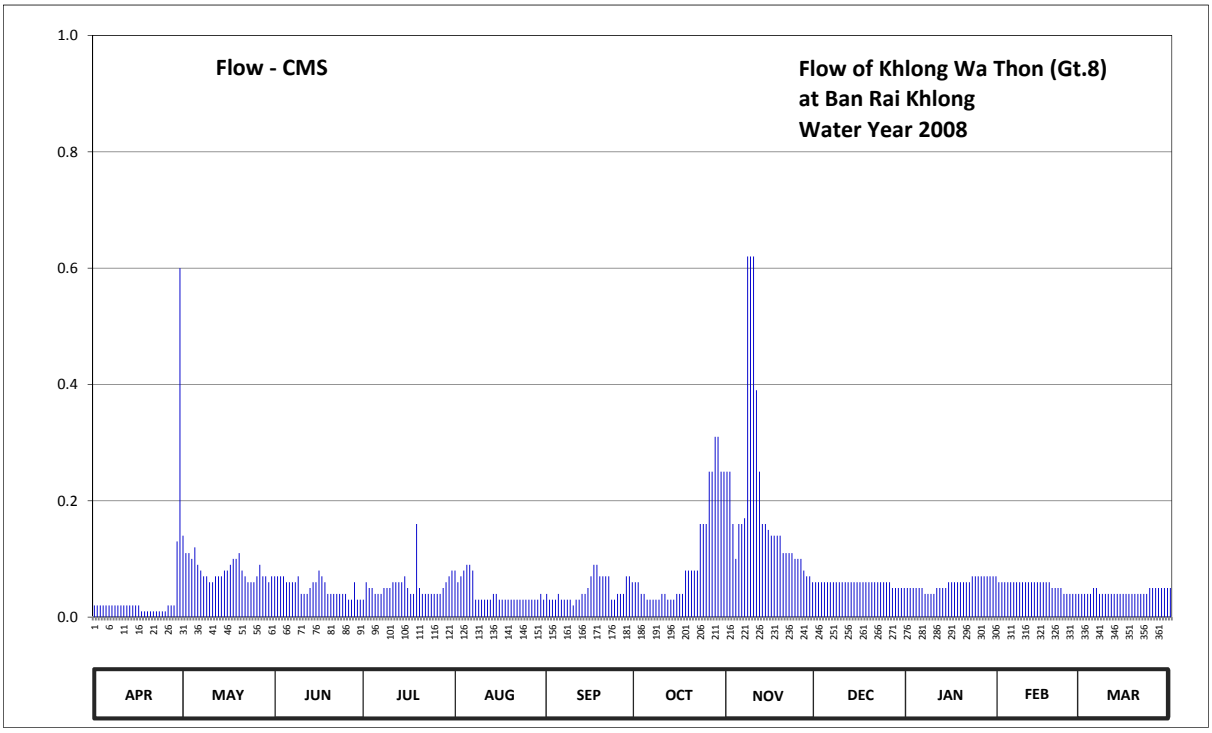
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.54	8.75	8.68	8.62	8.70	8.63	8.67	8.82	8.66	8.65	8.67	8.64	
2	8.54	8.73	8.68	8.66	8.67	8.61	8.67	8.82	8.66	8.65	8.67	8.64	
3	8.54	8.73	8.68	8.65	8.69	8.61	8.64	8.77	8.66	8.65	8.67	8.64	
4	8.54	8.72	8.68	8.65	8.70	8.62	8.64	8.72	8.66	8.65	8.67	8.64	
5	8.54	8.74	8.67	8.64	8.71	8.63	8.62	8.77	8.66	8.65	8.67	8.65	
6	8.54	8.71	8.66	8.64	8.71	8.62	8.62	8.77	8.66	8.65	8.67	8.65	
7	8.54	8.70	8.67	8.64	8.70	8.62	8.62	8.78	8.66	8.64	8.67	8.64	
8	8.54	8.69	8.67	8.65	8.62	8.62	8.62	8.92	8.66	8.64	8.67	8.64	
9	8.53	8.68	8.68	8.65	8.62	8.61	8.62	8.92	8.66	8.64	8.67	8.64	
10	8.53	8.67	8.64	8.65	8.62	8.60	8.63	8.92	8.66	8.64	8.67	8.64	
11	8.53	8.67	8.64	8.66	8.62	8.61	8.63	8.87	8.66	8.65	8.67	8.64	
12	8.53	8.68	8.64	8.67	8.62	8.62	8.62	8.82	8.66	8.65	8.67	8.64	
13	8.53	8.68	8.65	8.67	8.62	8.63	8.62	8.77	8.66	8.65	8.66	8.64	
14	8.53	8.69	8.67	8.67	8.63	8.64	8.62	8.77	8.66	8.65	8.66	8.64	
15	8.53	8.70	8.67	8.68	8.63	8.65	8.63	8.76	8.66	8.66	8.66	8.64	
16	8.53	8.70	8.70	8.65	8.62	8.69	8.63	8.75	8.66	8.66	8.66	8.64	
17	8.52	8.71	8.68	8.64	8.62	8.71	8.63	8.75	8.66	8.66	8.66	8.64	
18	8.52	8.72	8.67	8.64	8.62	8.71	8.70	8.75	8.66	8.67	8.66	8.64	
19	8.52	8.72	8.64	8.77	8.62	8.68	8.70	8.75	8.66	8.67	8.65	8.64	
20	8.52	8.73	8.64	8.65	8.62	8.68	8.70	8.73	8.66	8.67	8.65	8.64	
21	8.52	8.70	8.64	8.64	8.62	8.69	8.70	8.73	8.66	8.67	8.65	8.64	
22	8.52	8.69	8.64	8.64	8.62	8.69	8.70	8.73	8.66	8.67	8.65	8.64	
23	8.52	8.67	8.64	8.64	8.62	8.62	8.77	8.73	8.66	8.68	8.64	8.64	
24	8.52	8.67	8.64	8.64	8.62	8.62	8.77	8.72	8.66	8.68	8.64	8.65	
25	8.52	8.67	8.63	8.64	8.62	8.63	8.77	8.72	8.66	8.68	8.64	8.65	
26	8.53	8.68	8.62	8.64	8.62	8.64	8.82	8.72	8.66	8.68	8.64	8.65	
27	8.54	8.71	8.62	8.64	8.62	8.64	8.82	8.70	8.65	8.68	8.64	8.65	
28	8.54	8.68	8.66	8.65	8.62	8.69	8.84	8.69	8.65	8.68	8.64	8.65	
29	8.68	8.68	8.62	8.67	8.62	8.69	8.84	8.68	8.65	8.68		8.65	
30	8.83	8.67	8.62	8.69	8.63	8.67	8.82	8.67	8.65	8.68		8.65	
31		8.69		8.70	8.62		8.82		8.65	8.68		8.65	
Mean	8.55	8.70	8.65	8.66	8.64	8.65	8.69	8.77	8.66	8.66	8.66	8.64	
Max	8.83	8.75	8.70	8.77	8.71	8.71	8.84	8.92	8.66	8.68	8.67	8.65	8.92
Min	8.52	8.67	8.62	8.62	8.62	8.60	8.62	8.67	8.65	8.64	8.64	8.64	8.52

Annual Max Momentary Gage Height 8.92 m. (MSL.) , at 06.00 Hours , on Nov 8, 2008

Zero Gage at Bottom Elevation 8.87 m. (MSL.) , River Bed 8.41 m. (MSL.)

Left Bank Elevation 13.21 m. (MSL.) ,

Right Bank Elevation 13.55 m. (MSL.) , Drainage Are 44 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.02	0.14	0.07	0.03	0.08	0.04	0.06	0.25	0.06	0.05	0.06	0.04		
2	0.02	0.11	0.07	0.06	0.06	0.03	0.06	0.25	0.06	0.05	0.06	0.04		
3	0.02	0.11	0.07	0.05	0.07	0.03	0.04	0.16	0.06	0.05	0.06	0.04		
4	0.02	0.10	0.07	0.05	0.08	0.03	0.04	0.10	0.06	0.05	0.06	0.04		
5	0.02	0.12	0.06	0.04	0.09	0.04	0.03	0.16	0.06	0.05	0.06	0.05		
6	0.02	0.09	0.06	0.04	0.09	0.03	0.03	0.16	0.06	0.05	0.06	0.05		
7	0.02	0.08	0.06	0.04	0.08	0.03	0.03	0.17	0.06	0.04	0.06	0.04		
8	0.02	0.07	0.06	0.05	0.03	0.03	0.03	0.62	0.06	0.04	0.06	0.04		
9	0.02	0.07	0.07	0.05	0.03	0.03	0.03	0.62	0.06	0.04	0.06	0.04		
10	0.02	0.06	0.04	0.05	0.03	0.02	0.04	0.62	0.06	0.04	0.06	0.04		
11	0.02	0.06	0.04	0.06	0.03	0.03	0.04	0.39	0.06	0.05	0.06	0.04		
12	0.02	0.07	0.04	0.06	0.03	0.03	0.03	0.25	0.06	0.05	0.06	0.04		
13	0.02	0.07	0.05	0.06	0.03	0.04	0.03	0.16	0.06	0.05	0.06	0.04		
14	0.02	0.07	0.06	0.06	0.04	0.04	0.03	0.16	0.06	0.05	0.06	0.04		
15	0.02	0.08	0.06	0.07	0.04	0.05	0.04	0.15	0.06	0.06	0.06	0.04		
16	0.02	0.08	0.08	0.05	0.03	0.07	0.04	0.14	0.06	0.06	0.06	0.04		
17	0.01	0.09	0.07	0.04	0.03	0.09	0.04	0.14	0.06	0.06	0.06	0.04		
18	0.01	0.10	0.06	0.04	0.03	0.09	0.08	0.14	0.06	0.06	0.06	0.04		
19	0.01	0.10	0.04	0.16	0.03	0.07	0.08	0.14	0.06	0.06	0.05	0.04		
20	0.01	0.11	0.04	0.05	0.03	0.07	0.08	0.11	0.06	0.06	0.05	0.04		
21	0.01	0.08	0.04	0.04	0.03	0.07	0.08	0.11	0.06	0.06	0.05	0.04		
22	0.01	0.07	0.04	0.04	0.03	0.07	0.08	0.11	0.06	0.06	0.05	0.04		
23	0.01	0.06	0.04	0.04	0.03	0.03	0.16	0.11	0.06	0.07	0.04	0.04		
24	0.01	0.06	0.04	0.04	0.03	0.03	0.16	0.10	0.06	0.07	0.04	0.05		
25	0.01	0.06	0.04	0.04	0.03	0.04	0.16	0.10	0.06	0.07	0.04	0.05		
26	0.02	0.07	0.03	0.04	0.03	0.04	0.25	0.10	0.06	0.07	0.04	0.05		
27	0.02	0.09	0.03	0.04	0.03	0.04	0.25	0.08	0.05	0.07	0.04	0.05		
28	0.02	0.07	0.06	0.05	0.03	0.07	0.31	0.07	0.05	0.07	0.04	0.05		
29	0.13	0.07	0.03	0.06	0.03	0.07	0.31	0.07	0.05	0.07		0.05		
30	0.60	0.06	0.03	0.07	0.04	0.06	0.25	0.06	0.05	0.07		0.05		
31		0.07		0.08	0.03		0.25		0.05	0.07		0.05		
Total	1.20	2.54	1.55	1.65	1.30	1.41	3.14	5.80	1.81	1.77	1.52	1.34	25.03	CMSDAY
Mean	0.04	0.08	0.05	0.05	0.04	0.05	0.10	0.19	0.06	0.06	0.05	0.04	0.07	CMS
Max	0.60	0.14	0.08	0.16	0.09	0.09	0.31	0.62	0.06	0.07	0.06	0.05	0.62	CMS
Min	0.01	0.06	0.03	0.03	0.03	0.02	0.03	0.06	0.05	0.04	0.04	0.04	0.01	CMS
Runoff	0.10	0.22	0.13	0.14	0.11	0.12	0.27	0.50	0.16	0.15	0.13	0.12	2.16	MCM

Momentary Peak 0.62 CMS. at 8.92 m. (MSL.) at 06.00 Hours , on Nov 8, 2008

Runoff Yield 1.56 Liters/Second/Square KM. Momentary Peak Yield 14.09 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	125 sq.km.		
Type of Gage	Staff gage		
Zero Gage at Bottom	+6.840 m. (MSL.)		
Bench Mark	B.M.- Highways Dept.		
Location BM	On right bank at the abutment of the bridge.	**Elevation**	+12.200 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 mean of 5 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1980 to date		
Rated by Float	-		
Rated by Current Meter	1980 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

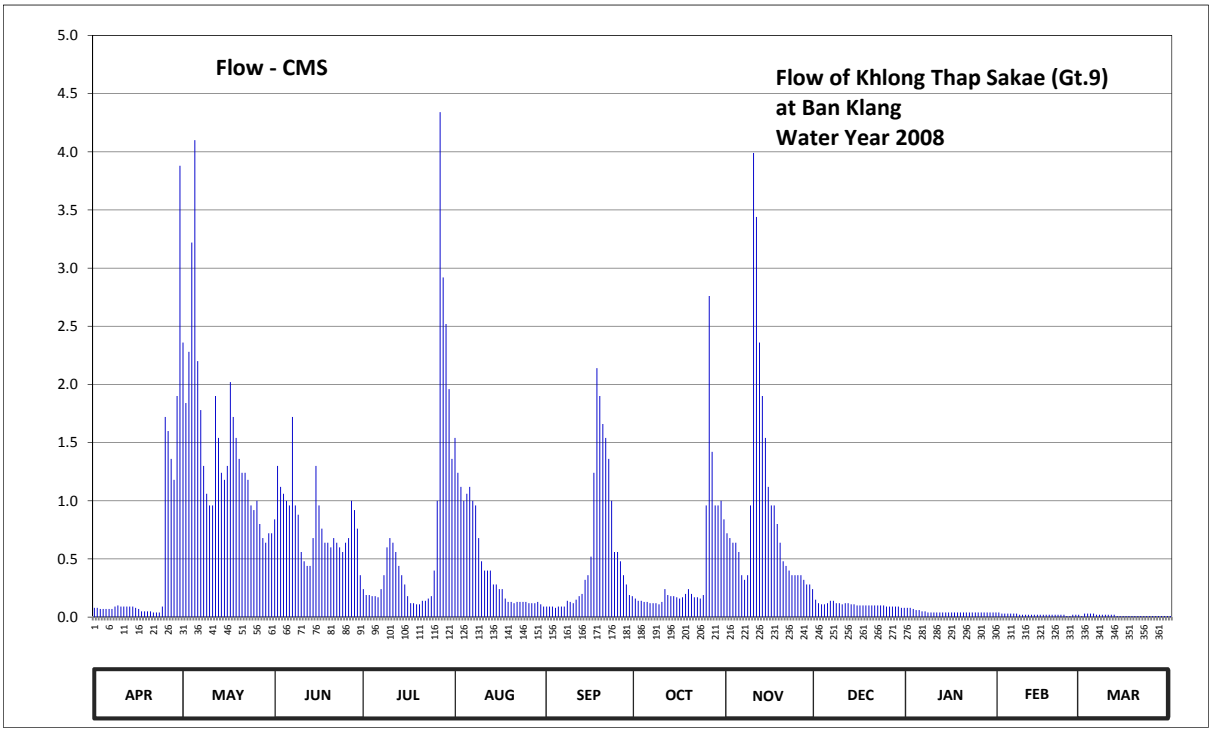
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.36	7.92	7.66	7.51	7.79	7.37	7.46	7.63	7.45	7.35	7.27	7.22	
2	7.35	7.84	7.75	7.49	7.74	7.37	7.44	7.62	7.42	7.35	7.26	7.25	
3	7.34	7.91	7.72	7.49	7.72	7.37	7.44	7.61	7.41	7.33	7.25	7.26	
4	7.34	8.02	7.71	7.48	7.70	7.36	7.43	7.61	7.41	7.32	7.25	7.25	
5	7.34	8.10	7.70	7.48	7.71	7.37	7.43	7.59	7.42	7.31	7.25	7.25	
6	7.34	7.90	7.69	7.47	7.72	7.37	7.42	7.54	7.44	7.30	7.25	7.24	
7	7.34	7.83	7.82	7.51	7.70	7.38	7.42	7.53	7.44	7.29	7.25	7.23	
8	7.37	7.75	7.69	7.54	7.69	7.44	7.42	7.54	7.42	7.28	7.24	7.23	
9	7.39	7.71	7.67	7.60	7.62	7.43	7.41	7.69	7.42	7.28	7.24	7.23	
10	7.37	7.69	7.59	7.62	7.57	7.42	7.43	8.09	7.41	7.28	7.24	7.23	
11	7.38	7.69	7.57	7.61	7.55	7.45	7.51	8.04	7.42	7.27	7.24	7.23	
12	7.38	7.85	7.56	7.59	7.55	7.48	7.49	7.92	7.42	7.27	7.24	7.23	
13	7.37	7.79	7.56	7.56	7.55	7.50	7.48	7.85	7.41	7.28	7.24	7.22	
14	7.37	7.74	7.62	7.54	7.52	7.53	7.48	7.79	7.41	7.28	7.24	7.22	
15	7.36	7.73	7.75	7.52	7.52	7.54	7.47	7.72	7.40	7.28	7.24	7.22	
16	7.34	7.75	7.69	7.48	7.51	7.58	7.46	7.69	7.40	7.28	7.23	7.22	
17	7.30	7.87	7.64	7.42	7.51	7.74	7.47	7.69	7.40	7.28	7.23	7.22	
18	7.29	7.82	7.61	7.42	7.46	7.89	7.50	7.65	7.40	7.27	7.23	7.22	
19	7.29	7.79	7.61	7.41	7.43	7.85	7.51	7.61	7.39	7.27	7.23	7.22	
20	7.29	7.76	7.60	7.41	7.43	7.81	7.50	7.57	7.39	7.27	7.23	7.22	
21	7.28	7.74	7.62	7.44	7.42	7.79	7.47	7.56	7.39	7.27	7.23	7.22	
22	7.28	7.74	7.61	7.44	7.43	7.76	7.47	7.55	7.40	7.28	7.23	7.22	
23	7.28	7.73	7.60	7.46	7.43	7.70	7.46	7.54	7.40	7.28	7.23	7.22	
24	7.37	7.69	7.59	7.48	7.43	7.59	7.49	7.54	7.40	7.28	7.22	7.22	
25	7.82	7.68	7.61	7.55	7.43	7.59	7.69	7.54	7.38	7.28	7.22	7.22	
26	7.80	7.70	7.62	7.70	7.42	7.57	7.97	7.54	7.37	7.28	7.23	7.22	
27	7.76	7.65	7.70	8.12	7.42	7.54	7.77	7.53	7.37	7.27	7.23	7.22	
28	7.73	7.62	7.68	7.99	7.42	7.52	7.69	7.52	7.37	7.27	7.23	7.22	
29	7.85	7.61	7.64	7.94	7.43	7.49	7.69	7.52	7.37	7.27		7.22	
30	8.08	7.63	7.54	7.86	7.41	7.48	7.70	7.51	7.36	7.27		7.21	
31		7.63		7.76	7.37		7.66		7.36	7.27		7.21	
Mean	7.44	7.77	7.65	7.58	7.54	7.54	7.52	7.64	7.40	7.29	7.24	7.23	
Max	8.08	8.10	7.82	8.12	7.79	7.89	7.97	8.09	7.45	7.35	7.27	7.26	8.12
Min	7.28	7.61	7.54	7.41	7.37	7.36	7.41	7.51	7.36	7.27	7.22	7.21	7.21

Annual Max Momentary Gage Height 8.17 m. (MSL.) , at 06.00 Hours , on Apr 30, 2008

Zero Gage at Bottom Elevation 6.84 m. (MSL.) , River Bed 7.01 m. (MSL.)

Left Bank Elevation 11.77 m. (MSL.) ,

Right Bank Elevation 10.88 m. (MSL.) , Drainage Are 125 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.08	2.36	0.84	0.24	1.54	0.09	0.16	0.72	0.15	0.08	0.04	0.01		
2	0.08	1.84	1.30	0.19	1.24	0.09	0.14	0.68	0.12	0.08	0.03	0.03		
3	0.07	2.28	1.12	0.19	1.12	0.09	0.14	0.64	0.11	0.07	0.03	0.03		
4	0.07	3.22	1.06	0.18	1.00	0.08	0.13	0.64	0.11	0.06	0.03	0.03		
5	0.07	4.10	1.00	0.18	1.06	0.09	0.13	0.56	0.12	0.06	0.03	0.03		
6	0.07	2.20	0.96	0.17	1.12	0.09	0.12	0.36	0.14	0.05	0.03	0.02		
7	0.07	1.78	1.72	0.24	1.00	0.09	0.12	0.32	0.14	0.05	0.03	0.02		
8	0.09	1.30	0.96	0.36	0.96	0.14	0.12	0.36	0.12	0.04	0.02	0.02		
9	0.10	1.06	0.88	0.60	0.68	0.13	0.11	0.96	0.12	0.04	0.02	0.02		
10	0.09	0.96	0.56	0.68	0.48	0.12	0.13	3.99	0.11	0.04	0.02	0.02		
11	0.09	0.96	0.48	0.64	0.40	0.15	0.24	3.44	0.12	0.04	0.02	0.02		
12	0.09	1.90	0.44	0.56	0.40	0.18	0.19	2.36	0.12	0.04	0.02	0.02		
13	0.09	1.54	0.44	0.44	0.40	0.20	0.18	1.90	0.11	0.04	0.02	0.01		
14	0.09	1.24	0.68	0.36	0.28	0.32	0.18	1.54	0.11	0.04	0.02	0.01		
15	0.08	1.18	1.30	0.28	0.28	0.36	0.17	1.12	0.10	0.04	0.02	0.01		
16	0.07	1.30	0.96	0.18	0.24	0.52	0.16	0.96	0.10	0.04	0.02	0.01		
17	0.05	2.02	0.76	0.12	0.24	1.24	0.17	0.96	0.10	0.04	0.02	0.01		
18	0.05	1.72	0.64	0.12	0.16	2.14	0.20	0.80	0.10	0.04	0.02	0.01		
19	0.05	1.54	0.64	0.11	0.13	1.90	0.24	0.64	0.10	0.04	0.02	0.01		
20	0.05	1.36	0.60	0.11	0.13	1.66	0.20	0.48	0.10	0.04	0.02	0.01		
21	0.04	1.24	0.68	0.14	0.12	1.54	0.17	0.44	0.10	0.04	0.02	0.01		
22	0.04	1.24	0.64	0.14	0.13	1.36	0.17	0.40	0.10	0.04	0.02	0.01		
23	0.04	1.18	0.60	0.16	0.13	1.00	0.16	0.36	0.10	0.04	0.02	0.01		
24	0.09	0.96	0.56	0.18	0.13	0.56	0.19	0.36	0.10	0.04	0.01	0.01		
25	1.72	0.92	0.64	0.40	0.13	0.56	0.96	0.36	0.09	0.04	0.01	0.01		
26	1.60	1.00	0.68	1.00	0.12	0.48	2.76	0.36	0.09	0.04	0.02	0.01		
27	1.36	0.80	1.00	4.34	0.12	0.36	1.42	0.32	0.09	0.04	0.02	0.01		
28	1.18	0.68	0.92	2.92	0.12	0.28	0.96	0.28	0.09	0.04	0.02	0.01		
29	1.90	0.64	0.76	2.52	0.13	0.19	0.96	0.28	0.09	0.04		0.01		
30	3.88	0.72	0.36	1.96	0.11	0.18	1.00	0.24	0.08	0.04		0.01		
31		0.72		1.36	0.09		0.84		0.08	0.04		0.01		
Total	13.35	45.96	24.18	21.07	14.19	16.19	12.82	26.83	3.31	1.41	0.62	0.46	180.39	CMSDAY
Mean	0.45	1.48	0.81	0.68	0.46	0.54	0.41	0.89	0.11	0.05	0.02	0.01	0.49	CMS
Max	3.88	4.10	1.72	4.34	1.54	2.14	2.76	3.99	0.15	0.08	0.04	0.03	4.34	CMS
Min	0.04	0.64	0.36	0.11	0.09	0.08	0.11	0.24	0.08	0.04	0.01	0.01	0.01	CMS
Runoff	1.15	3.97	2.09	1.82	1.23	1.40	1.11	2.32	0.29	0.12	0.05	0.04	15.59	MCM

Momentary Peak 4.94 CMS. at 8.17 m. (MSL.) at 06.00 Hours , on Apr 30, 2008

Runoff Yield 3.95 Liters/Second/Square KM. Momentary Peak Yield 39.52 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +30.539 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 mean of 5 readings
Period of Available Gage Records	1979 to date
Rating Operation	
Period of Rating	1980 to date
Rated by Float	-
Rated by Current Meter	1980 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

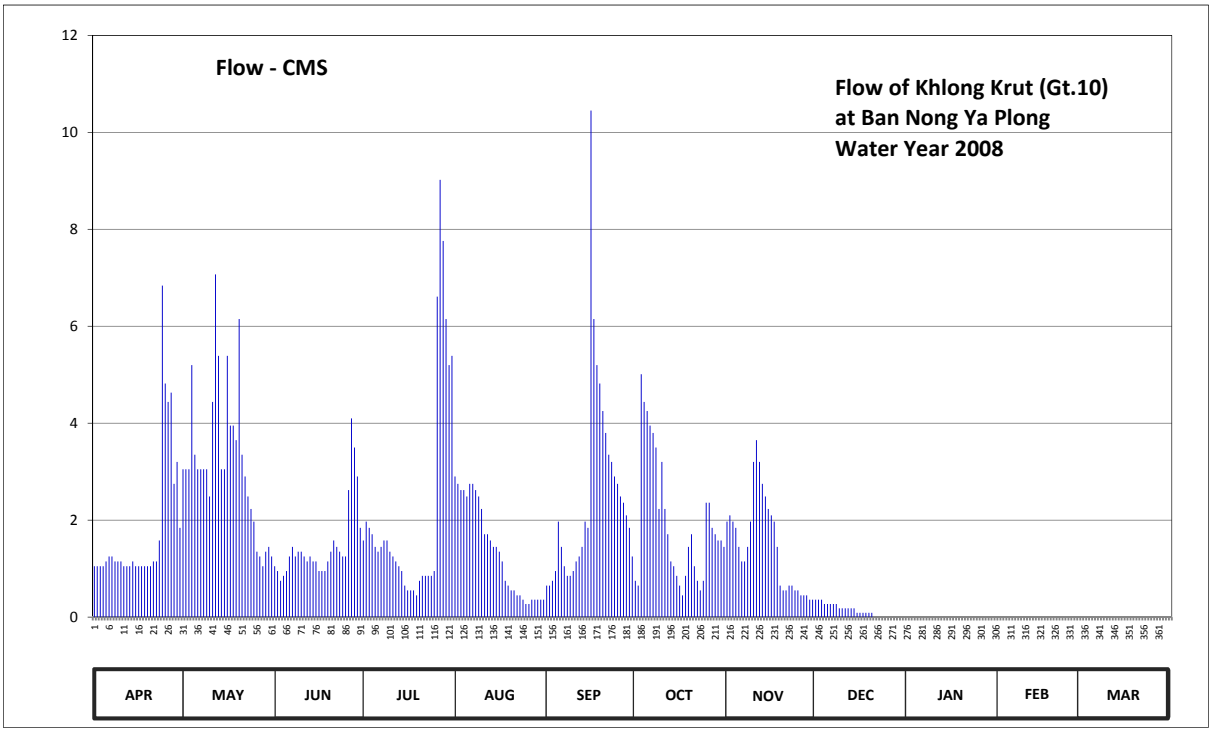
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	24.46	24.62	24.46	24.51	24.61	24.42	24.43	24.54	24.39	24.31	24.30	24.29	
2	24.46	24.62	24.45	24.54	24.60	24.42	24.42	24.55	24.39	24.31	24.30	24.30	
3	24.46	24.62	24.43	24.53	24.59	24.43	24.74	24.54	24.39	24.31	24.30	24.31	
4	24.46	24.75	24.44	24.52	24.59	24.45	24.71	24.53	24.38	24.31	24.30	24.31	
5	24.47	24.64	24.45	24.50	24.58	24.54	24.70	24.50	24.38	24.30	24.31	24.31	
6	24.48	24.62	24.48	24.49	24.60	24.50	24.68	24.47	24.38	24.30	24.31	24.31	
7	24.48	24.62	24.50	24.50	24.60	24.46	24.67	24.47	24.38	24.30	24.31	24.31	
8	24.47	24.62	24.48	24.51	24.59	24.44	24.65	24.50	24.38	24.30	24.30	24.30	
9	24.47	24.62	24.49	24.51	24.58	24.44	24.56	24.54	24.37	24.31	24.29	24.30	
10	24.47	24.58	24.49	24.49	24.56	24.45	24.63	24.63	24.37	24.31	24.29	24.30	
11	24.46	24.71	24.48	24.48	24.52	24.47	24.56	24.66	24.37	24.31	24.29	24.30	
12	24.46	24.84	24.47	24.47	24.52	24.48	24.52	24.63	24.37	24.31	24.29	24.30	
13	24.46	24.76	24.48	24.46	24.51	24.50	24.47	24.60	24.37	24.31	24.29	24.29	
14	24.47	24.62	24.47	24.45	24.50	24.54	24.46	24.58	24.37	24.31	24.29	24.29	
15	24.46	24.62	24.47	24.42	24.50	24.53	24.44	24.56	24.36	24.31	24.29	24.29	
16	24.46	24.76	24.45	24.41	24.49	24.97	24.42	24.55	24.36	24.30	24.29	24.29	
17	24.46	24.68	24.45	24.41	24.47	24.80	24.40	24.54	24.36	24.30	24.29	24.29	
18	24.46	24.68	24.45	24.41	24.43	24.75	24.44	24.50	24.36	24.30	24.29	24.29	
19	24.46	24.66	24.47	24.40	24.42	24.73	24.50	24.42	24.36	24.30	24.28	24.29	
20	24.46	24.80	24.49	24.43	24.41	24.70	24.52	24.41	24.36	24.30	24.28	24.29	
21	24.47	24.64	24.51	24.44	24.41	24.67	24.46	24.41	24.35	24.31	24.28	24.29	
22	24.47	24.61	24.50	24.44	24.40	24.64	24.43	24.42	24.35	24.31	24.28	24.29	
23	24.51	24.58	24.49	24.44	24.40	24.63	24.41	24.42	24.35	24.31	24.28	24.30	
24	24.83	24.56	24.48	24.44	24.39	24.61	24.43	24.41	24.34	24.31	24.29	24.30	
25	24.73	24.54	24.48	24.45	24.38	24.60	24.57	24.41	24.34	24.31	24.29	24.30	
26	24.71	24.49	24.59	24.82	24.38	24.58	24.57	24.40	24.34	24.31	24.29	24.30	
27	24.72	24.48	24.69	24.92	24.39	24.57	24.53	24.40	24.34	24.31	24.29	24.30	
28	24.60	24.46	24.65	24.87	24.39	24.55	24.52	24.40	24.33	24.30	24.29	24.30	
29	24.63	24.49	24.61	24.80	24.39	24.53	24.51	24.39	24.33	24.30		24.30	
30	24.53	24.50	24.53	24.75	24.39	24.48	24.51	24.39	24.32	24.30		24.29	
31		24.48		24.76	24.39		24.50		24.32	24.30		24.29	
Mean	24.52	24.62	24.50	24.53	24.48	24.56	24.53	24.49	24.36	24.31	24.29	24.30	
Max	24.83	24.84	24.69	24.92	24.61	24.97	24.74	24.66	24.39	24.31	24.31	24.31	24.97
Min	24.46	24.46	24.43	24.40	24.38	24.42	24.40	24.39	24.32	24.30	24.28	24.29	24.28

Annual Max Momentary Gage Height 25.21 m. (MSL.) , at 18.00 Hours , on Sep 16, 2008

Zero Gage at Bottom Elevation 25.36 m. (MSL.) , River Bed 24.40 m. (MSL.)

Left Bank Elevation 29.33 m. (MSL.) ,

Right Bank Elevation 28.84 m. (MSL.) , Drainage Are 113 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.05	3.05	1.05	1.58	2.90	0.65	0.75	1.97	0.36	0.00	0.00	0.00		
2	1.05	3.05	0.95	1.97	2.75	0.65	0.65	2.10	0.36	0.00	0.00	0.00		
3	1.05	3.05	0.75	1.84	2.62	0.75	5.01	1.97	0.36	0.00	0.00	0.00		
4	1.05	5.20	0.85	1.71	2.62	0.95	4.44	1.84	0.27	0.00	0.00	0.00		
5	1.15	3.35	0.95	1.45	2.49	1.97	4.25	1.45	0.27	0.00	0.00	0.00		
6	1.25	3.05	1.25	1.35	2.75	1.45	3.95	1.15	0.27	0.00	0.00	0.00		
7	1.25	3.05	1.45	1.45	2.75	1.05	3.80	1.15	0.27	0.00	0.00	0.00		
8	1.15	3.05	1.25	1.58	2.62	0.85	3.50	1.45	0.27	0.00	0.00	0.00		
9	1.15	3.05	1.35	1.58	2.49	0.85	2.23	1.97	0.18	0.00	0.00	0.00		
10	1.15	2.49	1.35	1.35	2.23	0.95	3.20	3.20	0.18	0.00	0.00	0.00		
11	1.05	4.44	1.25	1.25	1.71	1.15	2.23	3.65	0.18	0.00	0.00	0.00		
12	1.05	7.07	1.15	1.15	1.71	1.25	1.71	3.20	0.18	0.00	0.00	0.00		
13	1.05	5.39	1.25	1.05	1.58	1.45	1.15	2.75	0.18	0.00	0.00	0.00		
14	1.15	3.05	1.15	0.95	1.45	1.97	1.05	2.49	0.18	0.00	0.00	0.00		
15	1.05	3.05	1.15	0.65	1.45	1.84	0.85	2.23	0.09	0.00	0.00	0.00		
16	1.05	5.39	0.95	0.55	1.35	10.45	0.65	2.10	0.09	0.00	0.00	0.00		
17	1.05	3.95	0.95	0.55	1.15	6.15	0.45	1.97	0.09	0.00	0.00	0.00		
18	1.05	3.95	0.95	0.55	0.75	5.20	0.85	1.45	0.09	0.00	0.00	0.00		
19	1.05	3.65	1.15	0.45	0.65	4.82	1.45	0.65	0.09	0.00	0.00	0.00		
20	1.05	6.15	1.35	0.75	0.55	4.25	1.71	0.55	0.09	0.00	0.00	0.00		
21	1.15	3.35	1.58	0.85	0.55	3.80	1.05	0.55	0.00	0.00	0.00	0.00		
22	1.15	2.90	1.45	0.85	0.45	3.35	0.75	0.65	0.00	0.00	0.00	0.00		
23	1.58	2.49	1.35	0.85	0.45	3.20	0.55	0.65	0.00	0.00	0.00	0.00		
24	6.84	2.23	1.25	0.85	0.36	2.90	0.75	0.55	0.00	0.00	0.00	0.00		
25	4.82	1.97	1.25	0.95	0.27	2.75	2.36	0.55	0.00	0.00	0.00	0.00		
26	4.44	1.35	2.62	6.61	0.27	2.49	2.36	0.45	0.00	0.00	0.00	0.00		
27	4.63	1.25	4.10	9.02	0.36	2.36	1.84	0.45	0.00	0.00	0.00	0.00		
28	2.75	1.05	3.50	7.76	0.36	2.10	1.71	0.45	0.00	0.00	0.00	0.00		
29	3.20	1.35	2.90	6.15	0.36	1.84	1.58	0.36	0.00	0.00		0.00		
30	1.84	1.45	1.84	5.20	0.36	1.25	1.58	0.36	0.00	0.00		0.00		
31		1.25		5.39	0.36		1.45		0.00	0.00		0.00		
Total	54.30	99.12	44.34	68.24	42.72	74.69	59.86	44.31	4.05	0.00	0.00	0.00	491.63	CMSDAY
Mean	1.81	3.20	1.48	2.20	1.38	2.49	1.93	1.48	0.13	0.00	0.00	0.00	1.35	CMS
Max	6.84	7.07	4.10	9.02	2.90	10.45	5.01	3.65	0.36	0.00	0.00	0.00	10.45	CMS
Min	1.05	1.05	0.75	0.45	0.27	0.65	0.45	0.36	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	4.69	8.56	3.83	5.90	3.69	6.45	5.17	3.83	0.35	0.00	0.00	0.00	42.48	MCM

Momentary Peak 19.71 CMS. at 25.21 m. (MSL.) at 18.00 Hours , on Sep 16, 2008

Runoff Yield 11.92 Liters/Second/Square KM. Momentary Peak Yield 174.42 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +37.355 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 mean of 5 readings
Period of Available Gage Records	1979 to date
Rating Operation	
Period of Rating	1980 to date
Rated by Float	-
Rated by Current Meter	1980 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 27 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

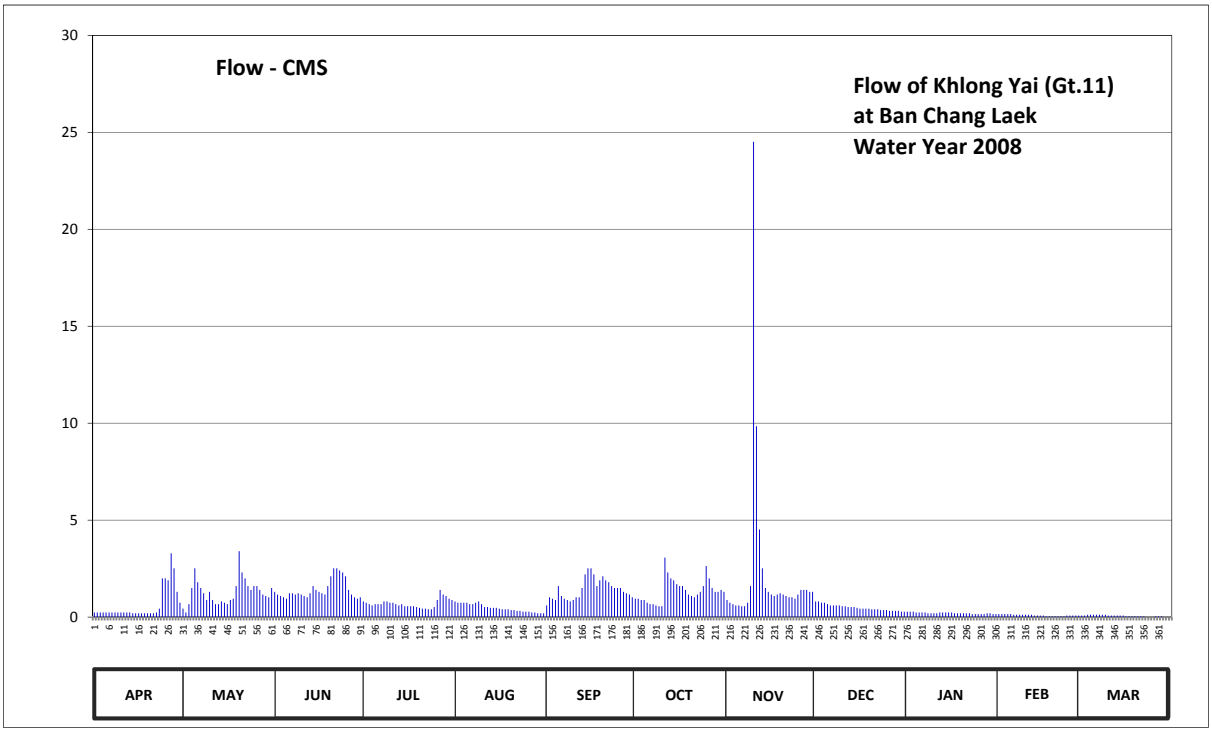
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	37.51	37.56	37.70	37.63	37.63	37.60	37.65	37.64	37.63	37.52	37.49	37.47	
2	37.51	37.51	37.68	37.62	37.62	37.66	37.65	37.62	37.63	37.52	37.49	37.47	
3	37.51	37.61	37.67	37.61	37.62	37.65	37.64	37.61	37.62	37.52	37.49	37.48	
4	37.51	37.72	37.66	37.60	37.62	37.64	37.64	37.60	37.62	37.51	37.49	37.48	
5	37.51	37.82	37.65	37.61	37.62	37.73	37.62	37.60	37.61	37.51	37.49	37.48	
6	37.51	37.75	37.69	37.61	37.61	37.67	37.61	37.59	37.60	37.51	37.48	37.48	
7	37.51	37.72	37.69	37.61	37.61	37.65	37.61	37.59	37.60	37.51	37.48	37.48	
8	37.51	37.69	37.68	37.63	37.62	37.64	37.60	37.62	37.60	37.50	37.48	37.48	
9	37.51	37.64	37.69	37.63	37.63	37.63	37.59	37.73	37.60	37.50	37.48	37.48	
10	37.51	37.70	37.68	37.62	37.61	37.64	37.59	38.78	37.59	37.50	37.48	37.47	
11	37.51	37.64	37.67	37.62	37.58	37.66	37.87	38.27	37.59	37.50	37.48	37.47	
12	37.51	37.61	37.66	37.61	37.58	37.66	37.80	37.98	37.58	37.51	37.48	37.47	
13	37.51	37.61	37.69	37.60	37.57	37.72	37.77	37.82	37.58	37.51	37.47	37.47	
14	37.50	37.63	37.73	37.61	37.57	37.79	37.76	37.72	37.58	37.51	37.47	37.47	
15	37.50	37.62	37.71	37.59	37.57	37.82	37.74	37.70	37.57	37.51	37.47	37.47	
16	37.50	37.61	37.70	37.59	37.56	37.82	37.73	37.68	37.56	37.51	37.47	37.46	
17	37.50	37.64	37.69	37.59	37.55	37.79	37.73	37.67	37.56	37.50	37.46	37.46	
18	37.50	37.65	37.68	37.59	37.55	37.73	37.71	37.68	37.56	37.50	37.46	37.46	
19	37.50	37.73	37.73	37.58	37.55	37.76	37.68	37.69	37.56	37.50	37.46	37.46	
20	37.50	37.90	37.78	37.57	37.54	37.78	37.67	37.68	37.55	37.50	37.46	37.46	
21	37.50	37.80	37.82	37.56	37.54	37.76	37.66	37.67	37.55	37.50	37.46	37.46	
22	37.51	37.77	37.82	37.56	37.53	37.75	37.68	37.66	37.55	37.50	37.46	37.46	
23	37.56	37.73	37.81	37.55	37.53	37.73	37.70	37.66	37.54	37.49	37.46	37.45	
24	37.77	37.71	37.80	37.55	37.52	37.72	37.73	37.65	37.54	37.49	37.47	37.45	
25	37.77	37.73	37.78	37.58	37.52	37.72	37.83	37.68	37.54	37.49	37.47	37.45	
26	37.76	37.73	37.71	37.64	37.52	37.72	37.77	37.71	37.53	37.49	37.47	37.46	
27	37.89	37.71	37.68	37.71	37.51	37.70	37.72	37.71	37.53	37.49	37.47	37.46	
28	37.82	37.68	37.66	37.68	37.51	37.69	37.70	37.71	37.53	37.50	37.47	37.46	
29	37.70	37.67	37.65	37.67	37.50	37.68	37.70	37.70	37.53	37.50		37.45	
30	37.62	37.66	37.66	37.65	37.50	37.66	37.71	37.70	37.52	37.49		37.45	
31		37.72		37.64	37.50		37.70		37.52	37.49		37.45	
Mean	37.57	37.69	37.71	37.61	37.56	37.71	37.70	37.74	37.57	37.50	37.47	37.47	
Max	37.89	37.90	37.82	37.71	37.63	37.82	37.87	38.78	37.63	37.52	37.49	37.48	38.78
Min	37.50	37.51	37.65	37.55	37.50	37.60	37.59	37.59	37.52	37.49	37.46	37.45	37.45

Annual Max Momentary Gage Height 38.90 m. (MSL.) , at 06.00 Hours , on Nov 10, 2008

Zero Gage at Bottom Elevation 36.38 m. (MSL.) , River Bed 37.13 m. (MSL.)

Left Bank Elevation 44.89 m. (MSL.) ,

Right Bank Elevation 45.29 m. (MSL.) , Drainage Are 61 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.24	0.44	1.30	0.81	0.81	0.60	0.95	0.88	0.81	0.28	0.16	0.08		
2	0.24	0.24	1.16	0.74	0.74	1.02	0.95	0.74	0.81	0.28	0.16	0.08		
3	0.24	0.67	1.09	0.67	0.74	0.95	0.88	0.67	0.74	0.28	0.16	0.12		
4	0.24	1.50	1.02	0.60	0.74	0.88	0.88	0.60	0.74	0.24	0.16	0.12		
5	0.24	2.52	0.95	0.67	0.74	1.60	0.74	0.60	0.67	0.24	0.16	0.12		
6	0.24	1.80	1.23	0.67	0.67	1.09	0.67	0.56	0.60	0.24	0.12	0.12		
7	0.24	1.50	1.23	0.67	0.67	0.95	0.67	0.56	0.60	0.24	0.12	0.12		
8	0.24	1.23	1.16	0.81	0.74	0.88	0.60	0.74	0.60	0.20	0.12	0.12		
9	0.24	0.88	1.23	0.81	0.81	0.81	0.56	1.60	0.60	0.20	0.12	0.12		
10	0.24	1.30	1.16	0.74	0.67	0.88	0.56	24.52	0.56	0.20	0.12	0.08		
11	0.24	0.88	1.09	0.74	0.52	1.02	3.07	9.84	0.56	0.20	0.12	0.08		
12	0.24	0.67	1.02	0.67	0.52	1.02	2.30	4.52	0.52	0.24	0.12	0.08		
13	0.24	0.67	1.23	0.60	0.48	1.50	2.00	2.52	0.52	0.24	0.08	0.08		
14	0.20	0.81	1.60	0.67	0.48	2.20	1.90	1.50	0.52	0.24	0.08	0.08		
15	0.20	0.74	1.40	0.56	0.48	2.52	1.70	1.30	0.48	0.24	0.08	0.08		
16	0.20	0.67	1.30	0.56	0.44	2.52	1.60	1.16	0.44	0.24	0.08	0.04		
17	0.20	0.88	1.23	0.56	0.40	2.20	1.60	1.09	0.44	0.20	0.04	0.04		
18	0.20	0.95	1.16	0.56	0.40	1.60	1.40	1.16	0.44	0.20	0.04	0.04		
19	0.20	1.60	1.60	0.52	0.40	1.90	1.16	1.23	0.44	0.20	0.04	0.04		
20	0.20	3.40	2.10	0.48	0.36	2.10	1.09	1.16	0.40	0.20	0.04	0.04		
21	0.20	2.30	2.52	0.44	0.36	1.90	1.02	1.09	0.40	0.20	0.04	0.04		
22	0.24	2.00	2.52	0.44	0.32	1.80	1.16	1.02	0.40	0.20	0.04	0.04		
23	0.44	1.60	2.41	0.40	0.32	1.60	1.30	1.02	0.36	0.16	0.04	0.00		
24	2.00	1.40	2.30	0.40	0.28	1.50	1.60	0.95	0.36	0.16	0.08	0.00		
25	2.00	1.60	2.10	0.52	0.28	1.50	2.63	1.16	0.36	0.16	0.08	0.00		
26	1.90	1.60	1.40	0.88	0.28	1.50	2.00	1.40	0.32	0.16	0.08	0.04		
27	3.29	1.40	1.16	1.40	0.24	1.30	1.50	1.40	0.32	0.16	0.08	0.04		
28	2.52	1.16	1.02	1.16	0.24	1.23	1.30	1.40	0.32	0.20	0.08	0.04		
29	1.30	1.09	0.95	1.09	0.20	1.16	1.30	1.30	0.32	0.20		0.00		
30	0.74	1.02	1.02	0.95	0.20	1.02	1.40	1.30	0.28	0.16		0.00		
31		1.50		0.88	0.20		1.30		0.28	0.16		0.00		
Total	19.15	40.02	42.66	21.67	14.73	42.75	41.79	68.99	15.21	6.52	2.64	1.88	318.01	CMSDAY
Mean	0.64	1.29	1.42	0.70	0.48	1.42	1.35	2.30	0.49	0.21	0.09	0.06	0.87	CMS
Max	3.29	3.40	2.52	1.40	0.81	2.52	3.07	24.52	0.81	0.28	0.16	0.12	24.52	CMS
Min	0.20	0.24	0.95	0.40	0.20	0.60	0.56	0.56	0.28	0.16	0.04	0.00	0.00	CMS
Runoff	1.65	3.46	3.69	1.87	1.27	3.69	3.61	5.96	1.31	0.56	0.23	0.16	27.48	MCM

Momentary Peak 29.00 CMS. at 38.90 m. (MSL.) at 06.00 Hours , on Nov 10, 2008

Runoff Yield 14.28 Liters/Second/Square KM. Momentary Peak Yield 475.41 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Float	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 24 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

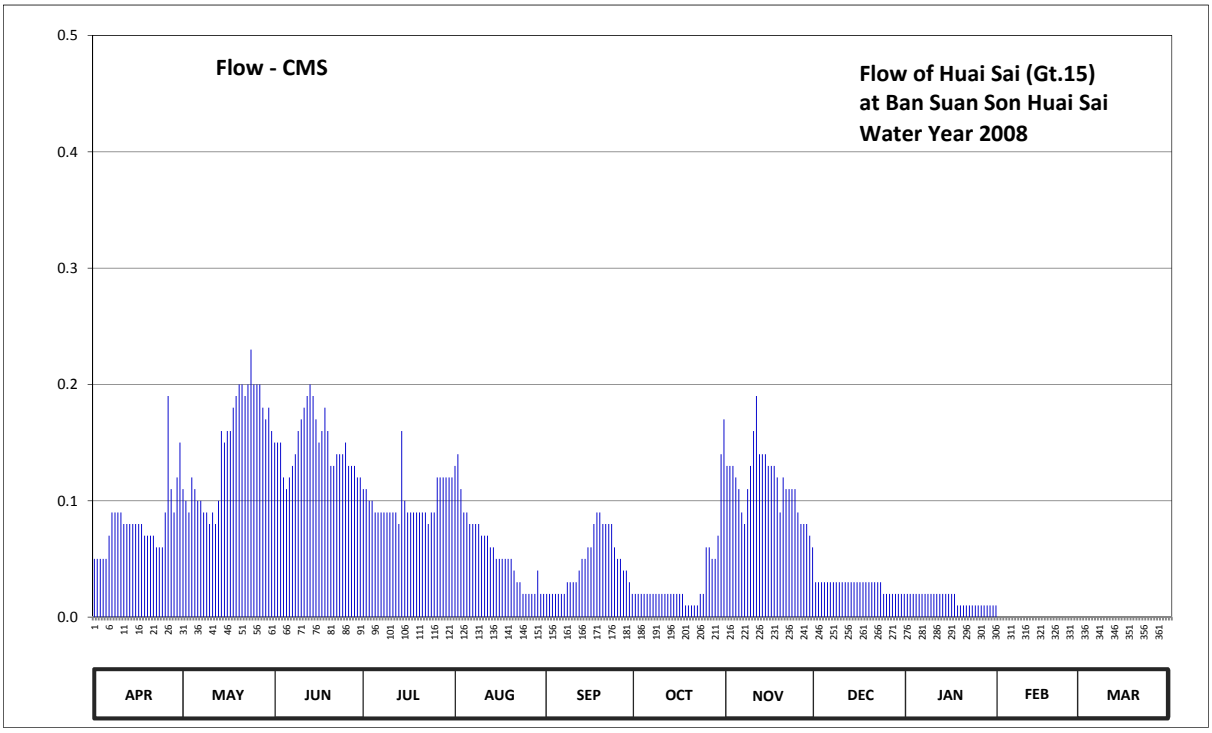
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.62	15.71	15.75	15.71	15.73	15.58	15.58	15.73	15.59	15.57	15.55	15.54	
2	15.62	15.70	15.75	15.71	15.74	15.58	15.58	15.73	15.59	15.57	15.55	15.54	
3	15.62	15.69	15.75	15.70	15.71	15.58	15.58	15.73	15.59	15.57	15.55	15.54	
4	15.62	15.72	15.72	15.70	15.69	15.58	15.57	15.72	15.59	15.57	15.55	15.54	
5	15.62	15.71	15.71	15.69	15.68	15.58	15.57	15.71	15.59	15.57	15.55	15.54	
6	15.65	15.70	15.72	15.69	15.67	15.58	15.57	15.69	15.59	15.57	15.55	15.54	
7	15.69	15.70	15.73	15.69	15.67	15.58	15.57	15.67	15.59	15.57	15.55	15.54	
8	15.69	15.69	15.74	15.69	15.66	15.59	15.57	15.71	15.59	15.57	15.55	15.54	
9	15.68	15.68	15.76	15.69	15.66	15.59	15.57	15.73	15.59	15.57	15.55	15.54	
10	15.68	15.67	15.77	15.68	15.65	15.59	15.57	15.76	15.59	15.57	15.55	15.54	
11	15.67	15.68	15.78	15.68	15.65	15.59	15.57	15.79	15.59	15.57	15.55	15.54	
12	15.67	15.67	15.79	15.68	15.65	15.60	15.57	15.74	15.59	15.57	15.55	15.54	
13	15.66	15.70	15.80	15.67	15.64	15.61	15.57	15.74	15.59	15.57	15.55	15.54	
14	15.66	15.76	15.79	15.76	15.63	15.61	15.57	15.74	15.59	15.57	15.55	15.54	
15	15.66	15.75	15.77	15.70	15.62	15.63	15.57	15.73	15.59	15.57	15.55	15.54	
16	15.66	15.76	15.75	15.69	15.62	15.64	15.57	15.73	15.59	15.57	15.55	15.54	
17	15.66	15.76	15.76	15.69	15.62	15.66	15.57	15.73	15.59	15.57	15.55	15.54	
18	15.65	15.78	15.78	15.68	15.62	15.68	15.56	15.72	15.59	15.56	15.55	15.54	
19	15.65	15.79	15.76	15.68	15.61	15.68	15.56	15.69	15.59	15.56	15.54	15.54	
20	15.65	15.80	15.73	15.68	15.61	15.67	15.56	15.72	15.59	15.56	15.54	15.54	
21	15.65	15.80	15.73	15.68	15.60	15.67	15.56	15.71	15.59	15.56	15.54	15.54	
22	15.64	15.79	15.74	15.68	15.59	15.66	15.56	15.71	15.59	15.56	15.54	15.54	
23	15.64	15.80	15.74	15.67	15.59	15.66	15.58	15.71	15.59	15.56	15.54	15.54	
24	15.64	15.81	15.74	15.68	15.58	15.64	15.58	15.71	15.58	15.56	15.54	15.54	
25	15.68	15.80	15.75	15.68	15.58	15.61	15.64	15.69	15.58	15.56	15.54	15.54	
26	15.79	15.80	15.73	15.72	15.58	15.61	15.63	15.67	15.58	15.56	15.54	15.54	
27	15.71	15.80	15.73	15.72	15.58	15.60	15.62	15.66	15.58	15.56	15.54	15.54	
28	15.68	15.78	15.73	15.72	15.58	15.60	15.62	15.66	15.58	15.56	15.54	15.54	
29	15.72	15.77	15.72	15.72	15.60	15.59	15.65	15.65	15.58	15.56		15.54	
30	15.75	15.78	15.72	15.72	15.58	15.58	15.74	15.63	15.58	15.56		15.54	
31		15.76		15.72	15.58		15.77		15.58	15.56		15.54	
Mean	15.67	15.75	15.75	15.70	15.63	15.61	15.59	15.71	15.59	15.57	15.55	15.54	
Max	15.79	15.81	15.80	15.76	15.74	15.68	15.77	15.79	15.59	15.57	15.55	15.54	15.81
Min	15.62	15.67	15.71	15.67	15.58	15.58	15.56	15.63	15.58	15.56	15.54	15.54	15.54

Annual Max Momentary Gage Height 15.82 m. (MSL.) , at 06.00 Hours , on Apr 26, 2008

Zero Gage at Bottom Elevation 15.86 m. (MSL.) , River Bed 15.33 m. (MSL.)

Left Bank Elevation 21.70 m. (MSL.) ,

Right Bank Elevation 20.31 m. (MSL.) , Drainage Are 25 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.05	0.11	0.15	0.11	0.13	0.02	0.02	0.13	0.03	0.02	0.00	0.00		
2	0.05	0.10	0.15	0.11	0.14	0.02	0.02	0.13	0.03	0.02	0.00	0.00		
3	0.05	0.09	0.15	0.10	0.11	0.02	0.02	0.13	0.03	0.02	0.00	0.00		
4	0.05	0.12	0.12	0.10	0.09	0.02	0.02	0.12	0.03	0.02	0.00	0.00		
5	0.05	0.11	0.11	0.09	0.09	0.02	0.02	0.11	0.03	0.02	0.00	0.00		
6	0.07	0.10	0.12	0.09	0.08	0.02	0.02	0.09	0.03	0.02	0.00	0.00		
7	0.09	0.10	0.13	0.09	0.08	0.02	0.02	0.08	0.03	0.02	0.00	0.00		
8	0.09	0.09	0.14	0.09	0.08	0.03	0.02	0.11	0.03	0.02	0.00	0.00		
9	0.09	0.09	0.16	0.09	0.08	0.03	0.02	0.13	0.03	0.02	0.00	0.00		
10	0.09	0.08	0.17	0.09	0.07	0.03	0.02	0.16	0.03	0.02	0.00	0.00		
11	0.08	0.09	0.18	0.09	0.07	0.03	0.02	0.19	0.03	0.02	0.00	0.00		
12	0.08	0.08	0.19	0.09	0.07	0.04	0.02	0.14	0.03	0.02	0.00	0.00		
13	0.08	0.10	0.20	0.08	0.06	0.05	0.02	0.14	0.03	0.02	0.00	0.00		
14	0.08	0.16	0.19	0.16	0.06	0.05	0.02	0.14	0.03	0.02	0.00	0.00		
15	0.08	0.15	0.17	0.10	0.05	0.06	0.02	0.13	0.03	0.02	0.00	0.00		
16	0.08	0.16	0.15	0.09	0.05	0.06	0.02	0.13	0.03	0.02	0.00	0.00		
17	0.08	0.16	0.16	0.09	0.05	0.08	0.02	0.13	0.03	0.02	0.00	0.00		
18	0.07	0.18	0.18	0.09	0.05	0.09	0.01	0.12	0.03	0.01	0.00	0.00		
19	0.07	0.19	0.16	0.09	0.05	0.09	0.01	0.09	0.03	0.01	0.00	0.00		
20	0.07	0.20	0.13	0.09	0.05	0.08	0.01	0.12	0.03	0.01	0.00	0.00		
21	0.07	0.20	0.13	0.09	0.04	0.08	0.01	0.11	0.03	0.01	0.00	0.00		
22	0.06	0.19	0.14	0.09	0.03	0.08	0.01	0.11	0.03	0.01	0.00	0.00		
23	0.06	0.20	0.14	0.08	0.03	0.08	0.02	0.11	0.03	0.01	0.00	0.00		
24	0.06	0.23	0.14	0.09	0.02	0.06	0.02	0.11	0.02	0.01	0.00	0.00		
25	0.09	0.20	0.15	0.09	0.02	0.05	0.06	0.09	0.02	0.01	0.00	0.00		
26	0.19	0.20	0.13	0.12	0.02	0.05	0.06	0.08	0.02	0.01	0.00	0.00		
27	0.11	0.20	0.13	0.12	0.02	0.04	0.05	0.08	0.02	0.01	0.00	0.00		
28	0.09	0.18	0.13	0.12	0.02	0.04	0.05	0.08	0.02	0.01	0.00	0.00		
29	0.12	0.17	0.12	0.12	0.04	0.03	0.07	0.07	0.02	0.01		0.00		
30	0.15	0.18	0.12	0.12	0.02	0.02	0.14	0.06	0.02	0.01		0.00		
31		0.16		0.12	0.02		0.17		0.02	0.01		0.00		
Total	2.45	4.57	4.44	3.09	1.79	1.39	1.03	3.42	0.85	0.48	0.00	0.00	23.51	CMSDAY
Mean	0.08	0.15	0.15	0.10	0.06	0.05	0.03	0.11	0.03	0.02	0.00	0.00	0.06	CMS
Max	0.19	0.23	0.20	0.16	0.14	0.09	0.17	0.19	0.03	0.02	0.00	0.00	0.23	CMS
Min	0.05	0.08	0.11	0.08	0.02	0.02	0.01	0.06	0.02	0.01	0.00	0.00	0.00	CMS
Runoff	0.21	0.39	0.38	0.27	0.15	0.12	0.09	0.30	0.07	0.04	0.00	0.00	2.03	MCM

Momentary Peak 0.25 CMS. at 15.82 m. (MSL.) at 06.00 Hours , on Apr 26, 2008

Runoff Yield 2.58 Liters/Second/Square KM. Momentary Peak Yield 10.00 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	48 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+10.870 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 mean of 5 readings
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Float	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 33 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

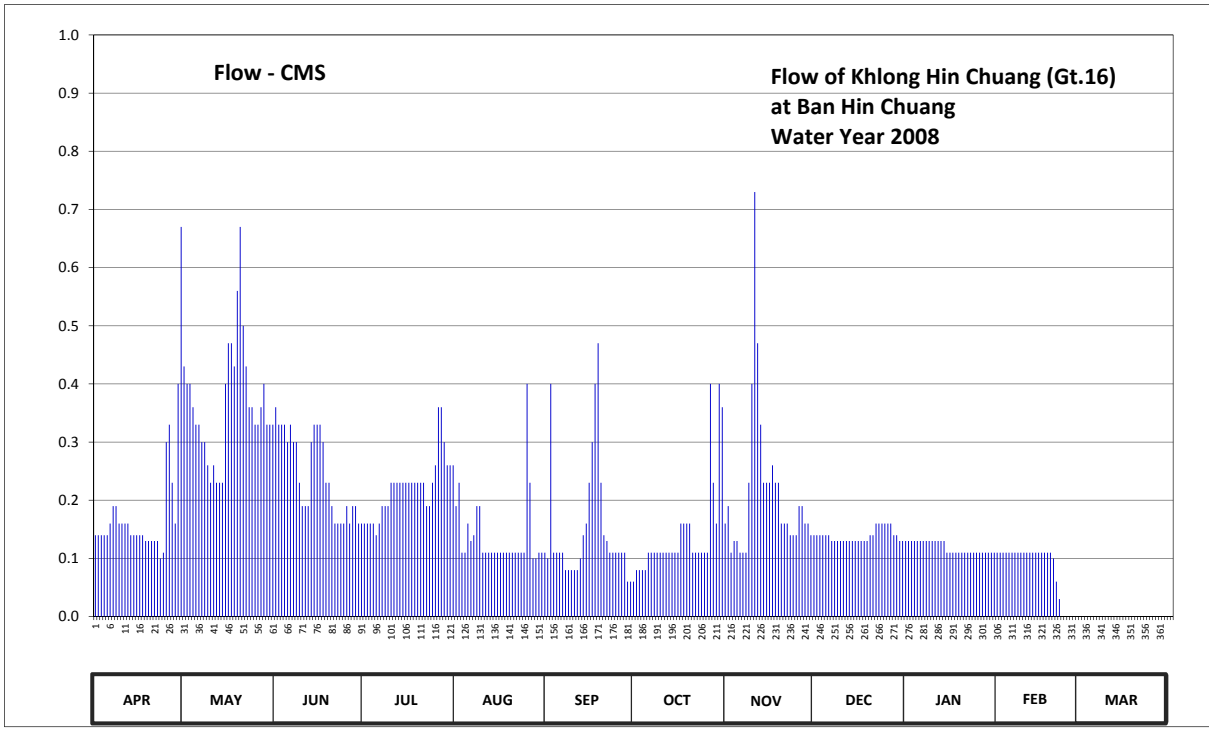
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.59	11.68	11.66	11.60	11.61	11.56	11.55	11.61	11.59	11.58	11.57	11.50	
2	11.59	11.67	11.65	11.60	11.62	11.67	11.55	11.57	11.59	11.58	11.57	11.50	
3	11.59	11.67	11.65	11.60	11.57	11.57	11.55	11.58	11.59	11.58	11.57	11.50	
4	11.59	11.66	11.65	11.60	11.57	11.57	11.55	11.58	11.59	11.58	11.57	11.50	
5	11.59	11.65	11.64	11.59	11.60	11.57	11.57	11.57	11.59	11.58	11.57	11.50	
6	11.60	11.65	11.65	11.60	11.58	11.57	11.57	11.57	11.58	11.58	11.57	11.50	
7	11.61	11.64	11.64	11.61	11.59	11.55	11.57	11.57	11.58	11.58	11.57	11.50	
8	11.61	11.64	11.64	11.61	11.61	11.55	11.57	11.62	11.58	11.58	11.57	11.50	
9	11.60	11.63	11.62	11.61	11.61	11.55	11.57	11.67	11.58	11.58	11.57	11.50	
10	11.60	11.62	11.61	11.62	11.57	11.55	11.57	11.74	11.58	11.58	11.57	11.50	
11	11.60	11.63	11.61	11.62	11.57	11.55	11.57	11.69	11.58	11.58	11.57	11.50	
12	11.60	11.62	11.61	11.62	11.57	11.56	11.57	11.65	11.58	11.58	11.57	11.50	
13	11.59	11.62	11.64	11.62	11.57	11.59	11.57	11.62	11.58	11.58	11.57	11.50	
14	11.59	11.62	11.65	11.62	11.57	11.60	11.57	11.62	11.58	11.57	11.57	11.50	
15	11.59	11.67	11.65	11.62	11.57	11.62	11.57	11.62	11.58	11.57	11.57	11.50	
16	11.59	11.69	11.65	11.62	11.57	11.64	11.60	11.63	11.58	11.57	11.57	11.50	
17	11.59	11.69	11.64	11.62	11.57	11.67	11.60	11.62	11.58	11.57	11.57	11.50	
18	11.58	11.68	11.62	11.62	11.57	11.69	11.60	11.62	11.58	11.57	11.57	11.50	
19	11.58	11.71	11.62	11.62	11.57	11.62	11.60	11.60	11.59	11.57	11.56	11.50	
20	11.58	11.73	11.61	11.62	11.57	11.59	11.57	11.60	11.59	11.57	11.54	11.50	
21	11.58	11.70	11.60	11.62	11.57	11.58	11.57	11.60	11.60	11.57	11.52	11.50	
22	11.58	11.68	11.60	11.61	11.57	11.57	11.57	11.59	11.60	11.57	11.50	11.50	
23	11.56	11.66	11.60	11.61	11.57	11.57	11.57	11.59	11.60	11.57	11.50	11.50	
24	11.57	11.66	11.60	11.62	11.57	11.57	11.57	11.59	11.60	11.57	11.50	11.50	
25	11.64	11.65	11.61	11.63	11.67	11.57	11.57	11.61	11.60	11.57	11.50	11.50	
26	11.65	11.65	11.60	11.66	11.62	11.57	11.67	11.61	11.60	11.57	11.50	11.50	
27	11.62	11.66	11.61	11.66	11.56	11.57	11.62	11.60	11.59	11.57	11.50	11.50	
28	11.60	11.67	11.61	11.64	11.56	11.54	11.60	11.60	11.59	11.57	11.50	11.50	
29	11.67	11.65	11.60	11.63	11.57	11.54	11.67	11.59	11.58	11.57		11.50	
30	11.73	11.65	11.60	11.63	11.57	11.54	11.66	11.59	11.58	11.57		11.50	
31		11.65		11.63	11.57		11.60		11.58	11.57		11.50	
Mean	11.60	11.66	11.62	11.62	11.58	11.58	11.58	11.61	11.59	11.57	11.55	11.50	
Max	11.73	11.73	11.66	11.66	11.67	11.69	11.67	11.74	11.60	11.58	11.57	11.50	11.74
Min	11.56	11.62	11.60	11.59	11.56	11.54	11.55	11.57	11.58	11.57	11.50	11.50	11.50

Annual Max Momentary Gage Height 11.76 m. (MSL.) , at 18.00 Hours , on Apr 29, 2008

Zero Gage at Bottom Elevation 10.87 m. (MSL.) , River Bed 11.38 m. (MSL.)

Left Bank Elevation 17.69 m. (MSL.) ,

Right Bank Elevation 15.62 m. (MSL.) , Drainage Are 48 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.14	0.43	0.36	0.16	0.19	0.10	0.08	0.19	0.14	0.13	0.11	0.00		
2	0.14	0.40	0.33	0.16	0.23	0.40	0.08	0.11	0.14	0.13	0.11	0.00		
3	0.14	0.40	0.33	0.16	0.11	0.11	0.08	0.13	0.14	0.13	0.11	0.00		
4	0.14	0.36	0.33	0.16	0.11	0.11	0.08	0.13	0.14	0.13	0.11	0.00		
5	0.14	0.33	0.30	0.14	0.16	0.11	0.11	0.11	0.14	0.13	0.11	0.00		
6	0.16	0.33	0.33	0.16	0.13	0.11	0.11	0.11	0.13	0.13	0.11	0.00		
7	0.19	0.30	0.30	0.19	0.14	0.08	0.11	0.11	0.13	0.13	0.11	0.00		
8	0.19	0.30	0.30	0.19	0.19	0.08	0.11	0.23	0.13	0.13	0.11	0.00		
9	0.16	0.26	0.23	0.19	0.19	0.08	0.11	0.40	0.13	0.13	0.11	0.00		
10	0.16	0.23	0.19	0.23	0.11	0.08	0.11	0.73	0.13	0.13	0.11	0.00		
11	0.16	0.26	0.19	0.23	0.11	0.08	0.11	0.47	0.13	0.13	0.11	0.00		
12	0.16	0.23	0.19	0.23	0.11	0.10	0.11	0.33	0.13	0.13	0.11	0.00		
13	0.14	0.23	0.30	0.23	0.11	0.14	0.11	0.23	0.13	0.13	0.11	0.00		
14	0.14	0.23	0.33	0.23	0.11	0.16	0.11	0.23	0.13	0.11	0.11	0.00		
15	0.14	0.40	0.33	0.23	0.11	0.23	0.11	0.23	0.13	0.11	0.11	0.00		
16	0.14	0.47	0.33	0.23	0.11	0.30	0.16	0.26	0.13	0.11	0.11	0.00		
17	0.14	0.47	0.30	0.23	0.11	0.40	0.16	0.23	0.13	0.11	0.11	0.00		
18	0.13	0.43	0.23	0.23	0.11	0.47	0.16	0.23	0.13	0.11	0.11	0.00		
19	0.13	0.56	0.23	0.23	0.11	0.23	0.16	0.16	0.14	0.11	0.10	0.00		
20	0.13	0.67	0.19	0.23	0.11	0.14	0.11	0.16	0.14	0.11	0.06	0.00		
21	0.13	0.50	0.16	0.23	0.11	0.13	0.11	0.16	0.16	0.11	0.03	0.00		
22	0.13	0.43	0.16	0.19	0.11	0.11	0.11	0.14	0.16	0.11	0.00	0.00		
23	0.10	0.36	0.16	0.19	0.11	0.11	0.11	0.14	0.16	0.11	0.00	0.00		
24	0.11	0.36	0.16	0.23	0.11	0.11	0.11	0.14	0.16	0.11	0.00	0.00		
25	0.30	0.33	0.19	0.26	0.40	0.11	0.11	0.19	0.16	0.11	0.00	0.00		
26	0.33	0.33	0.16	0.36	0.23	0.11	0.40	0.19	0.16	0.11	0.00	0.00		
27	0.23	0.36	0.19	0.36	0.10	0.11	0.23	0.16	0.14	0.11	0.00	0.00		
28	0.16	0.40	0.19	0.30	0.10	0.06	0.16	0.16	0.14	0.11	0.00	0.00		
29	0.40	0.33	0.16	0.26	0.11	0.06	0.40	0.14	0.13	0.11		0.00		
30	0.67	0.33	0.16	0.26	0.11	0.06	0.36	0.14	0.13	0.11		0.00		
31		0.33		0.26	0.11		0.16		0.13	0.11		0.00		
Total	5.53	11.35	7.31	6.94	4.26	4.48	4.54	6.34	4.30	3.67	2.17	0.00	60.89	CMSDAY
Mean	0.18	0.37	0.24	0.22	0.14	0.15	0.15	0.21	0.14	0.12	0.08	0.00	0.17	CMS
Max	0.67	0.67	0.36	0.36	0.40	0.47	0.40	0.73	0.16	0.13	0.11	0.00	0.73	CMS
Min	0.10	0.23	0.16	0.14	0.10	0.06	0.08	0.11	0.13	0.11	0.00	0.00	0.00	CMS
Runoff	0.48	0.98	0.63	0.60	0.37	0.39	0.39	0.55	0.37	0.32	0.19	0.00	5.26	MCM

Momentary Peak 0.85 CMS. at 11.76 m. (MSL.) at 18.00 Hours , on Apr 29, 2008

Runoff Yield 3.48 Liters/Second/Square KM. Momentary Peak Yield 17.71 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	48 sq.km.
Type of Gage	Staff gage.
Zero Gage at Bottom	+0.620 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 mean of 5 readings.
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Float	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow effected by the local weir about 200 meters downstream from the gage site. Stage-discharge relation defined by 30 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

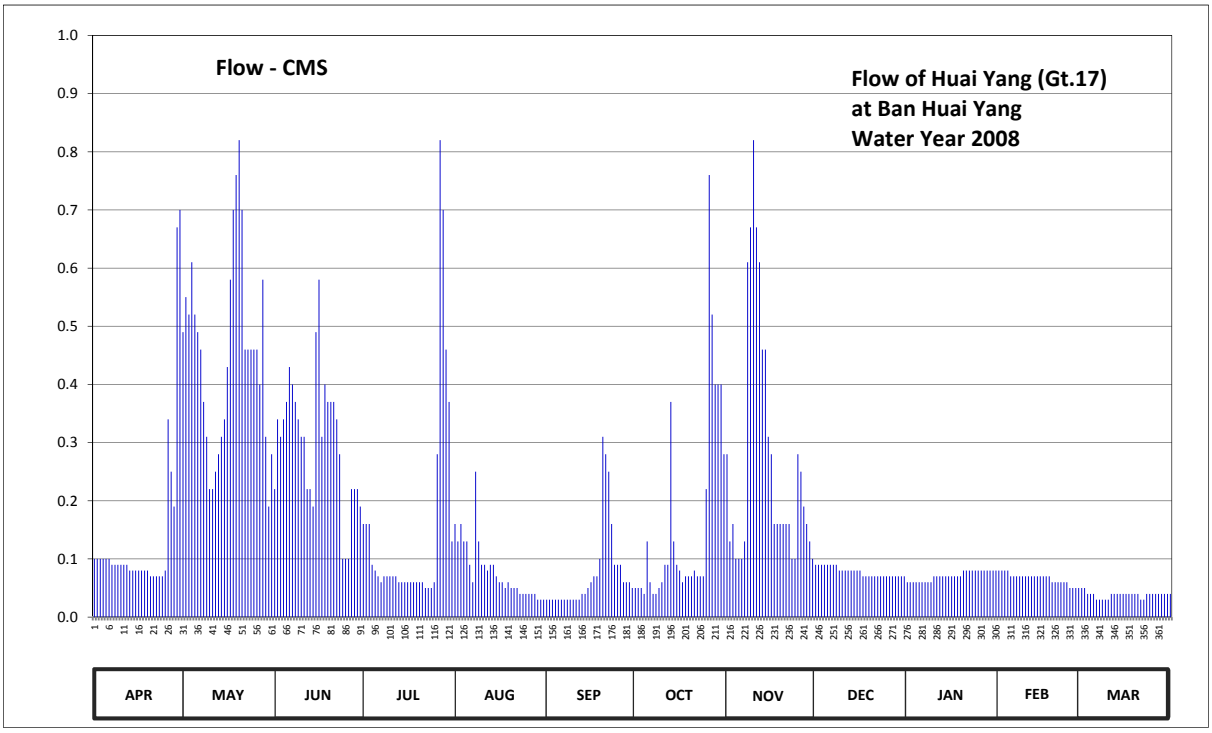
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.39	1.53	1.44	1.42	1.42	1.25	1.30	1.46	1.38	1.32	1.35	1.29	
2	1.39	1.55	1.48	1.42	1.41	1.25	1.30	1.41	1.38	1.32	1.35	1.29	
3	1.39	1.54	1.47	1.42	1.42	1.25	1.29	1.42	1.37	1.32	1.35	1.27	
4	1.39	1.57	1.48	1.37	1.41	1.25	1.28	1.40	1.37	1.32	1.35	1.27	
5	1.39	1.54	1.49	1.35	1.41	1.25	1.41	1.39	1.37	1.32	1.34	1.27	
6	1.39	1.53	1.51	1.34	1.38	1.25	1.31	1.39	1.37	1.32	1.34	1.25	
7	1.38	1.52	1.50	1.32	1.32	1.25	1.27	1.41	1.37	1.32	1.34	1.25	
8	1.38	1.49	1.49	1.33	1.45	1.25	1.27	1.57	1.37	1.32	1.34	1.26	
9	1.38	1.47	1.48	1.33	1.41	1.25	1.29	1.59	1.36	1.32	1.34	1.26	
10	1.37	1.44	1.47	1.33	1.37	1.25	1.31	1.62	1.36	1.33	1.34	1.26	
11	1.37	1.44	1.47	1.34	1.37	1.25	1.37	1.59	1.36	1.33	1.34	1.27	
12	1.37	1.45	1.44	1.34	1.35	1.25	1.38	1.57	1.36	1.33	1.34	1.27	
13	1.36	1.46	1.44	1.32	1.38	1.27	1.49	1.52	1.35	1.34	1.34	1.27	
14	1.36	1.47	1.43	1.32	1.37	1.27	1.41	1.52	1.35	1.34	1.34	1.28	
15	1.36	1.48	1.53	1.32	1.33	1.29	1.37	1.47	1.35	1.34	1.34	1.28	
16	1.35	1.51	1.56	1.32	1.32	1.31	1.36	1.46	1.35	1.34	1.34	1.28	
17	1.35	1.56	1.47	1.31	1.32	1.33	1.32	1.42	1.34	1.34	1.34	1.27	
18	1.35	1.60	1.50	1.31	1.30	1.34	1.34	1.42	1.34	1.34	1.34	1.27	
19	1.35	1.61	1.49	1.31	1.31	1.39	1.34	1.42	1.34	1.34	1.32	1.27	
20	1.34	1.62	1.49	1.31	1.30	1.47	1.34	1.42	1.34	1.35	1.32	1.27	
21	1.34	1.60	1.49	1.31	1.30	1.46	1.35	1.42	1.34	1.35	1.32	1.26	
22	1.34	1.52	1.48	1.30	1.30	1.45	1.34	1.42	1.34	1.35	1.31	1.26	
23	1.33	1.52	1.46	1.30	1.27	1.42	1.33	1.40	1.34	1.35	1.31	1.27	
24	1.33	1.52	1.40	1.30	1.27	1.38	1.34	1.40	1.33	1.35	1.31	1.27	
25	1.36	1.52	1.40	1.31	1.27	1.38	1.44	1.46	1.33	1.35	1.30	1.27	
26	1.48	1.52	1.40	1.46	1.27	1.37	1.61	1.45	1.33	1.35	1.30	1.28	
27	1.45	1.50	1.44	1.62	1.27	1.32	1.54	1.43	1.33	1.35	1.29	1.28	
28	1.43	1.56	1.44	1.60	1.27	1.32	1.50	1.42	1.33	1.35	1.29	1.28	
29	1.59	1.47	1.44	1.52	1.26	1.31	1.50	1.41	1.33	1.35		1.28	
30	1.60	1.43	1.43	1.49	1.25	1.30	1.50	1.40	1.33	1.35		1.28	
31		1.46		1.41	1.25		1.46		1.33	1.35		1.28	
Mean	1.39	1.52	1.47	1.37	1.33	1.31	1.38	1.46	1.35	1.34	1.33	1.27	
Max	1.60	1.62	1.56	1.62	1.45	1.47	1.61	1.62	1.38	1.35	1.35	1.29	1.62
Min	1.33	1.43	1.40	1.30	1.25	1.25	1.27	1.39	1.33	1.32	1.29	1.25	1.25

Annual Max Momentary Gage Height 1.69 m. (MSL.) , at 18.00 Hours , on Apr 29, 2008

Zero Gage at Bottom Elevation 0.62 m. (MSL.) , River Bed 1.26 m. (MSL.)

Left Bank Elevation 6.24 m. (MSL.) ,

Right Bank Elevation 4.31 m. (MSL.) , Drainage Are 48 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.49	0.22	0.16	0.16	0.03	0.05	0.28	0.09	0.06	0.08	0.05		
2	0.10	0.55	0.34	0.16	0.13	0.03	0.05	0.13	0.09	0.06	0.08	0.05		
3	0.10	0.52	0.31	0.16	0.16	0.03	0.05	0.16	0.09	0.06	0.08	0.04		
4	0.10	0.61	0.34	0.09	0.13	0.03	0.04	0.10	0.09	0.06	0.08	0.04		
5	0.10	0.52	0.37	0.08	0.13	0.03	0.13	0.10	0.09	0.06	0.07	0.04		
6	0.10	0.49	0.43	0.07	0.09	0.03	0.06	0.10	0.09	0.06	0.07	0.03		
7	0.09	0.46	0.40	0.06	0.06	0.03	0.04	0.13	0.09	0.06	0.07	0.03		
8	0.09	0.37	0.37	0.07	0.25	0.03	0.04	0.61	0.09	0.06	0.07	0.03		
9	0.09	0.31	0.34	0.07	0.13	0.03	0.05	0.67	0.08	0.06	0.07	0.03		
10	0.09	0.22	0.31	0.07	0.09	0.03	0.06	0.82	0.08	0.07	0.07	0.03		
11	0.09	0.22	0.31	0.07	0.09	0.03	0.09	0.67	0.08	0.07	0.07	0.04		
12	0.09	0.25	0.22	0.07	0.08	0.03	0.09	0.61	0.08	0.07	0.07	0.04		
13	0.08	0.28	0.22	0.06	0.09	0.04	0.37	0.46	0.08	0.07	0.07	0.04		
14	0.08	0.31	0.19	0.06	0.09	0.04	0.13	0.46	0.08	0.07	0.07	0.04		
15	0.08	0.34	0.49	0.06	0.07	0.05	0.09	0.31	0.08	0.07	0.07	0.04		
16	0.08	0.43	0.58	0.06	0.06	0.06	0.08	0.28	0.08	0.07	0.07	0.04		
17	0.08	0.58	0.31	0.06	0.06	0.07	0.06	0.16	0.07	0.07	0.07	0.04		
18	0.08	0.70	0.40	0.06	0.05	0.07	0.07	0.16	0.07	0.07	0.07	0.04		
19	0.08	0.76	0.37	0.06	0.06	0.10	0.07	0.16	0.07	0.07	0.06	0.04		
20	0.07	0.82	0.37	0.06	0.05	0.31	0.07	0.16	0.07	0.08	0.06	0.04		
21	0.07	0.70	0.37	0.06	0.05	0.28	0.08	0.16	0.07	0.08	0.06	0.03		
22	0.07	0.46	0.34	0.05	0.05	0.25	0.07	0.16	0.07	0.08	0.06	0.03		
23	0.07	0.46	0.28	0.05	0.04	0.16	0.07	0.10	0.07	0.08	0.06	0.04		
24	0.07	0.46	0.10	0.05	0.04	0.09	0.07	0.10	0.07	0.08	0.06	0.04		
25	0.08	0.46	0.10	0.06	0.04	0.09	0.22	0.28	0.07	0.08	0.05	0.04		
26	0.34	0.46	0.10	0.28	0.04	0.09	0.76	0.25	0.07	0.08	0.05	0.04		
27	0.25	0.40	0.22	0.82	0.04	0.06	0.52	0.19	0.07	0.08	0.05	0.04		
28	0.19	0.58	0.22	0.70	0.04	0.06	0.40	0.16	0.07	0.08	0.05	0.04		
29	0.67	0.31	0.22	0.46	0.03	0.06	0.40	0.13	0.07	0.08		0.04		
30	0.70	0.19	0.19	0.37	0.03	0.05	0.40	0.10	0.07	0.08		0.04		
31		0.28		0.13	0.03		0.28		0.07	0.08		0.04		
Total	4.28	13.99	9.03	4.64	2.46	2.29	4.96	8.16	2.41	2.20	1.86	1.19	57.47	CMSDAY
Mean	0.14	0.45	0.30	0.15	0.08	0.08	0.16	0.27	0.08	0.07	0.07	0.04	0.16	CMS
Max	0.70	0.82	0.58	0.82	0.25	0.31	0.76	0.82	0.09	0.08	0.08	0.05	0.82	CMS
Min	0.07	0.19	0.10	0.05	0.03	0.03	0.04	0.10	0.07	0.06	0.05	0.03	0.03	CMS
Runoff	0.37	1.21	0.78	0.40	0.21	0.20	0.43	0.71	0.21	0.19	0.16	0.10	4.97	MCM

Momentary Peak 1.24 CMS. at 1.69 m. (MSL.) at 18.00 Hours , on Apr 29, 2008

Runoff Yield 3.28 Liters/Second/Square KM. Momentary Peak Yield 25.83 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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** +17.588 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 mean of 5 readings
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1987 to date
Rated by Float	-
Rated by Current Meter	1987 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 32 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

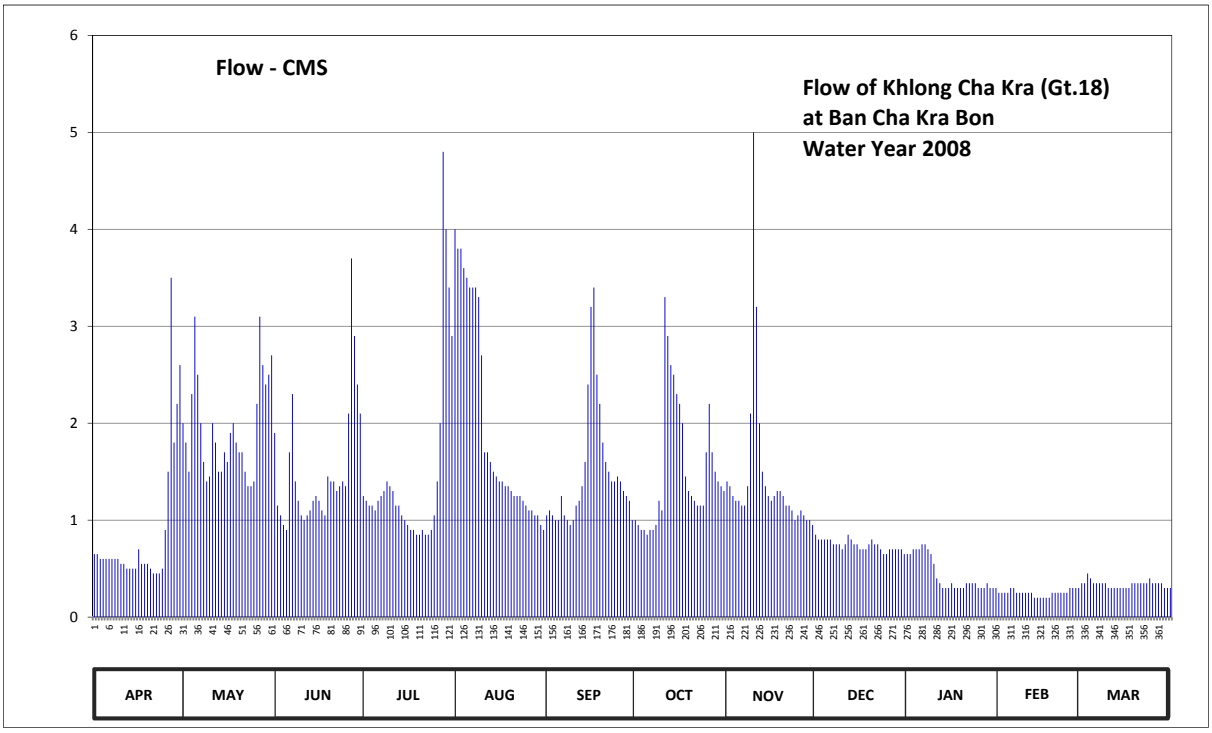
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.73	12.95	12.94	12.85	13.15	12.81	12.80	12.88	12.77	12.73	12.65	12.67	
2	12.73	12.93	12.83	12.84	13.13	12.82	12.79	12.87	12.76	12.73	12.65	12.67	
3	12.72	12.90	12.81	12.83	13.13	12.81	12.78	12.85	12.76	12.74	12.65	12.69	
4	12.72	12.98	12.79	12.83	13.11	12.80	12.78	12.84	12.76	12.74	12.65	12.68	
5	12.72	13.06	12.78	12.82	13.10	12.80	12.77	12.84	12.76	12.74	12.66	12.67	
6	12.72	13.00	12.92	12.84	13.09	12.85	12.78	12.83	12.76	12.75	12.66	12.67	
7	12.72	12.95	12.98	12.85	13.09	12.81	12.78	12.83	12.75	12.75	12.65	12.67	
8	12.72	12.91	12.88	12.86	13.09	12.80	12.79	12.87	12.75	12.74	12.65	12.67	
9	12.72	12.88	12.84	12.88	13.08	12.79	12.84	12.96	12.75	12.73	12.65	12.67	
10	12.71	12.89	12.81	12.87	13.02	12.80	12.82	13.25	12.74	12.71	12.65	12.66	
11	12.71	12.95	12.80	12.86	12.92	12.83	13.08	13.07	12.75	12.68	12.65	12.66	
12	12.70	12.93	12.81	12.83	12.92	12.84	13.04	12.95	12.77	12.67	12.65	12.66	
13	12.70	12.90	12.82	12.83	12.91	12.87	13.01	12.90	12.76	12.66	12.64	12.66	
14	12.70	12.90	12.84	12.81	12.90	12.91	13.00	12.87	12.75	12.66	12.64	12.66	
15	12.70	12.92	12.85	12.80	12.89	12.99	12.98	12.85	12.75	12.66	12.64	12.66	
16	12.74	12.91	12.84	12.79	12.88	13.07	12.97	12.84	12.74	12.67	12.64	12.66	
17	12.71	12.94	12.82	12.78	12.88	13.09	12.95	12.85	12.74	12.66	12.64	12.66	
18	12.71	12.95	12.81	12.78	12.87	13.00	12.89	12.86	12.74	12.66	12.64	12.67	
19	12.71	12.93	12.89	12.77	12.87	12.97	12.86	12.86	12.75	12.66	12.65	12.67	
20	12.70	12.92	12.88	12.77	12.86	12.93	12.85	12.85	12.76	12.66	12.65	12.67	
21	12.69	12.92	12.88	12.78	12.85	12.91	12.84	12.83	12.75	12.67	12.65	12.67	
22	12.69	12.90	12.86	12.77	12.85	12.90	12.83	12.83	12.75	12.67	12.65	12.67	
23	12.69	12.87	12.87	12.77	12.85	12.88	12.83	12.82	12.74	12.67	12.65	12.67	
24	12.70	12.87	12.88	12.78	12.84	12.88	12.83	12.80	12.73	12.67	12.65	12.68	
25	12.78	12.88	12.87	12.81	12.83	12.89	12.92	12.81	12.73	12.66	12.66	12.67	
26	12.90	12.97	12.96	12.88	12.82	12.88	12.97	12.82	12.74	12.66	12.66	12.67	
27	13.10	13.06	13.12	12.95	12.82	12.86	12.92	12.81	12.74	12.66	12.66	12.67	
28	12.93	13.01	13.04	13.23	12.81	12.85	12.90	12.80	12.74	12.67	12.66	12.67	
29	12.97	12.99	12.99	13.15	12.81	12.84	12.88	12.80	12.74	12.66		12.66	
30	13.01	13.00	12.96	13.09	12.79	12.80	12.87	12.79	12.74	12.66		12.66	
31		13.02		13.04	12.78		12.86		12.73	12.66		12.66	
Mean	12.76	12.94	12.88	12.86	12.93	12.88	12.88	12.87	12.75	12.69	12.65	12.67	
Max	13.10	13.06	13.12	13.23	13.15	13.09	13.08	13.25	12.77	12.75	12.66	12.69	13.25
Min	12.69	12.87	12.78	12.77	12.78	12.79	12.77	12.79	12.73	12.66	12.64	12.66	12.64

Annual Max Momentary Gage Height 13.35 m. (MSL.) , at 18.00 Hours , on Nov 10, 2008

Zero Gage at Bottom Elevation 11.72 m. (MSL.) , River Bed 12.30 m. (MSL.)

Left Bank Elevation 15.56 m. (MSL.) ,

Right Bank Elevation 16.13 m. (MSL.) , Drainage Are 88 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.65	2.00	1.90	1.25	4.00	1.05	1.00	1.40	0.85	0.65	0.25	0.35		
2	0.65	1.80	1.15	1.20	3.80	1.10	0.95	1.35	0.80	0.65	0.25	0.35		
3	0.60	1.50	1.05	1.15	3.80	1.05	0.90	1.25	0.80	0.70	0.25	0.45		
4	0.60	2.30	0.95	1.15	3.60	1.00	0.90	1.20	0.80	0.70	0.25	0.40		
5	0.60	3.10	0.90	1.10	3.50	1.00	0.85	1.20	0.80	0.70	0.30	0.35		
6	0.60	2.50	1.70	1.20	3.40	1.25	0.90	1.15	0.80	0.75	0.30	0.35		
7	0.60	2.00	2.30	1.25	3.40	1.05	0.90	1.15	0.75	0.75	0.25	0.35		
8	0.60	1.60	1.40	1.30	3.40	1.00	0.95	1.35	0.75	0.70	0.25	0.35		
9	0.60	1.40	1.20	1.40	3.30	0.95	1.20	2.10	0.75	0.65	0.25	0.35		
10	0.55	1.45	1.05	1.35	2.70	1.00	1.10	5.00	0.70	0.55	0.25	0.30		
11	0.55	2.00	1.00	1.30	1.70	1.15	3.30	3.20	0.75	0.40	0.25	0.30		
12	0.50	1.80	1.05	1.15	1.70	1.20	2.90	2.00	0.85	0.35	0.25	0.30		
13	0.50	1.50	1.10	1.15	1.60	1.35	2.60	1.50	0.80	0.30	0.20	0.30		
14	0.50	1.50	1.20	1.05	1.50	1.60	2.50	1.35	0.75	0.30	0.20	0.30		
15	0.50	1.70	1.25	1.00	1.45	2.40	2.30	1.25	0.75	0.30	0.20	0.30		
16	0.70	1.60	1.20	0.95	1.40	3.20	2.20	1.20	0.70	0.35	0.20	0.30		
17	0.55	1.90	1.10	0.90	1.40	3.40	2.00	1.25	0.70	0.30	0.20	0.30		
18	0.55	2.00	1.05	0.90	1.35	2.50	1.45	1.30	0.70	0.30	0.20	0.35		
19	0.55	1.80	1.45	0.85	1.35	2.20	1.30	1.30	0.75	0.30	0.25	0.35		
20	0.50	1.70	1.40	0.85	1.30	1.80	1.25	1.25	0.80	0.30	0.25	0.35		
21	0.45	1.70	1.40	0.90	1.25	1.60	1.20	1.15	0.75	0.35	0.25	0.35		
22	0.45	1.50	1.30	0.85	1.25	1.50	1.15	1.15	0.75	0.35	0.25	0.35		
23	0.45	1.35	1.35	0.85	1.25	1.40	1.15	1.10	0.70	0.35	0.25	0.35		
24	0.50	1.35	1.40	0.90	1.20	1.40	1.15	1.00	0.65	0.35	0.25	0.40		
25	0.90	1.40	1.35	1.05	1.15	1.45	1.70	1.05	0.65	0.30	0.30	0.35		
26	1.50	2.20	2.10	1.40	1.10	1.40	2.20	1.10	0.70	0.30	0.30	0.35		
27	3.50	3.10	3.70	2.00	1.10	1.30	1.70	1.05	0.70	0.30	0.30	0.35		
28	1.80	2.60	2.90	4.80	1.05	1.25	1.50	1.00	0.70	0.35	0.30	0.35		
29	2.20	2.40	2.40	4.00	1.05	1.20	1.40	1.00	0.70	0.30		0.30		
30	2.60	2.50	2.10	3.40	0.95	1.00	1.35	0.95	0.70	0.30		0.30		
31		2.70		2.90	0.90		1.30		0.65	0.30		0.30		
Total	25.80	59.95	45.40	45.50	61.90	44.75	47.25	43.30	23.00	13.55	7.00	10.50	427.90	CMSDAY
Mean	0.86	1.93	1.51	1.47	2.00	1.49	1.52	1.44	0.74	0.44	0.25	0.34	1.17	CMS
Max	3.50	3.10	3.70	4.80	4.00	3.40	3.30	5.00	0.85	0.75	0.30	0.45	5.00	CMS
Min	0.45	1.35	0.90	0.85	0.90	0.95	0.85	0.95	0.65	0.30	0.20	0.30	0.20	CMS
Runoff	2.23	5.18	3.92	3.93	5.35	3.87	4.08	3.74	1.99	1.17	0.60	0.91	36.97	MCM

Momentary Peak 6.25 CMS. at 13.35 m. (MSL.) at 18.00 Hours , on Nov 10, 2008

Runoff Yield 13.32 Liters/Second/Square KM. Momentary Peak Yield 71.02 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	61 sq.km.
Type of Gage	Staff gage
Zero Gage at Bottom	+12.450 m. (MSL.)
Bench Mark	B.M.-H.D.
Location BM	On left bank at the abutment of the bridge. **Elevation** +17.599 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 mean of 5 readings
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1987 - 1988, 1993 to date
Rated by Float	-
Rated by Current Meter	1987 - 1988, 1993 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Stage-discharge relation defined by 25 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

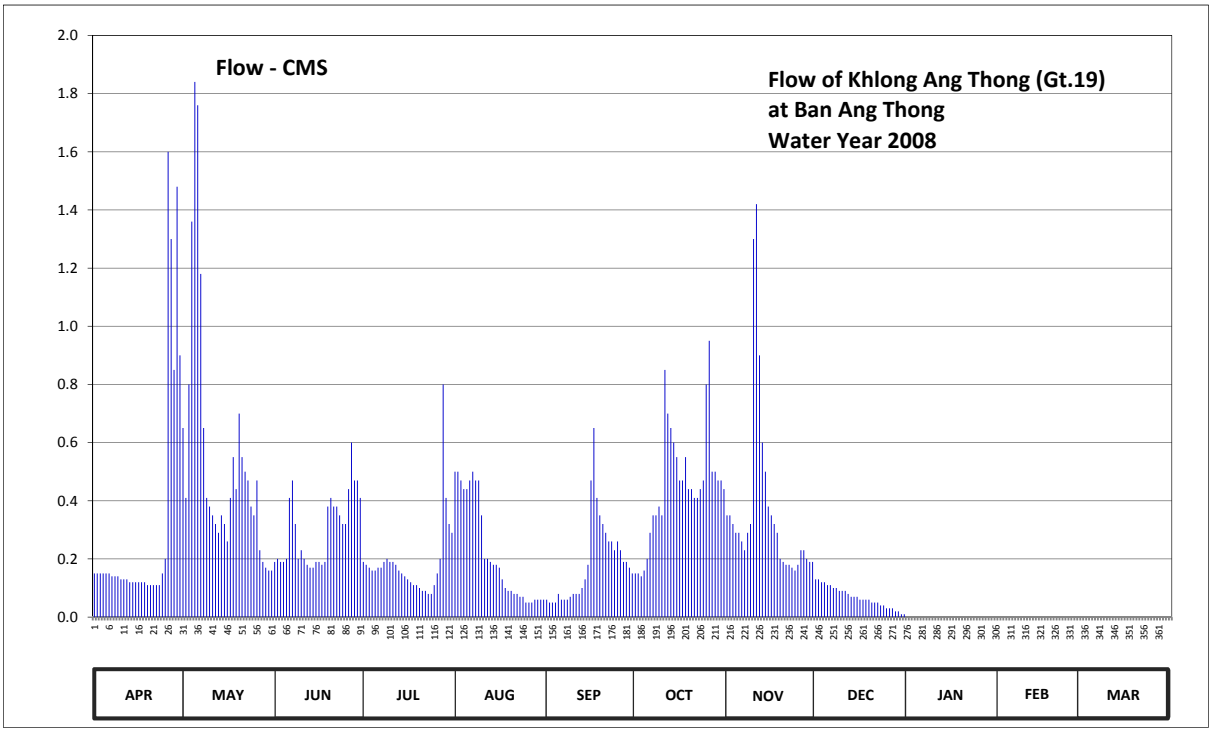
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.25	13.43	13.29	13.29	13.40	13.16	13.25	13.35	13.23	13.10	13.10	13.10	
2	13.25	13.37	13.30	13.28	13.40	13.15	13.25	13.35	13.23	13.10	13.10	13.10	
3	13.25	13.46	13.29	13.27	13.39	13.15	13.24	13.34	13.22	13.10	13.10	13.10	
4	13.25	13.56	13.29	13.26	13.38	13.15	13.26	13.33	13.22	13.10	13.10	13.10	
5	13.25	13.63	13.30	13.26	13.38	13.18	13.30	13.33	13.21	13.10	13.10	13.10	
6	13.25	13.62	13.37	13.27	13.39	13.16	13.33	13.32	13.21	13.10	13.10	13.10	
7	13.24	13.53	13.39	13.27	13.40	13.16	13.35	13.31	13.20	13.10	13.10	13.10	
8	13.24	13.43	13.34	13.29	13.39	13.16	13.35	13.33	13.20	13.10	13.10	13.10	
9	13.24	13.37	13.30	13.30	13.39	13.17	13.36	13.34	13.19	13.10	13.10	13.10	
10	13.23	13.36	13.31	13.29	13.35	13.18	13.35	13.55	13.19	13.10	13.10	13.10	
11	13.23	13.35	13.30	13.29	13.30	13.18	13.47	13.57	13.19	13.10	13.10	13.10	
12	13.23	13.34	13.28	13.28	13.30	13.18	13.44	13.48	13.18	13.10	13.10	13.10	
13	13.22	13.33	13.27	13.26	13.29	13.20	13.43	13.42	13.17	13.10	13.10	13.10	
14	13.22	13.35	13.27	13.25	13.28	13.23	13.42	13.40	13.17	13.10	13.10	13.10	
15	13.22	13.34	13.29	13.24	13.28	13.28	13.41	13.36	13.17	13.10	13.10	13.10	
16	13.22	13.32	13.29	13.23	13.27	13.39	13.39	13.35	13.16	13.10	13.10	13.10	
17	13.22	13.37	13.28	13.22	13.23	13.43	13.39	13.34	13.16	13.10	13.10	13.10	
18	13.22	13.41	13.29	13.21	13.20	13.37	13.41	13.33	13.16	13.10	13.10	13.10	
19	13.21	13.38	13.36	13.21	13.19	13.35	13.38	13.30	13.16	13.10	13.10	13.10	
20	13.21	13.44	13.37	13.20	13.19	13.34	13.38	13.29	13.15	13.10	13.10	13.10	
21	13.21	13.41	13.36	13.19	13.18	13.33	13.37	13.28	13.15	13.10	13.10	13.10	
22	13.21	13.40	13.36	13.19	13.18	13.32	13.37	13.28	13.15	13.10	13.10	13.10	
23	13.21	13.39	13.35	13.18	13.17	13.32	13.38	13.27	13.14	13.10	13.10	13.10	
24	13.25	13.36	13.34	13.18	13.17	13.31	13.39	13.26	13.14	13.10	13.10	13.10	
25	13.30	13.35	13.34	13.21	13.15	13.32	13.46	13.28	13.13	13.10	13.10	13.10	
26	13.60	13.39	13.38	13.25	13.15	13.31	13.49	13.31	13.13	13.10	13.10	13.10	
27	13.55	13.31	13.42	13.30	13.15	13.29	13.40	13.31	13.13	13.10	13.10	13.10	
28	13.47	13.29	13.39	13.46	13.16	13.29	13.40	13.30	13.12	13.10	13.10	13.10	
29	13.58	13.27	13.39	13.37	13.16	13.27	13.39	13.29	13.12	13.10		13.10	
30	13.48	13.26	13.37	13.34	13.16	13.25	13.39	13.29	13.11	13.10		13.10	
31		13.26		13.33	13.16		13.38		13.11	13.10		13.10	
Mean	13.28	13.39	13.33	13.26	13.26	13.25	13.37	13.34	13.17	13.10	13.10	13.10	
Max	13.60	13.63	13.42	13.46	13.40	13.43	13.49	13.57	13.23	13.10	13.10	13.10	13.63
Min	13.21	13.26	13.27	13.18	13.15	13.15	13.24	13.26	13.11	13.10	13.10	13.10	13.10

Annual Max Momentary Gage Height 13.68 m. (MSL.) , at 18.00 Hours , on May 5, 2008

Zero Gage at Bottom Elevation 12.45 m. (MSL.) , River Bed 13.08 m. (MSL.)

Left Bank Elevation 16.71 m. (MSL.) ,

Right Bank Elevation 16.62 m. (MSL.) , Drainage Are 61 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.15	0.65	0.19	0.19	0.50	0.06	0.15	0.35	0.13	0.00	0.00	0.00		
2	0.15	0.41	0.20	0.18	0.50	0.05	0.15	0.35	0.13	0.00	0.00	0.00		
3	0.15	0.80	0.19	0.17	0.47	0.05	0.14	0.32	0.12	0.00	0.00	0.00		
4	0.15	1.36	0.19	0.16	0.44	0.05	0.16	0.29	0.12	0.00	0.00	0.00		
5	0.15	1.84	0.20	0.16	0.44	0.08	0.20	0.29	0.11	0.00	0.00	0.00		
6	0.15	1.76	0.41	0.17	0.47	0.06	0.29	0.26	0.11	0.00	0.00	0.00		
7	0.14	1.18	0.47	0.17	0.50	0.06	0.35	0.23	0.10	0.00	0.00	0.00		
8	0.14	0.65	0.32	0.19	0.47	0.06	0.35	0.29	0.10	0.00	0.00	0.00		
9	0.14	0.41	0.20	0.20	0.47	0.07	0.38	0.32	0.09	0.00	0.00	0.00		
10	0.13	0.38	0.23	0.19	0.35	0.08	0.35	1.30	0.09	0.00	0.00	0.00		
11	0.13	0.35	0.20	0.19	0.20	0.08	0.85	1.42	0.09	0.00	0.00	0.00		
12	0.13	0.32	0.18	0.18	0.20	0.08	0.70	0.90	0.08	0.00	0.00	0.00		
13	0.12	0.29	0.17	0.16	0.19	0.10	0.65	0.60	0.07	0.00	0.00	0.00		
14	0.12	0.35	0.17	0.15	0.18	0.13	0.60	0.50	0.07	0.00	0.00	0.00		
15	0.12	0.32	0.19	0.14	0.18	0.18	0.55	0.38	0.07	0.00	0.00	0.00		
16	0.12	0.26	0.19	0.13	0.17	0.47	0.47	0.35	0.06	0.00	0.00	0.00		
17	0.12	0.41	0.18	0.12	0.13	0.65	0.47	0.32	0.06	0.00	0.00	0.00		
18	0.12	0.55	0.19	0.11	0.10	0.41	0.55	0.29	0.06	0.00	0.00	0.00		
19	0.11	0.44	0.38	0.11	0.09	0.35	0.44	0.20	0.06	0.00	0.00	0.00		
20	0.11	0.70	0.41	0.10	0.09	0.32	0.44	0.19	0.05	0.00	0.00	0.00		
21	0.11	0.55	0.38	0.09	0.08	0.29	0.41	0.18	0.05	0.00	0.00	0.00		
22	0.11	0.50	0.38	0.09	0.08	0.26	0.41	0.18	0.05	0.00	0.00	0.00		
23	0.11	0.47	0.35	0.08	0.07	0.26	0.44	0.17	0.04	0.00	0.00	0.00		
24	0.15	0.38	0.32	0.08	0.07	0.23	0.47	0.16	0.04	0.00	0.00	0.00		
25	0.20	0.35	0.32	0.11	0.05	0.26	0.80	0.18	0.03	0.00	0.00	0.00		
26	1.60	0.47	0.44	0.15	0.05	0.23	0.95	0.23	0.03	0.00	0.00	0.00		
27	1.30	0.23	0.60	0.20	0.05	0.19	0.50	0.23	0.03	0.00	0.00	0.00		
28	0.85	0.19	0.47	0.80	0.06	0.19	0.50	0.20	0.02	0.00	0.00	0.00		
29	1.48	0.17	0.47	0.41	0.06	0.17	0.47	0.19	0.02	0.00		0.00		
30	0.90	0.16	0.41	0.32	0.06	0.15	0.47	0.19	0.01	0.00		0.00		
31		0.16		0.29	0.06		0.44		0.01	0.00		0.00		
Total	9.46	17.06	9.00	5.79	6.83	5.62	14.10	11.06	2.10	0.00	0.00	0.00	81.02	CMSDAY
Mean	0.32	0.55	0.30	0.19	0.22	0.19	0.45	0.37	0.07	0.00	0.00	0.00	0.22	CMS
Max	1.60	1.84	0.60	0.80	0.50	0.65	0.95	1.42	0.13	0.00	0.00	0.00	1.84	CMS
Min	0.11	0.16	0.17	0.08	0.05	0.05	0.14	0.16	0.01	0.00	0.00	0.00	0.00	CMS
Runoff	0.82	1.47	0.78	0.50	0.59	0.49	1.22	0.96	0.18	0.00	0.00	0.00	7.00	MCM

Momentary Peak 2.24 CMS. at 13.68 m. (MSL.) at 18.00 Hours , on May 5, 2008

Runoff Yield 3.64 Liters/Second/Square KM. Momentary Peak Yield 36.72 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1997 to date
Rating Operation	
Period of Rating	1997 to date
Rated by Float	-
Rated by Current Meter	1997 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 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

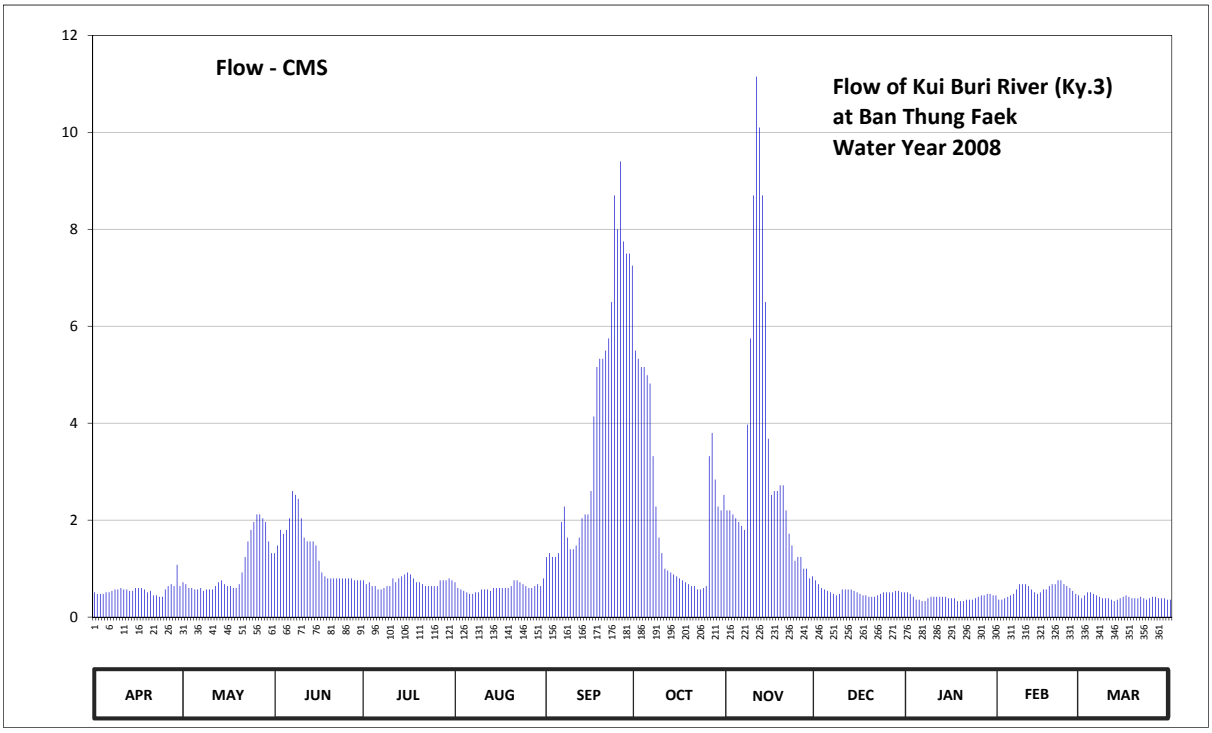
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.77	21.83	21.94	21.84	21.83	21.93	22.30	22.05	21.84	21.77	21.72	21.73	
2	21.76	21.82	21.96	21.82	21.80	21.94	22.29	22.05	21.82	21.76	21.72	21.75	
3	21.76	21.80	22.00	21.83	21.79	21.93	22.28	22.04	21.80	21.74	21.73	21.77	
4	21.76	21.80	21.99	21.81	21.78	21.93	22.28	22.03	21.79	21.72	21.74	21.77	
5	21.77	21.79	22.00	21.81	21.77	21.94	22.27	22.02	21.78	21.72	21.75	21.76	
6	21.77	21.79	22.03	21.79	21.76	22.02	22.26	22.01	21.77	21.71	21.76	21.75	
7	21.78	21.80	22.10	21.79	21.76	22.06	22.16	22.00	21.76	21.71	21.79	21.74	
8	21.79	21.78	22.09	21.80	21.77	21.98	22.06	22.21	21.75	21.73	21.82	21.73	
9	21.79	21.79	22.08	21.81	21.77	21.95	21.98	22.31	21.76	21.74	21.82	21.73	
10	21.80	21.79	22.03	21.81	21.79	21.95	21.94	22.42	21.79	21.74	21.82	21.73	
11	21.79	21.79	21.98	21.85	21.79	21.96	21.90	22.49	21.79	21.74	21.81	21.72	
12	21.79	21.81	21.97	21.83	21.79	21.98	21.89	22.46	21.79	21.74	21.79	21.71	
13	21.78	21.83	21.97	21.85	21.78	22.03	21.88	22.42	21.79	21.74	21.77	21.72	
14	21.78	21.84	21.97	21.86	21.80	22.04	21.87	22.34	21.78	21.74	21.76	21.73	
15	21.80	21.82	21.96	21.87	21.80	22.04	21.86	22.19	21.77	21.73	21.77	21.74	
16	21.80	21.81	21.92	21.88	21.80	22.10	21.85	22.09	21.76	21.73	21.79	21.75	
17	21.80	21.81	21.88	21.87	21.80	22.22	21.84	22.10	21.75	21.73	21.79	21.74	
18	21.79	21.80	21.86	21.85	21.80	22.28	21.83	22.10	21.75	21.71	21.81	21.73	
19	21.77	21.80	21.85	21.83	21.80	22.29	21.82	22.11	21.74	21.71	21.82	21.73	
20	21.78	21.82	21.85	21.83	21.81	22.29	21.81	22.11	21.74	21.71	21.82	21.73	
21	21.75	21.88	21.85	21.82	21.84	22.30	21.81	22.05	21.74	21.72	21.84	21.74	
22	21.75	21.93	21.85	21.81	21.84	22.31	21.79	21.99	21.75	21.72	21.84	21.73	
23	21.74	21.97	21.85	21.81	21.83	22.34	21.79	21.96	21.76	21.72	21.82	21.72	
24	21.74	22.00	21.85	21.81	21.82	22.42	21.80	21.92	21.77	21.73	21.81	21.73	
25	21.79	22.02	21.85	21.81	21.81	22.40	21.81	21.93	21.77	21.74	21.80	21.74	
26	21.81	22.04	21.85	21.81	21.80	22.44	22.16	21.93	21.77	21.75	21.78	21.74	
27	21.82	22.04	21.85	21.84	21.80	22.39	22.20	21.90	21.77	21.75	21.76	21.73	
28	21.81	22.03	21.84	21.84	21.81	22.38	22.12	21.90	21.78	21.76	21.75	21.73	
29	21.91	22.02	21.84	21.84	21.82	22.38	22.06	21.85	21.78	21.76		21.73	
30	21.81	21.97	21.84	21.85	21.81	22.37	22.05	21.86	21.77	21.75		21.72	
31		21.94		21.84	21.85		22.09		21.77	21.75		21.72	
Mean	21.79	21.87	21.93	21.83	21.80	22.15	22.00	22.09	21.77	21.73	21.79	21.74	
Max	21.91	22.04	22.10	21.88	21.85	22.44	22.30	22.49	21.84	21.77	21.84	21.77	22.49
Min	21.74	21.78	21.84	21.79	21.76	21.93	21.79	21.85	21.74	21.71	21.72	21.71	21.71

Annual Max Momentary Gage Height 22.70 m. (MSL.) , at 18.00 Hours , on Oct 26, 2008

Zero Gage at Bottom Elevation 19.79 m. (MSL.) , River Bed 19.49 m. (MSL.)

Left Bank Elevation 26.17 m. (MSL.) ,

Right Bank Elevation 26.18 m. (MSL.) , Drainage Are 537 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.51	0.72	1.32	0.76	0.72	1.24	5.50	2.20	0.76	0.51	0.36	0.39		
2	0.48	0.68	1.48	0.68	0.60	1.32	5.33	2.20	0.68	0.48	0.36	0.45		
3	0.48	0.60	1.80	0.72	0.57	1.24	5.16	2.12	0.60	0.42	0.39	0.51		
4	0.48	0.60	1.72	0.64	0.54	1.24	5.16	2.04	0.57	0.36	0.42	0.51		
5	0.51	0.57	1.80	0.64	0.51	1.32	4.99	1.96	0.54	0.36	0.45	0.48		
6	0.51	0.57	2.04	0.57	0.48	1.96	4.82	1.88	0.51	0.33	0.48	0.45		
7	0.54	0.60	2.60	0.57	0.48	2.28	3.32	1.80	0.48	0.33	0.57	0.42		
8	0.57	0.54	2.52	0.60	0.51	1.64	2.28	3.97	0.45	0.39	0.68	0.39		
9	0.57	0.57	2.44	0.64	0.51	1.40	1.64	5.75	0.48	0.42	0.68	0.39		
10	0.60	0.57	2.04	0.64	0.57	1.40	1.32	8.70	0.57	0.42	0.68	0.39		
11	0.57	0.57	1.64	0.80	0.57	1.48	1.00	11.15	0.57	0.42	0.64	0.36		
12	0.57	0.64	1.56	0.72	0.57	1.64	0.96	10.10	0.57	0.42	0.57	0.33		
13	0.54	0.72	1.56	0.80	0.54	2.04	0.92	8.70	0.57	0.42	0.51	0.36		
14	0.54	0.76	1.56	0.84	0.60	2.12	0.88	6.50	0.54	0.42	0.48	0.39		
15	0.60	0.68	1.48	0.88	0.60	2.12	0.84	3.68	0.51	0.39	0.51	0.42		
16	0.60	0.64	1.16	0.92	0.60	2.60	0.80	2.52	0.48	0.39	0.57	0.45		
17	0.60	0.64	0.92	0.88	0.60	4.14	0.76	2.60	0.45	0.39	0.57	0.42		
18	0.57	0.60	0.84	0.80	0.60	5.16	0.72	2.60	0.45	0.33	0.64	0.39		
19	0.51	0.60	0.80	0.72	0.60	5.33	0.68	2.72	0.42	0.33	0.68	0.39		
20	0.54	0.68	0.80	0.72	0.64	5.33	0.64	2.72	0.42	0.33	0.68	0.39		
21	0.45	0.92	0.80	0.68	0.76	5.50	0.64	2.20	0.42	0.36	0.76	0.42		
22	0.45	1.24	0.80	0.64	0.76	5.75	0.57	1.72	0.45	0.36	0.76	0.39		
23	0.42	1.56	0.80	0.64	0.72	6.50	0.57	1.48	0.48	0.36	0.68	0.36		
24	0.42	1.80	0.80	0.64	0.68	8.70	0.60	1.16	0.51	0.39	0.64	0.39		
25	0.57	1.96	0.80	0.64	0.64	8.00	0.64	1.24	0.51	0.42	0.60	0.42		
26	0.64	2.12	0.80	0.64	0.60	9.40	3.32	1.24	0.51	0.45	0.54	0.42		
27	0.68	2.12	0.80	0.76	0.60	7.75	3.80	1.00	0.51	0.45	0.48	0.39		
28	0.64	2.04	0.76	0.76	0.64	7.50	2.84	1.00	0.54	0.48	0.45	0.39		
29	1.08	1.96	0.76	0.76	0.68	7.50	2.28	0.80	0.54	0.48		0.39		
30	0.64	1.56	0.76	0.80	0.64	7.25	2.20	0.84	0.51	0.45		0.36		
31		1.32		0.76	0.80		2.52		0.51	0.45		0.36		
Total	16.88	31.15	39.96	22.26	18.93	120.85	67.70	98.59	16.11	12.51	15.83	12.57	473.34	CMSDAY
Mean	0.56	1.00	1.33	0.72	0.61	4.03	2.18	3.29	0.52	0.40	0.57	0.41	1.30	CMS
Max	1.08	2.12	2.60	0.92	0.80	9.40	5.50	11.15	0.76	0.51	0.76	0.51	11.15	CMS
Min	0.42	0.54	0.76	0.57	0.48	1.24	0.57	0.80	0.42	0.33	0.36	0.33	0.33	CMS
Runoff	1.46	2.69	3.45	1.92	1.64	10.44	5.85	8.52	1.39	1.08	1.37	1.09	40.90	MCM

Momentary Peak 20.50 CMS. at 22.70 m. (MSL.) at 18.00 Hours , on Oct 26, 2008

Runoff Yield 2.41 Liters/Second/Square KM. Momentary Peak Yield 38.18 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Chumphon at Ban Wang Phai , Chumphon (X.53A)

Lat 10 - 30 - 20 N Long 99 - 07 - 15 E

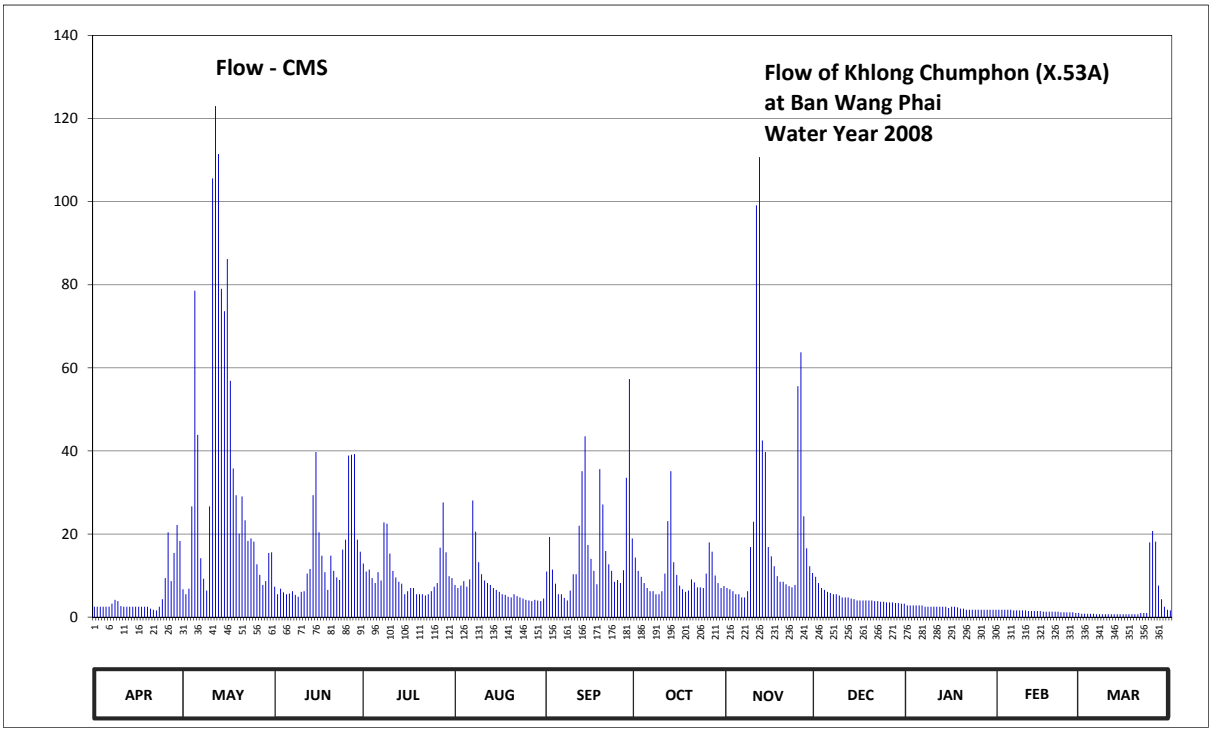
Location : on left bank about 9.50 kilometers downstream from X.53 station.

	Ban Wang Phai	**Amphoe** Mueang	**Changwat** Chumphon
Drainge 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** +10.538 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1991 to date		
Rating Operation			
Period of Rating	1991 to date		
Rated by Float	-		
Rated by Current Meter	1991 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.30	2.58	2.62	2.98	2.65	2.86	3.07	2.60	2.78	2.32	2.25	2.18	
2	2.30	2.50	2.50	2.86	2.60	3.38	2.87	2.58	2.68	2.32	2.25	2.18	
3	2.30	2.59	2.59	2.89	2.64	2.89	2.78	2.55	2.60	2.32	2.25	2.18	
4	2.30	3.84	2.53	2.76	2.71	2.67	2.68	2.50	2.57	2.32	2.25	2.18	
5	2.30	6.58	2.50	2.68	2.62	2.50	2.60	2.50	2.54	2.32	2.25	2.18	
6	2.30	4.90	2.51	2.85	2.74	2.50	2.55	2.45	2.52	2.32	2.24	2.17	
7	2.35	3.06	2.55	2.72	3.93	2.44	2.55	2.45	2.50	2.30	2.24	2.17	
8	2.41	2.75	2.49	3.60	3.46	2.40	2.50	2.55	2.50	2.30	2.24	2.17	
9	2.39	2.56	2.46	3.58	3.00	2.56	2.50	3.23	2.48	2.30	2.24	2.17	
10	2.31	3.84	2.54	3.13	2.82	2.82	2.55	3.61	2.45	2.30	2.24	2.17	
11	2.30	7.75	2.55	2.87	2.72	2.82	2.83	7.48	2.45	2.30	2.23	2.17	
12	2.30	8.46	2.83	2.77	2.68	3.55	3.62	7.96	2.45	2.30	2.23	2.17	
13	2.30	7.99	2.90	2.70	2.65	4.37	4.37	4.82	2.43	2.30	2.23	2.17	
14	2.30	6.60	4.01	2.67	2.60	4.88	3.00	4.65	2.42	2.30	2.23	2.17	
15	2.30	6.35	4.65	2.50	2.57	3.26	2.81	3.23	2.40	2.28	2.23	2.17	
16	2.30	6.92	3.45	2.55	2.54	3.05	2.64	3.09	2.40	2.30	2.22	2.17	
17	2.30	5.57	3.10	2.60	2.50	2.87	2.58	2.94	2.40	2.30	2.22	2.17	
18	2.30	4.41	2.85	2.60	2.49	2.66	2.54	2.79	2.40	2.29	2.22	2.17	
19	2.30	4.01	2.57	2.50	2.46	4.40	2.56	2.70	2.40	2.27	2.22	2.17	
20	2.27	3.43	3.10	2.50	2.45	3.87	2.74	2.70	2.40	2.27	2.22	2.17	
21	2.25	3.99	2.87	2.50	2.50	3.17	2.69	2.66	2.39	2.25	2.22	2.20	
22	2.24	3.63	2.77	2.48	2.47	2.97	2.61	2.63	2.39	2.25	2.21	2.20	
23	2.30	3.32	2.73	2.50	2.45	2.87	2.61	2.61	2.38	2.25	2.21	2.20	
24	2.42	3.36	3.19	2.55	2.43	2.70	2.60	2.65	2.38	2.25	2.21	3.30	
25	2.76	3.31	3.34	2.62	2.41	2.73	2.83	5.51	2.37	2.25	2.21	3.47	
26	3.45	2.97	4.60	2.68	2.40	2.68	3.30	5.89	2.37	2.25	2.21	3.31	
27	2.71	2.81	4.61	3.22	2.39	2.88	3.16	3.69	2.37	2.25	2.20	2.64	
28	3.14	2.65	4.62	3.90	2.41	4.27	2.80	3.21	2.36	2.25	2.20	2.42	
29	3.56	2.71	3.34	3.15	2.40	5.59	2.68	2.94	2.36	2.25		2.30	
30	3.32	3.14	3.16	2.79	2.39	3.36	2.60	2.84	2.35	2.25		2.25	
31		3.15		2.76	2.43		2.63		2.35	2.25		2.24	
Mean	2.48	4.25	3.08	2.82	2.63	3.20	2.80	3.47	2.45	2.28	2.23	2.32	
Max	3.56	8.46	4.65	3.90	3.93	5.59	4.37	7.96	2.78	2.32	2.25	3.47	8.46
Min	2.24	2.50	2.46	2.48	2.39	2.40	2.50	2.45	2.35	2.25	2.20	2.17	2.17

Annual Max Momentary Gage Height	8.96	m. (MSL.) ,	at 22.00 Hours , on Nov 11, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	2.03	m. (MSL.)
Left Bank Elevation	10.40	m. (MSL.) ,			
Right Bank Elevation	10.41	m. (MSL.) ,	Drainage Are	296	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.50	6.70	7.30	12.88	7.75	10.96	14.32	7.00	9.70	2.80	1.75	0.80		
2	2.50	5.50	5.50	10.96	7.00	19.28	11.12	6.70	8.20	2.80	1.75	0.80		
3	2.50	6.85	6.85	11.44	7.60	11.44	9.70	6.25	7.00	2.80	1.75	0.80		
4	2.50	26.64	5.95	9.40	8.65	8.05	8.20	5.50	6.55	2.80	1.75	0.80		
5	2.50	78.57	5.50	8.20	7.30	5.50	7.00	5.50	6.10	2.80	1.75	0.80		
6	2.50	43.85	5.65	10.80	9.10	5.50	6.25	4.75	5.80	2.80	1.60	0.70		
7	3.25	14.16	6.25	8.80	28.08	4.60	6.25	4.75	5.50	2.50	1.60	0.70		
8	4.15	9.25	5.35	22.80	20.56	4.00	5.50	6.25	5.50	2.50	1.60	0.70		
9	3.85	6.40	4.90	22.48	13.20	6.40	5.50	16.88	5.20	2.50	1.60	0.70		
10	2.65	26.64	6.10	15.28	10.32	10.32	6.25	22.96	4.75	2.50	1.60	0.70		
11	2.50	105.60	6.25	11.12	8.80	10.32	10.48	99.12	4.75	2.50	1.45	0.70		
12	2.50	123.00	10.48	9.55	8.20	22.00	23.12	110.72	4.75	2.50	1.45	0.70		
13	2.50	111.46	11.60	8.50	7.75	35.12	35.12	42.53	4.45	2.50	1.45	0.70		
14	2.50	79.00	29.36	8.05	7.00	43.52	13.20	39.73	4.30	2.50	1.45	0.70		
15	2.50	73.63	39.73	5.50	6.55	17.36	10.16	16.88	4.00	2.20	1.45	0.70		
16	2.50	86.20	20.40	6.25	6.10	14.00	7.60	14.64	4.00	2.50	1.30	0.70		
17	2.50	56.86	14.80	7.00	5.50	11.12	6.70	12.24	4.00	2.50	1.30	0.70		
18	2.50	35.77	10.80	7.00	5.35	7.90	6.10	9.85	4.00	2.35	1.30	0.70		
19	2.50	29.36	6.55	5.50	4.90	35.60	6.40	8.50	4.00	2.05	1.30	0.70		
20	2.05	20.08	14.80	5.50	4.75	27.12	9.10	8.50	4.00	2.05	1.30	0.70		
21	1.75	29.04	11.12	5.50	5.50	15.92	8.35	7.90	3.85	1.75	1.30	1.00		
22	1.60	23.28	9.55	5.20	5.05	12.72	7.15	7.45	3.85	1.75	1.15	1.00		
23	2.50	18.32	8.95	5.50	4.75	11.12	7.15	7.15	3.70	1.75	1.15	1.00		
24	4.30	18.96	16.24	6.25	4.45	8.50	7.00	7.75	3.70	1.75	1.15	18.00		
25	9.40	18.16	18.64	7.30	4.15	8.95	10.48	55.57	3.55	1.75	1.15	20.72		
26	20.40	12.72	38.90	8.20	4.00	8.20	18.00	63.74	3.55	1.75	1.15	18.16		
27	8.65	10.16	39.07	16.72	3.85	11.28	15.76	24.24	3.55	1.75	1.00	7.60		
28	15.44	7.75	39.23	27.60	4.15	33.52	10.00	16.56	3.40	1.75	1.00	4.30		
29	22.16	8.65	18.64	15.60	4.00	57.29	8.20	12.24	3.40	1.75		2.50		
30	18.32	15.44	15.76	9.85	3.85	18.96	7.00	10.64	3.25	1.75		1.75		
31		15.60		9.40	4.45		7.45		3.25	1.75		1.60		
Total	157.97	1123.60	440.22	324.13	232.66	496.57	314.61	662.49	145.60	69.70	39.55	92.13	4099.23	CMSDAY
Mean	5.27	36.25	14.67	10.46	7.51	16.55	10.15	22.08	4.70	2.25	1.41	2.97	11.23	CMS
Max	22.16	123.00	39.73	27.60	28.08	57.29	35.12	110.72	9.70	2.80	1.75	20.72	123.00	CMS
Min	1.60	5.50	4.90	5.20	3.85	4.00	5.50	4.75	3.25	1.75	1.00	0.70	0.70	CMS
Runoff	13.65	97.08	38.04	28.00	20.10	42.90	27.18	57.24	12.58	6.02	3.42	7.96	354.17	MCM

Momentary Peak 135.50 CMS. at 8.96 m. (MSL.) at 22.00 Hours , on Nov 11, 2008

Runoff Yield 37.92 Liters/Second/Square KM. Momentary Peak Yield 457.46 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 Float	-
Rated by Current Meter	1974 - 1975 , 1982 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

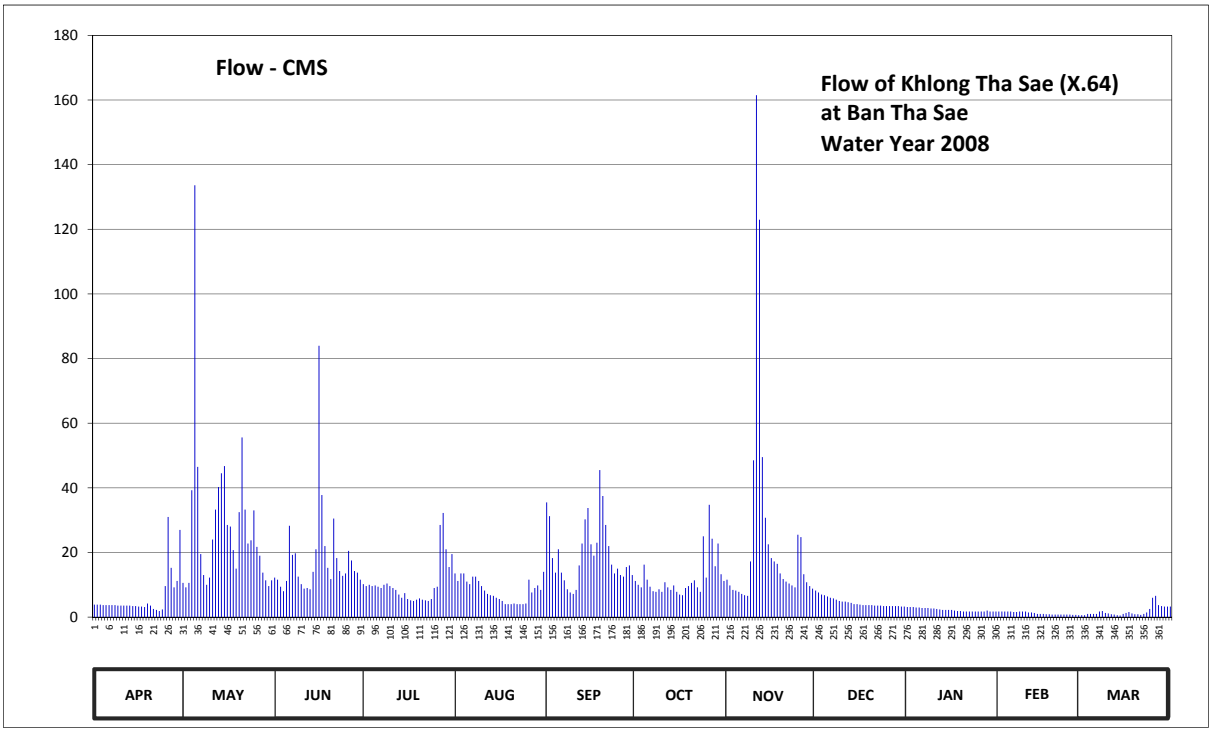
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.99	8.33	8.41	8.31	8.46	9.34	8.36	8.38	8.21	7.94	7.85	7.76	
2	7.99	8.26	8.38	8.28	8.36	9.17	8.30	8.29	8.18	7.94	7.85	7.76	
3	7.99	8.33	8.27	8.30	8.46	8.65	8.26	8.22	8.15	7.94	7.85	7.80	
4	7.98	9.49	8.20	8.28	8.46	8.47	8.57	8.21	8.14	7.93	7.85	7.80	
5	7.98	12.17	8.36	8.29	8.35	8.76	8.38	8.19	8.12	7.93	7.85	7.80	
6	7.98	9.78	9.05	8.27	8.31	8.47	8.27	8.16	8.10	7.92	7.84	7.80	
7	7.98	8.70	8.69	8.25	8.42	8.37	8.20	8.14	8.09	7.92	7.84	7.85	
8	7.98	8.44	8.71	8.30	8.42	8.23	8.19	8.13	8.07	7.92	7.85	7.86	
9	7.97	8.30	8.42	8.32	8.36	8.18	8.23	8.61	8.05	7.91	7.85	7.82	
10	7.97	8.41	8.31	8.28	8.28	8.16	8.19	9.86	8.04	7.91	7.85	7.81	
11	7.97	8.88	8.24	8.25	8.21	8.22	8.34	13.55	8.04	7.90	7.83	7.79	
12	7.97	9.25	8.25	8.22	8.16	8.56	8.26	12.70	8.03	7.89	7.83	7.78	
13	7.97	9.53	8.23	8.15	8.14	8.83	8.22	9.90	8.02	7.88	7.82	7.76	
14	7.96	9.70	8.48	8.10	8.13	9.13	8.29	9.15	8.00	7.88	7.80	7.75	
15	7.96	9.79	8.76	8.17	8.10	9.27	8.19	8.82	8.00	7.88	7.80	7.80	
16	7.95	9.06	10.97	8.08	8.08	8.82	8.15	8.65	7.99	7.88	7.80	7.82	
17	7.95	9.04	9.43	8.06	8.05	8.68	8.14	8.61	7.98	7.87	7.79	7.84	
18	7.94	8.75	8.80	8.05	8.00	8.84	8.25	8.58	7.98	7.86	7.79	7.81	
19	8.01	8.52	8.53	8.07	8.00	9.74	8.28	8.46	7.98	7.86	7.78	7.79	
20	7.97	9.22	8.39	8.09	8.00	9.42	8.33	8.39	7.98	7.85	7.78	7.79	
21	7.90	10.12	9.14	8.07	8.01	9.06	8.37	8.35	7.97	7.85	7.78	7.77	
22	7.88	9.25	8.65	8.06	8.00	8.80	8.26	8.32	7.97	7.85	7.78	7.80	
23	7.86	8.83	8.49	8.05	8.00	8.57	8.19	8.29	7.97	7.85	7.78	7.83	
24	7.89	8.87	8.43	8.08	8.00	8.46	8.92	8.26	7.96	7.85	7.78	7.90	
25	8.28	9.24	8.46	8.25	8.01	8.52	8.41	8.94	7.96	7.85	7.78	8.10	
26	9.16	8.79	8.74	8.27	8.38	8.44	9.31	8.91	7.96	7.85	7.77	8.13	
27	8.53	8.68	8.62	9.06	8.18	8.42	8.89	8.45	7.96	7.85	7.77	7.98	
28	8.26	8.47	8.49	9.21	8.25	8.54	8.55	8.34	7.96	7.87	7.76	7.96	
29	8.36	8.37	8.47	8.76	8.29	8.56	8.83	8.28	7.96	7.85		7.95	
30	9.00	8.28	8.38	8.54	8.22	8.44	8.45	8.24	7.95	7.85		7.95	
31		8.37		8.70	8.48		8.36		7.95	7.85		7.95	
Mean	8.09	9.01	8.63	8.30	8.21	8.70	8.39	8.85	8.02	7.88	7.81	7.85	
Max	9.16	12.17	10.97	9.21	8.48	9.74	9.31	13.55	8.21	7.94	7.85	8.13	13.55
Min	7.86	8.26	8.20	8.05	8.00	8.16	8.14	8.13	7.95	7.85	7.76	7.75	7.75

Annual Max Momentary Gage Height 13.60 m. (MSL.) , at 12.00 Hours , on Nov 11, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 6.64 m. (MSL.)

Left Bank Elevation 19.25 m. (MSL.) ,

Right Bank Elevation 18.88 m. (MSL.) , Drainage Are 946 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.85	10.60	12.25	10.20	13.50	35.50	11.20	11.60	8.20	3.10	1.75	0.60		
2	3.85	9.20	11.60	9.60	11.20	31.25	10.00	9.80	7.60	3.10	1.75	0.60		
3	3.85	10.60	9.40	10.00	13.50	18.25	9.20	8.40	7.00	3.10	1.75	1.00		
4	3.70	39.25	8.00	9.60	13.50	13.75	16.25	8.20	6.80	2.95	1.75	1.00		
5	3.70	133.65	11.20	9.80	11.00	21.00	11.60	7.80	6.40	2.95	1.75	1.00		
6	3.70	46.50	28.25	9.40	10.20	13.75	9.40	7.20	6.00	2.80	1.60	1.00		
7	3.70	19.50	19.25	9.00	12.50	11.40	8.00	6.80	5.80	2.80	1.60	1.75		
8	3.70	13.00	19.75	10.00	12.50	8.60	7.80	6.60	5.40	2.80	1.75	1.90		
9	3.55	10.00	12.50	10.40	11.20	7.60	8.60	17.25	5.00	2.65	1.75	1.30		
10	3.55	12.25	10.20	9.60	9.60	7.20	7.80	48.50	4.80	2.65	1.75	1.15		
11	3.55	24.00	8.80	9.00	8.20	8.40	10.80	161.50	4.80	2.50	1.45	0.90		
12	3.55	33.25	9.00	8.40	7.20	16.00	9.20	123.00	4.60	2.35	1.45	0.80		
13	3.55	40.25	8.60	7.00	6.80	22.75	8.40	49.50	4.40	2.20	1.30	0.60		
14	3.40	44.50	14.00	6.00	6.60	30.25	9.80	30.75	4.00	2.20	1.00	0.50		
15	3.40	46.75	21.00	7.40	6.00	33.75	7.80	22.50	4.00	2.20	1.00	1.00		
16	3.25	28.50	83.95	5.60	5.60	22.50	7.00	18.25	3.85	2.20	1.00	1.30		
17	3.25	28.00	37.75	5.20	5.00	19.00	6.80	17.25	3.70	2.05	0.90	1.60		
18	3.10	20.75	22.00	5.00	4.00	23.00	9.00	16.50	3.70	1.90	0.90	1.15		
19	4.20	15.00	15.25	5.40	4.00	45.50	9.60	13.50	3.70	1.90	0.80	0.90		
20	3.55	32.50	11.80	5.80	4.00	37.50	10.60	11.80	3.70	1.75	0.80	0.90		
21	2.50	55.60	30.50	5.40	4.20	28.50	11.40	11.00	3.55	1.75	0.80	0.70		
22	2.20	33.25	18.25	5.20	4.00	22.00	9.20	10.40	3.55	1.75	0.80	1.00		
23	1.90	22.75	14.25	5.00	4.00	16.25	7.80	9.80	3.55	1.75	0.80	1.45		
24	2.35	23.75	12.75	5.60	4.00	13.50	25.00	9.20	3.40	1.75	0.80	2.50		
25	9.60	33.00	13.50	9.00	4.20	15.00	12.25	25.50	3.40	1.75	0.80	6.00		
26	31.00	21.75	20.50	9.40	11.60	13.00	34.75	24.75	3.40	1.75	0.70	6.60		
27	15.25	19.00	17.50	28.50	7.60	12.50	24.25	13.25	3.40	1.75	0.70	3.70		
28	9.20	13.75	14.25	32.25	9.00	15.50	15.75	10.80	3.40	2.05	0.60	3.40		
29	11.20	11.40	13.75	21.00	9.80	16.00	22.75	9.60	3.40	1.75		3.25		
30	27.00	9.60	11.60	15.50	8.40	13.00	13.25	8.80	3.25	1.75		3.25		
31		11.40		19.50	14.00		11.20		3.25	1.75		3.25		
Total	184.15	873.30	541.40	318.75	256.90	592.20	376.45	729.80	141.00	69.70	33.80	56.05	4173.50	CMSDAY
Mean	6.14	28.17	18.05	10.28	8.29	19.74	12.14	24.33	4.55	2.25	1.21	1.81	11.43	CMS
Max	31.00	133.65	83.95	32.25	14.00	45.50	34.75	161.50	8.20	3.10	1.75	6.60	161.50	CMS
Min	1.90	9.20	8.00	5.00	4.00	7.20	6.80	6.60	3.25	1.75	0.60	0.50	0.50	CMS
Runoff	15.91	75.45	46.78	27.54	22.20	51.17	32.53	63.05	12.18	6.02	2.92	4.84	360.59	MCM

Momentary Peak 164.00 CMS. at 13.60 m. (MSL.) at 12.00 Hours , on Nov 11, 2008

Runoff Yield 12.09 Liters/Second/Square KM. Momentary Peak Yield 173.36 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Ban Tan at Ban Wang Kong , Nakhon Si Thammarat (X.70)

Lat 08 - 25 - 34 N Long 99 - 51 - 47 E

Location : on left bank upstream side of the bridge.

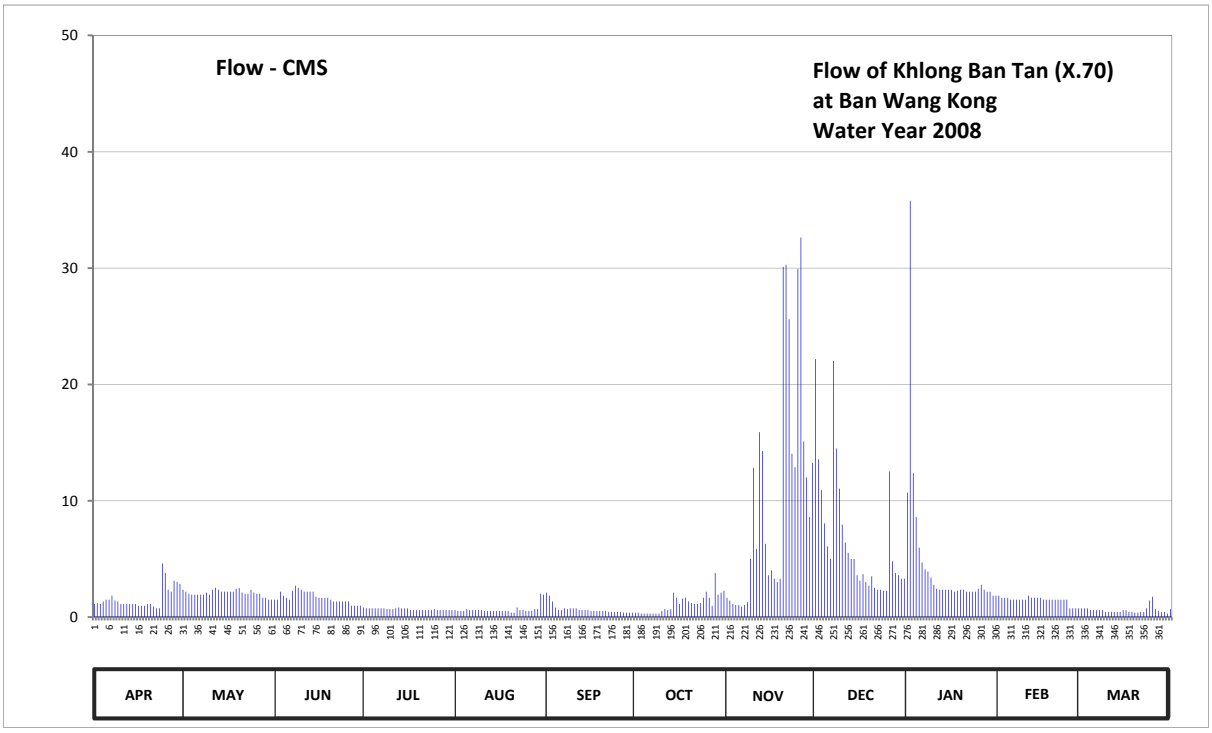
Ban Wang Kong **Amphoe** Mueang **Changwat** Nakhon Si Thammar

Drainge Area	36 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 10 meters from the top staff gage. **Elevation** +21.985 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 mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 - 1971 , 1980 , 1989 to date
Rated by Float	-
Rated by Current Meter	1967 - 1971 , 1980 , 1989 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 29 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.95	16.10	16.00	15.91	15.88	16.07	15.85	16.02	18.25	16.89	16.04	15.90	
2	15.96	16.08	16.00	15.90	15.87	16.04	15.85	15.99	17.46	18.98	16.02	15.90	
3	15.95	16.06	16.08	15.90	15.87	15.98	15.84	15.95	16.91	17.19	16.02	15.90	
4	15.98	16.05	16.04	15.90	15.87	15.91	15.84	15.94	16.66	16.71	16.02	15.88	
5	16.00	16.05	16.02	15.90	15.89	15.88	15.84	15.94	16.48	16.47	16.00	15.88	
6	16.00	16.05	16.00	15.90	15.88	15.88	15.84	15.92	16.38	16.35	16.00	15.88	
7	16.04	16.05	16.09	15.90	15.88	15.90	15.84	15.94	18.24	16.29	16.00	15.88	
8	15.99	16.05	16.14	15.90	15.88	15.89	15.84	15.97	17.61	16.27	16.00	15.88	
9	15.98	16.07	16.12	15.89	15.88	15.90	15.84	16.38	16.92	16.22	16.00	15.86	
10	15.95	16.05	16.10	15.89	15.88	15.90	15.87	17.31	16.65	16.15	16.00	15.86	
11	15.95	16.10	16.08	15.89	15.87	15.90	15.89	16.46	16.51	16.11	16.04	15.86	
12	15.95	16.12	16.08	15.90	15.87	15.88	15.88	17.75	16.43	16.10	16.02	15.86	
13	15.95	16.10	16.08	15.91	15.87	15.88	15.89	17.58	16.38	16.10	16.02	15.86	
14	15.95	16.08	16.08	15.90	15.87	15.88	16.07	16.50	16.38	16.10	16.02	15.86	
15	15.95	16.08	16.03	15.90	15.87	15.88	16.02	16.24	16.24	16.10	16.02	15.88	
16	15.93	16.08	16.02	15.90	15.87	15.87	15.95	16.28	16.19	16.10	16.00	15.88	
17	15.93	16.08	16.02	15.88	15.87	15.87	16.01	16.21	16.25	16.08	16.00	15.86	
18	15.93	16.08	16.02	15.88	15.87	15.87	16.02	16.18	16.18	16.09	16.00	15.86	
19	15.95	16.11	16.02	15.88	15.87	15.87	15.98	16.21	16.14	16.10	16.00	15.85	
20	15.95	16.12	16.00	15.88	15.85	15.87	15.96	18.70	16.23	16.10	16.00	15.85	
21	15.92	16.07	15.98	15.88	15.85	15.87	15.95	18.71	16.12	16.08	16.00	15.86	
22	15.90	16.06	15.98	15.88	15.91	15.86	15.95	18.46	16.10	16.08	16.00	15.86	
23	15.90	16.06	15.98	15.88	15.88	15.86	15.96	17.54	16.10	16.08	16.00	15.90	
24	16.34	16.10	15.98	15.88	15.88	15.86	16.02	17.32	16.09	16.08	16.00	15.99	
25	16.26	16.07	15.98	15.89	15.87	15.86	16.08	18.69	16.09	16.11	15.90	16.03	
26	16.10	16.06	15.98	15.88	15.87	15.86	16.02	18.83	17.23	16.15	15.90	15.89	
27	16.08	16.06	15.93	15.88	15.87	15.85	15.93	17.67	16.36	16.10	15.90	15.87	
28	16.19	16.02	15.93	15.88	15.89	15.85	16.26	17.00	16.26	16.08	15.90	15.86	
29	16.18	16.02	15.93	15.88	15.89	15.85	16.05	16.71	16.24	16.08		15.86	
30	16.16	16.00	15.93	15.88	16.06	15.85	16.07	17.41	16.21	16.04		15.84	
31		16.00		15.88	16.05		16.09		16.21	16.04		15.89	
Mean	16.01	16.07	16.02	15.89	15.89	15.89	15.95	16.93	16.56	16.30	15.99	15.88	
Max	16.34	16.12	16.14	15.91	16.06	16.07	16.26	18.83	18.25	18.98	16.04	16.03	18.98
Min	15.90	16.00	15.93	15.88	15.85	15.85	15.84	15.92	16.09	16.04	15.90	15.84	15.84

Annual Max Momentary Gage Height	20.10	m. (MSL.) ,	at 18.00 Hours , on Nov 25, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	15.55	m. (MSL.)
Left Bank Elevation	22.07	m. (MSL.) ,			
Right Bank Elevation	22.07	m. (MSL.) ,	Drainage Are	36	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.13	2.35	1.50	0.83	0.60	2.10	0.38	1.67	22.18	10.68	1.84	0.75		
2	1.20	2.18	1.50	0.75	0.53	1.84	0.38	1.43	13.56	35.78	1.67	0.75		
3	1.13	2.01	2.18	0.75	0.53	1.35	0.30	1.13	10.92	12.38	1.67	0.75		
4	1.35	1.93	1.84	0.75	0.53	0.83	0.30	1.05	8.06	8.61	1.67	0.60		
5	1.50	1.93	1.67	0.75	0.68	0.60	0.30	1.05	6.08	5.97	1.50	0.60		
6	1.50	1.93	1.50	0.75	0.60	0.60	0.30	0.90	5.00	4.70	1.50	0.60		
7	1.84	1.93	2.27	0.75	0.60	0.75	0.30	1.05	22.02	4.10	1.50	0.60		
8	1.43	1.93	2.69	0.75	0.60	0.68	0.30	1.28	14.50	3.90	1.50	0.60		
9	1.35	2.10	2.52	0.68	0.60	0.75	0.30	5.00	11.04	3.40	1.50	0.45		
10	1.13	1.93	2.35	0.68	0.60	0.75	0.53	12.84	7.95	2.78	1.50	0.45		
11	1.13	2.35	2.18	0.68	0.53	0.75	0.68	5.86	6.41	2.44	1.84	0.45		
12	1.13	2.52	2.18	0.75	0.53	0.60	0.60	15.90	5.53	2.35	1.67	0.45		
13	1.13	2.35	2.18	0.83	0.53	0.60	0.68	14.28	5.00	2.35	1.67	0.45		
14	1.13	2.18	2.18	0.75	0.53	0.60	2.10	6.30	5.00	2.35	1.67	0.45		
15	1.13	2.18	1.76	0.75	0.53	0.60	1.67	3.60	3.60	2.35	1.67	0.60		
16	0.98	2.18	1.67	0.75	0.53	0.53	1.13	4.00	3.12	2.35	1.50	0.60		
17	0.98	2.18	1.67	0.60	0.53	0.53	1.59	3.30	3.70	2.18	1.50	0.45		
18	0.98	2.18	1.67	0.60	0.53	0.53	1.67	3.03	3.03	2.27	1.50	0.45		
19	1.13	2.44	1.67	0.60	0.53	0.53	1.35	3.30	2.69	2.35	1.50	0.38		
20	1.13	2.52	1.50	0.60	0.38	0.53	1.20	30.10	3.50	2.35	1.50	0.38		
21	0.90	2.10	1.35	0.60	0.38	0.53	1.13	30.29	2.52	2.18	1.50	0.45		
22	0.75	2.01	1.35	0.60	0.83	0.45	1.13	25.61	2.35	2.18	1.50	0.45		
23	0.75	2.01	1.35	0.60	0.60	0.45	1.20	14.04	2.35	2.18	1.50	0.75		
24	4.60	2.35	1.35	0.60	0.60	0.45	1.67	12.88	2.27	2.18	1.50	1.43		
25	3.80	2.10	1.35	0.68	0.53	0.45	2.18	29.91	2.27	2.44	0.75	1.76		
26	2.35	2.01	1.35	0.60	0.53	0.45	1.67	32.63	12.52	2.78	0.75	0.68		
27	2.18	2.01	0.98	0.60	0.53	0.38	0.98	15.10	4.80	2.35	0.75	0.53		
28	3.12	1.67	0.98	0.60	0.68	0.38	3.80	12.00	3.80	2.18	0.75	0.45		
29	3.03	1.67	0.98	0.60	0.68	0.38	1.93	8.61	3.60	2.18		0.45		
30	2.86	1.50	0.98	0.60	2.01	0.38	2.10	13.26	3.30	1.84		0.30		
31		1.50		0.60	1.93		2.27		3.30	1.84		0.68		
Total	48.75	64.23	50.70	21.03	20.32	20.35	36.12	311.40	205.97	139.97	40.87	18.74	978.45	CMSDAY
Mean	1.62	2.07	1.69	0.68	0.66	0.68	1.17	10.38	6.64	4.52	1.46	0.60	2.68	CMS
Max	4.60	2.52	2.69	0.83	2.01	2.10	3.80	32.63	22.18	35.78	1.84	1.76	35.78	CMS
Min	0.75	1.50	0.98	0.60	0.38	0.38	0.30	0.90	2.27	1.84	0.75	0.30	0.30	CMS
Runoff	4.21	5.55	4.38	1.82	1.76	1.76	3.12	26.90	17.80	12.09	3.53	1.62	84.54	MCM

Momentary Peak 64.45 CMS. at 20.10 m. (MSL.) at 18.00 Hours , on Nov 25, 2008

Runoff Yield 73.48 Liters/Second/Square KM. Momentary Peak Yield 1766.72 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Takhian at Ban Nai Thon, Surat Thani (X.103)

Lat 09 - 25 - 31 N Long 99 - 09 - 42 E

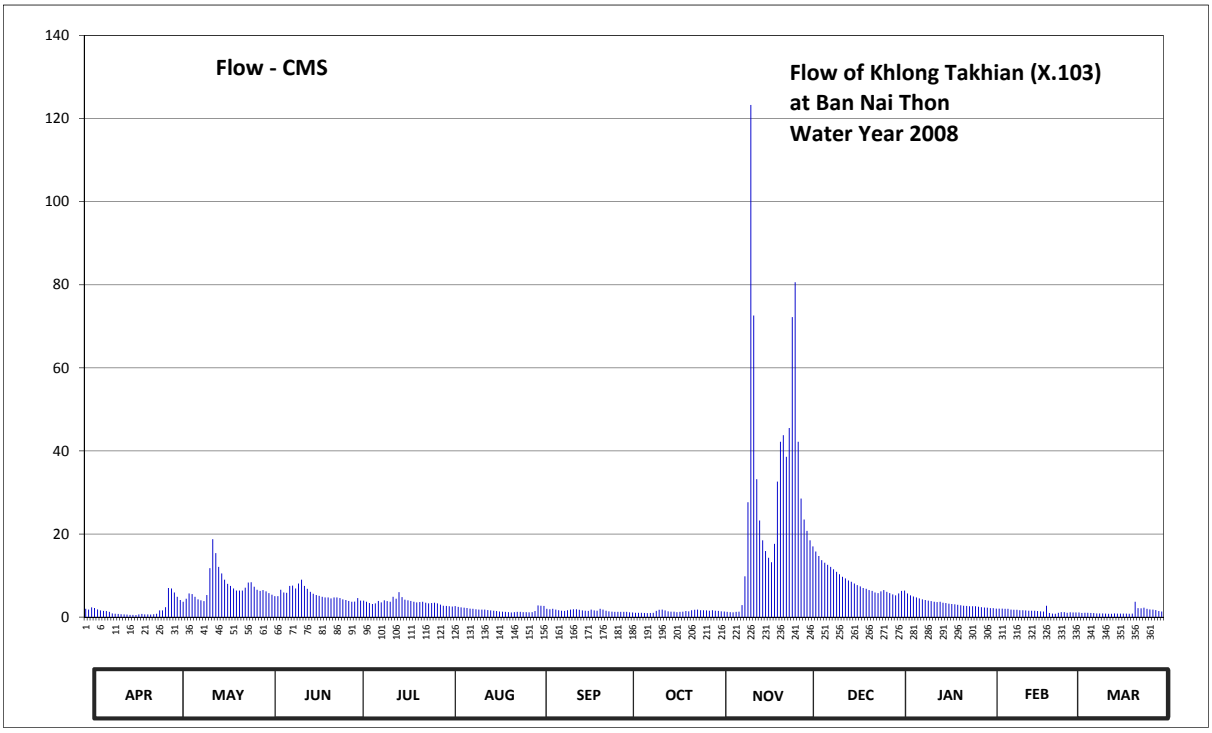
Location : on left bank Ban Rim Khlong.

	Ban Nai Thon **Amphoe** Chaiya **Changwat** Surat Thani
Drainge Area	179 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 35 meters from the top staff gage. **Elevation** +14.745 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 mean of 5 readings
Period of Available Gage Records	1978 to date
Rating Operation	
Period of Rating	1978 to date
Rated by Float	-
Rated by Current Meter	1978 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.00	8.59	8.62	8.30	8.14	8.16	7.85	7.90	9.98	8.56	8.03	7.82	
2	7.96	8.45	8.57	8.41	8.12	8.15	7.83	7.88	9.80	8.63	8.03	7.82	
3	8.07	8.35	8.52	8.33	8.11	8.14	7.82	7.87	9.68	8.64	8.01	7.82	
4	8.04	8.29	8.47	8.33	8.13	8.00	7.81	7.85	9.58	8.56	8.01	7.80	
5	7.97	8.39	8.47	8.29	8.09	7.98	7.81	7.84	9.47	8.50	8.01	7.81	
6	7.92	8.56	8.66	8.25	8.07	8.00	7.81	7.83	9.37	8.46	8.00	7.81	
7	7.90	8.54	8.59	8.22	8.05	7.96	7.80	7.85	9.31	8.43	8.00	7.80	
8	7.89	8.45	8.58	8.24	8.04	7.93	7.79	7.86	9.26	8.40	7.96	7.79	
9	7.85	8.37	8.75	8.32	8.01	7.91	7.80	8.18	9.21	8.37	7.95	7.78	
10	7.78	8.34	8.76	8.27	8.00	7.90	7.81	8.98	9.15	8.35	7.95	7.78	
11	7.76	8.31	8.69	8.34	7.98	7.93	7.90	10.51	9.09	8.33	7.93	7.78	
12	7.75	8.51	8.81	8.31	7.96	7.96	7.95	13.35	9.03	8.31	7.93	7.77	
13	7.74	9.18	8.90	8.29	7.96	7.98	7.96	12.34	8.97	8.29	7.92	7.76	
14	7.73	9.82	8.75	8.45	7.96	7.98	7.92	10.86	8.93	8.28	7.91	7.76	
15	7.72	9.54	8.68	8.39	7.94	7.95	7.88	10.18	8.88	8.29	7.91	7.78	
16	7.71	9.21	8.61	8.60	7.92	7.92	7.86	9.80	8.85	8.26	7.91	7.77	
17	7.71	9.05	8.55	8.44	7.91	7.91	7.86	9.59	8.81	8.25	7.89	7.77	
18	7.70	8.90	8.51	8.36	7.89	7.90	7.84	9.43	8.77	8.23	7.88	7.77	
19	7.73	8.80	8.48	8.34	7.87	7.96	7.85	9.32	8.74	8.22	7.87	7.77	
20	7.75	8.75	8.45	8.32	7.86	7.92	7.86	9.73	8.70	8.21	8.15	7.76	
21	7.73	8.69	8.43	8.29	7.85	7.91	7.89	10.83	8.68	8.19	7.80	7.77	
22	7.73	8.64	8.43	8.27	7.84	8.00	7.88	11.31	8.65	8.17	7.77	8.29	
23	7.72	8.64	8.40	8.28	7.82	7.96	7.93	11.39	8.63	8.15	7.76	8.03	
24	7.74	8.64	8.43	8.29	7.84	7.91	7.95	11.13	8.59	8.14	7.81	8.02	
25	7.76	8.71	8.43	8.26	7.85	7.88	7.96	11.46	8.57	8.12	7.84	8.05	
26	7.92	8.83	8.41	8.24	7.85	7.86	7.93	12.33	8.62	8.12	7.84	8.00	
27	7.92	8.84	8.37	8.25	7.84	7.85	7.93	12.54	8.65	8.12	7.81	7.97	
28	8.08	8.73	8.35	8.26	7.84	7.85	7.92	11.31	8.61	8.10	7.83	7.96	
29	8.70	8.66	8.32	8.24	7.83	7.85	7.91	10.57	8.57	8.08		7.94	
30	8.69	8.63	8.29	8.20	7.84	7.85	7.93	10.20	8.53	8.06		7.89	
31		8.65		8.15	7.89		7.91		8.50	8.05		7.87	
Mean	7.89	8.71	8.54	8.31	7.95	7.95	7.88	9.94	8.97	8.29	7.92	7.86	
Max	8.70	9.82	8.90	8.60	8.14	8.16	7.96	13.35	9.98	8.64	8.15	8.29	13.35
Min	7.70	8.29	8.29	8.15	7.82	7.85	7.79	7.83	8.50	8.05	7.76	7.76	7.70

Annual Max Momentary Gage Height	13.71	m. (MSL.) ,	at 16.00 Hours , on Nov 12, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	6.41	m. (MSL.)
Left Bank Elevation	16.42	m. (MSL.) ,			
Right Bank Elevation	16.40	m. (MSL.) ,	Drainage Are	179	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.00	5.93	6.20	3.75	2.70	2.80	1.25	1.50	20.75	5.70	2.15	1.10		
2	1.80	4.88	5.78	4.58	2.60	2.75	1.15	1.40	18.50	6.30	2.15	1.10		
3	2.35	4.13	5.40	3.98	2.55	2.70	1.10	1.35	17.00	6.40	2.05	1.10		
4	2.20	3.68	5.03	3.98	2.65	2.00	1.05	1.25	15.80	5.70	2.05	1.00		
5	1.85	4.43	5.03	3.68	2.45	1.90	1.05	1.20	14.70	5.25	2.05	1.05		
6	1.60	5.70	6.60	3.38	2.35	2.00	1.05	1.15	13.70	4.95	2.00	1.05		
7	1.50	5.55	5.93	3.15	2.25	1.80	1.00	1.25	13.10	4.73	2.00	1.00		
8	1.45	4.88	5.85	3.30	2.20	1.65	0.95	1.30	12.60	4.50	1.80	0.95		
9	1.25	4.28	7.50	3.90	2.05	1.55	1.00	2.90	12.10	4.28	1.75	0.90		
10	0.90	4.05	7.60	3.53	2.00	1.50	1.05	9.80	11.50	4.13	1.75	0.90		
11	0.80	3.83	6.90	4.05	1.90	1.65	1.50	27.65	10.90	3.98	1.65	0.90		
12	0.75	5.33	8.10	3.83	1.80	1.80	1.75	123.25	10.30	3.83	1.65	0.85		
13	0.70	11.80	9.00	3.68	1.80	1.90	1.80	72.60	9.70	3.68	1.60	0.80		
14	0.65	18.75	7.50	4.88	1.80	1.90	1.60	33.20	9.30	3.60	1.55	0.80		
15	0.60	15.40	6.80	4.43	1.70	1.75	1.40	23.25	8.80	3.68	1.55	0.90		
16	0.55	12.10	6.10	6.00	1.60	1.60	1.30	18.50	8.50	3.45	1.55	0.85		
17	0.55	10.50	5.63	4.80	1.55	1.55	1.30	15.90	8.10	3.38	1.45	0.85		
18	0.50	9.00	5.33	4.20	1.45	1.50	1.20	14.30	7.70	3.23	1.40	0.85		
19	0.65	8.00	5.10	4.05	1.35	1.80	1.25	13.20	7.40	3.15	1.35	0.85		
20	0.75	7.50	4.88	3.90	1.30	1.60	1.30	17.63	7.00	3.08	2.75	0.80		
21	0.65	6.90	4.73	3.68	1.25	1.55	1.45	32.60	6.80	2.95	1.00	0.85		
22	0.65	6.40	4.73	3.53	1.20	2.00	1.40	42.20	6.50	2.85	0.85	3.68		
23	0.60	6.40	4.50	3.60	1.10	1.80	1.65	43.80	6.30	2.75	0.80	2.15		
24	0.70	6.40	4.73	3.68	1.20	1.55	1.75	38.60	5.93	2.70	1.05	2.10		
25	0.80	7.10	4.73	3.45	1.25	1.40	1.80	45.50	5.78	2.60	1.20	2.25		
26	1.60	8.30	4.58	3.30	1.25	1.30	1.65	72.20	6.20	2.60	1.20	2.00		
27	1.60	8.40	4.28	3.38	1.20	1.25	1.65	80.60	6.50	2.60	1.05	1.85		
28	2.40	7.30	4.13	3.45	1.20	1.25	1.60	42.20	6.10	2.50	1.15	1.80		
29	7.00	6.60	3.90	3.30	1.15	1.25	1.55	28.55	5.78	2.40		1.70		
30	6.90	6.30	3.68	3.00	1.20	1.25	1.65	23.50	5.48	2.30		1.45		
31		6.50		2.75	1.45		1.55		5.25	2.25		1.35		
Total	46.30	226.32	170.25	118.17	53.50	52.30	42.75	832.33	304.07	115.50	44.55	39.78	2045.82	CMSDAY
Mean	1.54	7.30	5.67	3.81	1.73	1.74	1.38	27.74	9.81	3.73	1.59	1.28	5.60	CMS
Max	7.00	18.75	9.00	6.00	2.70	2.80	1.80	123.25	20.75	6.40	2.75	3.68	123.25	CMS
Min	0.50	3.68	3.68	2.75	1.10	1.25	0.95	1.15	5.25	2.25	0.80	0.80	0.50	CMS
Runoff	4.00	19.55	14.71	10.21	4.62	4.52	3.69	71.91	26.27	9.98	3.85	3.44	176.76	MCM

Momentary Peak 149.25 CMS. at 13.71 m. (MSL.) at 16.00 Hours , on Nov 12, 2008

Runoff Yield 31.31 Liters/Second/Square KM. Momentary Peak Yield 833.80 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Mai Siap at Ban Mai Siap, Nakhon Si Thammarat (X.105)

Lat 07 - 51 - 01 N Long 99 - 55 - 53 E

Location : on left bank at the bridge of Nakhon Si Thammarat - Phatthalung Highway.

Ban Mai Siap **Amphoe** Cha - uat **Changwat** Nakhon Si Thammarat

Drainge Area	155 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** +20.279 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 mean of 5 readings
Period of Available Gage Records	1978 to date
Rating Operation	
Period of Rating	1979 to date
Rated by Float	-
Rated by Current Meter	1979 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 12 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

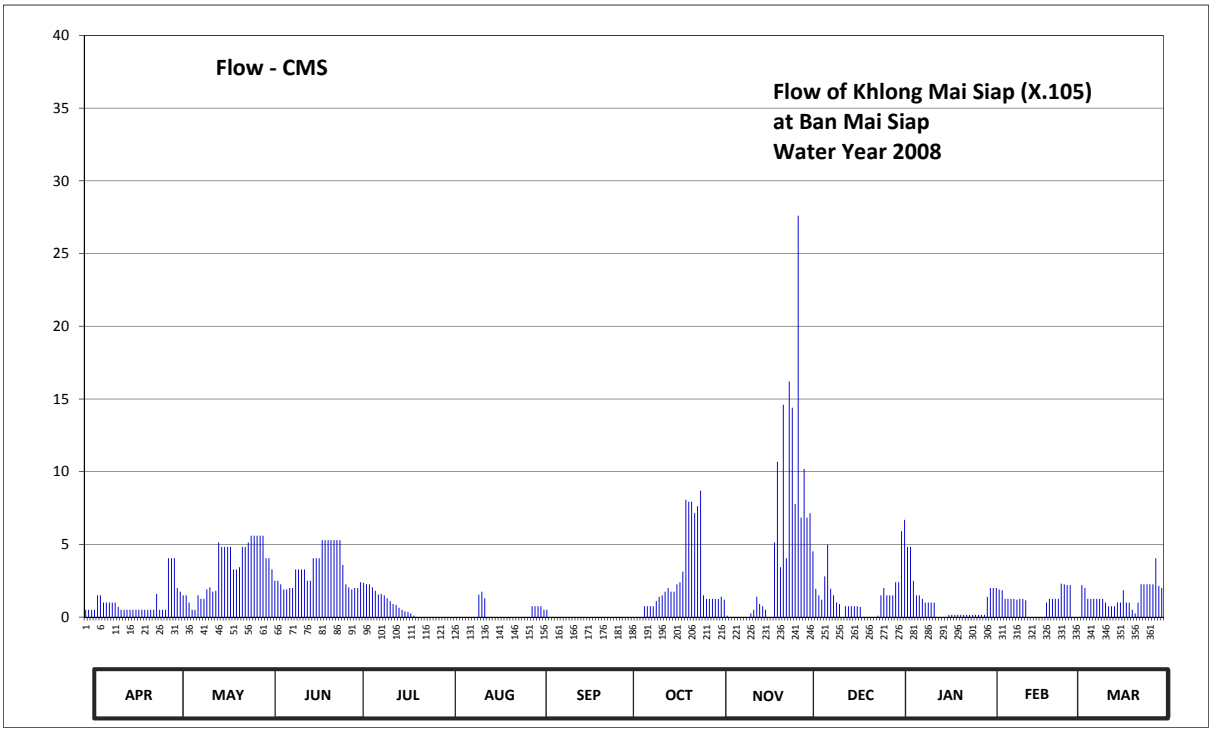
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.00	11.50	11.50	11.30	10.78	11.05	10.85	11.15	11.68	11.38	11.30	10.90	
2	11.00	11.30	11.50	11.30	10.78	11.05	10.85	11.18	11.70	11.62	11.30	10.90	
3	11.00	11.25	11.45	11.38	10.78	11.00	10.85	11.14	11.53	11.67	11.30	10.90	
4	11.00	11.20	11.40	11.37	10.75	11.00	10.85	10.92	11.29	11.55	11.28	11.34	
5	11.20	11.20	11.40	11.35	10.74	10.90	10.85	10.90	11.20	11.55	11.27	11.30	
6	11.20	11.10	11.35	11.35	10.74	10.88	10.85	10.85	11.14	11.40	11.15	11.15	
7	11.10	11.00	11.28	11.31	10.74	10.85	11.05	10.85	11.42	11.20	11.15	11.15	
8	11.10	11.00	11.28	11.26	10.74	10.85	11.05	10.85	11.56	11.20	11.15	11.15	
9	11.10	11.20	11.30	11.21	10.74	10.85	11.05	10.88	11.29	11.15	11.15	11.15	
10	11.10	11.15	11.30	11.22	10.73	10.85	11.05	10.88	11.20	11.10	11.14	11.15	
11	11.10	11.15	11.45	11.20	10.76	10.85	11.12	10.88	11.10	11.10	11.15	11.15	
12	11.04	11.28	11.45	11.16	11.21	10.85	11.18	10.95	11.08	11.10	11.15	11.10	
13	11.00	11.31	11.45	11.12	11.25	10.85	11.20	11.00	10.90	11.10	11.13	11.05	
14	11.00	11.25	11.45	11.08	11.16	10.85	11.25	11.18	11.05	10.90	10.90	11.05	
15	11.00	11.26	11.40	11.07	10.86	10.85	11.30	11.08	11.05	10.90	10.90	11.05	
16	11.00	11.57	11.40	11.03	10.87	10.82	11.25	11.05	11.05	10.90	10.90	11.10	
17	11.00	11.55	11.50	11.00	10.86	10.82	11.25	11.00	11.05	10.90	10.90	11.10	
18	11.00	11.55	11.50	10.98	10.86	10.82	11.35	10.90	11.05	10.93	10.90	11.27	
19	11.00	11.55	11.50	10.97	10.85	10.82	11.38	10.90	11.04	10.93	10.90	11.10	
20	11.00	11.55	11.58	10.95	10.85	10.82	11.44	11.57	10.90	10.93	11.10	11.10	
21	11.00	11.45	11.58	10.92	10.85	10.82	11.76	11.92	10.85	10.93	11.15	11.00	
22	11.00	11.45	11.58	10.90	10.85	10.82	11.75	11.46	10.90	10.93	11.15	10.95	
23	11.00	11.46	11.58	10.87	10.85	10.82	11.75	12.13	10.90	10.93	11.15	11.10	
24	11.00	11.55	11.58	10.86	10.85	10.82	11.70	11.50	10.90	10.93	11.15	11.35	
25	11.22	11.55	11.58	10.83	10.85	10.82	11.73	12.21	10.92	10.93	11.36	11.35	
26	11.00	11.57	11.58	10.82	10.85	10.82	11.80	12.12	11.20	10.93	11.35	11.35	
27	11.00	11.60	11.47	10.81	10.85	10.82	11.20	11.74	11.30	10.93	11.34	11.35	
28	11.00	11.60	11.35	10.81	10.85	10.82	11.15	12.76	11.20	10.93	11.34	11.35	
29	11.50	11.60	11.31	10.81	10.85	10.82	11.15	11.68	11.20	10.93		11.50	
30	11.50	11.60	11.28	10.81	11.05	10.82	11.15	11.89	11.20	10.93		11.33	
31		11.60		10.81	11.05		11.15		11.38	11.18		11.30	
Mean	11.07	11.39	11.44	11.06	10.86	10.86	11.24	11.32	11.17	11.10	11.15	11.16	
Max	11.50	11.60	11.58	11.38	11.25	11.05	11.80	12.76	11.70	11.67	11.36	11.50	12.76
Min	11.00	11.00	11.28	10.81	10.73	10.82	10.85	10.85	10.85	10.90	10.90	10.90	10.73

Annual Max Momentary Gage Height 13.05 m. (MSL.) , at 15.00 Hours , on Nov 28, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 9.84 m. (MSL.)

Left Bank Elevation 22.08 m. (MSL.) ,

Right Bank Elevation 22.16 m. (MSL.) , Drainage Are 155 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.50	4.05	4.05	2.00	0.00	0.75	0.00	1.25	6.84	2.40	2.00	0.00		
2	0.50	2.00	4.05	2.00	0.00	0.75	0.00	1.40	7.15	5.91	2.00	0.00		
3	0.50	1.75	3.28	2.40	0.00	0.50	0.00	1.20	4.52	6.69	2.00	0.00		
4	0.50	1.50	2.50	2.35	0.00	0.50	0.00	0.10	1.95	4.83	1.90	2.20		
5	1.50	1.50	2.50	2.25	0.00	0.00	0.00	0.00	1.50	4.83	1.85	2.00		
6	1.50	1.00	2.25	2.25	0.00	0.00	0.00	0.00	1.20	2.50	1.25	1.25		
7	1.00	0.50	1.90	2.05	0.00	0.00	0.75	0.00	2.81	1.50	1.25	1.25		
8	1.00	0.50	1.90	1.80	0.00	0.00	0.75	0.00	4.98	1.50	1.25	1.25		
9	1.00	1.50	2.00	1.55	0.00	0.00	0.75	0.00	1.95	1.25	1.25	1.25		
10	1.00	1.25	2.00	1.60	0.00	0.00	0.75	0.00	1.50	1.00	1.20	1.25		
11	1.00	1.25	3.28	1.50	0.00	0.00	1.10	0.00	1.00	1.00	1.25	1.25		
12	0.70	1.90	3.28	1.30	1.55	0.00	1.40	0.25	0.90	1.00	1.25	1.00		
13	0.50	2.05	3.28	1.10	1.75	0.00	1.50	0.50	0.00	1.00	1.15	0.75		
14	0.50	1.75	3.28	0.90	1.30	0.00	1.75	1.40	0.75	0.00	0.00	0.75		
15	0.50	1.80	2.50	0.85	0.00	0.00	2.00	0.90	0.75	0.00	0.00	0.75		
16	0.50	5.14	2.50	0.65	0.00	0.00	1.75	0.75	0.75	0.00	0.00	1.00		
17	0.50	4.83	4.05	0.50	0.00	0.00	1.75	0.50	0.75	0.00	0.00	1.00		
18	0.50	4.83	4.05	0.40	0.00	0.00	2.25	0.00	0.75	0.15	0.00	1.85		
19	0.50	4.83	4.05	0.35	0.00	0.00	2.40	0.00	0.70	0.15	0.00	1.00		
20	0.50	4.83	5.29	0.25	0.00	0.00	3.12	5.14	0.00	0.15	1.00	1.00		
21	0.50	3.28	5.29	0.10	0.00	0.00	8.08	10.68	0.00	0.15	1.25	0.50		
22	0.50	3.28	5.29	0.00	0.00	0.00	7.93	3.43	0.00	0.15	1.25	0.25		
23	0.50	3.43	5.29	0.00	0.00	0.00	7.93	14.60	0.00	0.15	1.25	1.00		
24	0.50	4.83	5.29	0.00	0.00	0.00	7.15	4.05	0.00	0.15	1.25	2.25		
25	1.60	4.83	5.29	0.00	0.00	0.00	7.62	16.20	0.10	0.15	2.30	2.25		
26	0.50	5.14	5.29	0.00	0.00	0.00	8.70	14.40	1.50	0.15	2.25	2.25		
27	0.50	5.60	3.59	0.00	0.00	0.00	1.50	7.77	2.00	0.15	2.20	2.25		
28	0.50	5.60	2.25	0.00	0.00	0.00	1.25	27.60	1.50	0.15	2.20	2.25		
29	4.05	5.60	2.05	0.00	0.00	0.00	1.25	6.84	1.50	0.15		4.05		
30	4.05	5.60	1.90	0.00	0.75	0.00	1.25	10.19	1.50	0.15		2.15		
31		5.60		0.00	0.75		1.25		2.40	1.40		2.00		
Total	27.90	101.55	103.52	28.15	6.10	2.50	75.93	129.15	51.25	38.76	34.55	42.00	641.36	CMSDAY
Mean	0.93	3.28	3.45	0.91	0.20	0.08	2.45	4.31	1.65	1.25	1.23	1.35	1.76	CMS
Max	4.05	5.60	5.29	2.40	1.75	0.75	8.70	27.60	7.15	6.69	2.30	4.05	27.60	CMS
Min	0.50	0.50	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	CMS
Runoff	2.41	8.77	8.94	2.43	0.53	0.22	6.56	11.16	4.43	3.35	2.99	3.63	55.41	MCM

Momentary Peak 35.38 CMS. at 13.05 m. (MSL.) at 15.00 Hours , on Nov 28, 2008

Runoff Yield 11.34 Liters/Second/Square KM. Momentary Peak Yield 228.26 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Klai at Ban Hua Na , Nakhon Si Thammarat (X.149)

Lat 08 - 43 - 46 N Long 99 - 44 - 53 E

Location : on left bank at Ban Hua Na.

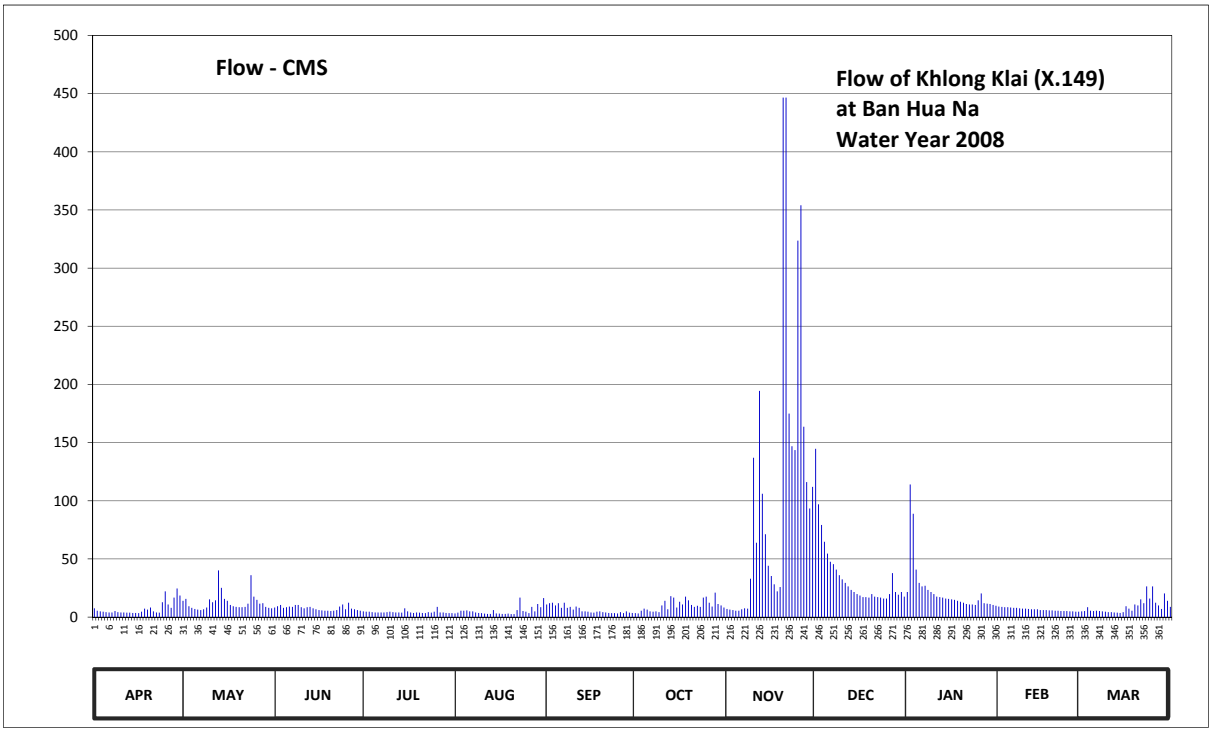
Ban Hua Na **Amphoe** Nopphitam **Changwat** Nakhon Si Thammar

Drainge Area	475 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 station office. **Elevation** +34.588 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 mean of 5 readings
Period of Available Gage Records	1984 to date.
Rating Operation	
Period of Rating	1984 to date.
Rated by Float	-
Rated by Current Meter	1984 to date.
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.72	28.90	28.74	28.63	28.56	28.82	28.57	28.70	30.57	29.06	28.77	28.63	
2	28.65	28.94	28.78	28.62	28.59	28.85	28.56	28.68	30.10	30.28	28.76	28.64	
3	28.63	28.78	28.81	28.62	28.65	28.86	28.65	28.67	29.89	30.01	28.75	28.75	
4	28.62	28.73	28.73	28.61	28.65	28.80	28.71	28.65	29.71	29.38	28.75	28.65	
5	28.61	28.70	28.75	28.60	28.66	28.85	28.68	28.65	29.58	29.19	28.74	28.64	
6	28.60	28.68	28.77	28.60	28.63	28.73	28.63	28.69	29.48	29.14	28.73	28.65	
7	28.60	28.67	28.76	28.60	28.63	28.86	28.62	28.72	29.45	29.15	28.73	28.64	
8	28.64	28.69	28.81	28.60	28.60	28.73	28.63	28.71	29.38	29.09	28.72	28.63	
9	28.61	28.74	28.81	28.61	28.58	28.76	28.61	29.25	29.30	29.06	28.71	28.62	
10	28.60	28.93	28.75	28.62	28.57	28.68	28.80	30.50	29.24	29.03	28.71	28.61	
11	28.60	28.87	28.72	28.61	28.55	28.77	28.90	29.70	29.19	28.99	28.70	28.61	
12	28.59	28.91	28.75	28.60	28.54	28.73	28.69	30.95	29.14	28.98	28.69	28.60	
13	28.59	29.37	28.76	28.60	28.54	28.63	29.00	30.20	29.09	28.97	28.69	28.59	
14	28.58	29.12	28.72	28.59	28.67	28.63	28.97	29.79	29.06	28.95	28.69	28.58	
15	28.58	28.94	28.69	28.72	28.56	28.62	28.74	29.43	29.03	28.94	28.67	28.61	
16	28.57	28.90	28.67	28.63	28.55	28.60	28.88	29.29	29.01	28.93	28.67	28.78	
17	28.62	28.81	28.66	28.60	28.54	28.59	28.82	29.17	28.98	28.92	28.67	28.71	
18	28.71	28.78	28.65	28.58	28.54	28.62	28.99	29.07	28.98	28.90	28.66	28.65	
19	28.68	28.76	28.65	28.60	28.55	28.63	28.91	29.13	28.97	28.88	28.66	28.82	
20	28.74	28.75	28.64	28.59	28.53	28.61	28.81	31.73	29.03	28.86	28.65	28.80	
21	28.63	28.75	28.65	28.58	28.53	28.60	28.76	31.73	28.99	28.83	28.65	28.93	
22	28.60	28.76	28.67	28.57	28.67	28.58	28.79	30.82	28.98	28.82	28.64	28.85	
23	28.59	28.84	28.77	28.61	28.97	28.57	28.76	30.59	28.97	28.82	28.64	29.14	
24	28.87	29.30	28.82	28.59	28.64	28.57	28.97	30.56	28.95	28.81	28.64	28.95	
25	29.07	28.99	28.69	28.62	28.62	28.56	28.99	31.42	28.95	28.91	28.63	29.14	
26	28.82	28.92	28.86	28.76	28.57	28.61	28.86	31.50	29.03	29.04	28.63	28.86	
27	28.73	28.84	28.71	28.60	28.76	28.57	28.77	30.73	29.33	28.85	28.62	28.80	
28	28.97	28.85	28.69	28.60	28.63	28.63	29.05	30.30	29.06	28.84	28.62	28.70	
29	29.11	28.76	28.67	28.58	28.83	28.59	28.83	30.06	29.02	28.83		29.04	
30	29.01	28.73	28.65	28.57	28.75	28.58	28.80	30.26	29.06	28.81		28.90	
31		28.72		28.57	28.96		28.74		28.99	28.79		28.76	
Mean	28.70	28.85	28.73	28.61	28.63	28.67	28.79	29.86	29.24	29.03	28.69	28.75	
Max	29.11	29.37	28.86	28.76	28.97	28.86	29.05	31.73	30.57	30.28	28.77	29.14	31.73
Min	28.57	28.67	28.64	28.57	28.53	28.56	28.56	28.65	28.95	28.79	28.62	28.58	28.53

Annual Max Momentary Gage Height	32.43	m. (MSL.) ,	at 06.00 Hours , on Nov 21, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	27.69	m. (MSL.)
Left Bank Elevation	36.00	m. (MSL.) ,			
Right Bank Elevation	35.89	m. (MSL.) ,	Drainage Are	475	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.60	14.00	8.20	4.90	3.20	10.80	3.40	7.00	144.70	21.60	9.10	4.90		
2	5.50	15.60	9.40	4.60	3.80	12.00	3.20	6.40	97.00	114.00	8.80	5.20		
3	4.90	9.40	10.40	4.60	5.50	12.40	5.50	6.10	79.20	88.90	8.50	8.50		
4	4.60	7.90	7.90	4.30	5.50	10.00	7.30	5.50	64.80	40.80	8.50	5.50		
5	4.30	7.00	8.50	4.00	5.80	12.00	6.40	5.50	54.60	29.40	8.20	5.20		
6	4.00	6.40	9.10	4.00	4.90	7.90	4.90	6.70	47.60	26.40	7.90	5.50		
7	4.00	6.10	8.80	4.00	4.90	12.40	4.60	7.60	45.50	27.00	7.90	5.20		
8	5.20	6.70	10.40	4.00	4.00	7.90	4.90	7.30	40.80	23.40	7.60	4.90		
9	4.30	8.20	10.40	4.30	3.60	8.80	4.30	33.00	36.00	21.60	7.30	4.60		
10	4.00	15.20	8.50	4.60	3.40	6.40	10.00	137.00	32.40	19.80	7.30	4.30		
11	4.00	12.80	7.60	4.30	3.00	9.10	14.00	64.00	29.40	17.60	7.00	4.30		
12	3.80	14.40	8.50	4.00	2.80	7.90	6.70	194.50	26.40	17.20	6.70	4.00		
13	3.80	40.20	8.80	4.00	2.80	4.90	18.00	106.00	23.40	16.80	6.70	3.80		
14	3.60	25.20	7.60	3.80	6.10	4.90	16.80	71.20	21.60	16.00	6.70	3.60		
15	3.60	15.60	6.70	7.60	3.20	4.60	8.20	44.10	19.80	15.60	6.10	4.30		
16	3.40	14.00	6.10	4.90	3.00	4.00	13.20	35.40	18.60	15.20	6.10	9.40		
17	4.60	10.40	5.80	4.00	2.80	3.80	10.80	28.20	17.20	14.80	6.10	7.30		
18	7.30	9.40	5.50	3.60	2.80	4.60	17.60	22.20	17.20	14.00	5.80	5.50		
19	6.40	8.80	5.50	4.00	3.00	4.90	14.40	25.80	16.80	13.20	5.80	10.80		
20	8.20	8.50	5.20	3.80	2.60	4.30	10.40	446.60	19.80	12.40	5.50	10.00		
21	4.90	8.50	5.50	3.60	2.60	4.00	8.80	446.60	17.60	11.20	5.50	15.20		
22	4.00	8.80	6.10	3.40	6.10	3.60	9.70	175.00	17.20	10.80	5.20	12.00		
23	3.80	11.60	9.10	4.30	16.80	3.40	8.80	146.90	16.80	10.80	5.20	26.40		
24	12.80	36.00	10.80	3.80	5.20	3.40	16.80	143.60	16.00	10.40	5.20	16.00		
25	22.20	17.60	6.70	4.60	4.60	3.20	17.60	323.60	16.00	14.40	4.90	26.40		
26	10.80	14.80	12.40	8.80	3.40	4.30	12.40	354.00	19.80	20.40	4.90	12.40		
27	7.90	11.60	7.30	4.00	8.80	3.40	9.10	163.60	37.80	12.00	4.60	10.00		
28	16.80	12.00	6.70	4.00	4.90	4.90	21.00	116.00	21.60	11.60	4.60	7.00		
29	24.60	8.80	6.10	3.60	11.20	3.80	11.20	93.40	19.20	11.20		20.40		
30	18.60	7.90	5.50	3.40	8.50	3.60	10.00	112.00	21.60	10.40		14.00		
31		7.60		3.40	16.40		8.20		17.60	9.70		8.80		
Total	223.50	401.00	235.10	134.20	165.20	191.20	318.20	3334.80	1074.00	698.60	183.70	285.40	7244.90	CMSDAY
Mean	7.45	12.94	7.84	4.33	5.33	6.37	10.26	111.16	34.65	22.54	6.56	9.21	19.85	CMS
Max	24.60	40.20	12.40	8.80	16.80	12.40	21.00	446.60	144.70	114.00	9.10	26.40	446.60	CMS
Min	3.40	6.10	5.20	3.40	2.60	3.20	3.20	5.50	16.00	9.70	4.60	3.60	2.60	CMS
Runoff	19.31	34.65	20.31	11.59	14.27	16.52	27.49	288.13	92.79	60.36	15.87	24.66	625.96	MCM

Momentary Peak 767.10 CMS. at 32.43 m. (MSL.) at 06.00 Hours , on Nov 21, 2008

Runoff Yield 41.78 Liters/Second/Square KM. Momentary Peak Yield 1614.57 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	1,814 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 1 meters from the top staff gage. **Elevation** +11.796 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1984 to date
Rating Operation	
Period of Rating	1990 to date
Rated by Float	-
Rated by Current Meter	1990 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

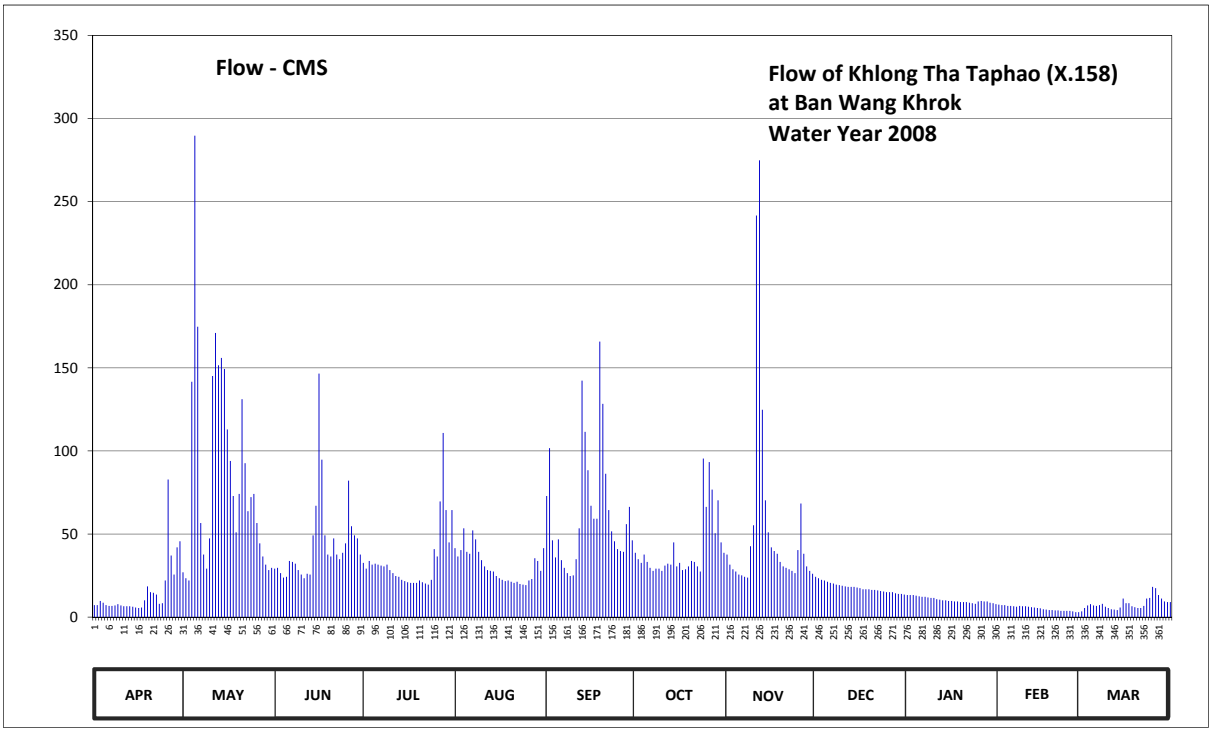
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.17	3.71	3.76	3.83	3.99	4.49	3.94	3.92	3.65	3.35	3.18	3.02	
2	3.17	3.63	3.77	3.76	3.90	4.91	3.87	3.81	3.63	3.35	3.17	3.10	
3	3.25	3.60	3.70	3.85	3.97	4.07	3.83	3.75	3.61	3.35	3.17	3.16	
4	3.22	5.48	3.64	3.81	4.19	3.89	3.92	3.72	3.60	3.34	3.15	3.19	
5	3.17	7.36	3.65	3.82	3.95	4.08	3.84	3.68	3.58	3.33	3.15	3.16	
6	3.15	5.93	3.85	3.81	3.93	3.86	3.77	3.67	3.56	3.32	3.14	3.15	
7	3.15	4.24	3.84	3.80	4.17	3.77	3.73	3.65	3.55	3.32	3.13	3.17	
8	3.16	3.92	3.82	3.79	4.08	3.70	3.76	3.64	3.53	3.31	3.15	3.20	
9	3.19	3.76	3.74	3.81	3.95	3.66	3.76	4.01	3.52	3.30	3.14	3.13	
10	3.16	4.09	3.68	3.74	3.86	3.67	3.73	4.22	3.51	3.30	3.14	3.10	
11	3.14	5.53	3.63	3.70	3.79	3.87	3.80	6.77	3.50	3.28	3.13	3.07	
12	3.14	5.88	3.69	3.66	3.74	4.19	3.82	7.18	3.49	3.27	3.12	3.06	
13	3.14	5.62	3.68	3.65	3.73	5.49	3.81	5.24	3.49	3.26	3.11	3.05	
14	3.13	5.68	4.12	3.61	3.72	5.05	4.05	4.45	3.49	3.26	3.10	3.11	
15	3.11	5.59	4.40	3.59	3.66	4.72	3.79	4.15	3.48	3.25	3.09	3.29	
16	3.10	5.07	5.55	3.57	3.63	4.40	3.83	4.00	3.47	3.25	3.07	3.21	
17	3.11	4.80	4.81	3.56	3.61	4.28	3.74	3.96	3.45	3.24	3.06	3.21	
18	3.26	4.49	4.12	3.56	3.59	4.28	3.75	3.93	3.45	3.24	3.05	3.14	
19	3.50	4.15	3.92	3.56	3.60	5.81	3.79	3.84	3.45	3.23	3.05	3.12	
20	3.40	4.51	3.90	3.60	3.58	5.29	3.85	3.79	3.44	3.23	3.04	3.10	
21	3.39	5.33	4.09	3.57	3.56	4.69	3.84	3.77	3.44	3.23	3.04	3.10	
22	3.36	4.78	3.92	3.55	3.58	4.36	3.79	3.75	3.43	3.22	3.03	3.15	
23	3.20	4.35	3.87	3.53	3.54	4.16	3.72	3.73	3.42	3.21	3.03	3.29	
24	3.21	4.48	3.94	3.61	3.53	4.06	4.82	3.70	3.41	3.20	3.03	3.30	
25	3.60	4.51	4.04	3.98	3.52	3.98	4.39	3.97	3.40	3.24	3.03	3.49	
26	4.64	4.24	4.63	3.90	3.60	3.96	4.79	4.42	3.40	3.25	3.02	3.47	
27	3.91	4.04	4.21	4.44	3.62	3.95	4.55	3.93	3.40	3.24	3.00	3.35	
28	3.68	3.90	4.12	5.04	3.88	4.23	4.14	3.79	3.38	3.24	3.00	3.29	
29	4.00	3.81	4.09	4.36	3.85	4.39	4.45	3.73	3.37	3.22		3.24	
30	4.06	3.74	3.92	4.05	3.73	4.07	4.05	3.69	3.37	3.21		3.23	
31		3.77		4.36	3.99		3.94		3.36	3.19		3.23	
Mean	3.36	4.64	4.00	3.82	3.78	4.31	3.96	4.13	3.48	3.27	3.09	3.19	
Max	4.64	7.36	5.55	5.04	4.19	5.81	4.82	7.18	3.65	3.35	3.18	3.49	7.36
Min	3.10	3.60	3.63	3.53	3.52	3.66	3.72	3.64	3.36	3.19	3.00	3.02	3.00

Annual Max Momentary Gage Height 7.55 m. (MSL.) , at 06.00 Hours , on Nov 12, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 1.21 m. (MSL.)

Left Bank Elevation 14.50 m. (MSL.) ,

Right Bank Elevation 14.45 m. (MSL.) , Drainage Are 1,814 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.25	26.95	29.20	32.65	41.45	72.85	38.70	37.60	24.25	13.25	7.50	3.50		
2	7.25	23.35	29.65	29.20	36.50	101.70	34.85	31.55	23.35	13.25	7.25	5.50		
3	9.75	22.00	26.50	33.75	40.35	46.20	32.65	28.75	22.45	13.25	7.25	7.00		
4	8.70	141.60	23.80	31.55	53.40	35.95	37.60	27.40	22.00	12.90	6.75	7.75		
5	7.25	289.70	24.25	32.10	39.25	46.80	33.20	25.60	21.30	12.55	6.75	7.00		
6	6.75	174.75	33.75	31.55	38.15	34.30	29.65	25.15	20.60	12.20	6.50	6.75		
7	6.75	56.60	33.20	31.00	52.20	29.65	27.85	24.25	20.25	12.20	6.25	7.25		
8	7.00	37.60	32.10	30.55	46.80	26.50	29.20	23.80	19.55	11.85	6.75	8.00		
9	7.75	29.20	28.30	31.55	39.25	24.70	29.20	42.60	19.20	11.50	6.50	6.25		
10	7.00	47.40	25.60	28.30	34.30	25.15	27.85	55.30	18.85	11.50	6.50	5.50		
11	6.50	145.10	23.35	26.50	30.55	34.85	31.00	241.60	18.50	10.80	6.25	4.75		
12	6.50	171.00	26.05	24.70	28.30	53.40	32.10	274.85	18.15	10.45	6.00	4.50		
13	6.50	151.50	25.60	24.25	27.85	142.30	31.55	124.80	18.15	10.10	5.75	4.25		
14	6.25	156.00	49.20	22.45	27.40	111.50	45.00	70.25	18.15	10.10	5.50	5.75		
15	5.75	149.30	67.00	21.65	24.70	88.40	30.55	51.00	17.80	9.75	5.25	11.15		
16	5.50	112.90	146.50	20.95	23.35	67.00	32.65	42.00	17.45	9.75	4.75	8.35		
17	5.75	94.00	94.70	20.60	22.45	59.20	28.30	39.80	16.75	9.40	4.50	8.35		
18	10.10	72.85	49.20	20.60	21.65	59.20	28.75	38.15	16.75	9.40	4.25	6.50		
19	18.50	51.00	37.60	20.60	22.00	165.75	30.55	33.20	16.75	9.05	4.25	6.00		
20	15.00	74.15	36.50	22.00	21.30	128.30	33.75	30.55	16.40	9.05	4.00	5.50		
21	14.65	131.10	47.40	20.95	20.60	86.30	33.20	29.65	16.40	9.05	4.00	5.50		
22	13.60	92.60	37.60	20.25	21.30	64.40	30.55	28.75	16.05	8.70	3.75	6.75		
23	8.00	63.75	34.85	19.55	19.90	51.60	27.40	27.85	15.70	8.35	3.75	11.15		
24	8.35	72.20	38.70	22.45	19.55	45.60	95.40	26.50	15.35	8.00	3.75	11.50		
25	22.00	74.15	44.40	40.90	19.20	40.90	66.35	40.35	15.00	9.40	3.75	18.15		
26	82.80	56.60	82.10	36.50	22.00	39.80	93.30	68.30	15.00	9.75	3.50	17.45		
27	37.05	44.40	54.65	69.60	22.90	39.25	76.75	38.15	15.00	9.40	3.00	13.25		
28	25.60	36.50	49.20	110.80	35.40	55.95	50.40	30.55	14.30	9.40	3.00	11.15		
29	42.00	31.55	47.40	64.40	33.75	66.35	70.25	27.85	13.95	8.70		9.40		
30	45.60	28.30	37.60	45.00	27.85	46.20	45.00	26.05	13.95	8.35		9.05		
31		29.65		64.40	41.45		38.70		13.60	7.75		9.05		
Total	461.45	2687.75	1315.95	1051.30	955.10	1890.05	1272.25	1612.20	550.95	319.15	147.00	252.00	12515.15	CMSDAY
Mean	15.38	86.70	43.87	33.91	30.81	63.00	41.04	53.74	17.77	10.30	5.25	8.13	34.29	CMS
Max	82.80	289.70	146.50	110.80	53.40	165.75	95.40	274.85	24.25	13.25	7.50	18.15	289.70	CMS
Min	5.50	22.00	23.35	19.55	19.20	24.70	27.40	23.80	13.60	7.75	3.00	3.50	3.00	CMS
Runoff	39.87	232.22	113.70	90.83	82.52	163.30	109.92	139.29	47.60	27.57	12.70	21.77	1081.31	MCM

Momentary Peak 305.38 CMS. at 7.55 m. (MSL.) at 06.00 Hours , on Nov 12, 2008

Runoff Yield 18.90 Liters/Second/Square KM. Momentary Peak Yield 168.35 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Nai Khieo at Ban Thon Hong, Nakhon Si Thammarat (X.165)

Lat 08 - 33 - 47 N Long 99 - 48 - 59 E

Location : on right bank at Ban Thon Hong.

	Ban Thon Hong	**Amphoe** Phrom Khiri	**Changwat** Nakhon Si Thammar
Drainge Area	25 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 9 meters from the top staff gage.	**Elevation** +30.057 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 mean of 5 readings		
Period of Available Gage Records	1986 to date		
Rating Operation			
Period of Rating	1989 to date		
Rated by Float	-		
Rated by Current Meter	1989 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

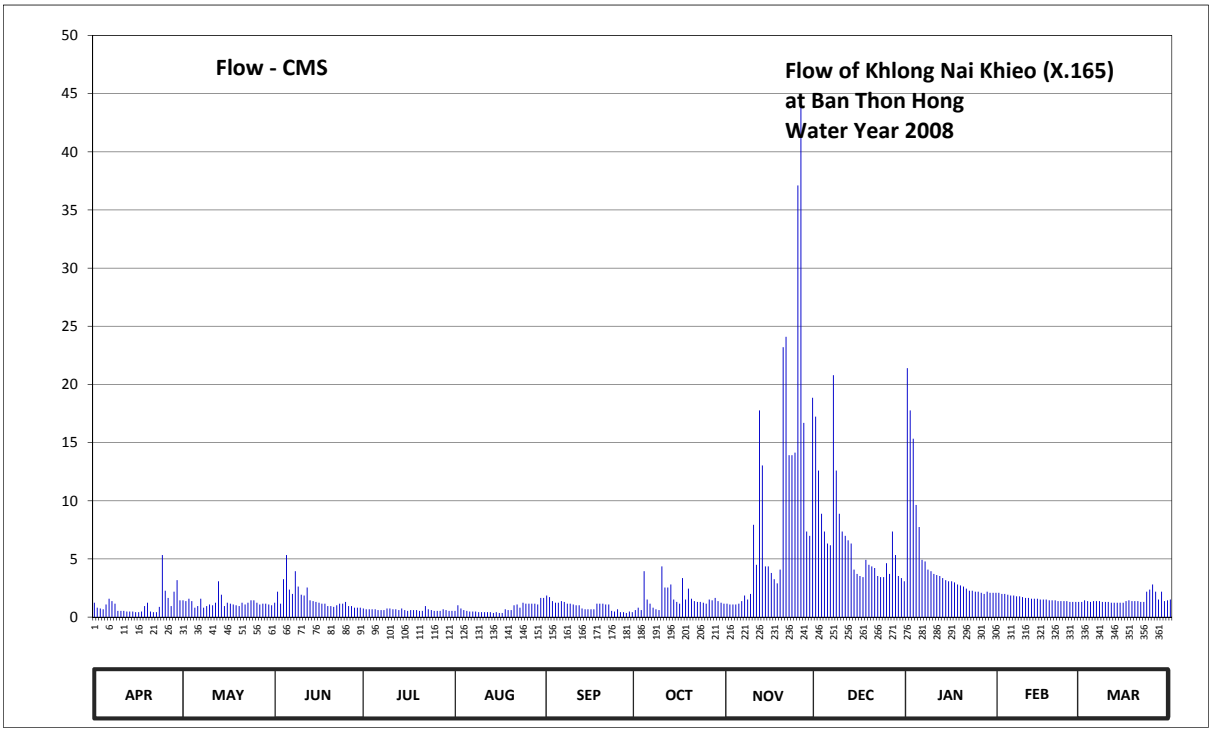
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	21.29	21.32	21.29	21.22	21.19	21.38	21.20	21.28	22.29	22.44	21.41	21.30	
2	21.23	21.31	21.42	21.21	21.26	21.36	21.23	21.27	22.10	22.31	21.40	21.32	
3	21.22	21.34	21.28	21.21	21.22	21.31	21.20	21.27	21.92	22.22	21.40	21.31	
4	21.21	21.31	21.54	21.21	21.20	21.29	21.61	21.27	21.84	21.96	21.39	21.30	
5	21.27	21.23	21.71	21.21	21.19	21.29	21.33	21.28	21.78	21.86	21.38	21.31	
6	21.34	21.25	21.44	21.20	21.18	21.31	21.28	21.31	21.77	21.68	21.38	21.31	
7	21.31	21.34	21.40	21.20	21.18	21.30	21.23	21.38	22.42	21.67	21.37	21.31	
8	21.28	21.23	21.61	21.20	21.18	21.28	21.21	21.33	22.10	21.62	21.37	21.30	
9	21.19	21.25	21.47	21.22	21.17	21.28	21.20	21.40	21.92	21.61	21.36	21.30	
10	21.19	21.27	21.39	21.22	21.17	21.27	21.64	21.87	21.84	21.59	21.35	21.30	
11	21.19	21.26	21.38	21.21	21.17	21.26	21.46	21.65	21.82	21.58	21.35	21.29	
12	21.18	21.29	21.46	21.21	21.17	21.26	21.46	22.31	21.80	21.57	21.34	21.29	
13	21.18	21.52	21.32	21.20	21.17	21.22	21.49	22.12	21.78	21.55	21.34	21.29	
14	21.18	21.39	21.31	21.22	21.16	21.21	21.33	21.64	21.62	21.53	21.34	21.29	
15	21.17	21.25	21.30	21.20	21.17	21.21	21.30	21.64	21.59	21.52	21.33	21.29	
16	21.17	21.29	21.29	21.19	21.16	21.21	21.28	21.60	21.57	21.52	21.33	21.31	
17	21.18	21.28	21.28	21.20	21.16	21.21	21.55	21.54	21.56	21.51	21.33	21.32	
18	21.25	21.27	21.28	21.20	21.21	21.28	21.33	21.50	21.68	21.49	21.32	21.31	
19	21.29	21.26	21.25	21.20	21.20	21.28	21.45	21.62	21.65	21.48	21.32	21.31	
20	21.18	21.25	21.25	21.19	21.20	21.28	21.34	22.50	21.64	21.47	21.32	21.31	
21	21.17	21.29	21.24	21.19	21.26	21.27	21.31	22.53	21.63	21.45	21.31	21.30	
22	21.17	21.27	21.26	21.25	21.27	21.27	21.30	22.16	21.57	21.43	21.31	21.30	
23	21.24	21.29	21.28	21.21	21.23	21.19	21.30	22.16	21.56	21.43	21.31	21.42	
24	21.71	21.32	21.28	21.20	21.29	21.18	21.29	22.17	21.56	21.42	21.31	21.44	
25	21.43	21.32	21.30	21.19	21.28	21.21	21.28	22.90	21.66	21.42	21.30	21.49	
26	21.35	21.29	21.25	21.19	21.28	21.17	21.33	23.08	21.59	21.41	21.30	21.42	
27	21.25	21.27	21.25	21.19	21.28	21.17	21.32	22.27	21.84	21.40	21.30	21.33	
28	21.42	21.28	21.23	21.21	21.28	21.16	21.35	21.84	21.71	21.42	21.30	21.42	
29	21.53	21.28	21.23	21.20	21.27	21.18	21.31	21.82	21.57	21.41		21.31	
30	21.32	21.27	21.23	21.19	21.35	21.17	21.29	22.35	21.55	21.41		21.32	
31		21.26		21.19	21.35		21.28		21.52	21.41		21.33	
Mean	21.27	21.29	21.34	21.20	21.22	21.25	21.34	21.84	21.76	21.61	21.34	21.33	
Max	21.71	21.52	21.71	21.25	21.35	21.38	21.64	23.08	22.42	22.44	21.41	21.49	23.08
Min	21.17	21.23	21.23	21.19	21.16	21.16	21.20	21.27	21.52	21.40	21.30	21.29	21.16

Annual Max Momentary Gage Height 23.67 m. (MSL.) , at 18.00 Hours , on Nov 25 , 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 24.13 m. (MSL.)

Left Bank Elevation 31.43 m. (MSL.) ,

Right Bank Elevation 31.77 m. (MSL.) , Drainage Are 25 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.23	1.44	1.23	0.74	0.54	1.86	0.60	1.16	17.23	21.40	2.09	1.30		
2	0.81	1.37	2.18	0.67	1.02	1.72	0.81	1.09	12.60	17.77	2.00	1.44		
3	0.74	1.58	1.16	0.67	0.74	1.37	0.60	1.09	8.88	15.34	2.00	1.37		
4	0.67	1.37	3.26	0.67	0.60	1.23	3.94	1.09	7.36	9.64	1.93	1.30		
5	1.09	0.81	5.34	0.67	0.54	1.23	1.51	1.16	6.32	7.74	1.86	1.37		
6	1.58	0.95	2.36	0.60	0.48	1.37	1.16	1.37	6.18	4.92	1.86	1.37		
7	1.37	1.58	2.00	0.60	0.48	1.30	0.81	1.86	20.80	4.78	1.79	1.37		
8	1.16	0.81	3.94	0.60	0.48	1.16	0.67	1.51	12.60	4.08	1.79	1.30		
9	0.54	0.95	2.63	0.74	0.42	1.16	0.60	2.00	8.88	3.94	1.72	1.30		
10	0.54	1.09	1.93	0.74	0.42	1.09	4.36	7.93	7.36	3.71	1.65	1.30		
11	0.54	1.02	1.86	0.67	0.42	1.02	2.54	4.50	6.98	3.62	1.65	1.23		
12	0.48	1.23	2.54	0.67	0.42	1.02	2.54	17.77	6.60	3.53	1.58	1.23		
13	0.48	3.08	1.44	0.60	0.42	0.74	2.81	13.04	6.32	3.35	1.58	1.23		
14	0.48	1.93	1.37	0.74	0.36	0.67	1.51	4.36	4.08	3.17	1.58	1.23		
15	0.42	0.95	1.30	0.60	0.42	0.67	1.30	4.36	3.71	3.08	1.51	1.23		
16	0.42	1.23	1.23	0.54	0.36	0.67	1.16	3.80	3.53	3.08	1.51	1.37		
17	0.48	1.16	1.16	0.60	0.36	0.67	3.35	3.26	3.44	2.99	1.51	1.44		
18	0.95	1.09	1.16	0.60	0.67	1.16	1.51	2.90	4.92	2.81	1.44	1.37		
19	1.23	1.02	0.95	0.60	0.60	1.16	2.45	4.08	4.50	2.72	1.44	1.37		
20	0.48	0.95	0.95	0.54	0.60	1.16	1.58	23.20	4.36	2.63	1.44	1.37		
21	0.42	1.23	0.88	0.54	1.02	1.09	1.37	24.10	4.22	2.45	1.37	1.30		
22	0.42	1.09	1.02	0.95	1.09	1.09	1.30	13.92	3.53	2.27	1.37	1.30		
23	0.88	1.23	1.16	0.67	0.81	0.54	1.30	13.92	3.44	2.27	1.37	2.18		
24	5.34	1.44	1.16	0.60	1.23	0.48	1.23	14.14	3.44	2.18	1.37	2.36		
25	2.27	1.44	1.30	0.54	1.16	0.67	1.16	37.10	4.64	2.18	1.30	2.81		
26	1.65	1.23	0.95	0.54	1.16	0.42	1.51	44.36	3.71	2.09	1.30	2.18		
27	0.95	1.09	0.95	0.54	1.16	0.42	1.44	16.69	7.36	2.00	1.30	1.51		
28	2.18	1.16	0.81	0.67	1.16	0.36	1.65	7.36	5.34	2.18	1.30	2.18		
29	3.17	1.16	0.81	0.60	1.09	0.48	1.37	6.98	3.53	2.09		1.37		
30	1.44	1.09	0.81	0.54	1.65	0.42	1.23	18.85	3.35	2.09		1.44		
31		1.02		0.54	1.65		1.16		3.08	2.09		1.51		
Total	34.41	38.79	49.84	19.59	23.53	28.40	50.53	298.95	202.29	148.19	44.61	46.63	985.76	CMSDAY
Mean	1.15	1.25	1.66	0.63	0.76	0.95	1.63	9.97	6.53	4.78	1.59	1.50	2.70	CMS
Max	5.34	3.08	5.34	0.95	1.65	1.86	4.36	44.36	20.80	21.40	2.09	2.81	44.36	CMS
Min	0.42	0.81	0.81	0.54	0.36	0.36	0.60	1.09	3.08	2.00	1.30	1.23	0.36	CMS
Runoff	2.97	3.35	4.31	1.69	2.03	2.45	4.37	25.83	17.48	12.80	3.85	4.03	85.17	MCM

Momentary Peak 72.10 CMS. at 23.67 m. (MSL.) at 18.00 Hours , on Nov 25, 2008

Runoff Yield 108.03 Liters/Second/Square KM. Momentary Peak Yield 2884.00 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Sao Thong at Ban Sao Thong , Nakhon Si Thammarat (X.167)

Lat 08 - 16 - 44 N Long 99 - 54 - 30 E

Location : on right bank at the bridge.

	Ban Sao Thong **Amphoe** Ron Phibun **Changwat** Nakhon Si Thammar
Drainge Area	252 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 4.50 meters from the top staff gage. **Elevation** +12.456 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 mean of 5 readings
Period of Available Gage Records	1986 to date
Rating Operation	
Period of Rating	1989 to date
Rated by Float	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.36	8.42	8.26	8.21	8.13	8.14	8.09	8.17	11.51	8.53	8.28	8.13	
2	8.35	8.35	8.30	8.21	8.10	8.17	8.09	8.16	11.38	10.12	8.27	8.15	
3	8.33	8.30	8.28	8.20	8.09	8.15	8.09	8.15	10.34	10.71	8.26	8.18	
4	8.35	8.30	8.26	8.20	8.10	8.15	8.09	8.12	9.68	9.51	8.25	8.17	
5	8.31	8.29	8.32	8.16	8.10	8.49	8.10	8.12	9.35	9.02	8.23	8.16	
6	8.29	8.31	8.30	8.17	8.15	8.17	8.09	8.13	9.19	8.84	8.23	8.19	
7	8.27	8.32	8.30	8.16	8.15	8.16	8.09	8.18	11.51	8.75	8.22	8.18	
8	8.27	8.30	8.30	8.15	8.16	8.15	8.14	8.19	11.57	8.64	8.21	8.18	
9	8.26	8.30	8.35	8.20	8.15	8.13	8.13	8.43	10.89	8.52	8.26	8.18	
10	8.25	8.32	8.35	8.21	8.15	8.14	8.12	10.12	9.63	8.50	8.27	8.18	
11	8.24	8.32	8.30	8.20	8.13	8.13	8.12	10.02	9.30	8.45	8.27	8.16	
12	8.24	8.52	8.29	8.19	8.10	8.12	8.13	9.20	9.10	8.44	8.27	8.13	
13	8.24	8.67	8.29	8.18	8.09	8.11	8.18	10.68	9.55	8.43	8.27	8.13	
14	8.24	8.58	8.27	8.19	8.10	8.11	8.17	9.36	8.84	8.42	8.27	8.12	
15	8.23	8.58	8.27	8.19	8.07	8.11	8.12	8.78	8.85	8.42	8.20	8.12	
16	8.24	8.54	8.26	8.20	8.08	8.11	8.39	8.52	9.60	8.41	8.20	8.15	
17	8.24	8.45	8.26	8.19	8.08	8.09	8.24	8.44	9.29	8.31	8.25	8.18	
18	8.26	8.38	8.26	8.19	8.08	8.09	8.17	8.43	9.15	8.32	8.23	8.17	
19	8.27	8.34	8.25	8.19	8.08	8.09	8.17	8.33	8.87	8.32	8.24	8.25	
20	8.25	8.33	8.24	8.18	8.08	8.10	8.17	10.79	8.78	8.32	8.18	8.19	
21	8.24	8.33	8.23	8.18	8.09	8.13	8.16	11.72	8.69	8.31	8.16	8.25	
22	8.29	8.33	8.23	8.16	8.09	8.10	8.16	11.27	8.60	8.30	8.15	8.20	
23	8.29	8.31	8.25	8.17	8.09	8.09	8.17	10.84	8.58	8.31	8.15	8.36	
24	8.48	8.33	8.27	8.18	8.09	8.09	8.30	10.37	8.52	8.26	8.17	8.55	
25	9.35	8.34	8.25	8.18	8.08	8.08	8.42	11.57	8.51	8.28	8.17	8.60	
26	8.46	8.30	8.26	8.19	8.08	8.08	8.27	11.73	8.61	8.41	8.16	8.31	
27	8.42	8.29	8.40	8.19	8.08	8.09	8.22	11.60	8.71	8.30	8.16	8.30	
28	8.42	8.29	8.35	8.19	8.18	8.09	8.22	11.20	8.57	8.28	8.13	8.29	
29	8.91	8.29	8.35	8.19	8.16	8.09	8.21	10.37	8.51	8.28		8.43	
30	8.53	8.28	8.34	8.17	8.15	8.09	8.17	10.04	8.50	8.28		8.30	
31		8.27		8.15	8.14		8.17		8.49	8.28		8.26	
Mean	8.36	8.36	8.29	8.18	8.11	8.13	8.17	9.57	9.38	8.59	8.22	8.23	
Max	9.35	8.67	8.40	8.21	8.18	8.49	8.42	11.73	11.57	10.71	8.28	8.60	11.73
Min	8.23	8.27	8.23	8.15	8.07	8.08	8.09	8.12	8.49	8.26	8.13	8.12	8.07

Annual Max Momentary Gage Height	11.74	m. (MSL.) ,	at 09.00 Hours , on Nov 26, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	7.66	m. (MSL.)
Left Bank Elevation	14.14	m. (MSL.) ,			
Right Bank Elevation	14.13	m. (MSL.) ,	Drainage Are	252	Square Kilometers

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Sao Thong at Ban Sao Thong , Nakhon Si Thammarat (X.167)

Lat 08 - 16 - 44 N Long 99 - 54 - 30 E

Location : on right bank at the bridge.

	Ban Sao Thong **Amphoe** Ron Phibun **Changwat** Nakhon Si Thammar
Drainge Area	252 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 4.50 meters from the top staff gage. **Elevation** +12.456 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 mean of 5 readings
Period of Available Gage Records	1986 to date
Rating Operation	
Period of Rating	1989 to date
Rated by Float	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 31 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.36	8.42	8.26	8.21	8.13	8.14	8.09	8.17	11.51	8.53	8.28	8.13	
2	8.35	8.35	8.30	8.21	8.10	8.17	8.09	8.16	11.38	10.12	8.27	8.15	
3	8.33	8.30	8.28	8.20	8.09	8.15	8.09	8.15	10.34	10.71	8.26	8.18	
4	8.35	8.30	8.26	8.20	8.10	8.15	8.09	8.12	9.68	9.51	8.25	8.17	
5	8.31	8.29	8.32	8.16	8.10	8.49	8.10	8.12	9.35	9.02	8.23	8.16	
6	8.29	8.31	8.30	8.17	8.15	8.17	8.09	8.13	9.19	8.84	8.23	8.19	
7	8.27	8.32	8.30	8.16	8.15	8.16	8.09	8.18	11.51	8.75	8.22	8.18	
8	8.27	8.30	8.30	8.15	8.16	8.15	8.14	8.19	11.57	8.64	8.21	8.18	
9	8.26	8.30	8.35	8.20	8.15	8.13	8.13	8.43	10.89	8.52	8.26	8.18	
10	8.25	8.32	8.35	8.21	8.15	8.14	8.12	10.12	9.63	8.50	8.27	8.18	
11	8.24	8.32	8.30	8.20	8.13	8.13	8.12	10.02	9.30	8.45	8.27	8.16	
12	8.24	8.52	8.29	8.19	8.10	8.12	8.13	9.20	9.10	8.44	8.27	8.13	
13	8.24	8.67	8.29	8.18	8.09	8.11	8.18	10.68	9.55	8.43	8.27	8.13	
14	8.24	8.58	8.27	8.19	8.10	8.11	8.17	9.36	8.84	8.42	8.27	8.12	
15	8.23	8.58	8.27	8.19	8.07	8.11	8.12	8.78	8.85	8.42	8.20	8.12	
16	8.24	8.54	8.26	8.20	8.08	8.11	8.39	8.52	9.60	8.41	8.20	8.15	
17	8.24	8.45	8.26	8.19	8.08	8.09	8.24	8.44	9.29	8.31	8.25	8.18	
18	8.26	8.38	8.26	8.19	8.08	8.09	8.17	8.43	9.15	8.32	8.23	8.17	
19	8.27	8.34	8.25	8.19	8.08	8.09	8.17	8.33	8.87	8.32	8.24	8.25	
20	8.25	8.33	8.24	8.18	8.08	8.10	8.17	10.79	8.78	8.32	8.18	8.19	
21	8.24	8.33	8.23	8.18	8.09	8.13	8.16	11.72	8.69	8.31	8.16	8.25	
22	8.29	8.33	8.23	8.16	8.09	8.10	8.16	11.27	8.60	8.30	8.15	8.20	
23	8.29	8.31	8.25	8.17	8.09	8.09	8.17	10.84	8.58	8.31	8.15	8.36	
24	8.48	8.33	8.27	8.18	8.09	8.09	8.30	10.37	8.52	8.26	8.17	8.55	
25	9.35	8.34	8.25	8.18	8.08	8.08	8.42	11.57	8.51	8.28	8.17	8.60	
26	8.46	8.30	8.26	8.19	8.08	8.08	8.27	11.73	8.61	8.41	8.16	8.31	
27	8.42	8.29	8.40	8.19	8.08	8.09	8.22	11.60	8.71	8.30	8.16	8.30	
28	8.42	8.29	8.35	8.19	8.18	8.09	8.22	11.20	8.57	8.28	8.13	8.29	
29	8.91	8.29	8.35	8.19	8.16	8.09	8.21	10.37	8.51	8.28		8.43	
30	8.53	8.28	8.34	8.17	8.15	8.09	8.17	10.04	8.50	8.28		8.30	
31		8.27		8.15	8.14		8.17		8.49	8.28		8.26	
Mean	8.36	8.36	8.29	8.18	8.11	8.13	8.17	9.57	9.38	8.59	8.22	8.23	
Max	9.35	8.67	8.40	8.21	8.18	8.49	8.42	11.73	11.57	10.71	8.28	8.60	11.73
Min	8.23	8.27	8.23	8.15	8.07	8.08	8.09	8.12	8.49	8.26	8.13	8.12	8.07

Annual Max Momentary Gage Height	11.74	m. (MSL.) ,	at 09.00 Hours , on Nov 26, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	7.66	m. (MSL.)
Left Bank Elevation	14.14	m. (MSL.) ,			
Right Bank Elevation	14.13	m. (MSL.) ,	Drainage Are	252	Square Kilometers

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Thadee at Ban Wang Sai, Nakhon Si Thammarat (X.200)

Lat 08 - 24 - 32 N Long 99 - 47 - 54 E

Location : on left bank at Ban Wang Sai.

Ban Wang Sai **Amphoe** Lan Saka **Changwat** Nakhon Si Thammar

Drainge Area	83 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 gage site. **Elevation** +36.394 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	2006 to date
Rating Operation	
Period of Rating	2006 to date
Rated by Float	-
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 fair. Stage-discharge relation defined by 31 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

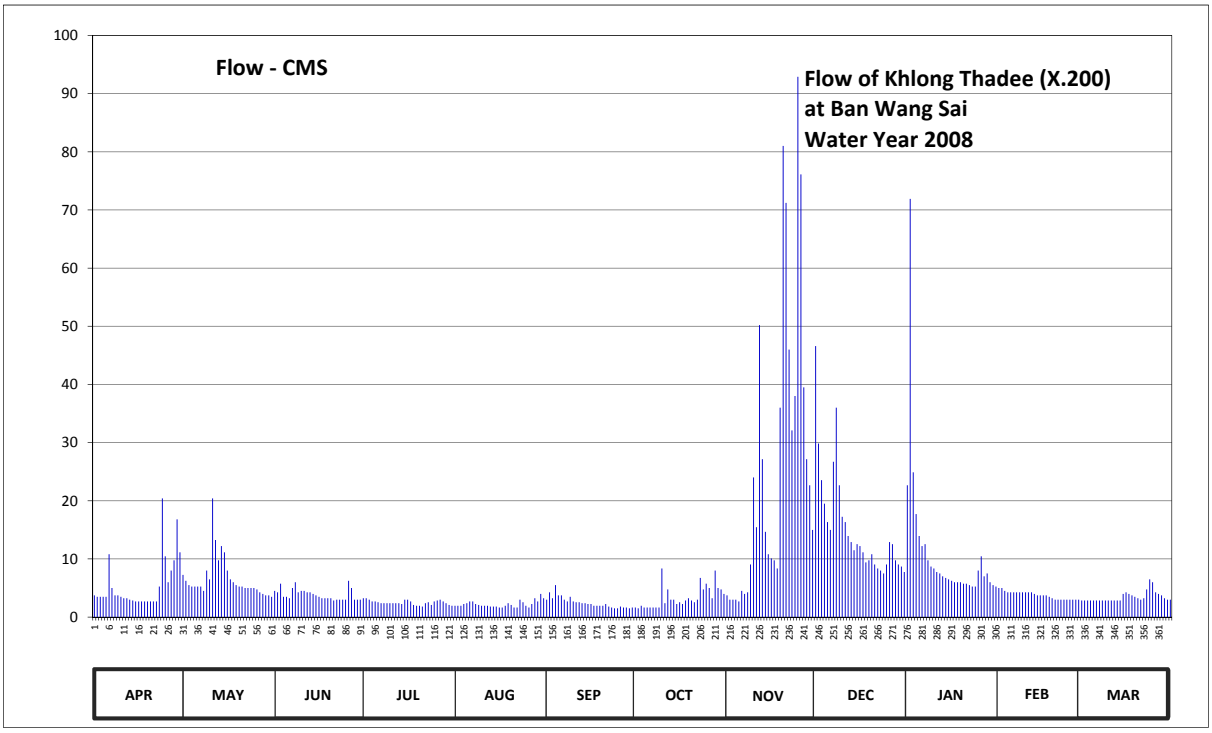
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	31.23	31.37	31.26	31.21	31.13	31.20	31.11	31.23	32.26	31.77	31.28	31.19	
2	31.22	31.33	31.25	31.21	31.13	31.25	31.10	31.20	31.93	32.67	31.28	31.19	
3	31.22	31.30	31.31	31.20	31.13	31.21	31.13	31.20	31.79	31.82	31.26	31.19	
4	31.22	31.29	31.22	31.18	31.15	31.30	31.11	31.20	31.70	31.66	31.25	31.19	
5	31.22	31.29	31.22	31.18	31.16	31.23	31.11	31.18	31.63	31.57	31.25	31.19	
6	31.48	31.29	31.21	31.17	31.18	31.23	31.11	31.26	31.60	31.52	31.25	31.19	
7	31.28	31.29	31.28	31.16	31.18	31.20	31.11	31.24	31.86	31.53	31.25	31.19	
8	31.23	31.26	31.32	31.16	31.15	31.18	31.11	31.25	32.06	31.45	31.25	31.19	
9	31.23	31.40	31.25	31.16	31.14	31.22	31.11	31.43	31.77	31.42	31.25	31.19	
10	31.22	31.34	31.26	31.16	31.13	31.18	31.41	31.80	31.65	31.41	31.25	31.19	
11	31.21	31.72	31.26	31.16	31.13	31.17	31.16	31.61	31.63	31.39	31.25	31.19	
12	31.21	31.55	31.25	31.16	31.13	31.17	31.27	32.32	31.57	31.38	31.25	31.19	
13	31.20	31.45	31.25	31.16	31.12	31.16	31.20	31.87	31.54	31.36	31.24	31.19	
14	31.19	31.52	31.24	31.15	31.12	31.16	31.20	31.59	31.50	31.35	31.23	31.19	
15	31.18	31.49	31.23	31.20	31.12	31.15	31.15	31.48	31.53	31.34	31.23	31.24	
16	31.18	31.40	31.22	31.20	31.11	31.15	31.17	31.46	31.52	31.33	31.23	31.25	
17	31.18	31.34	31.21	31.18	31.11	31.13	31.15	31.45	31.49	31.32	31.23	31.24	
18	31.18	31.32	31.21	31.14	31.13	31.13	31.19	31.41	31.44	31.32	31.22	31.23	
19	31.18	31.30	31.21	31.13	31.16	31.13	31.21	32.06	31.45	31.32	31.21	31.22	
20	31.18	31.29	31.21	31.13	31.14	31.13	31.19	32.80	31.48	31.31	31.20	31.21	
21	31.18	31.29	31.19	31.12	31.11	31.15	31.17	32.66	31.43	31.31	31.20	31.20	
22	31.18	31.28	31.20	31.16	31.11	31.12	31.20	32.25	31.41	31.30	31.20	31.21	
23	31.29	31.28	31.20	31.17	31.20	31.11	31.35	31.98	31.40	31.29	31.20	31.27	
24	31.72	31.28	31.20	31.14	31.17	31.10	31.27	32.10	31.38	31.29	31.20	31.34	
25	31.47	31.28	31.20	31.18	31.13	31.10	31.31	32.97	31.43	31.40	31.20	31.32	
26	31.32	31.27	31.33	31.19	31.11	31.12	31.28	32.73	31.54	31.47	31.20	31.25	
27	31.40	31.25	31.28	31.20	31.15	31.11	31.21	32.13	31.53	31.36	31.20	31.24	
28	31.45	31.24	31.20	31.18	31.21	31.11	31.40	31.87	31.45	31.38	31.20	31.23	
29	31.64	31.23	31.20	31.16	31.18	31.10	31.28	31.77	31.43	31.32		31.21	
30	31.49	31.23	31.20	31.14	31.24	31.11	31.27	31.60	31.42	31.30		31.20	
31		31.22		31.13	31.21		31.24		31.39	31.29		31.20	
Mean	31.29	31.34	31.24	31.17	31.15	31.16	31.20	31.77	31.59	31.45	31.23	31.22	
Max	31.72	31.72	31.33	31.21	31.24	31.30	31.41	32.97	32.26	32.67	31.28	31.34	32.97
Min	31.18	31.22	31.19	31.12	31.11	31.10	31.10	31.18	31.38	31.29	31.20	31.19	31.10

Annual Max Momentary Gage Height 34.60 m. (MSL.) , at 23.00 Hours , on Nov 19, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 30.50 m. (MSL.)

Left Bank Elevation 36.44 m. (MSL.) ,

Right Bank Elevation 36.42 m. (MSL.) , Drainage Are 83 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.75	7.25	4.50	3.25	1.95	3.00	1.65	3.75	46.60	22.65	5.00	2.85		
2	3.50	6.25	4.25	3.25	1.95	4.25	1.50	3.00	29.85	71.90	5.00	2.85		
3	3.50	5.50	5.75	3.00	1.95	3.25	1.95	3.00	23.55	24.90	4.50	2.85		
4	3.50	5.25	3.50	2.70	2.25	5.50	1.65	3.00	19.50	17.70	4.25	2.85		
5	3.50	5.25	3.50	2.70	2.40	3.75	1.65	2.70	16.35	13.95	4.25	2.85		
6	10.80	5.25	3.25	2.55	2.70	3.75	1.65	4.50	15.00	12.20	4.25	2.85		
7	5.00	5.25	5.00	2.40	2.70	3.00	1.65	4.00	26.70	12.55	4.25	2.85		
8	3.75	4.50	6.00	2.40	2.25	2.70	1.65	4.25	36.00	9.75	4.25	2.85		
9	3.75	8.00	4.25	2.40	2.10	3.50	1.65	9.05	22.65	8.70	4.25	2.85		
10	3.50	6.50	4.50	2.40	1.95	2.70	8.35	24.00	17.25	8.35	4.25	2.85		
11	3.25	20.40	4.50	2.40	1.95	2.55	2.40	15.45	16.35	7.75	4.25	2.85		
12	3.25	13.25	4.25	2.40	1.95	2.55	4.75	50.20	13.95	7.50	4.25	2.85		
13	3.00	9.75	4.25	2.40	1.80	2.40	3.00	27.15	12.90	7.00	4.00	2.85		
14	2.85	12.20	4.00	2.25	1.80	2.40	3.00	14.65	11.50	6.75	3.75	2.85		
15	2.70	11.15	3.75	3.00	1.80	2.25	2.25	10.80	12.55	6.50	3.75	4.00		
16	2.70	8.00	3.50	3.00	1.65	2.25	2.55	10.10	12.20	6.25	3.75	4.25		
17	2.70	6.50	3.25	2.70	1.65	1.95	2.25	9.75	11.15	6.00	3.75	4.00		
18	2.70	6.00	3.25	2.10	1.95	1.95	2.85	8.35	9.40	6.00	3.50	3.75		
19	2.70	5.50	3.25	1.95	2.40	1.95	3.25	36.00	9.75	6.00	3.25	3.50		
20	2.70	5.25	3.25	1.95	2.10	1.95	2.85	81.00	10.80	5.75	3.00	3.25		
21	2.70	5.25	2.85	1.80	1.65	2.25	2.55	71.20	9.05	5.75	3.00	3.00		
22	2.70	5.00	3.00	2.40	1.65	1.80	3.00	46.00	8.35	5.50	3.00	3.25		
23	5.25	5.00	3.00	2.55	3.00	1.65	6.75	32.10	8.00	5.25	3.00	4.75		
24	20.40	5.00	3.00	2.10	2.55	1.50	4.75	38.00	7.50	5.25	3.00	6.50		
25	10.45	5.00	3.00	2.70	1.95	1.50	5.75	92.90	9.05	8.00	3.00	6.00		
26	6.00	4.75	6.25	2.85	1.65	1.80	5.00	76.10	12.90	10.45	3.00	4.25		
27	8.00	4.25	5.00	3.00	2.25	1.65	3.25	39.50	12.55	7.00	3.00	4.00		
28	9.75	4.00	3.00	2.70	3.25	1.65	8.00	27.15	9.75	7.50	3.00	3.75		
29	16.80	3.75	3.00	2.40	2.70	1.50	5.00	22.65	9.05	6.00		3.25		
30	11.15	3.75	3.00	2.10	4.00	1.65	4.75	15.00	8.70	5.50		3.00		
31		3.50		1.95	3.25		4.00		7.75	5.25		3.00		
Total	166.30	206.25	116.85	77.75	69.15	74.55	105.30	785.30	476.65	339.60	105.50	107.40	2630.60	CMSDAY
Mean	5.54	6.65	3.90	2.51	2.23	2.49	3.40	26.18	15.38	10.95	3.77	3.46	7.21	CMS
Max	20.40	20.40	6.25	3.25	4.00	5.50	8.35	92.90	46.60	71.90	5.00	6.50	92.90	CMS
Min	2.70	3.50	2.85	1.80	1.65	1.50	1.50	2.70	7.50	5.25	3.00	2.85	1.50	CMS
Runoff	14.37	17.82	10.10	6.72	5.97	6.44	9.10	67.85	41.18	29.34	9.12	9.28	227.28	MCM

Momentary Peak 232.00 CMS. at 34.60 m. (MSL.) at 23.00 Hours , on Nov 19, 2008

Runoff Yield 86.82 Liters/Second/Square KM. Momentary Peak Yield 2794.84 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Thadee at Ban Na Pa , Nakhon Si Thammarat (X.203)

Lat 08 - 23 - 39 N Long 99 - 54 - 55 E

Location : on left bank at Ban Na Pa.

	Ban Na Pa	**Amphoe** Mueang	**Changwat** Nakhon Si Thammarat
Drainge Area	120 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 gage site.		**Elevation** +12.303 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2000 to date		
Rating Operation			
Period of Rating	2000 to date		
Rated by Float	-		
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 31 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

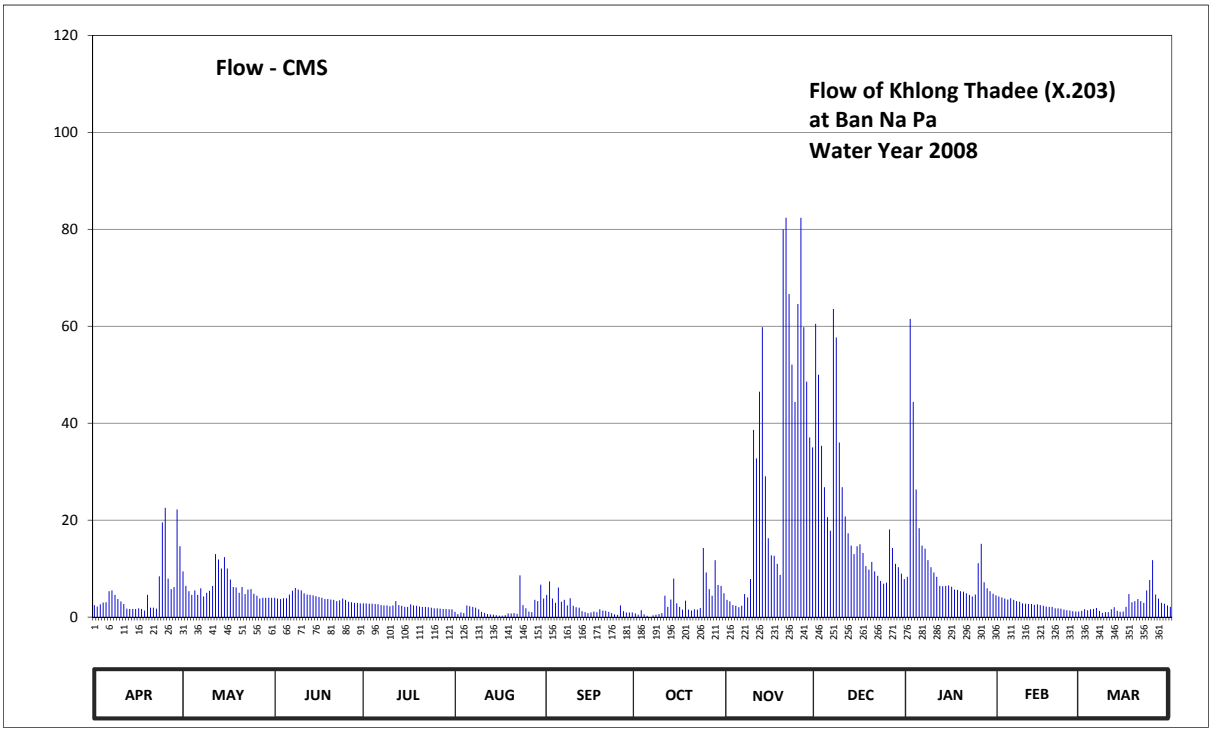
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	8.09	8.87	8.28	8.14	7.89	8.35	7.84	8.23	10.80	8.77	8.31	7.92	
2	8.05	8.57	8.26	8.14	7.82	8.67	7.80	8.19	10.65	10.81	8.29	7.97	
3	8.11	8.44	8.25	8.13	7.87	8.26	7.94	8.09	10.38	10.56	8.26	7.94	
4	8.16	8.35	8.27	8.13	7.85	8.15	7.81	8.07	10.08	10.06	8.24	7.97	
5	8.17	8.46	8.27	8.12	8.08	8.53	7.75	8.03	9.73	9.58	8.27	7.98	
6	8.44	8.35	8.36	8.11	8.06	8.18	7.70	8.07	9.54	9.30	8.23	8.01	
7	8.46	8.51	8.45	8.09	8.04	8.23	7.77	8.37	10.83	9.25	8.20	7.92	
8	8.35	8.31	8.52	8.08	8.02	8.08	7.80	8.29	10.76	9.06	8.18	7.86	
9	8.25	8.40	8.48	8.08	7.97	8.27	7.82	8.72	10.40	8.94	8.14	7.88	
10	8.19	8.45	8.46	8.06	7.89	8.07	7.85	10.45	10.08	8.85	8.13	7.88	
11	8.12	8.57	8.39	8.08	7.86	8.03	8.33	10.30	9.74	8.77	8.12	7.97	
12	7.99	9.16	8.36	8.20	7.82	8.02	8.04	10.60	9.50	8.57	8.12	8.03	
13	7.98	9.07	8.35	8.09	7.81	7.91	8.24	10.79	9.30	8.56	8.10	7.92	
14	7.98	8.92	8.34	8.07	7.80	7.88	8.73	10.18	9.16	8.57	8.11	7.89	
15	7.98	9.11	8.32	8.04	7.78	7.85	8.14	9.42	9.29	8.58	8.09	7.90	
16	8.00	8.92	8.30	8.04	7.76	7.87	8.04	9.14	9.32	8.55	8.07	8.04	
17	7.98	8.71	8.28	8.11	7.76	7.90	7.96	9.13	9.18	8.48	8.05	8.37	
18	7.93	8.54	8.25	8.08	7.78	7.88	8.21	9.00	8.96	8.47	8.04	8.17	
19	8.35	8.53	8.25	8.07	7.84	7.97	7.96	8.81	8.90	8.44	8.04	8.20	
20	8.02	8.40	8.24	8.05	7.84	7.93	7.93	10.99	9.03	8.43	8.00	8.25	
21	8.02	8.54	8.23	8.04	7.85	7.92	7.97	11.01	8.87	8.39	8.00	8.20	
22	7.99	8.37	8.20	8.04	7.83	7.89	7.96	10.86	8.79	8.35	7.99	8.15	
23	8.78	8.48	8.22	8.03	8.80	7.85	8.01	10.68	8.68	8.31	7.96	8.46	
24	9.66	8.49	8.26	8.02	8.09	7.81	9.26	10.56	8.62	8.36	7.94	8.70	
25	9.85	8.38	8.23	8.00	8.00	7.79	8.85	10.84	8.64	9.01	7.93	9.06	
26	8.73	8.33	8.18	8.00	7.90	8.08	8.49	11.01	9.56	9.33	7.91	8.36	
27	8.49	8.26	8.17	7.99	7.88	7.91	8.33	10.79	9.26	8.65	7.90	8.26	
28	8.54	8.28	8.15	7.98	8.23	7.87	9.06	10.63	9.00	8.51	7.90	8.15	
29	9.83	8.28	8.15	7.98	8.20	7.87	8.59	10.42	8.94	8.44		8.13	
30	9.29	8.28	8.14	7.97	8.60	7.87	8.57	10.37	8.83	8.38		8.08	
31		8.28		7.97	8.26		8.39		8.72	8.34		8.04	
Mean	8.39	8.54	8.29	8.06	7.97	8.03	8.17	9.67	9.47	8.86	8.09	8.12	
Max	9.85	9.16	8.52	8.20	8.80	8.67	9.26	11.01	10.83	10.81	8.31	9.06	11.01
Min	7.93	8.26	8.14	7.97	7.76	7.79	7.70	8.03	8.62	8.31	7.90	7.86	7.70

Annual Max Momentary Gage Height 11.04 m. (MSL.) , at 06.00 Hours , on Nov 26, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 7.45 m. (MSL.)

Left Bank Elevation 12.41 m. (MSL.) ,

Right Bank Elevation 12.33 m. (MSL.) , Drainage Are 120 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.48	9.44	3.98	2.85	1.09	4.58	0.76	3.56	60.50	8.32	4.24	1.28		
2	2.18	6.45	3.81	2.85	0.63	7.37	0.50	3.23	50.00	61.53	4.07	1.61		
3	2.63	5.34	3.73	2.78	0.96	3.81	1.41	2.48	35.35	44.40	3.81	1.41		
4	3.00	4.58	3.90	2.78	0.83	2.93	0.57	2.33	26.80	26.35	3.64	1.61		
5	3.08	5.51	3.90	2.70	2.40	6.11	0.25	2.03	20.62	18.34	3.90	1.67		
6	5.34	4.58	4.66	2.63	2.25	3.15	0.00	2.33	17.82	14.75	3.56	1.88		
7	5.51	5.94	5.43	2.48	2.10	3.56	0.35	4.75	63.58	14.13	3.30	1.28		
8	4.58	4.24	6.02	2.40	1.95	2.40	0.50	4.07	57.70	11.75	3.15	0.89		
9	3.73	5.00	5.68	2.40	1.61	3.90	0.63	7.84	36.00	10.28	2.85	1.02		
10	3.23	5.43	5.51	2.25	1.09	2.33	0.83	38.63	26.80	9.20	2.78	1.02		
11	2.70	6.45	4.92	2.40	0.89	2.03	4.41	32.75	20.77	8.32	2.70	1.61		
12	1.74	13.00	4.66	3.30	0.63	1.95	2.10	46.50	17.30	6.45	2.70	2.03		
13	1.67	11.88	4.58	2.48	0.57	1.22	3.64	59.80	14.75	6.36	2.55	1.28		
14	1.67	10.04	4.49	2.33	0.50	1.02	7.94	29.05	13.00	6.45	2.63	1.09		
15	1.67	12.38	4.32	2.10	0.40	0.83	2.85	16.26	14.63	6.53	2.48	1.15		
16	1.80	10.04	4.15	2.10	0.30	0.96	2.10	12.75	15.00	6.28	2.33	2.10		
17	1.67	7.75	3.98	2.63	0.30	1.15	1.54	12.63	13.25	5.68	2.18	4.75		
18	1.35	6.19	3.73	2.40	0.40	1.02	3.39	11.00	10.52	5.60	2.10	3.08		
19	4.58	6.11	3.73	2.33	0.76	1.61	1.54	8.72	9.80	5.34	2.10	3.30		
20	1.95	5.00	3.64	2.18	0.76	1.35	1.35	79.98	11.38	5.26	1.80	3.73		
21	1.95	6.19	3.56	2.10	0.83	1.28	1.61	82.37	9.44	4.92	1.80	3.30		
22	1.74	4.75	3.30	2.10	0.70	1.09	1.54	66.65	8.51	4.58	1.74	2.93		
23	8.41	5.68	3.47	2.03	8.60	0.83	1.88	52.10	7.46	4.24	1.54	5.51		
24	19.53	5.77	3.81	1.95	2.48	0.57	14.25	44.40	6.89	4.66	1.41	7.65		
25	22.53	4.83	3.56	1.80	1.80	0.45	9.20	64.60	7.08	11.13	1.35	11.75		
26	7.94	4.41	3.15	1.80	1.15	2.40	5.77	82.37	18.08	15.13	1.22	4.66		
27	5.77	3.81	3.08	1.74	1.02	1.22	4.41	59.80	14.25	7.18	1.15	3.81		
28	6.19	3.98	2.93	1.67	3.56	0.96	11.75	48.60	11.00	5.94	1.15	2.93		
29	22.20	3.98	2.93	1.67	3.30	0.96	6.62	37.05	10.28	5.34		2.78		
30	14.63	3.98	2.85	1.61	6.70	0.96	6.45	35.03	8.96	4.83		2.40		
31		3.98		1.61	3.81		4.92		7.84	4.49		2.10		
Total	167.45	196.71	121.46	70.45	54.37	64.00	105.06	953.66	645.36	353.76	70.23	87.61	2890.12	CMSDAY
Mean	5.58	6.35	4.05	2.27	1.75	2.13	3.39	31.79	20.82	11.41	2.51	2.83	7.92	CMS
Max	22.53	13.00	6.02	3.30	8.60	7.37	14.25	82.37	63.58	61.53	4.24	11.75	82.37	CMS
Min	1.35	3.81	2.85	1.61	0.30	0.45	0.00	2.03	6.89	4.24	1.15	0.89	0.00	CMS
Runoff	14.47	17.00	10.49	6.09	4.70	5.53	9.08	82.40	55.76	30.56	6.07	7.57	249.71	MCM

Momentary Peak 86.46 CMS. at 11.04 m. (MSL.) at 06.00 Hours , on Nov 26, 2008

Runoff Yield 65.96 Liters/Second/Square KM. Momentary Peak Yield 720.20 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Upper Khlong Lang Suan at Ban Phato , Chumphon (X.213)

Lat 09 - 46 - 55 N Long 98 - 46 - 55 E

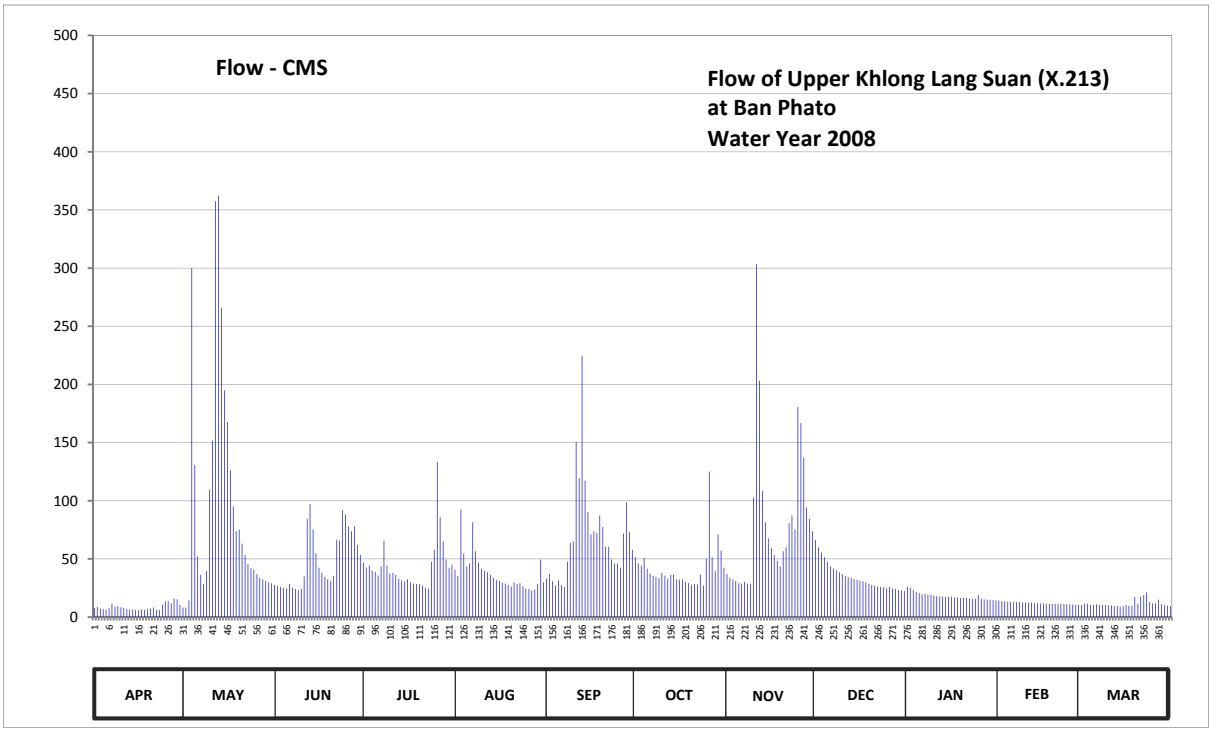
Location : on left bank at the bridge.

	Ban Phato	**Amphoe** Phato	**Changwat** Chumphon
Drainge Area	714 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** 53.360 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 Float	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records good. Stage-discharge relation defined by 60 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	42.04	42.05	42.64	43.06	42.95	42.78	43.13	42.87	43.36	42.60	42.27	42.14	
2	42.07	42.05	42.62	42.99	42.83	42.87	43.05	42.80	43.26	42.58	42.26	42.18	
3	42.01	42.28	42.60	43.02	43.73	42.72	43.02	42.76	43.19	42.53	42.25	42.18	
4	41.99	46.09	42.58	42.93	43.18	42.63	43.12	42.73	43.13	42.49	42.24	42.15	
5	41.97	44.21	42.57	42.91	43.01	42.74	42.97	42.68	43.07	42.47	42.24	42.14	
6	42.03	43.14	42.66	42.84	43.05	42.64	42.88	42.67	43.01	42.44	42.24	42.16	
7	42.18	42.85	42.58	43.01	43.58	42.60	42.83	42.71	42.97	42.45	42.23	42.14	
8	42.08	42.67	42.55	43.35	43.21	43.07	42.81	42.67	42.94	42.43	42.23	42.13	
9	42.10	42.92	42.53	43.02	43.06	43.32	42.79	42.67	42.90	42.43	42.22	42.13	
10	42.06	43.94	42.56	42.88	42.97	43.34	42.89	43.86	42.87	42.41	42.22	42.13	
11	42.04	44.47	42.82	42.89	42.93	44.46	42.84	46.12	42.83	42.40	42.21	42.12	
12	42.00	46.58	43.62	42.85	42.90	44.07	42.78	45.09	42.81	42.39	42.21	42.10	
13	41.98	46.62	43.79	42.77	42.85	45.33	42.85	43.93	42.79	42.38	42.20	42.10	
14	41.97	45.78	43.49	42.74	42.79	44.04	42.86	43.58	42.77	42.38	42.20	42.09	
15	41.96	45.00	43.18	42.72	42.75	43.70	42.76	43.38	42.75	42.38	42.19	42.10	
16	41.95	44.67	42.99	42.76	42.73	43.43	42.75	43.25	42.73	42.38	42.19	42.14	
17	41.98	44.15	42.89	42.70	42.69	43.47	42.76	43.16	42.72	42.37	42.18	42.11	
18	41.96	43.76	42.81	42.67	42.67	43.45	42.71	43.08	42.70	42.36	42.17	42.11	
19	42.00	43.47	42.76	42.66	42.64	43.66	42.68	43.01	42.67	42.35	42.17	42.38	
20	42.01	43.49	42.73	42.66	42.61	43.52	42.64	43.21	42.64	42.35	42.17	42.18	
21	42.05	43.31	42.83	42.63	42.70	43.27	42.66	43.26	42.63	42.35	42.17	42.38	
22	41.97	43.16	43.36	42.58	42.66	43.27	42.65	43.57	42.61	42.33	42.17	42.42	
23	41.95	43.04	43.35	42.56	42.68	43.10	42.86	43.66	42.60	42.32	42.17	42.48	
24	42.15	42.98	43.72	43.07	42.61	43.05	42.63	43.49	42.59	42.32	42.16	42.23	
25	42.26	42.95	43.67	43.23	42.56	43.05	43.11	44.83	42.57	42.42	42.16	42.19	
26	42.26	42.87	43.53	44.24	42.55	42.99	44.14	44.66	42.60	42.33	42.15	42.20	
27	42.19	42.80	43.47	43.64	42.52	43.44	43.13	44.29	42.57	42.31	42.15	42.30	
28	42.33	42.76	43.53	43.34	42.54	43.81	42.92	43.75	42.56	42.30	42.15	42.16	
29	42.31	42.73	43.29	43.10	42.66	43.46	43.43	43.62	42.53	42.30		42.13	
30	42.14	42.70	43.16	42.99	43.10	43.23	43.22	43.47	42.52	42.29		42.11	
31		42.68		43.03	42.70		42.99		42.51	42.28		42.10	
Mean	42.07	43.62	43.03	42.96	42.85	43.35	42.93	43.49	42.79	42.39	42.20	42.18	
Max	42.33	46.62	43.79	44.24	43.73	45.33	44.14	46.12	43.36	42.60	42.27	42.48	46.62
Min	41.95	42.05	42.53	42.56	42.52	42.60	42.63	42.67	42.51	42.28	42.15	42.09	41.95

Annual Max Momentary Gage Height	48.25	m. (MSL.) ,	at 18.00 Hours , on May 4, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	39.24	m. (MSL.)
Left Bank Elevation	53.29	m. (MSL.) ,			
Right Bank Elevation	53.33	m. (MSL.) ,	Drainage Are	714	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.00	8.25	27.60	46.90	40.75	33.20	51.45	37.15	66.40	26.00	14.10	10.50		
2	8.75	8.25	26.80	42.55	35.35	37.15	46.25	34.00	59.90	25.20	13.80	11.50		
3	7.25	14.40	26.00	44.30	92.75	30.80	44.30	32.40	55.35	23.20	13.50	11.50		
4	6.80	299.90	25.20	39.85	54.70	27.20	50.80	31.20	51.45	21.60	13.20	10.75		
5	6.40	130.80	24.80	38.95	43.65	31.60	41.65	29.20	47.55	20.80	13.20	10.50		
6	7.75	52.10	28.40	35.80	46.25	27.60	37.60	28.80	43.65	19.60	13.20	11.00		
7	11.50	36.25	25.20	43.65	81.60	26.00	35.35	30.40	41.65	20.00	12.90	10.50		
8	9.00	28.80	24.00	65.75	56.65	47.55	34.45	28.80	40.30	19.20	12.90	10.25		
9	9.50	39.40	23.20	44.30	46.90	63.80	33.60	28.80	38.50	19.20	12.60	10.25		
10	8.50	109.20	24.40	37.60	41.65	65.10	38.05	102.80	37.15	18.40	12.60	10.25		
11	8.00	151.60	34.90	38.05	39.85	150.80	35.80	303.20	35.35	18.00	12.30	10.00		
12	7.00	357.60	84.50	36.25	38.50	119.60	33.20	203.10	34.45	17.70	12.30	9.50		
13	6.60	362.40	97.25	32.80	36.25	224.70	36.25	108.40	33.60	17.40	12.00	9.50		
14	6.40	266.10	75.30	31.60	33.60	117.20	36.70	81.60	32.80	17.40	12.00	9.25		
15	6.20	195.00	54.70	30.80	32.00	90.50	32.40	67.70	32.00	17.40	11.75	9.50		
16	6.00	167.60	42.55	32.40	31.20	71.10	32.00	59.25	31.20	17.40	11.75	10.50		
17	6.60	126.00	38.05	30.00	29.60	73.90	32.40	53.40	30.80	17.10	11.50	9.75		
18	6.20	95.00	34.45	28.80	28.80	72.50	30.40	48.20	30.00	16.80	11.25	9.75		
19	7.00	73.90	32.40	28.40	27.60	87.50	29.20	43.65	28.80	16.50	11.25	17.40		
20	7.25	75.30	31.20	28.40	26.40	77.40	27.60	56.65	27.60	16.50	11.25	11.50		
21	8.25	63.15	35.35	27.20	30.00	60.55	28.40	59.90	27.20	16.50	11.25	17.40		
22	6.40	53.40	66.40	25.20	28.40	60.55	28.00	80.90	26.40	15.90	11.25	18.80		
23	6.00	45.60	65.75	24.40	29.20	49.50	36.70	87.50	26.00	15.60	11.25	21.20		
24	10.75	42.10	92.00	47.55	26.40	46.25	27.20	75.30	25.60	15.60	11.00	12.90		
25	13.80	40.75	88.25	57.95	24.40	46.25	50.15	180.55	24.80	18.80	11.00	11.75		
26	13.80	37.15	78.10	133.20	24.00	42.55	125.20	166.80	26.00	15.90	10.75	12.00		
27	11.75	34.00	73.90	86.00	22.80	71.80	51.45	137.20	24.80	15.30	10.75	15.00		
28	15.90	32.40	78.10	65.10	23.60	98.80	39.40	94.25	24.40	15.00	10.75	11.00		
29	15.30	31.20	61.85	49.50	28.40	73.20	71.10	84.50	23.20	15.00		10.25		
30	10.50	30.00	53.40	42.55	49.50	57.95	57.30	73.90	22.80	14.70		9.75		
31		29.20		44.95	30.00		42.55		22.40	14.40		9.50		
Total	263.15	3036.80	1474.00	1360.75	1180.75	2082.60	1296.90	2449.50	1072.10	558.10	337.35	363.20	15475.20	CMSDAY
Mean	8.77	97.96	49.13	43.90	38.09	69.42	41.84	81.65	34.58	18.00	12.05	11.72	42.40	CMS
Max	15.90	362.40	97.25	133.20	92.75	224.70	125.20	303.20	66.40	26.00	14.10	21.20	362.40	CMS
Min	6.00	8.25	23.20	24.40	22.80	26.00	27.20	28.80	22.40	14.40	10.75	9.25	6.00	CMS
Runoff	22.74	262.38	127.35	117.57	102.02	179.94	112.05	211.64	92.63	48.22	29.15	31.38	1337.06	MCM

Momentary Peak 571.00 CMS. at 48.25 m. (MSL.) at 18.00 Hours , on May 4, 2008

Runoff Yield 59.36 Liters/Second/Square KM. Momentary Peak Yield 799.46 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Tha Sae at Ban Wang Maprang , Chumphon (X.247)

Lat 10 - 43 - 58 N Long 99 - 10 - 42 E

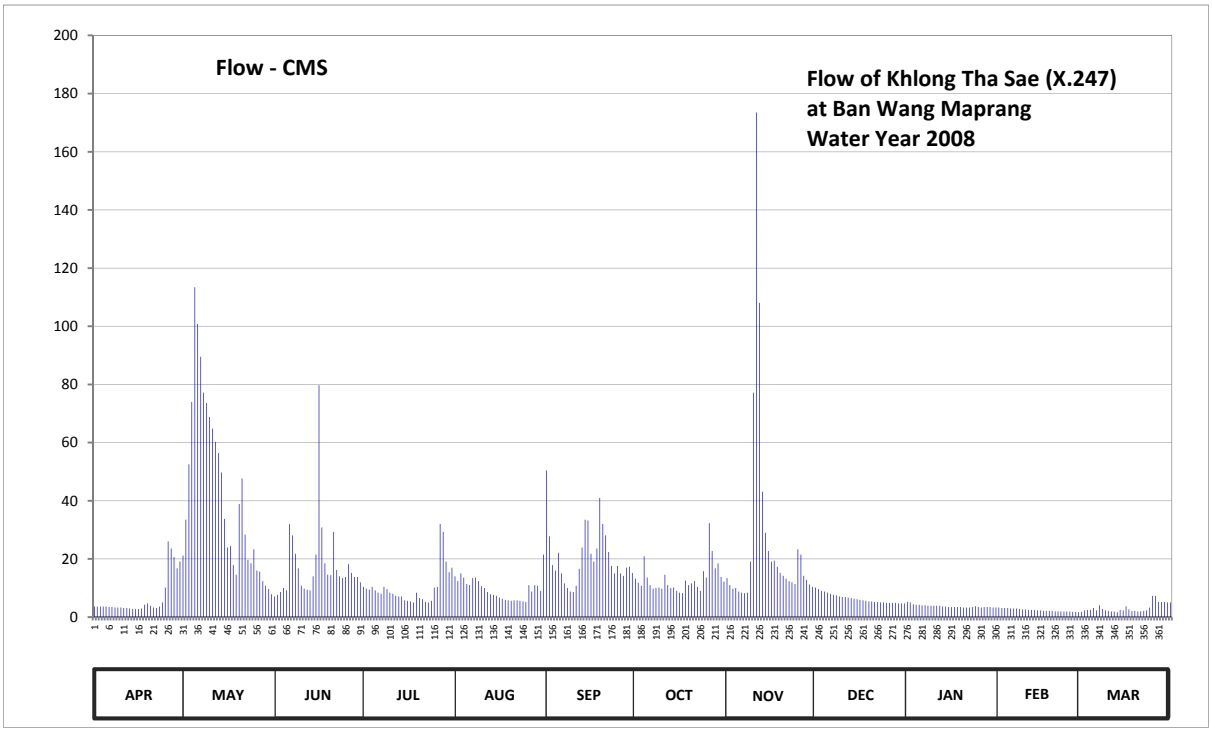
Location : on left bank at Ban Wang Maprang.

	Ban Wang Maprang	**Amphoe** Tha Sae	**Changwat** Chumphon
Drainge Area	656 sq.km.		
Type of Gage	Water - stage recorder.		
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	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 Float	-		
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 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	12.50	13.34	12.70	12.87	13.05	14.27	13.01	13.02	12.86	12.60	12.48	12.38	
2	12.50	13.75	12.73	12.84	12.97	13.56	12.94	12.90	12.83	12.59	12.47	12.42	
3	12.50	14.33	12.78	12.82	13.10	13.23	12.89	12.84	12.80	12.55	12.47	12.43	
4	12.50	14.90	12.85	12.87	13.03	13.15	13.33	12.85	12.79	12.54	12.47	12.43	
5	12.50	15.81	12.81	12.81	12.92	13.37	13.03	12.79	12.77	12.54	12.46	12.47	
6	12.49	15.53	13.70	12.77	12.90	13.10	12.90	12.77	12.75	12.53	12.46	12.42	
7	12.49	15.27	13.57	12.75	13.02	12.93	12.84	12.76	12.73	12.53	12.46	12.53	
8	12.48	14.98	13.36	12.87	13.03	12.85	12.85	12.77	12.72	12.52	12.45	12.45	
9	12.48	14.89	13.19	12.83	12.97	12.79	12.86	13.27	12.70	12.52	12.44	12.42	
10	12.48	14.77	12.89	12.77	12.88	12.78	12.84	14.98	12.69	12.52	12.44	12.41	
11	12.47	14.67	12.84	12.75	12.85	12.89	13.08	17.05	12.69	12.52	12.43	12.39	
12	12.47	14.55	12.82	12.71	12.78	13.18	12.90	15.69	12.68	12.52	12.43	12.39	
13	12.46	14.44	12.81	12.70	12.74	13.43	12.85	14.06	12.67	12.50	12.43	12.37	
14	12.45	14.25	13.05	12.70	12.73	13.75	12.86	13.60	12.66	12.50	12.42	12.43	
15	12.45	13.76	13.35	12.63	12.71	13.74	12.80	13.39	12.65	12.49	12.42	12.42	
16	12.45	13.43	15.04	12.62	12.68	13.36	12.77	13.27	12.64	12.49	12.41	12.51	
17	12.46	13.45	13.66	12.61	12.66	13.27	12.76	13.28	12.63	12.49	12.41	12.44	
18	12.54	13.23	13.25	12.59	12.64	13.42	12.98	13.21	12.62	12.49	12.41	12.41	
19	12.57	13.08	13.08	12.77	12.63	14.00	12.90	13.11	12.61	12.49	12.41	12.41	
20	12.52	13.93	13.07	12.67	12.62	13.70	12.93	13.06	12.61	12.48	12.40	12.39	
21	12.48	14.19	13.61	12.65	12.63	13.57	12.97	13.01	12.60	12.48	12.40	12.40	
22	12.47	13.58	13.16	12.60	12.63	13.38	12.87	12.97	12.60	12.48	12.40	12.41	
23	12.50	13.29	13.05	12.59	12.62	13.22	12.80	12.95	12.59	12.49	12.39	12.42	
24	12.59	13.25	13.02	12.62	12.61	13.10	13.14	12.92	12.59	12.51	12.39	12.48	
25	12.86	13.41	13.04	12.86	12.60	13.22	13.03	13.41	12.58	12.49	12.39	12.71	
26	13.50	13.15	13.24	12.87	12.90	13.10	13.71	13.35	12.58	12.48	12.38	12.71	
27	13.42	13.13	13.11	13.70	12.79	13.06	13.39	13.06	12.58	12.49	12.38	12.60	
28	13.32	12.97	13.04	13.61	12.90	13.20	13.19	12.99	12.58	12.49	12.37	12.60	
29	13.19	12.89	13.04	13.27	12.89	13.21	13.25	12.91	12.57	12.49		12.60	
30	13.27	12.83	12.95	13.12	12.80	13.11	13.04	12.87	12.57	12.48		12.59	
31		12.74		13.20	13.35		12.96		12.57	12.48		12.59	
Mean	12.65	13.93	13.16	12.84	12.83	13.30	12.99	13.37	12.66	12.51	12.42	12.47	
Max	13.50	15.81	15.04	13.70	13.35	14.27	13.71	17.05	12.86	12.60	12.48	12.71	17.05
Min	12.45	12.74	12.70	12.59	12.60	12.78	12.76	12.76	12.57	12.48	12.37	12.37	12.37

Annual Max Momentary Gage Height	17.37	m. (MSL.) ,	at 06.00 Hours , on Nov 11, 2008		
Zero Gage at Bottom Elevation	12.00	m. (MSL.) ,	River Bed	10.33	m. (MSL)
Left Bank Elevation	25.21	m. (MSL.) ,			
Right Bank Elevation	25.16	m. (MSL.) ,	Drainage Are	656	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.60	21.20	7.10	10.40	14.00	50.45	13.20	13.40	10.20	5.20	3.28	1.80		
2	3.60	33.50	7.67	9.80	12.40	27.80	11.80	11.00	9.60	5.04	3.12	2.32		
3	3.60	52.55	8.62	9.40	15.00	17.90	10.80	9.80	9.00	4.40	3.12	2.48		
4	3.60	74.00	10.00	10.40	13.60	16.00	20.90	10.00	8.81	4.24	3.12	2.48		
5	3.60	113.45	9.20	9.20	11.40	22.10	13.60	8.81	8.43	4.24	2.96	3.12		
6	3.44	100.85	32.00	8.43	11.00	15.00	11.00	8.43	8.05	4.08	2.96	2.32		
7	3.44	89.48	28.10	8.05	13.40	11.60	9.80	8.24	7.67	4.08	2.96	4.08		
8	3.28	77.20	21.80	10.40	13.60	10.00	10.00	8.43	7.48	3.92	2.80	2.80		
9	3.28	73.60	16.80	9.60	12.40	8.81	10.20	19.10	7.10	3.92	2.64	2.32		
10	3.28	68.80	10.80	8.43	10.60	8.62	9.80	77.20	6.91	3.92	2.64	2.16		
11	3.12	64.80	9.80	8.05	10.00	10.80	14.60	173.50	6.91	3.92	2.48	1.90		
12	3.12	60.25	9.40	7.29	8.62	16.60	11.00	108.05	6.72	3.92	2.48	1.90		
13	2.96	56.40	9.20	7.10	7.86	23.90	10.00	43.10	6.53	3.60	2.48	1.70		
14	2.80	49.75	14.00	7.10	7.67	33.50	10.20	29.00	6.34	3.60	2.32	2.48		
15	2.80	33.80	21.50	5.77	7.29	33.20	9.00	22.70	6.15	3.44	2.32	2.32		
16	2.80	23.90	79.70	5.58	6.72	21.80	8.43	19.10	5.96	3.44	2.16	3.76		
17	2.96	24.50	30.80	5.39	6.34	19.10	8.24	19.40	5.77	3.44	2.16	2.64		
18	4.24	17.90	18.50	5.04	5.96	23.60	12.60	17.30	5.58	3.44	2.16	2.16		
19	4.72	14.60	14.60	8.43	5.77	41.00	11.00	15.20	5.39	3.44	2.16	2.16		
20	3.92	38.90	14.40	6.53	5.58	32.00	11.60	14.20	5.39	3.28	2.00	1.90		
21	3.28	47.65	29.30	6.15	5.77	28.10	12.40	13.20	5.20	3.28	2.00	2.00		
22	3.12	28.40	16.20	5.20	5.77	22.40	10.40	12.40	5.20	3.28	2.00	2.16		
23	3.60	19.70	14.00	5.04	5.58	17.60	9.00	12.00	5.04	3.44	1.90	2.32		
24	5.04	18.50	13.40	5.58	5.39	15.00	15.80	11.40	5.04	3.76	1.90	3.28		
25	10.20	23.30	13.80	10.20	5.20	17.60	13.60	23.30	4.88	3.44	1.90	7.29		
26	26.00	16.00	18.20	10.40	11.00	15.00	32.30	21.50	4.88	3.28	1.80	7.29		
27	23.60	15.60	15.20	32.00	8.81	14.20	22.70	14.20	4.88	3.44	1.80	5.20		
28	20.60	12.40	13.80	29.30	11.00	17.00	16.80	12.80	4.88	3.44	1.70	5.20		
29	16.80	10.80	13.80	19.10	10.80	17.30	18.50	11.20	4.72	3.44		5.20		
30	19.10	9.60	12.00	15.40	9.00	15.20	13.80	10.40	4.72	3.28		5.04		
31		7.86		17.00	21.50		12.20		4.72	3.28		5.04		
Total	199.50	1299.24	533.69	315.76	299.03	623.18	405.27	778.36	198.15	115.92	67.32	98.82	4934.24	CMSDAY
Mean	6.65	41.91	17.79	10.19	9.65	20.77	13.07	25.95	6.39	3.74	2.40	3.19	13.52	CMS
Max	26.00	113.45	79.70	32.00	21.50	50.45	32.30	173.50	10.20	5.20	3.28	7.29	173.50	CMS
Min	2.80	7.86	7.10	5.04	5.20	8.62	8.24	8.24	4.72	3.28	1.70	1.70	1.70	CMS
Runoff	17.24	112.25	46.11	27.28	25.84	53.84	35.02	67.25	17.12	10.02	5.82	8.54	426.32	MCM

Momentary Peak 190.35 CMS. at 17.37 m. (MSL.) at 06.00 Hours , on Nov 11, 2008

Runoff Yield 20.58 Liters/Second/Square KM. Momentary Peak Yield 289.85 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	691 sq.km.		
Type of Gage	Water - stage recorder.		
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	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Float	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records poor. Stage-discharge relation defined by 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

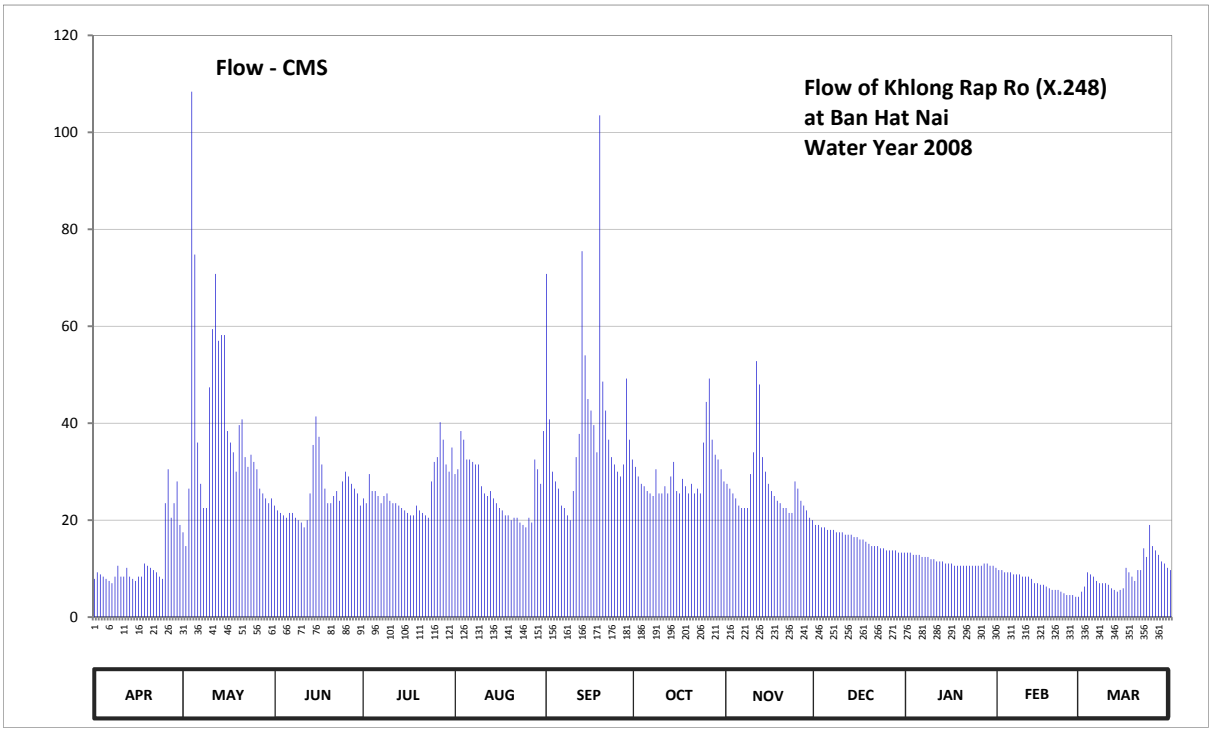
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	18.02	18.23	18.34	18.37	18.47	19.18	18.50	18.43	18.26	18.14	18.06	17.95	
2	18.05	18.17	18.32	18.35	18.49	18.68	18.46	18.41	18.26	18.14	18.06	17.98	
3	18.04	18.41	18.31	18.47	18.64	18.48	18.43	18.39	18.25	18.13	18.05	18.05	
4	18.03	19.72	18.30	18.40	18.61	18.44	18.42	18.37	18.25	18.13	18.05	18.04	
5	18.02	19.24	18.29	18.40	18.53	18.41	18.40	18.34	18.24	18.13	18.05	18.03	
6	18.01	18.60	18.31	18.38	18.53	18.34	18.39	18.33	18.24	18.12	18.04	18.01	
7	18.00	18.43	18.31	18.35	18.52	18.33	18.38	18.33	18.24	18.12	18.04	18.00	
8	18.03	18.33	18.29	18.38	18.51	18.30	18.49	18.33	18.23	18.12	18.04	18.00	
9	18.08	18.33	18.28	18.39	18.51	18.28	18.39	18.47	18.23	18.11	18.03	18.00	
10	18.03	18.79	18.27	18.36	18.42	18.40	18.39	18.56	18.23	18.11	18.03	17.99	
11	18.03	18.99	18.25	18.35	18.39	18.54	18.42	18.88	18.22	18.10	18.03	17.97	
12	18.07	19.18	18.28	18.35	18.38	18.63	18.39	18.80	18.22	18.10	18.02	17.96	
13	18.03	18.95	18.39	18.34	18.40	19.25	18.46	18.54	18.22	18.10	18.00	17.95	
14	18.02	18.97	18.59	18.33	18.37	18.90	18.52	18.48	18.21	18.09	18.00	17.96	
15	18.01	18.97	18.69	18.32	18.35	18.75	18.40	18.43	18.21	18.09	17.99	17.97	
16	18.03	18.64	18.62	18.31	18.33	18.71	18.39	18.40	18.20	18.09	17.99	18.07	
17	18.03	18.60	18.51	18.30	18.32	18.66	18.45	18.38	18.20	18.08	17.98	18.05	
18	18.09	18.56	18.41	18.30	18.30	18.56	18.42	18.36	18.19	18.08	17.97	18.03	
19	18.08	18.48	18.35	18.34	18.30	19.65	18.39	18.35	18.18	18.08	17.96	18.01	
20	18.07	18.66	18.35	18.32	18.28	18.81	18.43	18.33	18.17	18.08	17.96	18.06	
21	18.06	18.68	18.38	18.31	18.29	18.71	18.39	18.33	18.17	18.08	17.96	18.06	
22	18.05	18.54	18.40	18.30	18.29	18.61	18.41	18.31	18.17	18.08	17.95	18.16	
23	18.03	18.50	18.36	18.29	18.27	18.54	18.39	18.31	18.16	18.08	17.94	18.12	
24	18.02	18.55	18.44	18.44	18.26	18.51	18.60	18.44	18.16	18.08	17.93	18.26	
25	18.35	18.52	18.48	18.52	18.25	18.48	18.74	18.41	18.15	18.08	17.93	18.17	
26	18.49	18.49	18.46	18.54	18.29	18.46	18.82	18.36	18.15	18.08	17.93	18.15	
27	18.29	18.41	18.43	18.67	18.27	18.51	18.61	18.34	18.15	18.09	17.92	18.13	
28	18.35	18.39	18.41	18.61	18.53	18.82	18.55	18.32	18.15	18.09	17.92	18.10	
29	18.44	18.37	18.39	18.51	18.49	18.61	18.53	18.29	18.14	18.08		18.09	
30	18.26	18.35	18.34	18.48	18.43	18.53	18.49	18.28	18.14	18.08		18.07	
31		18.37		18.58	18.64		18.44		18.14	18.07		18.06	
Mean	18.10	18.63	18.39	18.40	18.41	18.64	18.47	18.41	18.20	18.10	17.99	18.05	
Max	18.49	19.72	18.69	18.67	18.64	19.65	18.82	18.88	18.26	18.14	18.06	18.26	19.72
Min	18.00	18.17	18.25	18.29	18.25	18.28	18.38	18.28	18.14	18.07	17.92	17.95	17.92

Annual Max Momentary Gage Height 20.03 m. (MSL.) , at 06.00 Hours , on Sep 19, 2008

Zero Gage at Bottom Elevation 16.73 m. (MSL.) , River Bed 16.86 m. (MSL.)

Left Bank Elevation 27.36 m. (MSL.) ,

Right Bank Elevation 27.35 m. (MSL.) , Drainage Are 691 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.90	17.50	23.00	24.50	29.50	70.80	31.00	27.50	19.00	13.30	9.70	5.25		
2	9.25	14.65	22.00	23.50	30.50	40.80	29.00	26.50	19.00	13.30	9.70	6.30		
3	8.80	26.50	21.50	29.50	38.40	30.00	27.50	25.50	18.50	12.85	9.25	9.25		
4	8.35	108.40	21.00	26.00	36.60	28.00	27.00	24.50	18.50	12.85	9.25	8.80		
5	7.90	74.80	20.50	26.00	32.50	26.50	26.00	23.00	18.00	12.85	9.25	8.35		
6	7.45	36.00	21.50	25.00	32.50	23.00	25.50	22.50	18.00	12.40	8.80	7.45		
7	7.00	27.50	21.50	23.50	32.00	22.50	25.00	22.50	18.00	12.40	8.80	7.00		
8	8.35	22.50	20.50	25.00	31.50	21.00	30.50	22.50	17.50	12.40	8.80	7.00		
9	10.60	22.50	20.00	25.50	31.50	20.00	25.50	29.50	17.50	11.95	8.35	7.00		
10	8.35	47.40	19.50	24.00	27.00	26.00	25.50	34.00	17.50	11.95	8.35	6.65		
11	8.35	59.40	18.50	23.50	25.50	33.00	27.00	52.80	17.00	11.50	8.35	5.95		
12	10.15	70.80	20.00	23.50	25.00	37.80	25.50	48.00	17.00	11.50	7.90	5.60		
13	8.35	57.00	25.50	23.00	26.00	75.50	29.00	33.00	17.00	11.50	7.00	5.25		
14	7.90	58.20	35.50	22.50	24.50	54.00	32.00	30.00	16.50	11.05	7.00	5.60		
15	7.45	58.20	41.40	22.00	23.50	45.00	26.00	27.50	16.50	11.05	6.65	5.95		
16	8.35	38.40	37.20	21.50	22.50	42.60	25.50	26.00	16.00	11.05	6.65	10.15		
17	8.35	36.00	31.50	21.00	22.00	39.60	28.50	25.00	16.00	10.60	6.30	9.25		
18	11.05	34.00	26.50	21.00	21.00	34.00	27.00	24.00	15.55	10.60	5.95	8.35		
19	10.60	30.00	23.50	23.00	21.00	103.50	25.50	23.50	15.10	10.60	5.60	7.45		
20	10.15	39.60	23.50	22.00	20.00	48.60	27.50	22.50	14.65	10.60	5.60	9.70		
21	9.70	40.80	25.00	21.50	20.50	42.60	25.50	22.50	14.65	10.60	5.60	9.70		
22	9.25	33.00	26.00	21.00	20.50	36.60	26.50	21.50	14.65	10.60	5.25	14.20		
23	8.35	31.00	24.00	20.50	19.50	33.00	25.50	21.50	14.20	10.60	4.90	12.40		
24	7.90	33.50	28.00	28.00	19.00	31.50	36.00	28.00	14.20	10.60	4.55	19.00		
25	23.50	32.00	30.00	32.00	18.50	30.00	44.40	26.50	13.75	10.60	4.55	14.65		
26	30.50	30.50	29.00	33.00	20.50	29.00	49.20	24.00	13.75	10.60	4.55	13.75		
27	20.50	26.50	27.50	40.20	19.50	31.50	36.60	23.00	13.75	11.05	4.20	12.85		
28	23.50	25.50	26.50	36.60	32.50	49.20	33.50	22.00	13.75	11.05	4.20	11.50		
29	28.00	24.50	25.50	31.50	30.50	36.60	32.50	20.50	13.30	10.60		11.05		
30	19.00	23.50	23.00	30.00	27.50	32.50	30.50	20.00	13.30	10.60		10.15		
31		24.50		35.00	38.40		28.00		13.30	10.15		9.70		
Total	354.85	1204.65	758.60	804.80	819.90	1174.70	914.20	799.80	495.40	353.35	195.05	285.25	8160.55	CMSDAY
Mean	11.83	38.86	25.29	25.96	26.45	39.16	29.49	26.66	15.98	11.40	6.97	9.20	22.36	CMS
Max	30.50	108.40	41.40	40.20	38.40	103.50	49.20	52.80	19.00	13.30	9.70	19.00	108.40	CMS
Min	7.00	14.65	18.50	20.50	18.50	20.00	25.00	20.00	13.30	10.15	4.20	5.25	4.20	CMS
Runoff	30.66	104.08	65.54	69.53	70.84	101.49	78.99	69.10	42.80	30.53	16.85	24.65	705.07	MCM

Momentary Peak 130.10 CMS. at 20.03 m. (MSL.) at 06.00 Hours , on Sep 19, 2008

Runoff Yield 32.35 Liters/Second/Square KM. Momentary Peak Yield 188.22 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	5,383 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+4.800 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 mean of 24 readings		
Period of Available Gage Records	1969 to date		
Rating Operation			
Period of Rating	1969 to date		
Rated by Float	-		
Rated by Current Meter	1969 to date		
Stability of Channel Regimes	Fairly stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

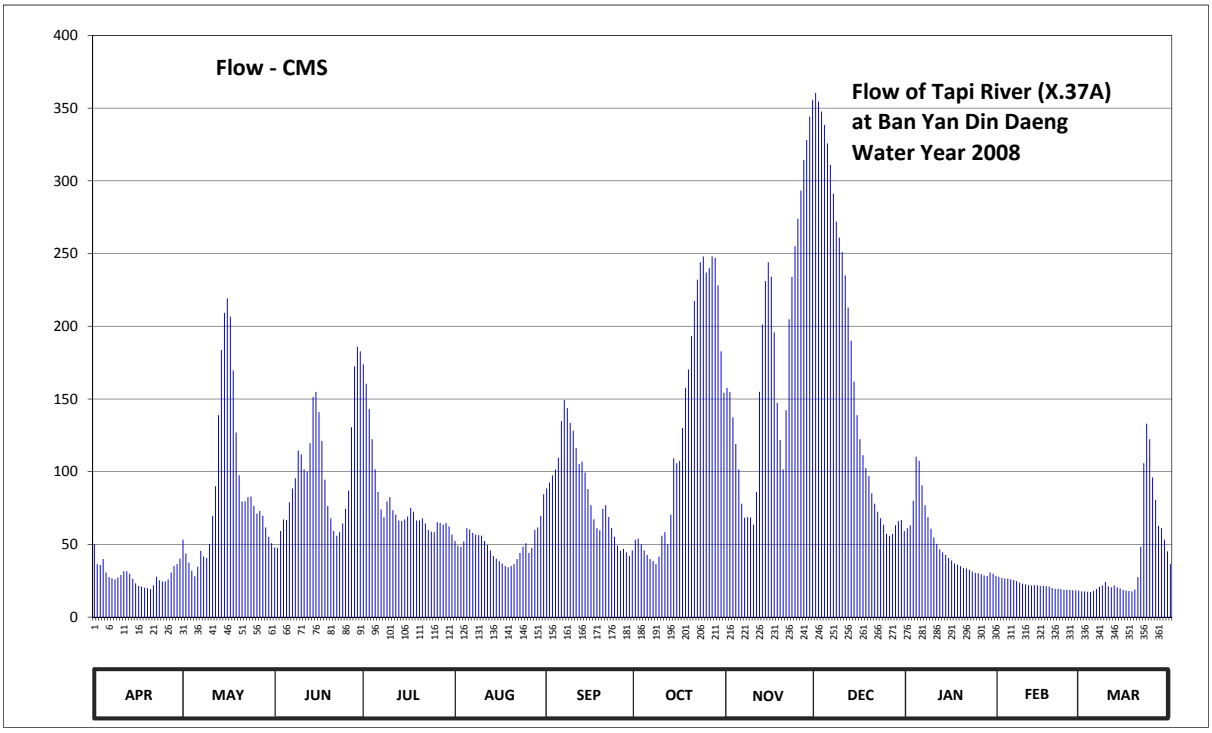
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	6.06	6.13	6.00	8.34	6.11	6.93	6.13	8.11	10.22	6.33	5.39	4.99	
2	5.67	5.88	5.99	8.15	6.03	7.01	6.15	8.07	10.17	6.38	5.36	4.99	
3	5.65	5.70	6.28	7.90	6.01	7.11	6.05	7.82	10.11	6.76	5.34	4.98	
4	5.77	5.53	6.48	7.57	6.10	7.19	5.94	7.51	10.03	7.35	5.34	4.97	
5	5.49	5.40	6.47	7.19	6.33	7.34	5.85	7.19	9.92	7.30	5.32	5.00	
6	5.38	5.62	6.74	6.88	6.31	7.78	5.77	6.72	9.79	6.97	5.30	5.05	
7	5.35	5.93	6.93	6.64	6.25	7.99	5.73	6.51	9.61	6.70	5.27	5.12	
8	5.32	5.82	7.07	6.52	6.22	7.91	5.67	6.52	9.42	6.52	5.23	5.15	
9	5.37	5.79	7.43	6.75	6.21	7.76	5.82	6.51	9.31	6.32	5.20	5.25	
10	5.43	6.06	7.38	6.81	6.20	7.67	6.20	6.39	9.21	6.17	5.18	5.13	
11	5.52	6.54	7.19	6.63	6.11	7.46	6.26	6.88	9.05	6.06	5.16	5.10	
12	5.52	6.96	7.16	6.56	6.04	7.26	6.05	8.07	8.81	5.96	5.15	5.15	
13	5.46	7.84	7.52	6.46	5.94	7.29	6.56	8.68	8.55	5.90	5.16	5.10	
14	5.33	8.47	8.02	6.45	5.83	7.15	7.33	9.01	8.17	5.85	5.15	5.07	
15	5.21	8.77	8.07	6.48	5.78	6.92	7.27	9.14	7.84	5.79	5.14	5.03	
16	5.14	8.88	7.87	6.53	5.73	6.70	7.30	9.04	7.57	5.74	5.14	5.01	
17	5.12	8.74	7.55	6.66	5.68	6.48	7.70	8.62	7.37	5.68	5.13	5.00	
18	5.09	8.28	7.05	6.61	5.63	6.33	8.11	7.96	7.21	5.66	5.12	4.99	
19	5.07	7.65	6.69	6.46	5.61	6.29	8.29	7.56	7.10	5.63	5.08	5.04	
20	5.05	7.11	6.50	6.46	5.63	6.65	8.59	7.19	6.86	5.59	5.06	5.38	
21	5.15	6.75	6.28	6.50	5.67	6.70	8.86	7.89	6.72	5.58	5.06	6.01	
22	5.39	6.75	6.20	6.41	5.77	6.52	9.02	8.72	6.61	5.55	5.05	7.27	
23	5.29	6.81	6.26	6.30	5.89	6.33	9.14	9.04	6.50	5.51	5.03	7.75	
24	5.26	6.82	6.41	6.27	6.01	6.18	9.18	9.25	6.39	5.48	5.03	7.57	
25	5.26	6.69	6.65	6.26	6.07	6.03	9.07	9.44	6.23	5.47	5.03	7.08	
26	5.32	6.58	6.90	6.43	5.89	5.93	9.10	9.63	6.20	5.45	5.02	6.77	
27	5.49	6.62	7.71	6.42	5.99	5.97	9.18	9.82	6.23	5.42	5.02	6.37	
28	5.63	6.54	8.32	6.39	6.30	5.90	9.17	9.94	6.38	5.41	5.01	6.33	
29	5.67	6.34	8.50	6.42	6.34	5.83	8.98	10.08	6.45	5.49		6.13	
30	5.78	6.18	8.46	6.36	6.54	5.94	8.46	10.18	6.47	5.46		5.92	
31		6.07		6.22	6.85		8.06		6.28	5.41		5.67	
Mean	5.41	6.75	7.07	6.71	6.03	6.82	7.45	8.25	7.96	5.96	5.16	5.62	
Max	6.06	8.88	8.50	8.34	6.85	7.99	9.18	10.18	10.22	7.35	5.39	7.75	10.22
Min	5.05	5.40	5.99	6.22	5.61	5.83	5.67	6.39	6.20	5.41	5.01	4.97	4.97

Annual Max Momentary Gage Height 10.23 m. (MSL.) , at 06.00 Hours , on Dec 1, 2008

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 Are 5,383 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	50.40	53.20	48.00	173.80	52.40	88.50	53.20	157.70	360.40	61.20	27.75	17.75		
2	36.45	43.80	47.65	160.50	49.20	92.50	54.00	154.90	354.55	63.20	27.00	17.75		
3	35.75	37.50	59.20	143.00	48.40	97.50	50.00	137.40	347.65	80.00	26.50	17.50		
4	39.95	31.90	67.20	122.35	52.00	101.50	45.90	119.05	338.45	110.25	26.50	17.25		
5	30.70	28.00	66.80	101.50	61.20	109.70	42.75	101.50	325.80	107.50	26.00	18.00		
6	27.50	34.70	79.00	86.00	60.40	134.80	39.95	78.00	310.90	90.50	25.50	19.25		
7	26.75	45.55	88.50	74.00	58.00	149.30	38.55	68.40	291.10	77.00	24.75	21.00		
8	26.00	41.70	95.50	68.80	56.80	143.70	36.45	68.80	272.00	68.80	23.75	21.75		
9	27.25	40.65	114.65	79.50	56.40	133.60	41.70	68.40	261.00	60.80	23.00	24.25		
10	28.90	50.40	111.90	82.50	56.00	128.20	56.00	63.60	251.00	54.80	22.50	21.25		
11	31.60	69.60	101.50	73.50	52.40	116.30	58.40	86.00	235.00	50.40	22.00	20.50		
12	31.60	90.00	100.00	70.40	49.60	105.30	50.00	154.90	212.90	46.60	21.75	21.75		
13	29.80	138.80	119.60	66.40	45.90	106.95	70.40	201.20	190.00	44.50	22.00	20.50		
14	26.25	183.60	151.40	66.00	42.05	99.50	109.15	231.00	161.90	42.75	21.75	19.75		
15	23.25	209.30	154.90	67.20	40.30	88.00	105.85	244.00	138.80	40.65	21.50	18.75		
16	21.50	219.20	140.90	69.20	38.55	77.00	107.50	234.00	122.35	38.90	21.50	18.25		
17	21.00	206.60	121.25	75.00	36.80	67.20	130.00	195.80	111.35	36.80	21.25	18.00		
18	20.25	169.60	94.50	72.50	35.05	61.20	157.70	147.20	102.55	36.10	21.00	17.75		
19	19.75	127.00	76.50	66.40	34.35	59.60	170.30	121.80	97.00	35.05	20.00	19.00		
20	19.25	97.50	68.00	66.40	35.05	74.50	193.20	101.50	85.00	33.70	19.50	27.50		
21	21.75	79.50	59.20	68.00	36.45	77.00	217.40	142.30	78.00	33.40	19.50	48.40		
22	27.75	79.50	56.00	64.40	39.95	68.80	232.00	204.80	72.50	32.50	19.25	105.85		
23	25.25	82.50	58.40	60.00	44.15	61.20	244.00	234.00	68.00	31.30	18.75	133.00		
24	24.50	83.00	64.40	58.80	48.40	55.20	248.00	255.00	63.60	30.40	18.75	122.35		
25	24.50	76.50	74.50	58.40	50.80	49.20	237.00	274.00	57.20	30.10	18.75	96.00		
26	26.00	71.20	87.00	65.20	44.15	45.55	240.00	293.30	56.00	29.50	18.50	80.50		
27	30.70	73.00	130.60	64.80	47.65	46.95	248.00	314.30	57.20	28.60	18.50	62.80		
28	35.05	69.60	172.40	63.60	60.00	44.50	247.00	328.10	63.20	28.30	18.25	61.20		
29	36.45	61.60	186.00	64.80	61.60	42.05	228.20	344.20	66.00	30.70		53.20		
30	40.30	55.20	182.80	62.40	69.60	45.90	182.80	355.70	66.80	29.80		45.20		
31		50.80		56.80	84.50		154.20		59.20	28.30		36.45		
Total	866.15	2,701.00	2,978.25	2472.15	1548.10	2571.20	4089.60	5480.85	5277.40	1512.40	615.75	1242.45	31355.30	CMSDAY
Mean	28.87	87.13	99.28	79.75	49.94	85.71	131.92	182.70	170.24	48.79	21.99	40.08	85.90	CMS
Max	50.40	219.20	186.00	173.80	84.50	149.30	248.00	355.70	360.40	110.25	27.75	133.00	360.40	CMS
Min	19.25	28.00	47.65	56.80	34.35	42.05	36.45	63.60	56.00	28.30	18.25	17.25	17.25	CMS
Runoff	74.84	233.37	257.32	213.59	133.76	222.15	353.34	473.55	455.97	130.67	53.20	107.35	2709.10	MCM

Momentary Peak 361.60 CMS, at 10.23 m. (MSL.), at 06.00 Hours, on Dec 1, 2008

Runoff Yield 15.96 Liters/Second/Square KM. Momentary Peak Yield 67.17 Liters/Second/Square KM.

WATER YEAR : 2008

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	
Drainge Area	866 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	Near the top staff gage.			**Elevation**	+9.590 m. (A.D.)
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 Float	-				
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 23 discharge measurements made in 2008.				

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

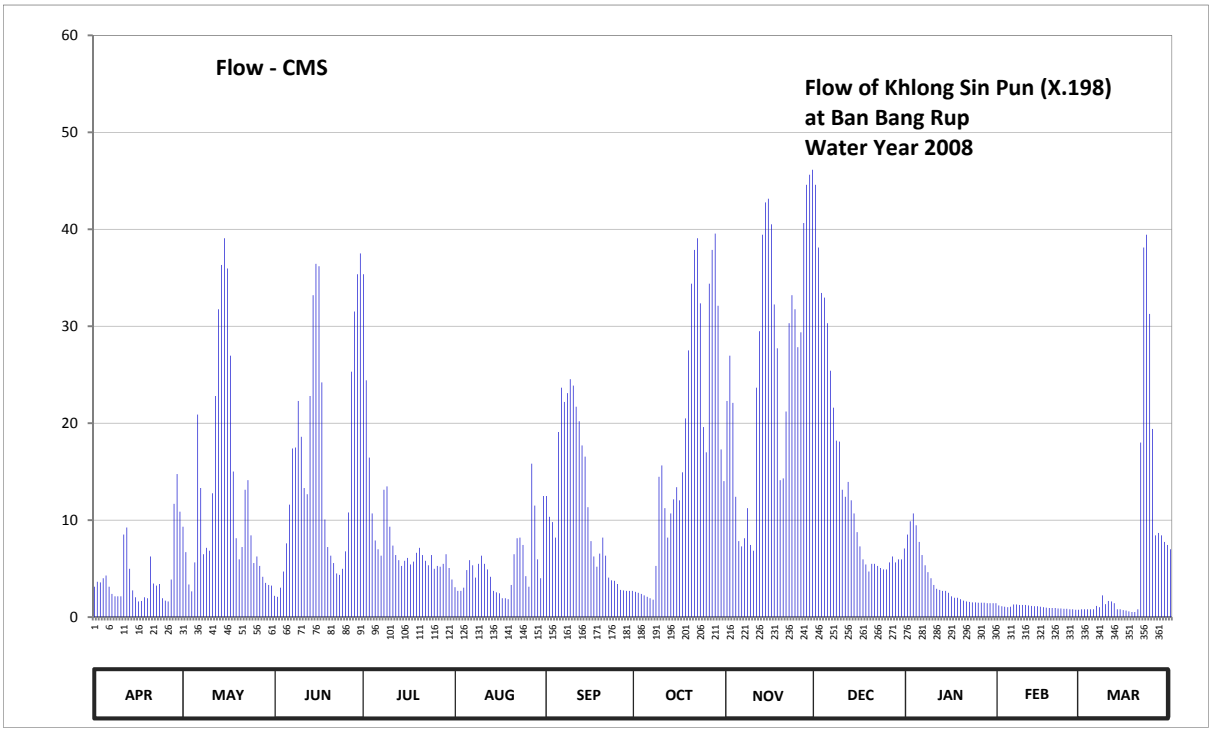
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.08	1.94	0.90	4.48	1.07	2.30	0.98	3.33	5.23	1.84	0.69	0.60	
2	1.17	1.60	0.88	3.53	1.00	2.06	0.96	3.76	4.71	2.01	0.67	0.60	
3	1.16	1.12	1.06	2.74	1.00	2.00	0.94	3.31	4.32	2.10	0.66	0.60	
4	1.23	0.99	1.33	2.10	1.06	1.80	0.91	2.29	4.28	1.96	0.65	0.60	
5	1.27	1.46	1.72	1.76	1.35	3.01	0.88	1.75	4.06	1.74	0.66	0.60	
6	1.08	3.19	2.20	1.64	1.49	3.46	0.85	1.68	3.62	1.56	0.71	0.68	
7	0.94	2.39	2.84	1.55	1.42	3.32	0.82	1.79	3.26	1.42	0.71	0.65	
8	0.89	1.57	2.85	2.37	1.24	3.41	1.41	2.16	2.92	1.32	0.70	0.91	
9	0.89	1.66	3.33	2.41	1.44	3.54	2.52	1.70	2.91	1.23	0.70	0.72	
10	0.89	1.62	2.96	1.94	1.55	3.48	2.65	1.62	2.37	1.11	0.70	0.79	
11	1.84	2.33	2.39	1.69	1.44	3.27	2.16	3.46	2.29	1.04	0.69	0.78	
12	1.93	3.38	2.32	1.56	1.36	3.12	1.80	3.99	2.46	1.02	0.68	0.74	
13	1.37	4.18	3.38	1.49	1.25	2.87	2.10	4.82	2.25	1.00	0.67	0.60	
14	1.01	4.56	4.30	1.41	1.00	2.75	2.26	5.09	2.10	1.00	0.67	0.60	
15	0.87	4.79	4.57	1.48	0.97	2.17	2.40	5.12	1.87	0.96	0.66	0.58	
16	0.78	4.53	4.55	1.52	0.95	1.75	2.25	4.91	1.68	0.89	0.65	0.57	
17	0.79	3.76	3.51	1.43	0.85	1.54	2.57	4.22	1.50	0.86	0.64	0.55	
18	0.87	2.58	2.03	1.47	0.85	1.40	3.15	3.83	1.43	0.86	0.63	0.53	
19	0.85	1.79	1.67	1.59	0.83	1.58	3.81	2.48	1.33	0.83	0.63	0.53	
20	1.54	1.50	1.55	1.66	1.11	1.80	4.40	2.50	1.44	0.80	0.63	0.60	
21	1.14	1.67	1.45	1.56	1.57	1.55	4.69	3.22	1.44	0.78	0.62	2.90	
22	1.10	2.37	1.30	1.48	1.79	1.24	4.79	4.06	1.41	0.77	0.62	4.71	
23	1.13	2.48	1.28	1.42	1.80	1.20	4.23	4.30	1.38	0.76	0.61	4.82	
24	0.85	1.83	1.37	1.56	1.70	1.19	3.06	4.18	1.36	0.76	0.61	4.14	
25	0.80	1.45	1.61	1.37	1.26	1.13	2.80	3.84	1.36	0.75	0.60	3.04	
26	0.78	1.54	2.11	1.41	1.08	1.02	4.40	3.98	1.46	0.75	0.60	1.83	
27	1.21	1.41	3.61	1.40	2.67	1.01	4.69	4.92	1.54	0.75	0.59	1.86	
28	2.21	1.25	4.16	1.44	2.19	1.00	4.83	5.23	1.46	0.74	0.59	1.83	
29	2.55	1.15	4.48	1.57	1.50	1.00	4.21	5.31	1.50	0.74		1.74	
30	2.12	1.11	4.66	1.38	1.23	1.00	2.83	5.35	1.50	0.74		1.70	
31		1.10		1.21	2.30		2.47		1.65	0.74		1.64	
Mean	1.21	2.20	2.55	1.79	1.37	2.07	2.67	3.61	2.33	1.09	0.65	1.39	
Max	2.55	4.79	4.66	4.48	2.67	3.54	4.83	5.35	5.23	2.10	0.71	4.82	5.35
Min	0.78	0.99	0.88	1.21	0.83	1.00	0.82	1.62	1.33	0.74	0.59	0.53	0.53

Annual Max Momentary Gage Height 5.35 m. (A.D.) , at 06.00 Hours , on Nov 30, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.21 m. (A.D.)

Left Bank Elevation 9.57 m. (A.D.) ,

Right Bank Elevation 9.56 m. (A.D.) , Drainage Are 866 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.14	9.32	2.20	35.36	3.09	12.50	2.60	22.30	44.59	8.52	1.21	0.80		
2	3.64	6.70	2.10	24.43	2.70	10.34	2.50	26.96	38.12	9.89	1.12	0.80		
3	3.58	3.36	3.03	16.46	2.70	9.80	2.40	22.10	33.44	10.70	1.07	0.80		
4	4.01	2.65	4.71	10.70	3.03	8.20	2.25	12.41	32.96	9.48	1.03	0.80		
5	4.29	5.65	7.60	7.90	4.85	19.10	2.10	7.83	30.32	7.75	1.07	0.80		
6	3.14	20.90	11.60	7.00	5.88	23.66	1.95	7.30	25.42	6.40	1.30	1.16		
7	2.40	13.31	17.40	6.33	5.35	22.20	1.80	8.13	21.60	5.35	1.30	1.03		
8	2.15	6.48	17.50	13.13	4.08	23.11	5.28	11.24	18.20	4.64	1.25	2.25		
9	2.15	7.15	22.30	13.49	5.50	24.54	14.48	7.45	18.10	4.01	1.25	1.34		
10	2.15	6.85	18.60	9.32	6.33	23.88	15.65	6.85	13.13	3.31	1.25	1.66		
11	8.52	12.77	13.31	7.38	5.50	21.70	11.24	23.66	12.41	2.92	1.21	1.61		
12	9.24	22.80	12.68	6.40	4.92	20.20	8.20	29.49	13.94	2.81	1.16	1.43		
13	4.99	31.76	22.80	5.88	4.15	17.70	10.70	39.44	12.05	2.70	1.12	0.80		
14	2.76	36.32	33.20	5.28	2.70	16.55	12.14	42.77	10.70	2.70	1.12	0.80		
15	2.05	39.08	36.44	5.80	2.55	11.33	13.40	43.16	8.76	2.50	1.07	0.72		
16	1.61	35.96	36.20	6.10	2.45	7.83	12.05	40.52	7.30	2.15	1.03	0.68		
17	1.66	26.96	24.21	5.43	1.95	6.25	14.93	32.24	5.95	2.00	0.98	0.60		
18	2.05	15.02	10.07	5.73	1.95	5.20	20.50	27.73	5.43	2.00	0.94	0.52		
19	1.95	8.13	7.23	6.63	1.85	6.55	27.51	14.12	4.71	1.85	0.94	0.52		
20	6.25	5.95	6.33	7.15	3.31	8.20	34.40	14.30	5.50	1.70	0.94	0.80		
21	3.47	7.23	5.58	6.40	6.48	6.33	37.88	21.20	5.50	1.61	0.89	18.00		
22	3.25	13.13	4.50	5.80	8.13	4.08	39.08	30.32	5.28	1.57	0.89	38.12		
23	3.42	14.12	4.36	5.35	8.20	3.80	32.36	33.20	5.06	1.52	0.85	39.44		
24	1.95	8.44	4.99	6.40	7.45	3.75	19.60	31.76	4.92	1.52	0.85	31.28		
25	1.70	5.58	6.78	4.99	4.22	3.42	17.00	27.84	4.92	1.48	0.80	19.40		
26	1.61	6.25	10.79	5.28	3.14	2.81	34.40	29.38	5.65	1.48	0.80	8.44		
27	3.87	5.28	25.31	5.20	15.83	2.76	37.88	40.64	6.25	1.48	0.76	8.68		
28	11.69	4.15	31.52	5.50	11.51	2.70	39.56	44.59	5.65	1.43	0.76	8.44		
29	14.75	3.53	35.36	6.48	5.95	2.70	32.12	45.63	5.95	1.43		7.75		
30	10.88	3.31	37.52	5.06	4.01	2.70	17.30	46.15	5.95	1.43		7.45		
31		3.25		3.87	12.50		14.03		7.08	1.43		7.00		
Total	128.32	391.39	476.22	266.23	162.26	333.89	537.29	790.71	424.84	109.76	28.96	213.92	3863.79	CMSDAY
Mean	4.28	12.63	15.87	8.59	5.23	11.13	17.33	26.36	13.70	3.54	1.03	6.90	10.59	CMS
Max	14.75	39.08	37.52	35.36	15.83	24.54	39.56	46.15	44.59	10.70	1.30	39.44	46.15	CMS
Min	1.61	2.65	2.10	3.87	1.85	2.70	1.80	6.85	4.71	1.43	0.76	0.52	0.52	CMS
Runoff	11.09	33.82	41.15	23.00	14.02	28.85	46.42	68.32	36.71	9.48	2.50	18.48	333.83	MCM

Momentary Peak 46.15 CMS, at 5.35 m. (A.D.), at 06.00 Hours, on Nov 30, 2008

Runoff Yield 12.22 Liters/Second/Square KM. Momentary Peak Yield 53.29 Liters/Second/Square KM.

WATER YEAR : 2008

TAPI RIVER BASIN

Tapi River at Ban Khian Sa , Surat Thani (X.217)

Lat 08 - 50 - 54 N Long 99 - 12 - 03 E

Location : on left bank at Ban Khian Sa.

	Ban Khian Sa	**Amphoe** Khian Sa	**Changwat** Surat Thani
Drainge Area	6,697 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 abutment of the bridge.	**Elevation**	+9.801 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 mean of 5 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Float	-		
Rated by Current Meter	2003 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 22 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

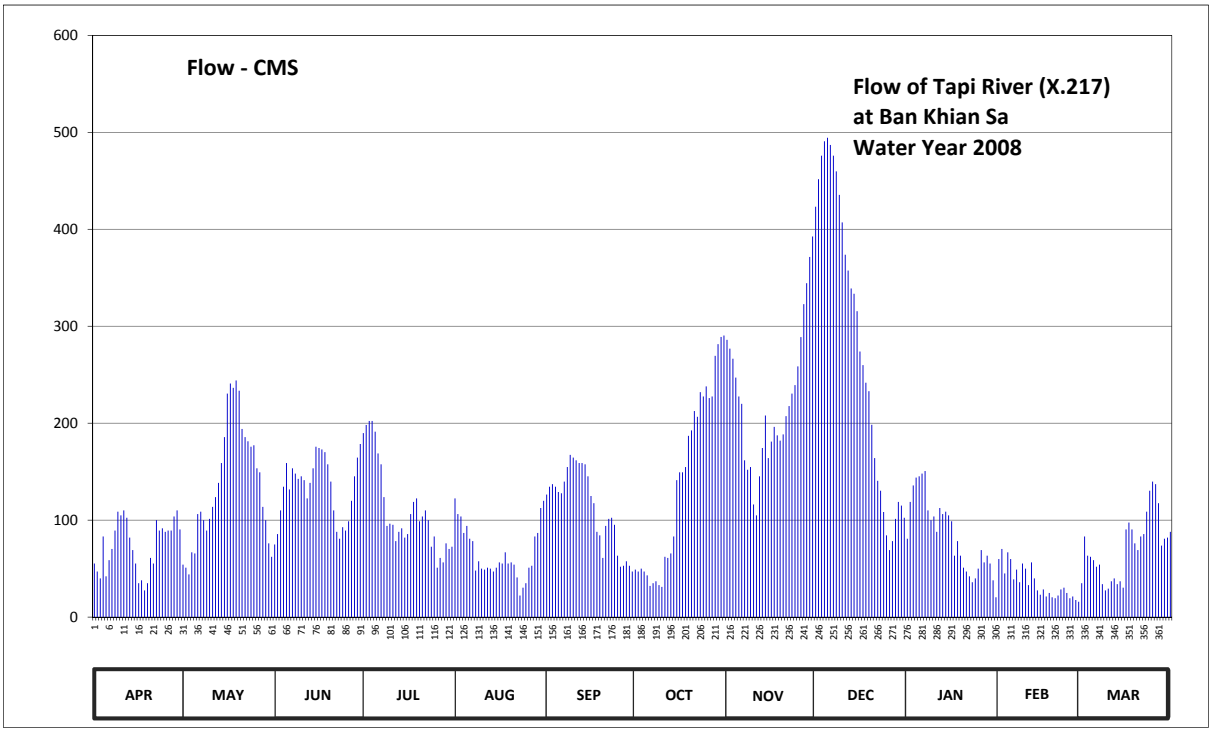
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.62	0.61	0.79	1.67	1.18	1.21	0.56	2.32	3.47	0.84	0.66	0.42	
2	0.54	0.58	0.88	1.73	1.05	1.27	0.54	2.26	3.54	1.15	0.75	0.86	
3	0.47	0.51	1.08	1.76	1.03	1.29	0.57	2.19	3.60	1.28	0.52	0.69	
4	0.86	0.72	1.27	1.76	0.89	1.27	0.54	2.06	3.64	1.34	0.72	0.68	
5	0.49	0.71	1.45	1.68	0.95	1.23	0.50	1.93	3.65	1.35	0.66	0.65	
6	0.65	1.05	1.25	1.52	0.84	1.22	0.39	1.88	3.63	1.37	0.46	0.59	
7	0.75	1.07	1.41	1.44	0.82	1.31	0.42	1.47	3.60	1.39	0.56	0.61	
8	0.91	1.00	1.37	1.19	0.55	1.42	0.44	1.40	3.56	1.08	0.43	0.41	
9	1.07	0.91	1.33	0.95	0.64	1.51	0.40	1.42	3.50	1.00	0.62	0.34	
10	1.04	1.01	1.35	0.97	0.57	1.49	0.38	1.13	3.43	1.03	0.57	0.36	
11	1.08	1.11	1.32	0.96	0.56	1.47	0.68	1.04	3.31	0.90	0.40	0.44	
12	1.02	1.19	1.18	0.82	0.58	1.45	0.67	1.35	3.24	1.10	0.63	0.47	
13	0.85	1.30	1.30	0.90	0.57	1.45	0.71	1.56	3.15	1.05	0.47	0.41	
14	0.74	1.45	1.41	0.93	0.54	1.44	0.86	1.80	3.12	1.07	0.34	0.44	
15	0.62	1.64	1.57	0.85	0.58	1.35	1.32	1.81	3.02	1.04	0.29	0.37	
16	0.42	1.95	1.56	0.88	0.63	1.20	1.38	1.98	2.75	0.99	0.35	0.92	
17	0.45	2.02	1.55	1.05	0.62	1.14	1.38	2.12	2.65	0.69	0.27	0.98	
18	0.34	1.99	1.53	1.15	0.72	0.90	1.42	2.04	2.51	0.82	0.31	0.92	
19	0.42	2.04	1.44	1.18	0.62	0.87	1.65	1.99	2.44	0.69	0.26	0.80	
20	0.67	1.97	1.31	0.99	0.63	0.67	1.69	2.05	2.14	0.58	0.25	0.74	
21	0.62	1.70	1.08	1.03	0.61	0.95	1.83	2.22	1.81	0.54	0.28	0.86	
22	1.00	1.64	0.90	1.08	0.48	1.01	1.79	2.31	1.56	0.49	0.35	0.88	
23	0.91	1.61	0.84	1.00	0.28	1.02	1.96	2.42	1.44	0.43	0.37	1.07	
24	0.93	1.57	0.94	0.77	0.37	0.96	1.93	2.49	1.14	0.47	0.31	1.24	
25	0.90	1.58	0.91	0.86	0.42	0.69	2.00	2.64	0.87	0.57	0.25	1.31	
26	0.91	1.41	0.99	0.58	0.58	0.59	1.92	2.85	0.74	0.74	0.27	1.29	
27	0.91	1.38	1.16	0.67	0.60	0.60	1.93	3.06	0.82	0.63	0.23	1.14	
28	1.03	1.11	1.35	0.63	0.86	0.64	2.21	3.18	1.01	0.69	0.21	0.78	
29	1.08	1.00	1.49	0.80	0.89	0.60	2.29	3.30	1.15	0.62		0.84	
30	0.92	0.80	1.59	0.75	1.10	0.54	2.34	3.39	1.12	0.45		0.85	
31		0.68		0.77	1.16		2.35		1.02	0.26		0.90	
Mean	0.77	1.27	1.25	1.07	0.71	1.09	1.26	2.12	2.47	0.86	0.42	0.75	
Max	1.08	2.04	1.59	1.76	1.18	1.51	2.35	3.39	3.65	1.39	0.75	1.31	3.65
Min	0.34	0.51	0.79	0.58	0.28	0.54	0.38	1.04	0.74	0.26	0.21	0.34	0.21

Annual Max Momentary Gage Height 3.65 m. (MSL.) , at 06.00 Hours , on Dec 5, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -6.47 m. (MSL.)

Left Bank Elevation 9.94 m. (MSL.) ,

Right Bank Elevation 8.63 m. (MSL.) , Drainage Are 6,697 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	55.30	54.15	74.85	189.80	122.50	126.35	49.00	286.00	423.35	80.80	59.90	35.00		
2	47.00	51.00	85.60	198.20	106.25	134.45	47.00	277.00	451.70	118.75	70.25	83.20		
3	40.00	44.00	110.00	202.40	103.75	137.15	50.00	266.50	476.00	135.80	45.00	63.35		
4	83.20	66.80	134.45	202.40	86.80	134.45	47.00	247.00	490.80	143.90	66.80	62.20		
5	42.00	65.65	159.00	191.20	94.00	129.05	43.00	227.50	494.50	145.25	59.90	58.75		
6	58.75	106.25	131.75	168.80	80.80	127.70	32.10	220.00	487.10	147.95	39.00	52.00		
7	70.25	108.75	153.40	157.60	78.40	139.85	35.00	161.80	476.00	150.65	49.00	54.15		
8	89.20	100.00	147.95	123.75	48.00	154.80	37.00	152.00	459.80	110.00	36.00	34.00		
9	108.75	89.20	142.55	94.00	57.60	167.40	33.00	154.80	435.50	100.00	55.30	27.60		
10	105.00	101.25	145.25	96.40	50.00	164.60	31.20	116.25	407.15	103.75	50.00	29.40		
11	110.00	113.75	141.20	95.20	49.00	161.80	62.20	105.00	373.85	88.00	33.00	37.00		
12	102.50	123.75	122.50	78.40	51.00	159.00	61.05	145.25	357.40	112.50	56.45	40.00		
13	82.00	138.50	138.50	88.00	50.00	159.00	65.65	174.40	339.00	106.25	40.00	34.00		
14	69.10	159.00	153.40	91.60	47.00	157.60	83.20	208.00	333.60	108.75	27.60	37.00		
15	55.30	185.60	175.80	82.00	51.00	145.25	141.20	164.00	315.60	105.00	23.10	30.30		
16	35.00	230.50	174.40	85.60	56.45	125.00	149.30	181.00	274.00	98.80	28.50	90.40		
17	38.00	241.00	173.00	106.25	55.30	117.50	149.30	196.20	260.00	63.35	21.30	97.60		
18	27.60	236.50	170.20	118.75	66.80	88.00	154.80	187.40	241.75	78.40	24.90	90.40		
19	35.00	244.00	157.60	122.50	55.30	84.40	187.00	182.00	233.00	63.35	20.40	76.00		
20	61.05	233.50	139.85	98.80	56.45	61.05	192.60	188.50	198.40	51.00	19.50	69.10		
21	55.30	194.00	110.00	103.75	54.15	94.00	212.50	207.30	164.00	47.00	22.20	83.20		
22	100.00	185.60	88.00	110.00	41.00	101.25	206.60	217.65	140.60	42.00	28.50	85.60		
23	89.20	181.40	80.80	100.00	22.20	102.50	232.00	230.50	130.40	36.00	30.30	108.75		
24	91.60	175.80	92.80	72.55	30.30	95.20	227.50	239.25	108.40	40.00	24.90	130.40		
25	88.00	177.20	89.20	83.20	35.00	63.35	238.00	258.60	84.40	50.00	19.50	139.85		
26	89.20	153.40	98.80	51.00	51.00	52.00	226.00	288.75	69.10	69.10	21.30	137.15		
27	89.20	149.30	120.00	61.05	53.00	53.00	227.50	322.80	78.40	56.45	17.70	117.50		
28	103.75	113.75	145.25	56.45	83.20	57.60	269.50	344.40	101.25	63.35	15.90	73.70		
29	110.00	100.00	164.60	76.00	86.80	53.00	281.50	371.50	118.75	55.30		80.80		
30	90.40	76.00	178.60	70.25	112.50	47.00	289.00	392.65	115.00	38.00		82.00		
31		62.20		72.55	120.00		290.50		102.50	20.40		88.00		
Total	2221.65	4261.80	3999.30	3448.45	2055.55	3393.30	4351.20	6714.00	8741.30	2629.85	1006.20	2228.40	45051.00	CMSDAY
Mean	74.06	137.48	133.31	111.24	66.31	113.11	140.36	223.80	281.98	84.83	35.94	71.88	123.43	CMS
Max	110.00	244.00	178.60	202.40	122.50	167.40	290.50	392.65	494.50	150.65	70.25	139.85	494.50	CMS
Min	27.60	44.00	74.85	51.00	22.20	47.00	31.20	105.00	69.10	20.40	15.90	27.60	15.90	CMS
Runoff	191.95	368.22	345.54	297.95	177.60	293.18	375.94	580.09	755.25	227.22	86.94	192.53	3892.41	MCM

Momentary Peak 494.50 CMS. at 3.65 m. (MSL.) at 06.00 Hours , on Dec 5, 2008

Runoff Yield 18.43 Liters/Second/Square KM. Momentary Peak Yield 73.84 Liters/Second/Square KM.

WATER YEAR : 2008

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 right bank at Ban Pak Min.

	Ban Pak Min	**Amphoe** Chawang	**Changwat** Nakhon Si Thammarat
Drainge Area	510 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**	+7.438 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic mean of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Float	-		
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 26 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

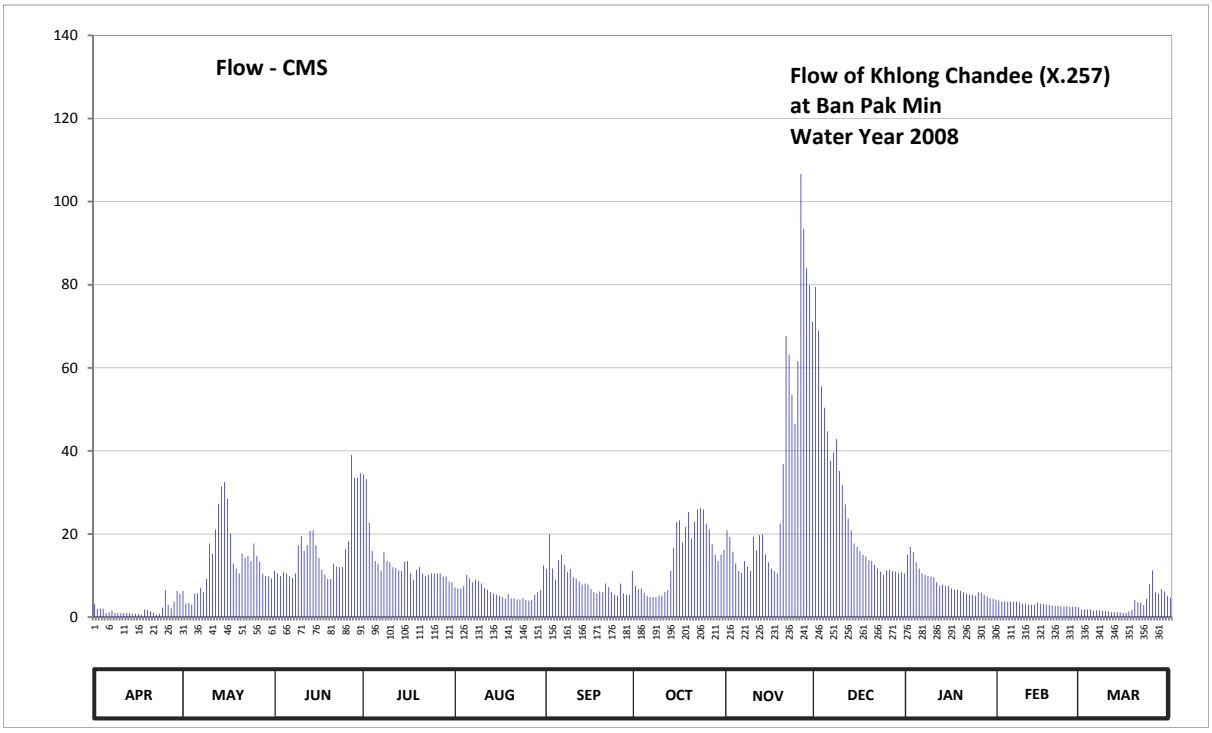
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.50	0.72	1.04	2.23	0.78	1.07	0.80	1.62	3.51	1.30	0.56	0.38	
2	0.40	0.50	1.00	2.19	0.76	1.57	0.75	1.54	3.27	1.42	0.54	0.38	
3	0.40	0.51	0.96	1.71	0.76	1.08	0.76	1.35	2.93	1.34	0.54	0.38	
4	0.40	0.48	1.02	1.36	0.80	0.90	0.69	1.16	2.78	1.18	0.54	0.38	
5	0.30	0.68	1.00	1.20	0.98	1.21	0.64	1.04	2.59	1.08	0.54	0.36	
6	0.32	0.68	0.96	1.16	0.92	1.30	0.62	1.01	2.35	1.00	0.54	0.36	
7	0.36	0.77	0.93	1.04	0.86	1.14	0.62	1.20	2.42	0.98	0.54	0.36	
8	0.30	0.70	1.00	1.34	0.90	1.02	0.62	1.11	2.53	0.96	0.52	0.35	
9	0.30	0.91	1.44	1.20	0.88	1.07	0.65	1.04	2.26	0.95	0.50	0.35	
10	0.30	1.46	1.55	1.18	0.84	0.94	0.64	1.54	2.13	0.94	0.50	0.34	
11	0.30	1.32	1.36	1.10	0.77	0.92	0.70	1.37	1.93	0.86	0.48	0.32	
12	0.30	1.63	1.44	1.09	0.74	0.87	0.74	1.56	1.76	0.80	0.48	0.32	
13	0.30	1.94	1.61	1.05	0.70	0.82	1.04	1.57	1.62	0.82	0.48	0.32	
14	0.28	2.12	1.62	1.04	0.68	0.84	1.41	1.31	1.46	0.80	0.52	0.32	
15	0.28	2.16	1.44	1.19	0.66	0.82	1.72	1.18	1.42	0.80	0.50	0.30	
16	0.28	2.00	1.25	1.20	0.64	0.75	1.74	1.08	1.36	0.76	0.49	0.30	
17	0.26	1.58	1.06	1.00	0.62	0.70	1.47	1.04	1.30	0.74	0.48	0.34	
18	0.38	1.16	0.98	0.90	0.59	0.68	1.66	1.00	1.27	0.74	0.47	0.37	
19	0.37	1.08	0.91	1.06	0.67	0.71	1.84	1.70	1.21	0.72	0.46	0.57	
20	0.34	1.00	0.91	1.10	0.60	0.70	1.52	2.32	1.20	0.70	0.46	0.53	
21	0.30	1.32	1.16	1.00	0.60	0.84	1.72	3.24	1.14	0.68	0.46	0.52	
22	0.26	1.25	1.11	0.96	0.58	0.78	1.87	3.13	1.08	0.66	0.45	0.47	
23	0.28	1.28	1.10	0.98	0.58	0.70	1.89	2.87	1.03	0.66	0.45	0.59	
24	0.42	1.20	1.10	1.00	0.60	0.66	1.87	2.65	0.98	0.64	0.45	0.83	
25	0.73	1.46	1.39	1.00	0.57	0.64	1.70	3.09	1.05	0.70	0.44	1.05	
26	0.48	1.28	1.49	1.00	0.56	0.84	1.63	4.07	1.06	0.69	0.44	0.70	
27	0.41	1.19	2.40	1.00	0.57	0.68	1.45	3.81	1.04	0.66	0.44	0.68	
28	0.54	1.00	2.20	0.95	0.66	0.66	1.30	3.61	1.03	0.63	0.43	0.75	
29	0.72	0.96	2.20	0.95	0.70	0.66	1.20	3.52	1.00	0.60		0.71	
30	0.67	0.96	2.24	0.87	0.73	1.04	1.30	3.32	1.02	0.59		0.64	
31		0.92		0.86	1.13		1.38		1.00	0.57		0.61	
Mean	0.38	1.17	1.33	1.16	0.72	0.89	1.22	2.00	1.70	0.84	0.49	0.48	
Max	0.73	2.16	2.40	2.23	1.13	1.57	1.89	4.07	3.51	1.42	0.56	1.05	4.07
Min	0.26	0.48	0.91	0.86	0.56	0.64	0.62	1.00	0.98	0.57	0.43	0.30	0.26

Annual Max Momentary Gage Height 4.16 m. (A.D.) , at 18.00 Hours , on Nov 26, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed -0.41 m. (A.D.) ,

Left Bank Elevation 6.92 m. (A.D.) ,

Right Bank Elevation 6.93 m. (A.D.) , Drainage Are 510 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.25	6.30	11.10	34.33	7.20	11.55	7.50	20.90	79.45	15.00	4.00	1.80		
2	2.00	3.25	10.50	33.25	6.90	19.90	6.75	19.30	68.98	16.90	3.75	1.80		
3	2.00	3.38	9.90	22.70	6.90	11.70	6.90	15.75	55.55	15.60	3.75	1.80		
4	2.00	3.00	10.80	15.90	7.50	9.00	5.85	12.90	50.40	13.20	3.75	1.80		
5	1.00	5.70	10.50	13.50	10.20	13.65	5.10	11.10	44.70	11.70	3.75	1.60		
6	1.20	5.70	9.90	12.90	9.30	15.00	4.80	10.65	37.63	10.50	3.75	1.60		
7	1.60	7.05	9.45	11.10	8.40	12.60	4.80	13.50	39.60	10.20	3.75	1.60		
8	1.00	6.00	10.50	15.60	9.00	10.80	4.80	12.15	42.90	9.90	3.50	1.50		
9	1.00	9.15	17.30	13.50	8.70	11.55	5.25	11.10	35.15	9.75	3.25	1.50		
10	1.00	17.70	19.50	13.20	8.10	9.60	5.10	19.30	31.75	9.60	3.25	1.40		
11	1.00	15.30	15.90	12.00	7.05	9.30	6.00	16.05	27.10	8.40	3.00	1.20		
12	1.00	21.10	17.30	11.85	6.60	8.55	6.60	19.70	23.70	7.50	3.00	1.20		
13	1.00	27.30	20.70	11.25	6.00	7.80	11.10	19.90	20.90	7.80	3.00	1.20		
14	0.80	31.50	20.90	11.10	5.70	8.10	16.70	15.15	17.70	7.50	3.50	1.20		
15	0.80	32.50	17.30	13.35	5.40	7.80	22.90	13.20	16.90	7.50	3.25	1.00		
16	0.80	28.50	14.25	13.50	5.10	6.75	23.30	11.70	15.90	6.90	3.13	1.00		
17	0.60	20.10	11.40	10.50	4.80	6.00	17.90	11.10	15.00	6.60	3.00	1.40		
18	1.80	12.90	10.20	9.00	4.38	5.70	21.70	10.50	14.55	6.60	2.88	1.70		
19	1.70	11.70	9.15	11.40	5.55	6.15	25.30	22.50	13.65	6.30	2.75	4.13		
20	1.40	10.50	9.15	12.00	4.50	6.00	18.90	36.80	13.50	6.00	2.75	3.63		
21	1.00	15.30	12.90	10.50	4.50	8.10	22.90	67.70	12.60	5.70	2.75	3.50		
22	0.60	14.25	12.15	9.90	4.25	7.20	25.90	63.20	11.70	5.40	2.63	2.88		
23	0.80	14.70	12.00	10.20	4.25	6.00	26.30	53.45	10.95	5.40	2.63	4.38		
24	2.25	13.50	12.00	10.50	4.50	5.40	25.90	46.50	10.20	5.10	2.63	7.95		
25	6.45	17.70	16.35	10.50	4.13	5.10	22.50	61.60	11.25	6.00	2.50	11.25		
26	3.00	14.70	18.30	10.50	4.00	8.10	21.10	106.68	11.40	5.85	2.50	6.00		
27	2.13	13.35	39.00	10.50	4.13	5.70	17.50	93.50	11.10	5.40	2.50	5.70		
28	3.75	10.50	33.50	9.75	5.40	5.40	15.00	83.98	10.95	4.95	2.38	6.75		
29	6.30	9.90	33.50	9.75	6.00	5.40	13.50	79.90	10.50	4.50		6.15		
30	5.55	9.90	34.60	8.55	6.45	11.10	15.00	71.10	10.80	4.38		5.10		
31		9.30		8.40	12.45		16.20		10.50	4.13		4.65		
Total	58.78	421.73	490.00	410.98	197.34	265.00	449.05	1050.86	786.96	250.26	87.28	98.37	4566.61	CMSDAY
Mean	1.96	13.60	16.33	13.26	6.37	8.83	14.49	35.03	25.39	8.07	3.12	3.17	12.51	CMS
Max	6.45	32.50	39.00	34.33	12.45	19.90	26.30	106.68	79.45	16.90	4.00	11.25	106.68	CMS
Min	0.60	3.00	9.15	8.40	4.00	5.10	4.80	10.50	10.20	4.13	2.38	1.00	0.60	CMS
Runoff	5.08	36.44	42.34	35.51	17.05	22.90	38.80	90.79	67.99	21.62	7.54	8.50	394.56	MCM

Momentary Peak 111.40 CMS. at 4.16 m. (A.D.) at 18.00 Hours , on Nov 26, 2008

Runoff Yield 24.53 Liters/Second/Square KM. Momentary Peak Yield 218.43 Liters/Second/Square KM.

WATER YEAR : 2008

TAPI RIVER BASIN

Khlong I - Pan at Ban Mai , Surat Thani (X.258)

Lat 08 - 32 - 53 N Long 99 - 06 - 36 E

Location : on left bank at Ban Mai.

	Ban Mai	**Amphoe** Phrasaeng	**Changwat** Surat Thani
Drainge Area	2,060 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 downstream at the footpath	**Elevation**	+12.081 m. (A.D.)
Gage Reading Frequency	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 Float	-		
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 22 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

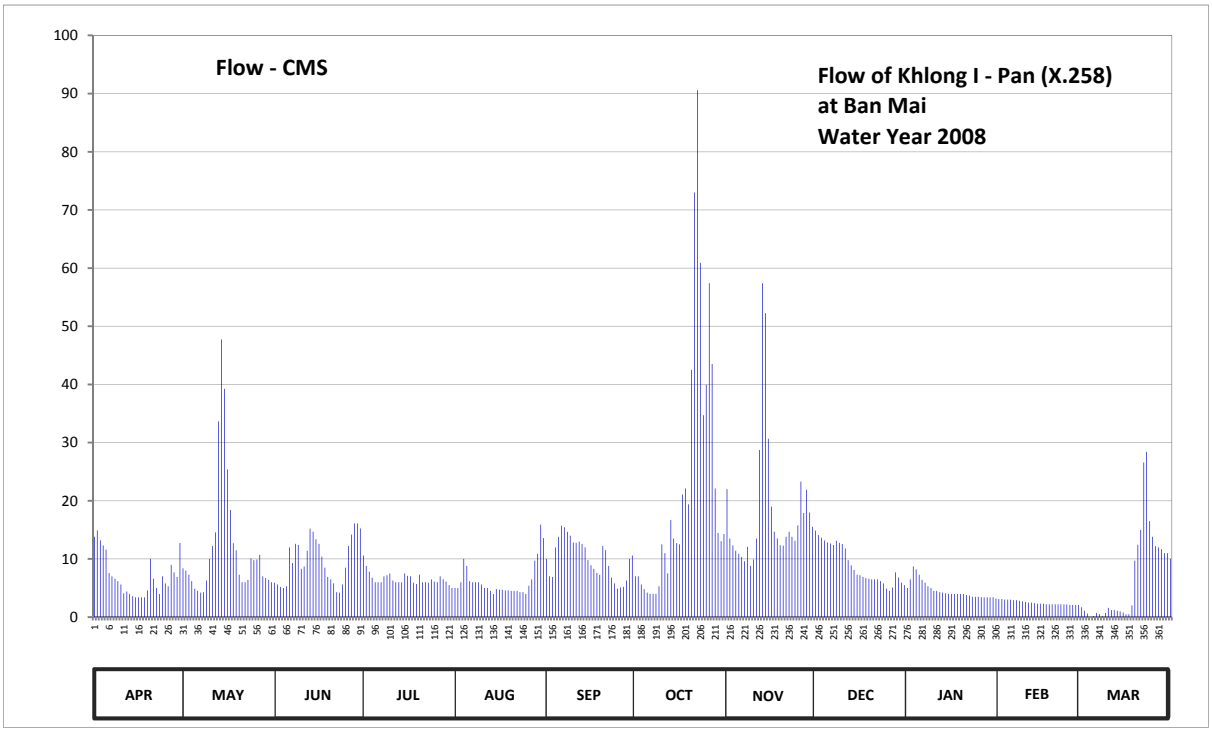
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.60	2.44	2.19	2.66	2.10	2.60	2.30	5.10	3.96	2.10	1.91	1.77	
2	3.97	2.40	2.16	2.48	2.10	2.30	2.30	3.50	3.70	2.25	1.91	1.71	
3	3.40	2.33	2.12	2.38	2.20	2.29	2.16	2.94	3.56	2.47	1.90	1.66	
4	2.96	2.22	2.10	2.28	2.60	2.80	2.08	2.74	3.38	2.42	1.90	1.60	
5	2.76	2.09	2.13	2.20	2.48	3.60	2.02	2.69	3.21	2.33	1.90	1.62	
6	2.36	2.05	2.80	2.20	2.22	4.14	2.00	2.63	3.13	2.24	1.89	1.67	
7	2.30	2.02	2.53	2.20	2.20	4.09	2.00	2.56	3.00	2.19	1.89	1.65	
8	2.26	2.03	3.10	2.30	2.20	3.89	2.00	2.83	3.37	2.13	1.88	1.62	
9	2.22	2.23	3.00	2.32	2.20	3.67	2.13	2.48	3.18	2.10	1.87	1.67	
10	2.16	2.60	2.43	2.35	2.16	3.21	3.06	2.59	3.08	2.05	1.86	1.76	
11	2.01	2.90	2.47	2.23	2.10	3.19	2.70	3.50	2.78	2.05	1.85	1.72	
12	2.04	3.86	2.74	2.20	2.10	3.29	2.35	5.70	2.58	2.03	1.85	1.72	
13	2.00	5.98	4.04	2.20	2.05	3.08	4.34	7.04	2.49	2.02	1.84	1.71	
14	1.96	6.67	3.90	2.20	2.00	2.80	3.50	6.85	2.41	2.01	1.83	1.70	
15	1.94	6.30	3.46	2.35	2.08	2.58	3.16	5.81	2.33	2.00	1.83	1.68	
16	1.94	5.44	3.10	2.31	2.07	2.49	3.05	4.80	2.32	2.00	1.83	1.65	
17	1.94	4.68	2.64	2.30	2.07	2.43	5.01	3.90	2.29	2.00	1.82	1.65	
18	1.94	3.15	2.45	2.19	2.06	2.36	5.11	3.50	2.27	2.00	1.82	1.80	
19	2.06	2.75	2.29	2.17	2.06	2.33	4.84	2.98	2.26	2.00	1.82	2.57	
20	2.60	2.33	2.25	2.33	2.05	2.90	6.46	2.95	2.25	2.00	1.82	3.01	
21	2.26	2.20	2.18	2.20	2.05	2.75	7.44	3.60	2.25	1.98	1.82	4.00	
22	2.10	2.20	2.03	2.20	2.05	2.48	7.76	3.89	2.25	1.97	1.82	5.56	
23	2.00	2.24	2.02	2.19	2.03	2.28	7.14	3.60	2.22	1.95	1.82	5.68	
24	2.30	2.61	2.16	2.25	2.03	2.18	6.04	3.36	2.18	1.95	1.82	4.30	
25	2.18	2.58	2.45	2.21	2.00	2.09	6.34	4.15	2.09	1.95	1.81	3.60	
26	2.13	2.59	2.90	2.20	2.14	2.11	7.04	5.23	2.05	1.94	1.81	2.90	
27	2.50	2.67	3.73	2.30	2.25	2.12	6.50	4.58	2.11	1.94	1.81	2.80	
28	2.37	2.30	4.22	2.25	2.57	2.23	5.11	5.09	2.37	1.94	1.81	2.77	
29	2.29	2.27	4.22	2.21	2.69	2.60	3.82	4.60	2.28	1.94		2.70	
30	3.16	2.24	4.05	2.15	4.18	2.66	3.33	4.10	2.19	1.94		2.70	
31		2.20		2.10	3.53		3.76		2.15	1.92		2.60	
Mean	2.39	2.99	2.80	2.26	2.28	2.78	4.09	3.98	2.64	2.06	1.85	2.44	
Max	3.97	6.67	4.22	2.66	4.18	4.14	7.76	7.04	3.96	2.47	1.91	5.68	7.76
Min	1.94	2.02	2.02	2.10	2.00	2.09	2.00	2.48	2.05	1.92	1.81	1.60	1.60

Annual Max Momentary Gage Height 7.79 m. (MSL.) , at 06.00 Hours , on Oct 22, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 0.69 m. (A.D)

Left Bank Elevation 12.07 m. (MSL.) ,

Right Bank Elevation 12.07 m. (MSL.) , Drainage Are 2,060 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.80	8.40	5.90	10.60	5.00	10.00	7.00	22.00	14.88	5.00	3.10	1.70		
2	14.91	8.00	5.60	8.80	5.00	7.00	7.00	13.50	14.10	6.50	3.10	1.10		
3	13.20	7.30	5.20	7.80	6.00	6.90	5.60	12.28	13.68	8.70	3.00	0.60		
4	12.32	6.20	5.00	6.80	10.00	12.00	4.80	11.40	13.16	8.20	3.00	0.00		
5	11.60	4.90	5.30	6.00	8.80	13.80	4.20	10.90	12.82	7.30	3.00	0.20		
6	7.60	4.50	12.00	6.00	6.20	15.70	4.00	10.30	12.66	6.40	2.90	0.70		
7	7.00	4.20	9.30	6.00	6.00	15.45	4.00	9.60	12.40	5.90	2.90	0.50		
8	6.60	4.30	12.60	7.00	6.00	14.67	4.00	12.06	13.14	5.30	2.80	0.20		
9	6.20	6.30	12.40	7.20	6.00	14.01	5.30	8.80	12.76	5.00	2.70	0.70		
10	5.60	10.00	8.30	7.50	5.60	12.82	12.52	9.90	12.56	4.50	2.60	1.60		
11	4.10	12.20	8.70	6.30	5.00	12.78	11.00	13.50	11.80	4.50	2.50	1.20		
12	4.40	14.58	11.40	6.00	5.00	12.98	7.50	28.75	9.80	4.30	2.50	1.20		
13	4.00	33.65	15.20	6.00	4.50	12.56	16.70	57.40	8.90	4.20	2.40	1.10		
14	3.60	47.75	14.70	6.00	4.00	12.00	13.50	52.25	8.10	4.10	2.30	1.00		
15	3.40	39.25	13.38	7.50	4.80	9.80	12.72	30.68	7.30	4.00	2.30	0.80		
16	3.40	25.40	12.60	7.10	4.70	8.90	12.50	19.00	7.20	4.00	2.30	0.50		
17	3.40	18.40	10.40	7.00	4.70	8.30	21.10	14.70	6.90	4.00	2.20	0.50		
18	3.40	12.70	8.50	5.90	4.60	7.60	22.10	13.50	6.70	4.00	2.20	2.00		
19	4.60	11.50	6.90	5.70	4.60	7.30	19.40	12.36	6.60	4.00	2.20	9.70		
20	10.00	7.30	6.50	7.30	4.50	12.20	42.50	12.30	6.50	4.00	2.20	12.42		
21	6.60	6.00	5.80	6.00	4.50	11.50	73.00	13.80	6.50	3.80	2.20	15.00		
22	5.00	6.00	4.30	6.00	4.50	8.80	90.60	14.67	6.50	3.70	2.20	26.60		
23	4.00	6.40	4.20	5.90	4.30	6.80	60.90	13.80	6.20	3.50	2.20	28.40		
24	7.00	10.10	5.60	6.50	4.30	5.80	34.70	13.12	5.80	3.50	2.20	16.50		
25	5.80	9.80	8.50	6.10	4.00	4.90	39.95	15.75	4.90	3.50	2.10	13.80		
26	5.30	9.90	12.20	6.00	5.40	5.10	57.40	23.30	4.50	3.40	2.10	12.20		
27	9.00	10.70	14.19	7.00	6.50	5.20	43.50	17.90	5.10	3.40	2.10	12.00		
28	7.70	7.00	16.10	6.50	9.70	6.30	22.10	21.90	7.70	3.40	2.10	11.70		
29	6.90	6.70	16.10	6.10	10.90	10.00	14.46	18.00	6.80	3.40		11.00		
30	12.72	6.40	15.25	5.50	15.90	10.60	13.06	15.50	5.90	3.40		11.00		
31		6.00		5.00	13.59		14.28		5.50	3.20		10.00		
Total	213.15	371.83	292.12	205.10	194.59	301.77	701.39	542.92	277.36	142.10	69.40	205.92	3517.65	CMSDAY
Mean	7.11	11.99	9.74	6.62	6.28	10.06	22.63	18.10	8.95	4.58	2.48	6.64	9.64	CMS
Max	14.91	47.75	16.10	10.60	15.90	15.70	90.60	57.40	14.88	8.70	3.10	28.40	90.60	CMS
Min	3.40	4.20	4.20	5.00	4.00	4.90	4.00	8.80	4.50	3.20	2.10	0.00	0.00	CMS
Runoff	18.42	32.13	25.24	17.72	16.81	26.07	60.60	46.91	23.96	12.28	6.00	17.79	303.92	MCM

Momentary Peak 92.40 CMS. at 7.79 m. (A.D.) at 06.00 Hours , on Oct 22, 2008

Runoff Yield 4.68 Liters/Second/Square KM. Momentary Peak Yield 44.85 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	818 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 downstream at the footpath	**Elevation**	+9.353 m. (A.D.)
Gage Reading Frequency	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 Float	-		
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 24 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

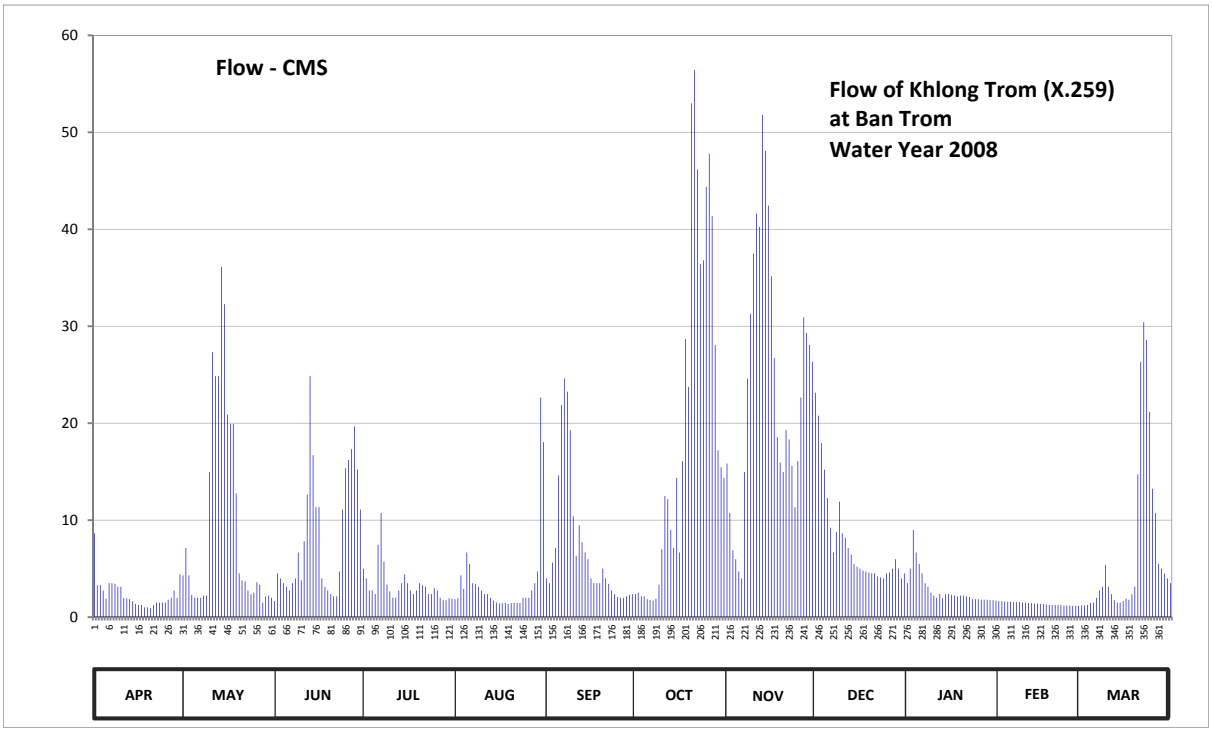
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.47	1.08	0.73	1.15	0.77	1.05	0.85	2.07	2.66	1.00	0.73	0.64	
2	0.97	1.34	1.10	1.05	0.79	1.00	0.87	1.65	2.47	1.15	0.73	0.64	
3	0.97	1.08	1.05	0.90	1.08	1.21	0.82	1.32	2.24	1.50	0.72	0.65	
4	0.90	0.84	1.00	0.90	0.92	1.34	0.82	1.24	2.02	1.30	0.72	0.69	
5	0.78	0.80	0.95	0.85	1.30	1.97	0.77	1.12	1.78	1.20	0.72	0.70	
6	1.00	0.80	0.90	1.37	1.20	2.56	0.75	1.05	1.52	1.10	0.71	0.80	
7	1.00	0.80	1.00	1.65	1.00	2.78	0.74	2.00	1.30	1.00	0.71	0.90	
8	0.99	0.83	1.05	1.22	0.99	2.67	0.78	2.78	1.48	0.95	0.71	0.95	
9	0.95	0.83	1.30	0.98	0.95	2.35	0.98	3.32	1.75	0.87	0.70	1.19	
10	0.95	2.00	1.03	0.89	0.90	1.62	1.33	3.80	1.47	0.83	0.70	0.95	
11	0.79	3.00	1.40	0.80	0.85	1.27	1.80	4.10	1.43	0.80	0.69	0.85	
12	0.79	2.80	1.81	0.80	0.85	1.54	1.77	4.00	1.34	0.85	0.69	0.75	
13	0.77	2.80	2.80	0.90	0.80	1.39	1.50	4.82	1.28	0.79	0.68	0.70	
14	0.73	3.70	2.14	1.00	0.74	1.30	1.34	4.57	1.20	0.85	0.68	0.70	
15	0.67	3.40	1.70	1.09	0.70	1.24	1.95	4.16	1.17	0.85	0.67	0.73	
16	0.65	2.48	1.70	1.00	0.68	1.05	1.30	3.63	1.15	0.84	0.67	0.78	
17	0.65	2.40	1.05	0.90	0.69	1.00	2.09	2.95	1.13	0.83	0.66	0.76	
18	0.60	2.40	0.95	0.85	0.69	1.00	3.11	2.29	1.12	0.82	0.65	0.85	
19	0.60	1.82	0.90	0.90	0.67	1.00	2.71	2.08	1.11	0.83	0.65	0.95	
20	0.58	1.10	0.85	1.00	0.69	1.15	4.90	2.00	1.10	0.83	0.65	1.98	
21	0.65	1.03	0.82	0.97	0.69	1.05	5.13	2.35	1.10	0.82	0.65	2.92	
22	0.70	1.02	0.82	0.95	0.69	0.99	4.43	2.27	1.07	0.81	0.65	3.25	
23	0.70	0.90	1.12	0.85	0.69	0.90	3.72	2.05	1.06	0.77	0.64	3.10	
24	0.70	0.85	1.68	0.85	0.80	0.85	3.75	1.70	1.05	0.77	0.64	2.50	
25	0.70	0.87	2.03	0.93	0.80	0.81	4.30	2.09	1.10	0.77	0.64	1.86	
26	0.76	1.01	2.10	0.90	0.80	0.80	4.55	2.62	1.11	0.76	0.63	1.65	
27	0.80	0.98	2.19	0.80	0.90	0.80	4.08	3.29	1.15	0.76	0.63	1.20	
28	0.90	0.70	2.38	0.75	1.00	0.82	3.06	3.16	1.24	0.76	0.63	1.15	
29	0.80	0.82	2.02	0.75	1.12	0.84	2.18	3.06	1.15	0.75		1.10	
30	1.09	0.83	1.68	0.79	2.62	0.85	2.04	2.92	1.05	0.75		1.05	
31		0.80		0.78	2.25		1.95		1.10	0.74		1.00	
Mean	0.82	1.49	1.41	0.95	0.96	1.31	2.27	2.68	1.38	0.89	0.68	1.22	
Max	1.47	3.70	2.80	1.65	2.62	2.78	5.13	4.82	2.66	1.50	0.73	3.25	5.13
Min	0.58	0.70	0.73	0.75	0.67	0.80	0.74	1.05	1.05	0.74	0.63	0.64	0.58

Annual Max Momentary Gage Height 5.20 m. (A.D.) , at 06.00 Hours , on Oct 21, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.26 m. (A.D.) ,

Left Bank Elevation 9.34 m. (A.D.) ,

Right Bank Elevation 9.30 m. (A.D.) , Drainage Are 818 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.65	4.30	1.65	5.00	1.85	4.00	2.38	15.84	23.13	3.50	1.65	1.20		
2	3.28	7.13	4.50	4.00	1.95	3.50	2.53	10.75	20.78	5.00	1.65	1.20		
3	3.28	4.30	4.00	2.75	4.30	5.62	2.15	6.90	17.94	9.00	1.60	1.25		
4	2.75	2.30	3.50	2.75	2.90	7.13	2.15	5.97	15.22	6.67	1.60	1.45		
5	1.90	2.00	3.13	2.38	6.67	14.60	1.85	4.70	12.27	5.50	1.60	1.50		
6	3.50	2.00	2.75	7.48	5.50	21.89	1.75	4.00	9.23	4.50	1.55	2.00		
7	3.50	2.00	3.50	10.75	3.50	24.61	1.70	14.97	6.67	3.50	1.55	2.75		
8	3.43	2.23	4.00	5.73	3.43	23.25	1.90	24.61	8.77	3.13	1.55	3.13		
9	3.13	2.23	6.67	3.35	3.13	19.30	3.35	31.29	11.92	2.53	1.50	5.40		
10	3.13	14.97	3.80	2.68	2.75	10.40	7.02	37.50	8.65	2.23	1.50	3.13		
11	1.95	27.33	7.83	2.00	2.38	6.32	12.50	41.63	8.18	2.00	1.45	2.38		
12	1.95	24.86	12.62	2.00	2.38	9.47	12.15	40.25	7.13	2.38	1.45	1.75		
13	1.85	24.86	24.86	2.75	2.00	7.72	9.00	51.80	6.43	1.95	1.40	1.50		
14	1.65	36.13	16.70	3.50	1.70	6.67	7.13	48.09	5.50	2.38	1.40	1.50		
15	1.35	32.28	11.33	4.40	1.50	5.97	14.35	42.45	5.20	2.38	1.35	1.65		
16	1.25	20.91	11.33	3.50	1.40	4.00	6.67	35.16	5.00	2.30	1.35	1.90		
17	1.25	19.92	4.00	2.75	1.45	3.50	16.09	26.72	4.80	2.23	1.30	1.80		
18	1.00	19.92	3.13	2.38	1.45	3.50	28.69	18.56	4.70	2.15	1.25	2.38		
19	1.00	12.75	2.75	2.75	1.35	3.50	23.75	15.96	4.60	2.23	1.25	3.13		
20	0.90	4.50	2.38	3.50	1.45	5.00	53.00	14.97	4.50	2.23	1.25	14.73		
21	1.25	3.80	2.15	3.28	1.45	4.00	56.45	19.30	4.50	2.15	1.25	26.34		
22	1.50	3.70	2.15	3.13	1.45	3.43	46.16	18.31	4.20	2.08	1.25	30.42		
23	1.50	2.75	4.70	2.38	1.45	2.75	36.40	15.59	4.10	1.85	1.20	28.57		
24	1.50	2.38	11.10	2.38	2.00	2.38	36.81	11.33	4.00	1.85	1.20	21.15		
25	1.50	2.53	15.34	2.98	2.00	2.08	44.38	16.09	4.50	1.85	1.20	13.24		
26	1.80	3.60	16.21	2.75	2.00	2.00	47.81	22.64	4.60	1.80	1.15	10.75		
27	2.00	3.35	17.32	2.00	2.75	2.00	41.35	30.92	5.00	1.80	1.15	5.50		
28	2.75	1.50	19.67	1.75	3.50	2.15	28.08	29.31	5.97	1.80	1.15	5.00		
29	2.00	2.15	15.22	1.75	4.70	2.30	17.20	28.08	5.00	1.75		4.50		
30	4.40	2.23	11.10	1.95	22.64	2.38	15.47	26.34	4.00	1.75		4.00		
31		2.00		1.90	18.06		14.35		4.50	1.70		3.50		
Total	70.90	296.91	249.39	102.65	115.04	215.42	594.57	710.03	240.99	88.17	38.75	208.70	2931.52	CMSDAY
Mean	2.36	9.58	8.31	3.31	3.71	7.18	19.18	23.67	7.77	2.84	1.38	6.73	8.03	CMS
Max	8.65	36.13	24.86	10.75	22.64	24.61	56.45	51.80	23.13	9.00	1.65	30.42	56.45	CMS
Min	0.90	1.50	1.65	1.75	1.35	2.00	1.70	4.00	4.00	1.70	1.15	1.20	0.90	CMS
Runoff	6.13	25.65	21.55	8.87	9.94	18.61	51.37	61.35	20.82	7.62	3.35	18.03	253.28	MCM

Momentary Peak 57.50 CMS. at 5.20 m. (A.D.) at 06.00 Hours , on Oct 21, 2008

Runoff Yield 9.82 Liters/Second/Square KM. Momentary Peak Yield 70.29 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	2,076 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** +13.658 m. (A.D.)
Gage Reading Frequency	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 Float	-
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 2008.

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

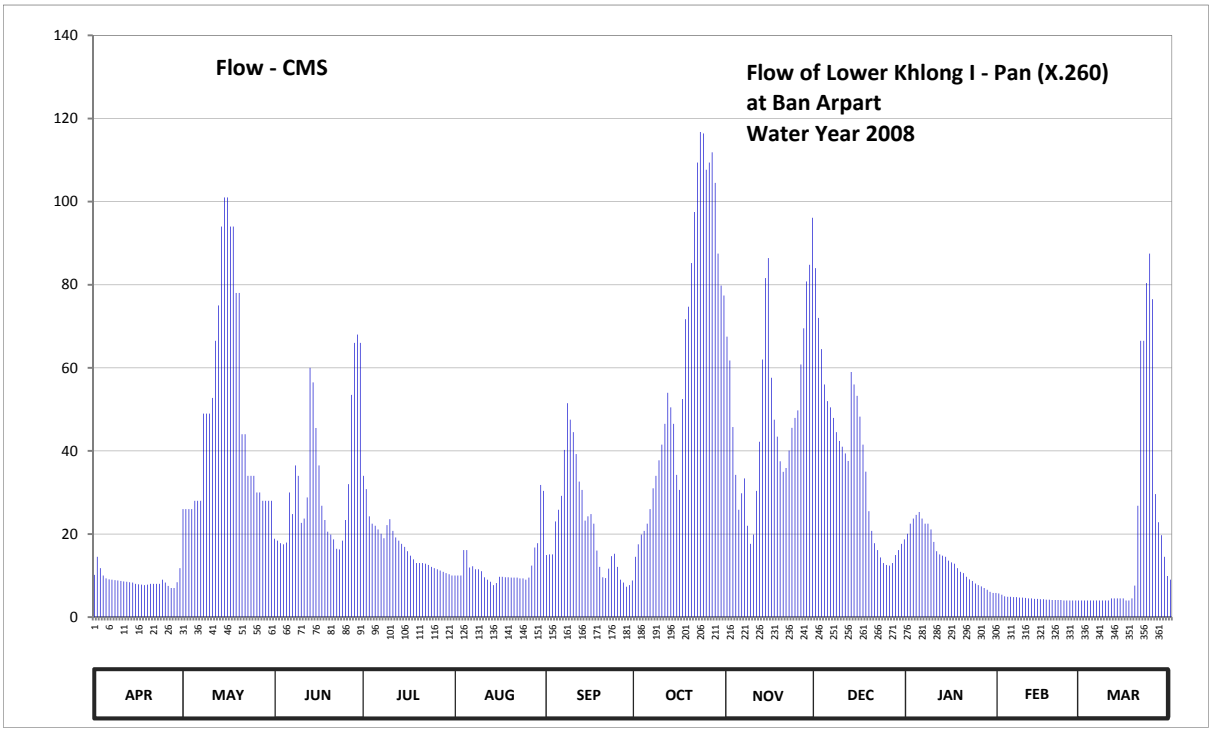
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.21	3.20	2.79	3.60	2.20	2.53	2.50	4.94	6.15	2.86	1.77	1.60	
2	2.50	3.20	2.76	3.44	2.20	2.54	2.70	4.71	6.00	3.00	1.74	1.60	
3	2.32	3.20	2.72	3.10	2.20	2.54	2.85	4.07	5.85	3.07	1.70	1.60	
4	2.20	3.20	2.70	3.00	2.61	3.03	2.90	3.61	5.65	3.12	1.69	1.60	
5	2.13	3.30	2.73	2.97	2.61	3.19	3.00	3.19	5.52	3.16	1.69	1.60	
6	2.11	3.30	3.40	2.92	2.33	3.36	3.20	3.39	5.46	3.07	1.68	1.60	
7	2.10	3.30	3.13	2.86	2.35	3.85	3.45	3.57	5.33	3.00	1.68	1.60	
8	2.09	4.20	3.70	2.80	2.30	4.30	3.60	2.97	5.10	3.00	1.67	1.60	
9	2.08	4.20	3.60	2.98	2.30	4.14	3.75	2.71	4.94	2.92	1.67	1.60	
10	2.07	4.20	3.01	3.06	2.27	4.02	3.90	2.85	4.80	2.74	1.66	1.60	
11	2.06	4.35	3.07	2.90	2.16	3.81	4.10	3.48	4.64	2.59	1.65	1.65	
12	2.05	4.90	3.34	2.81	2.10	3.53	4.40	4.92	4.46	2.54	1.65	1.65	
13	2.04	5.20	4.64	2.76	2.05	3.43	4.26	5.80	4.60	2.52	1.64	1.65	
14	2.03	5.80	4.50	2.71	1.97	3.04	4.10	6.12	4.48	2.50	1.64	1.65	
15	2.00	6.00	4.06	2.66	2.02	3.10	3.61	6.18	4.37	2.44	1.63	1.65	
16	1.99	6.00	3.70	2.59	2.17	3.13	3.43	5.69	4.17	2.41	1.63	1.60	
17	1.98	5.80	3.24	2.52	2.17	3.00	4.34	5.30	3.90	2.39	1.62	1.60	
18	1.97	5.80	3.05	2.46	2.16	2.60	5.09	5.03	3.64	2.32	1.62	1.65	
19	1.98	5.30	2.89	2.40	2.16	2.34	5.19	4.45	3.17	2.26	1.61	1.96	
20	2.00	5.30	2.85	2.40	2.15	2.16	5.53	4.13	2.90	2.24	1.61	3.24	
21	2.00	4.00	2.78	2.40	2.15	2.14	5.90	4.25	2.72	2.17	1.61	4.90	
22	2.00	4.00	2.63	2.39	2.15	2.31	6.24	4.71	2.61	2.11	1.61	4.90	
23	2.00	3.60	2.62	2.37	2.13	2.51	6.45	5.17	2.49	2.07	1.60	5.38	
24	2.10	3.60	2.76	2.34	2.13	2.55	6.44	5.33	2.40	2.01	1.60	5.60	
25	2.03	3.60	3.05	2.32	2.10	2.34	6.19	5.43	2.37	1.97	1.60	5.25	
26	1.95	3.40	3.50	2.30	2.15	2.10	6.24	5.77	2.36	1.94	1.60	3.38	
27	1.90	3.40	4.38	2.28	2.36	2.03	6.31	5.95	2.40	1.90	1.60	3.02	
28	1.90	3.30	4.88	2.26	2.65	1.93	6.10	6.11	2.53	1.86	1.60	2.84	
29	2.04	3.30	4.96	2.24	2.72	1.97	5.60	6.16	2.61	1.81		2.50	
30	2.32	3.30	4.88	2.22	3.49	2.08	5.36	6.26	2.71	1.78		2.19	
31		3.30		2.20	3.42		5.28		2.78	1.78		2.10	
Mean	2.07	4.15	3.41	2.65	2.32	2.85	4.58	4.74	3.97	2.44	1.65	2.46	
Max	2.50	6.00	4.96	3.60	3.49	4.30	6.45	6.26	6.15	3.16	1.77	5.60	6.45
Min	1.90	3.20	2.62	2.20	1.97	1.93	2.50	2.71	2.36	1.78	1.60	1.60	1.60

Annual Max Momentary Gage Height 6.50 m. (A.D.) , at 09.00 Hours , on Oct 24, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed -0.31 m. (A.D.)

Left Bank Elevation 9.69 m. (A.D.) ,

Right Bank Elevation 9.71 m. (A.D.) , Drainage Are 2,076 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.15	26.00	18.85	34.00	10.00	14.95	14.50	67.50	84.00	20.05	5.70	4.00		
2	14.50	26.00	18.40	30.80	10.00	15.10	17.50	61.75	72.00	22.50	5.40	4.00		
3	11.80	26.00	17.80	24.25	10.00	15.10	19.88	45.75	64.50	23.73	5.00	4.00		
4	10.00	26.00	17.50	22.50	16.15	23.03	20.75	34.25	56.00	24.60	4.90	4.00		
5	9.30	28.00	17.95	21.98	16.15	25.83	22.50	25.83	52.00	25.30	4.90	4.00		
6	9.10	28.00	30.00	21.10	11.95	29.20	26.00	29.80	50.50	23.73	4.80	4.00		
7	9.00	28.00	24.78	20.05	12.25	40.25	31.00	33.40	47.95	22.50	4.80	4.00		
8	8.90	49.00	36.50	19.00	11.50	51.50	34.00	21.98	44.50	22.50	4.70	4.00		
9	8.80	49.00	34.00	22.15	11.50	47.50	37.75	17.65	42.40	21.10	4.70	4.00		
10	8.70	49.00	22.68	23.55	11.05	44.50	41.50	19.88	41.00	18.10	4.60	4.00		
11	8.60	52.75	23.73	20.75	9.60	39.25	46.50	30.40	39.40	15.85	4.50	4.50		
12	8.50	66.50	28.80	19.18	9.00	32.60	54.00	42.20	37.60	15.10	4.50	4.50		
13	8.40	75.00	60.00	18.40	8.50	30.60	50.50	62.00	59.00	14.80	4.40	4.50		
14	8.30	94.00	56.50	17.65	7.70	23.20	46.50	81.60	56.00	14.50	4.40	4.50		
15	8.00	101.00	45.50	16.90	8.20	24.25	34.25	86.40	53.25	13.60	4.30	4.50		
16	7.90	101.00	36.50	15.85	9.70	24.78	30.60	57.60	48.25	13.15	4.30	4.00		
17	7.80	94.00	26.80	14.80	9.70	22.50	52.50	47.50	41.50	12.85	4.20	4.00		
18	7.70	94.00	23.38	13.90	9.60	16.00	71.70	43.45	35.00	11.80	4.20	4.50		
19	7.80	78.00	20.58	13.00	9.60	12.10	74.70	37.50	25.48	10.90	4.10	7.60		
20	8.00	78.00	19.88	13.00	9.50	9.60	85.23	34.98	20.75	10.60	4.10	26.80		
21	8.00	44.00	18.70	13.00	9.50	9.40	97.50	35.88	17.80	9.70	4.10	66.50		
22	8.00	44.00	16.45	12.85	9.50	11.65	109.40	40.10	16.15	9.10	4.10	66.50		
23	8.00	34.00	16.30	12.55	9.30	14.65	116.75	45.55	14.35	8.70	4.00	80.40		
24	9.00	34.00	18.40	12.10	9.30	15.25	116.40	47.95	13.00	8.10	4.00	87.50		
25	8.30	34.00	23.38	11.80	9.00	12.10	107.65	49.75	12.55	7.70	4.00	76.50		
26	7.50	30.00	32.00	11.50	9.50	9.00	109.40	60.80	12.40	7.40	4.00	29.60		
27	7.00	30.00	53.50	11.20	12.40	8.30	111.85	69.50	13.00	7.00	4.00	22.85		
28	7.00	28.00	66.00	10.90	16.75	7.30	104.50	80.80	14.95	6.60	4.00	19.70		
29	8.40	28.00	68.00	10.60	17.80	7.70	87.50	84.80	16.15	6.10		14.50		
30	11.80	28.00	66.00	10.30	31.80	8.80	79.80	96.10	17.65	5.80		9.90		
31		28.00		10.00	30.40		77.40		18.70	5.80		9.00		
Total	264.25	1531.25	958.86	529.61	376.90	645.99	1930.01	1492.65	1137.78	439.26	124.70	592.35	10023.61	CMSDAY
Mean	8.81	49.40	31.96	17.08	12.16	21.53	62.26	49.75	36.70	14.17	4.45	19.11	27.46	CMS
Max	14.50	101.00	68.00	34.00	31.80	51.50	116.75	96.10	84.00	25.30	5.70	87.50	116.75	CMS
Min	7.00	26.00	16.30	10.00	7.70	7.30	14.50	17.65	12.40	5.80	4.00	4.00	4.00	CMS
Runoff	22.83	132.30	82.85	45.76	32.56	55.81	166.75	128.96	98.30	37.95	10.77	51.18	866.04	MCM

Momentary Peak 118.50 CMS. at 6.50 m. (A.D.) at 09.00 Hours , on Oct 24 , 2008

Runoff Yield 13.23 Liters/Second/Square KM. Momentary Peak Yield 57.08 Liters/Second/Square KM.

WATER YEAR : 2008

THALE SAP SONGKHLA

Khlong U - Taphao at Ban Hat Yai Nai , Songkhla (X.44)

Lat 07 - 00 - 02 N Long 100 - 27 - 32 E

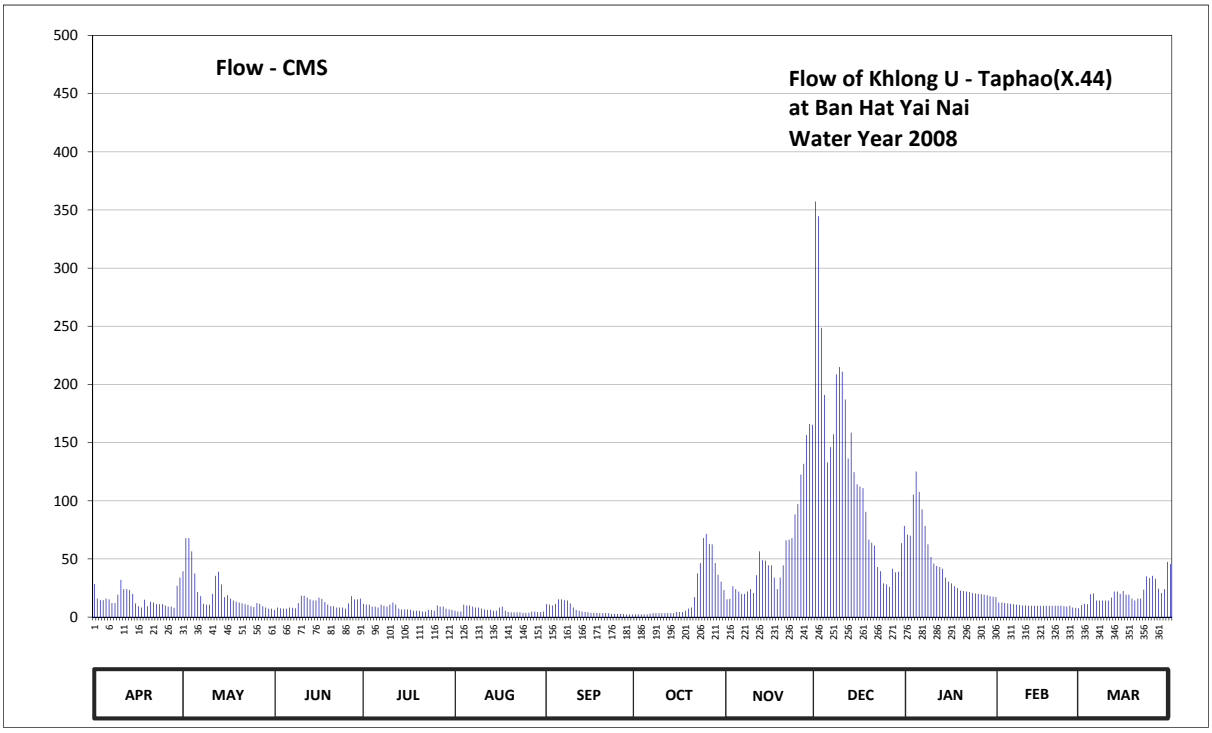
Location : on left bank at the bridge of Hat Yai - Rattaphum Highway.

	Ban Hat Yai Nai	**Amphoe** Hat Yai	**Changwat** Songkhla
Drainge Area	1,720 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 200 meters from the top staff gage.	**Elevation**	+7.294 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1967 to date		
Rating Operation			
Period of Rating	1967 - 1972 , 1983 - 1988 , 1999 to date		
Rated by Float	-		
Rated by Current Meter	1967 - 1972 , 1983 - 1988 , 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 24 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.69	0.91	0.12	0.27	0.10	0.26	0.01	0.38	5.37	1.54	0.30	0.24	
2	0.40	1.48	0.18	0.25	0.08	0.25	0.01	0.39	5.23	1.52	0.30	0.27	
3	0.36	1.48	0.16	0.25	0.08	0.23	0.01	0.65	4.12	2.17	0.29	0.26	
4	0.36	1.25	0.15	0.20	0.25	0.27	0.01	0.60	3.40	2.48	0.28	0.49	
5	0.40	0.87	0.15	0.20	0.23	0.38	0.01	0.55	2.60	2.21	0.27	0.51	
6	0.38	0.54	0.18	0.18	0.23	0.38	0.03	0.50	2.80	1.94	0.26	0.35	
7	0.29	0.45	0.17	0.25	0.20	0.36	0.04	0.50	2.96	1.68	0.25	0.35	
8	0.29	0.27	0.16	0.22	0.18	0.35	0.04	0.55	3.62	1.37	0.24	0.35	
9	0.48	0.25	0.29	0.20	0.18	0.28	0.04	0.60	3.70	1.15	0.23	0.35	
10	0.76	0.25	0.46	0.25	0.15	0.18	0.04	0.52	3.65	1.04	0.23	0.35	
11	0.60	0.50	0.46	0.30	0.13	0.12	0.04	0.84	3.35	1.00	0.22	0.42	
12	0.60	0.83	0.42	0.25	0.12	0.10	0.04	1.25	2.65	0.98	0.22	0.55	
13	0.58	0.90	0.38	0.15	0.12	0.08	0.04	1.10	2.98	0.95	0.22	0.55	
14	0.50	0.68	0.35	0.13	0.10	0.07	0.04	1.09	2.47	0.80	0.22	0.50	
15	0.28	0.43	0.35	0.13	0.10	0.06	0.07	1.01	2.31	0.73	0.22	0.56	
16	0.21	0.47	0.42	0.13	0.18	0.05	0.07	1.01	2.28	0.70	0.22	0.48	
17	0.18	0.40	0.39	0.12	0.20	0.05	0.07	0.80	2.26	0.65	0.22	0.48	
18	0.37	0.35	0.31	0.10	0.10	0.05	0.10	0.60	1.90	0.62	0.22	0.40	
19	0.21	0.32	0.25	0.10	0.07	0.04	0.15	0.80	1.45	0.57	0.22	0.35	
20	0.32	0.30	0.21	0.10	0.06	0.04	0.18	1.01	1.40	0.56	0.22	0.40	
21	0.30	0.28	0.21	0.08	0.06	0.04	0.43	1.44	1.35	0.55	0.22	0.40	
22	0.26	0.26	0.18	0.08	0.06	0.04	0.87	1.45	0.98	0.54	0.22	0.59	
23	0.26	0.24	0.18	0.12	0.06	0.02	1.05	1.48	0.91	0.52	0.21	0.82	
24	0.26	0.21	0.18	0.12	0.05	0.02	1.48	1.86	0.70	0.51	0.20	0.79	
25	0.23	0.19	0.15	0.10	0.05	0.02	1.55	2.02	0.68	0.50	0.22	0.83	
26	0.20	0.29	0.28	0.23	0.05	0.02	1.38	2.44	0.64	0.49	0.18	0.78	
27	0.20	0.27	0.45	0.20	0.08	0.02	1.37	2.58	0.95	0.48	0.17	0.61	
28	0.17	0.21	0.38	0.20	0.08	0.01	1.05	2.95	0.89	0.47	0.16	0.52	
29	0.66	0.18	0.38	0.15	0.07	0.01	0.85	3.08	0.90	0.45		0.60	
30	0.80	0.15	0.40	0.13	0.07	0.01	0.73	3.07	1.39	0.44		1.07	
31		0.15		0.12	0.08		0.58		1.68	0.43		1.03	
Mean	0.39	0.50	0.28	0.17	0.12	0.13	0.40	1.24	2.31	0.97	0.23	0.52	
Max	0.80	1.48	0.46	0.30	0.25	0.38	1.55	3.08	5.37	2.48	0.30	1.07	5.37
Min	0.17	0.15	0.12	0.08	0.05	0.01	0.01	0.38	0.64	0.43	0.16	0.24	0.01

Annual Max Momentary Gage Height	5.65	m. (MSL.) ,	at 20.00 Hours , on Dec 1, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-1.93	m. (MSL.)
Left Bank Elevation	8.93	m. (MSL.) ,			
Right Bank Elevation	8.94	m. (MSL.) ,	Drainage Are	1,720	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	28.50	39.50	6.20	11.45	5.50	11.10	2.35	15.30	357.30	71.00	12.50	10.40		
2	16.00	68.00	8.30	10.75	4.80	10.75	2.35	15.65	344.70	70.00	12.50	11.45		
3	14.60	68.00	7.60	10.75	4.80	10.05	2.35	26.50	248.60	105.35	12.15	11.10		
4	14.60	56.50	7.25	9.00	10.75	11.45	2.35	24.00	191.00	125.20	11.80	19.60		
5	16.00	37.50	7.25	9.00	10.05	15.30	2.35	22.00	133.00	107.65	11.45	20.40		
6	15.30	21.60	8.30	8.30	10.05	15.30	3.05	20.00	146.00	92.70	11.10	14.25		
7	12.15	18.00	7.95	10.75	9.00	14.60	3.40	20.00	157.20	78.40	10.75	14.25		
8	12.15	11.45	7.60	9.70	8.30	14.25	3.40	22.00	208.60	62.50	10.40	14.25		
9	19.20	10.75	12.15	9.00	8.30	11.80	3.40	24.00	215.00	51.50	10.05	14.25		
10	32.00	10.75	18.40	10.75	7.25	8.30	3.40	20.80	211.00	46.00	10.05	14.25		
11	24.00	20.00	18.40	12.50	6.55	6.20	3.40	36.00	187.00	44.00	9.70	16.80		
12	24.00	35.50	16.80	10.75	6.20	5.50	3.40	56.50	136.25	43.00	9.70	22.00		
13	23.20	39.00	15.30	7.25	6.20	4.80	3.40	49.00	158.60	41.50	9.70	22.00		
14	20.00	28.00	14.25	6.55	5.50	4.45	3.40	48.50	124.55	34.00	9.70	20.00		
15	11.80	17.20	14.25	6.55	5.50	4.10	4.45	44.50	114.15	30.50	9.70	22.40		
16	9.35	18.80	16.80	6.55	8.30	3.75	4.45	44.50	112.20	29.00	9.70	19.20		
17	8.30	16.00	15.65	6.20	9.00	3.75	4.45	34.00	110.90	26.50	9.70	19.20		
18	14.95	14.25	12.85	5.50	5.50	3.75	5.50	24.00	90.50	25.00	9.70	16.00		
19	9.35	13.20	10.75	5.50	4.45	3.40	7.25	34.00	66.50	22.80	9.70	14.25		
20	13.20	12.50	9.35	5.50	4.10	3.40	8.30	44.50	64.00	22.40	9.70	16.00		
21	12.50	11.80	9.35	4.80	4.10	3.40	17.20	66.00	61.50	22.00	9.70	16.00		
22	11.10	11.10	8.30	4.80	4.10	3.40	37.50	66.50	43.00	21.60	9.70	23.60		
23	11.10	10.40	8.30	6.20	4.10	2.70	46.50	68.00	39.50	20.80	9.35	35.00		
24	11.10	9.35	8.30	6.20	3.75	2.70	68.00	88.30	29.00	20.40	9.00	33.50		
25	10.05	8.65	7.25	5.50	3.75	2.70	71.50	97.10	28.00	20.00	9.70	35.50		
26	9.00	12.15	11.80	10.05	3.75	2.70	63.00	122.60	26.00	19.60	8.30	33.00		
27	9.00	11.45	18.00	9.00	4.80	2.70	62.50	131.70	41.50	19.20	7.95	24.50		
28	7.95	9.35	15.30	9.00	4.80	2.35	46.50	156.50	38.50	18.80	7.60	20.80		
29	27.00	8.30	15.30	7.25	4.45	2.35	36.50	166.00	39.00	18.00		24.00		
30	34.00	7.25	16.00	6.55	4.45	2.35	30.50	165.25	63.50	17.60		47.50		
31		7.25		6.20	4.80		23.20		78.40	17.20		45.50		
Total	481.45	663.55	353.30	247.85	186.95	193.35	579.30	1753.70	3864.95	1344.20	281.05	670.95	10620.60	CMSDAY
Mean	16.05	21.40	11.78	8.00	6.03	6.44	18.69	58.46	124.68	43.36	10.04	21.64	29.10	CMS
Max	34.00	68.00	18.40	12.50	10.75	15.30	71.50	166.00	357.30	125.20	12.50	47.50	357.30	CMS
Min	7.95	7.25	6.20	4.80	3.75	2.35	2.35	15.30	26.00	17.20	7.60	10.40	2.35	CMS
Runoff	41.60	57.33	30.53	21.41	16.15	16.71	50.05	151.52	333.93	116.14	24.28	57.97	917.62	MCM

Momentary Peak 382.50 CMS. at 5.65 m. (MSL.) at 20.00 Hours , on Dec 1, 2008

Runoff Yield 16.92 Liters/Second/Square KM. Momentary Peak Yield 222.38 Liters/Second/Square KM.

WATER YEAR : 2008

THALE SAP SONGKHLA

Khlong Ratthaphum at Ban Nasithong , Songkhla (X.67A)

Lat 07 - 06 - 50 N Long 100 - 12 - 15 E

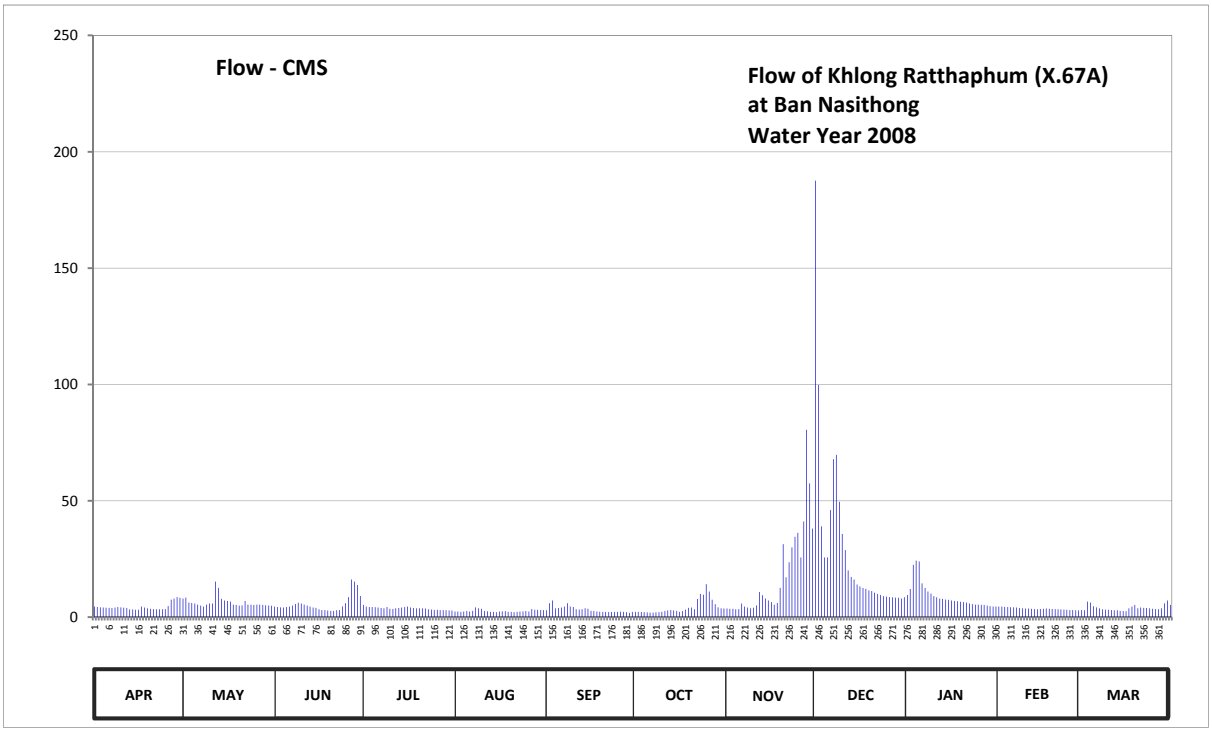
Location : on right bank at Ban Kampheang Phet.

	Ban Nasithong	**Amphoe** Ratthaphum	**Changwat** Songkhla
Drainge 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 Float	-		
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 27 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2007 to March 31, 2008

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.60	1.00	0.60	0.68	0.32	0.39	0.30	0.49	5.56	1.15	0.60	0.40	
2	0.58	1.04	0.58	0.60	0.32	0.77	0.30	0.48	4.48	1.41	0.60	0.39	
3	0.56	0.80	0.56	0.58	0.30	0.90	0.29	0.48	2.98	2.20	0.59	0.85	
4	0.55	0.78	0.55	0.58	0.32	0.50	0.28	0.45	2.38	2.30	0.58	0.80	
5	0.54	0.75	0.58	0.57	0.35	0.52	0.27	0.46	2.38	2.28	0.57	0.62	
6	0.53	0.70	0.60	0.55	0.32	0.55	0.26	0.75	3.23	1.64	0.56	0.56	
7	0.52	0.65	0.65	0.52	0.36	0.60	0.26	0.60	3.82	1.45	0.55	0.50	
8	0.55	0.60	0.73	0.50	0.56	0.77	0.27	0.55	3.86	1.30	0.52	0.45	
9	0.58	0.70	0.79	0.58	0.50	0.60	0.28	0.50	3.34	1.21	0.50	0.43	
10	0.56	0.75	0.75	0.48	0.48	0.58	0.30	0.54	2.85	1.10	0.49	0.42	
11	0.54	0.75	0.70	0.47	0.35	0.45	0.35	0.66	2.54	1.05	0.49	0.40	
12	0.52	1.70	0.65	0.50	0.33	0.43	0.38	1.28	2.04	1.00	0.48	0.39	
13	0.44	1.46	0.60	0.52	0.30	0.45	0.40	1.14	1.85	0.98	0.46	0.39	
14	0.44	0.98	0.55	0.55	0.30	0.50	0.38	1.00	1.77	0.95	0.45	0.36	
15	0.42	0.90	0.53	0.58	0.28	0.48	0.36	0.90	1.60	0.93	0.47	0.35	
16	0.42	0.88	0.45	0.60	0.32	0.36	0.30	0.82	1.52	0.90	0.48	0.34	
17	0.60	0.85	0.40	0.55	0.33	0.35	0.35	0.69	1.45	0.88	0.49	0.50	
18	0.55	0.70	0.40	0.52	0.34	0.32	0.43	0.78	1.42	0.86	0.48	0.60	
19	0.50	0.68	0.37	0.50	0.30	0.31	0.53	1.46	1.35	0.84	0.47	0.68	
20	0.48	0.65	0.36	0.50	0.30	0.30	0.55	2.66	1.32	0.82	0.46	0.50	
21	0.46	0.66	0.36	0.50	0.28	0.30	0.45	1.84	1.25	0.80	0.45	0.55	
22	0.45	0.88	0.39	0.49	0.30	0.29	0.97	2.26	1.20	0.75	0.44	0.53	
23	0.45	0.70	0.40	0.45	0.32	0.29	1.20	2.60	1.15	0.72	0.43	0.52	
24	0.45	0.69	0.61	0.43	0.33	0.30	1.16	2.80	1.10	0.70	0.42	0.50	
25	0.46	0.68	0.77	0.41	0.35	0.30	1.61	2.87	1.08	0.70	0.40	0.48	
26	0.63	0.70	1.06	0.42	0.32	0.31	1.30	2.38	1.06	0.69	0.40	0.46	
27	0.94	0.70	1.77	0.40	0.46	0.30	0.94	3.06	1.05	0.68	0.39	0.45	
28	1.00	0.68	1.70	0.40	0.42	0.28	0.72	4.10	1.04	0.65	0.38	0.50	
29	1.06	0.67	1.58	0.39	0.42	0.25	0.56	3.56	1.03	0.62		0.76	
30	1.03	0.65	1.11	0.38	0.40	0.30	0.50	2.94	1.00	0.60		0.90	
31		0.64		0.37	0.40		0.49		1.05	0.60		0.68	
Mean	0.58	0.81	0.70	0.50	0.35	0.44	0.54	1.50	2.06	1.06	0.49	0.52	
Max	1.06	1.70	1.77	0.68	0.56	0.90	1.61	4.10	5.56	2.30	0.60	0.90	5.56
Min	0.42	0.60	0.36	0.37	0.28	0.25	0.26	0.45	1.00	0.60	0.38	0.34	0.25

Annual Max Momentary Gage Height	5.70	m. (A.D.) ,	at 06.00 Hours , on Dec 1, 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	-0.35	m. (A.D.)
Left Bank Elevation	6.28	m. (A.D.) ,			
Right Bank Elevation	6.29	m. (A.D.) ,	Drainage Are	248	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.50	8.00	4.50	5.20	2.40	2.93	2.25	3.68	187.60	9.50	4.50	3.00		
2	4.35	8.40	4.35	4.50	2.40	5.99	2.25	3.60	99.80	12.10	4.50	2.93		
3	4.20	6.25	4.20	4.35	2.25	7.13	2.18	3.60	39.00	22.50	4.43	6.69		
4	4.13	6.08	4.13	4.35	2.40	3.75	2.10	3.38	25.65	24.25	4.35	6.25		
5	4.05	5.81	4.35	4.28	2.63	3.90	2.03	3.45	25.65	23.90	4.28	4.68		
6	3.98	5.38	4.50	4.13	2.40	4.13	1.95	5.81	45.98	14.50	4.20	4.20		
7	3.90	4.94	4.94	3.90	2.70	4.50	1.95	4.50	67.90	12.50	4.13	3.75		
8	4.13	4.50	5.64	3.75	4.20	5.99	2.03	4.13	69.70	11.00	3.90	3.38		
9	4.35	5.38	6.16	4.35	3.75	4.50	2.10	3.75	49.55	10.10	3.75	3.23		
10	4.20	5.81	5.81	3.60	3.60	4.35	2.25	4.05	35.75	9.00	3.68	3.15		
11	4.05	5.81	5.38	3.53	2.63	3.38	2.63	5.03	28.80	8.50	3.68	3.00		
12	3.90	15.25	4.94	3.75	2.48	3.23	2.85	10.80	20.10	8.00	3.60	2.93		
13	3.30	12.60	4.50	3.90	2.25	3.38	3.00	9.40	17.25	7.83	3.45	2.93		
14	3.30	7.83	4.13	4.13	2.25	3.75	2.85	8.00	16.13	7.56	3.38	2.70		
15	3.15	7.13	3.98	4.35	2.10	3.60	2.70	7.13	14.00	7.39	3.53	2.63		
16	3.15	6.95	3.38	4.50	2.40	2.70	2.25	6.43	13.20	7.13	3.60	2.55		
17	4.50	6.69	3.00	4.13	2.48	2.63	2.63	5.29	12.50	6.95	3.68	3.75		
18	4.13	5.38	3.00	3.90	2.55	2.40	3.23	6.08	12.20	6.78	3.60	4.50		
19	3.75	5.20	2.78	3.75	2.25	2.33	3.98	12.60	11.50	6.60	3.53	5.20		
20	3.60	4.94	2.70	3.75	2.25	2.25	4.13	31.35	11.20	6.43	3.45	3.75		
21	3.45	5.03	2.70	3.75	2.10	2.25	3.38	17.10	10.50	6.25	3.38	4.13		
22	3.38	6.95	2.93	3.68	2.25	2.18	7.74	23.55	10.00	5.81	3.30	3.98		
23	3.38	5.38	3.00	3.38	2.40	2.18	10.00	30.00	9.50	5.55	3.23	3.90		
24	3.38	5.29	4.59	3.23	2.48	2.25	9.60	34.50	9.00	5.38	3.15	3.75		
25	3.45	5.20	5.99	3.08	2.63	2.25	14.13	36.25	8.80	5.38	3.00	3.60		
26	4.76	5.38	8.60	3.15	2.40	2.33	11.00	25.65	8.60	5.29	3.00	3.45		
27	7.48	5.38	16.13	3.00	3.45	2.25	7.48	41.15	8.50	5.20	2.93	3.38		
28	8.00	5.20	15.25	3.00	3.15	2.10	5.55	80.50	8.40	4.94	2.85	3.75		
29	8.60	5.11	13.80	2.93	3.15	1.88	4.20	57.50	8.30	4.68		5.90		
30	8.30	4.94	9.10	2.85	3.00	2.25	3.75	38.00	8.00	4.50		7.13		
31		4.85		2.78	3.00		3.68		8.50	4.50		5.20		
Total	132.80	197.04	168.46	116.93	82.38	98.74	131.85	526.26	901.56	280.00	102.06	123.37	2861.45	CMSDAY
Mean	4.43	6.36	5.62	3.77	2.66	3.29	4.25	17.54	29.08	9.03	3.65	3.98	7.84	CMS
Max	8.60	15.25	16.13	5.20	4.20	7.13	14.13	80.50	187.60	24.25	4.50	7.13	187.60	CMS
Min	3.15	4.50	2.70	2.78	2.10	1.88	1.95	3.38	8.00	4.50	2.85	2.55	1.88	CMS
Runoff	11.47	17.02	14.55	10.10	7.12	8.53	11.39	45.47	77.89	24.19	8.82	10.66	247.23	MCM

Momentary Peak 205.00 CMS. at 5.70 m. (A.D.) at 06.00 Hours , on Dec 1, 2008

Runoff Yield 31.52 Liters/Second/Square KM. Momentary Peak Yield 824.12 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge 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 mean of 5 readings
Period of Available Gage Records	1967 to date
Rating Operation	
Period of Rating	1967 - 1972 , 1983 to date
Rated by Float	-
Rated by Current Meter	1967 - 1972 , 1983 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records good. Flow regulated by Tha Khae Weir. Stage-discharge relation defined by 27 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

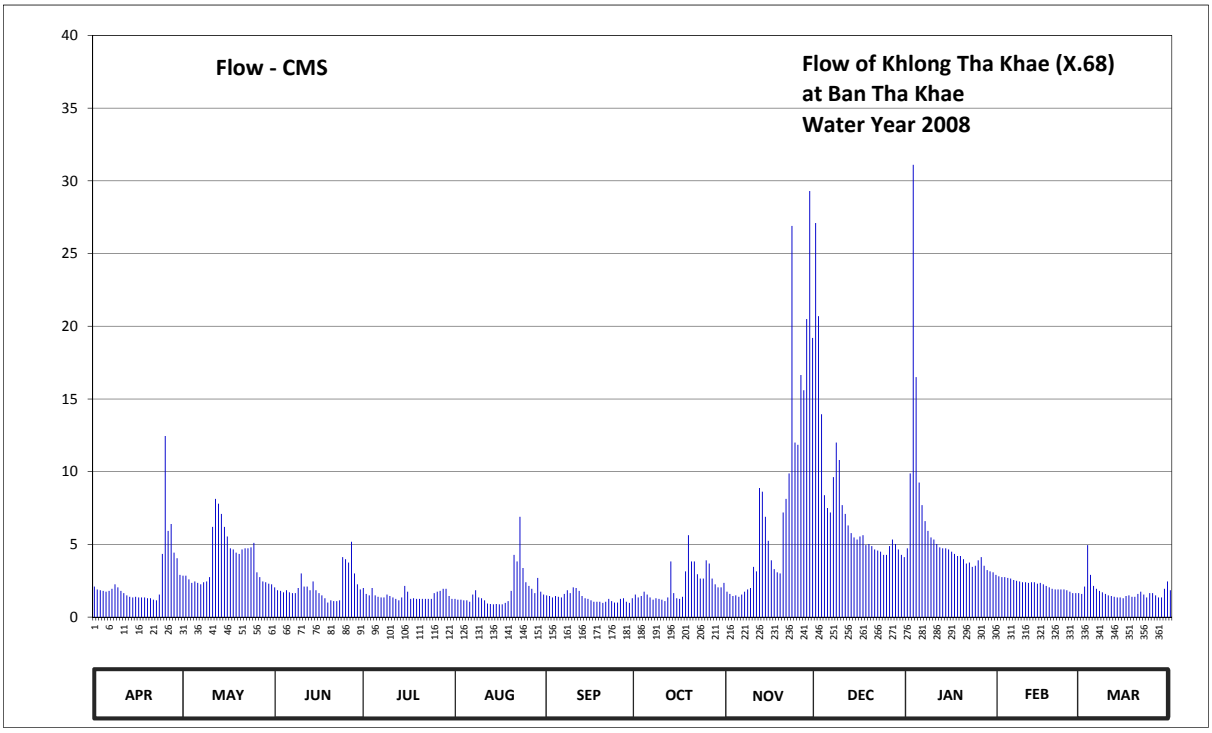
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.02	13.17	13.01	13.00	12.85	12.90	12.91	12.95	14.98	13.43	13.16	12.92	
2	12.98	13.17	12.97	12.92	12.84	12.89	12.87	12.92	14.66	13.95	13.15	13.02	
3	12.97	13.12	12.96	12.90	12.84	12.87	12.89	12.89	14.23	15.16	13.15	13.46	
4	12.96	13.07	12.94	13.00	12.83	12.89	12.95	12.90	13.83	14.40	13.14	13.18	
5	12.95	13.09	12.97	12.90	12.83	12.88	12.91	12.88	13.75	13.90	13.13	13.03	
6	12.96	13.07	12.94	12.88	12.81	12.87	12.87	12.91	13.72	13.77	13.11	12.99	
7	12.99	13.05	12.93	12.87	12.91	12.92	12.84	12.95	13.93	13.66	13.10	12.96	
8	13.05	13.08	12.93	12.87	12.97	12.97	12.86	12.98	14.10	13.59	13.09	12.94	
9	13.01	13.09	13.00	12.91	12.87	12.93	12.85	13.00	14.02	13.53	13.08	12.92	
10	12.96	13.15	13.20	12.89	12.86	13.01	12.84	13.26	13.77	13.51	13.08	12.90	
11	12.93	13.62	13.02	12.87	12.83	13.00	12.82	13.22	13.71	13.47	13.07	12.89	
12	12.90	13.81	13.02	12.85	12.77	12.96	12.87	13.87	13.63	13.44	13.08	12.88	
13	12.88	13.78	12.97	12.83	12.76	12.89	13.31	13.85	13.57	13.43	13.08	12.87	
14	12.87	13.71	13.09	12.87	12.75	12.86	12.93	13.69	13.53	13.43	13.06	12.87	
15	12.88	13.62	12.97	13.03	12.76	12.85	12.86	13.50	13.51	13.42	13.07	12.86	
16	12.87	13.54	12.93	12.95	12.75	12.83	12.85	13.32	13.54	13.40	13.05	12.89	
17	12.87	13.43	12.90	12.85	12.75	12.81	12.88	13.24	13.55	13.38	13.03	12.90	
18	12.87	13.42	12.86	12.86	12.79	12.81	13.22	13.21	13.46	13.36	13.01	12.88	
19	12.86	13.39	12.80	12.85	12.82	12.81	13.55	13.20	13.47	13.36	12.99	12.88	
20	12.86	13.38	12.83	12.85	12.96	12.79	13.31	13.72	13.45	13.33	12.98	12.92	
21	12.84	13.42	12.82	12.85	13.37	12.81	13.31	13.81	13.42	13.29	12.98	12.95	
22	12.83	13.43	12.82	12.85	13.31	12.85	13.19	13.95	13.41	13.30	12.98	12.91	
23	12.91	13.43	12.83	12.85	13.69	12.82	13.13	14.97	13.40	13.26	12.98	12.87	
24	13.38	13.44	13.35	12.85	13.25	12.80	13.13	14.10	13.37	13.27	12.97	12.93	
25	14.13	13.48	13.33	12.93	13.08	12.80	13.32	14.09	13.37	13.32	12.95	12.93	
26	13.59	13.21	13.30	12.95	13.03	12.85	13.29	14.41	13.45	13.35	12.93	12.90	
27	13.64	13.15	13.49	12.96	12.99	12.86	13.13	14.34	13.51	13.27	12.93	12.87	
28	13.39	13.09	13.20	12.99	12.93	12.81	13.05	14.65	13.47	13.23	12.93	12.87	
29	13.34	13.08	13.05	12.99	13.14	12.79	13.01	15.08	13.42	13.22		12.99	
30	13.18	13.06	12.98	12.89	12.95	12.86	13.01	14.58	13.37	13.21		13.09	
31		13.05		12.85	12.91		13.07		13.35	13.18		12.97	
Mean	13.06	13.31	13.01	12.90	12.94	12.87	13.03	13.61	13.68	13.51	13.05	12.95	
Max	14.13	13.81	13.49	13.03	13.69	13.01	13.55	15.08	14.98	15.16	13.16	13.46	15.16
Min	12.83	13.05	12.80	12.83	12.75	12.79	12.82	12.88	13.35	13.18	12.93	12.86	12.75

Annual Max Momentary Gage Height 15.33 m. (MSL.) , at 09.00 Hours , on Jan 3, 2009

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 11.23 m. (MSL.)

Left Bank Elevation 18.34 m. (MSL.) ,

Right Bank Elevation 18.58 m. (MSL.) , Drainage Are 302 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.10	2.85	2.05	2.00	1.25	1.50	1.55	1.75	27.10	4.73	2.80	1.60		
2	1.90	2.85	1.85	1.60	1.20	1.45	1.35	1.60	20.70	9.88	2.75	2.10		
3	1.85	2.60	1.80	1.50	1.20	1.35	1.45	1.45	13.95	31.10	2.75	4.95		
4	1.80	2.35	1.70	2.00	1.15	1.45	1.75	1.50	8.38	16.50	2.70	2.90		
5	1.75	2.45	1.85	1.50	1.15	1.40	1.55	1.40	7.50	9.25	2.65	2.15		
6	1.80	2.35	1.70	1.40	1.05	1.35	1.35	1.55	7.20	7.70	2.55	1.95		
7	1.95	2.25	1.65	1.35	1.55	1.60	1.20	1.75	9.63	6.60	2.50	1.80		
8	2.25	2.40	1.65	1.35	1.85	1.85	1.30	1.90	12.00	5.93	2.45	1.70		
9	2.05	2.45	2.00	1.55	1.35	1.65	1.25	2.00	10.80	5.48	2.40	1.60		
10	1.80	2.75	3.00	1.45	1.30	2.05	1.20	3.45	7.70	5.33	2.40	1.50		
11	1.65	6.20	2.10	1.35	1.15	2.00	1.10	3.15	7.10	5.03	2.35	1.45		
12	1.50	8.13	2.10	1.25	0.93	1.80	1.35	8.88	6.30	4.80	2.40	1.40		
13	1.40	7.80	1.85	1.15	0.90	1.45	3.83	8.63	5.78	4.73	2.40	1.35		
14	1.35	7.10	2.45	1.35	0.88	1.30	1.65	6.90	5.48	4.73	2.30	1.35		
15	1.40	6.20	1.85	2.15	0.90	1.25	1.30	5.25	5.33	4.65	2.35	1.30		
16	1.35	5.55	1.65	1.75	0.88	1.15	1.25	3.90	5.55	4.50	2.25	1.45		
17	1.35	4.73	1.50	1.25	0.88	1.05	1.40	3.30	5.63	4.35	2.15	1.50		
18	1.35	4.65	1.30	1.30	0.98	1.05	3.15	3.08	4.95	4.20	2.05	1.40		
19	1.30	4.43	1.00	1.25	1.10	1.05	5.63	3.00	5.03	4.20	1.95	1.40		
20	1.30	4.35	1.15	1.25	1.80	0.98	3.83	7.20	4.88	3.98	1.90	1.60		
21	1.20	4.65	1.10	1.25	4.28	1.05	3.83	8.13	4.65	3.68	1.90	1.75		
22	1.15	4.73	1.10	1.25	3.83	1.25	2.95	9.88	4.58	3.75	1.90	1.55		
23	1.55	4.73	1.15	1.25	6.90	1.10	2.65	26.90	4.50	3.45	1.90	1.35		
24	4.35	4.80	4.13	1.25	3.38	1.00	2.65	12.00	4.28	3.53	1.85	1.65		
25	12.45	5.10	3.98	1.65	2.40	1.00	3.90	11.85	4.28	3.90	1.75	1.65		
26	5.93	3.08	3.75	1.75	2.15	1.25	3.68	16.65	4.88	4.13	1.65	1.50		
27	6.40	2.75	5.18	1.80	1.95	1.30	2.65	15.60	5.33	3.53	1.65	1.35		
28	4.43	2.45	3.00	1.95	1.65	1.05	2.25	20.50	5.03	3.23	1.65	1.35		
29	4.05	2.40	2.25	1.95	2.70	0.98	2.05	29.30	4.65	3.15		1.95		
30	2.90	2.30	1.90	1.45	1.75	1.30	2.05	19.20	4.28	3.08		2.45		
31		2.25		1.25	1.55		2.35		4.13	2.90		1.85		
Total	77.61	123.68	63.74	46.55	55.99	40.01	69.45	241.65	231.58	186.00	62.30	54.85	1253.41	CMSDAY
Mean	2.59	3.99	2.12	1.50	1.81	1.33	2.24	8.05	7.47	6.00	2.22	1.77	3.43	CMS
Max	12.45	8.13	5.18	2.15	6.90	2.05	5.63	29.30	27.10	31.10	2.80	4.95	31.10	CMS
Min	1.15	2.25	1.00	1.15	0.88	0.98	1.10	1.40	4.13	2.90	1.65	1.30	0.88	CMS
Runoff	6.71	10.69	5.51	4.02	4.84	3.46	6.00	20.88	20.01	16.07	5.38	4.74	108.29	MCM

Momentary Peak 35.58 CMS. at 15.33 m. (MSL.) at 09.00 Hours , on Jan 3, 2009

Runoff Yield 11.36 Liters/Second/Square KM. Momentary Peak Yield 117.71 Liters/Second/Square KM.

WATER YEAR : 2008

THALE SAP SONGKHLA

Khlong Tam at Ban Khuan Lang , Songkhla (X.71B)

Lat 06 - 59 - 15 N Long 100 - 25 - 27 E

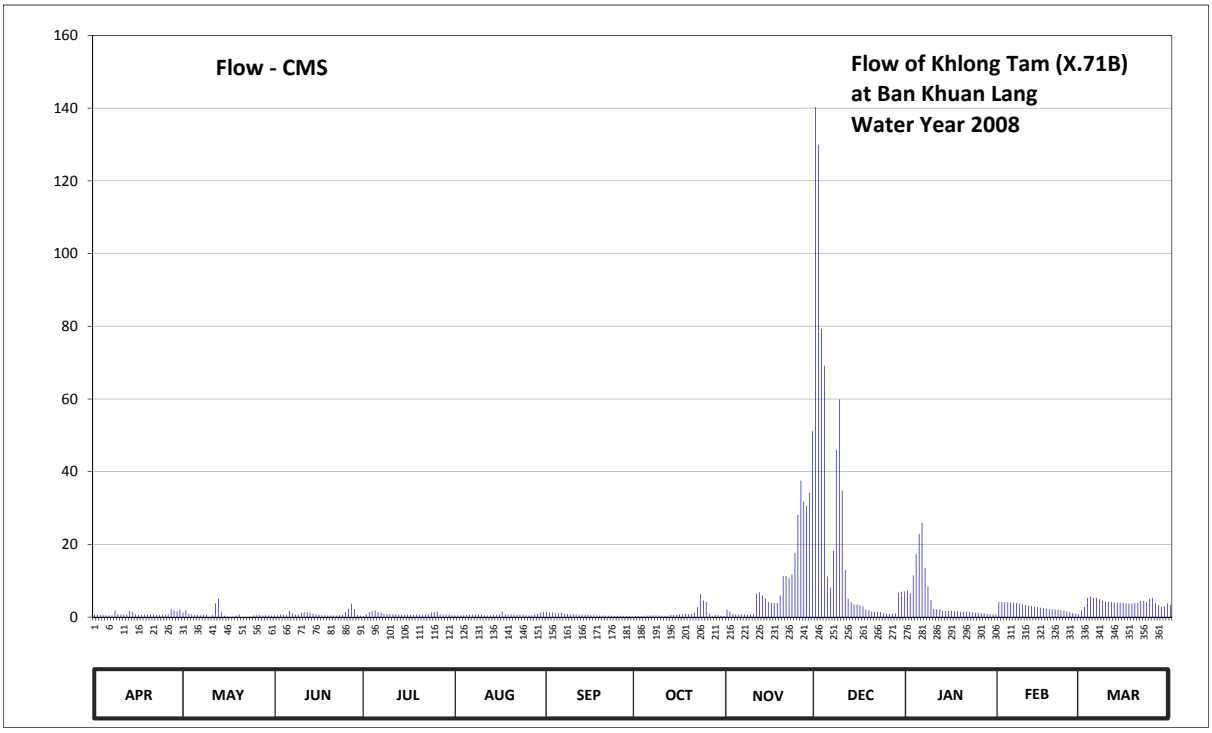
Location : on left bank at the bridge.

	Ban Khuan Lang	**Amphoe** Hat Yai	**Changwat** Songkhla
Drainge Area	148 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**	+11.204 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 Float	-		
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 25 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.75	5.88	5.63	5.48	5.63	5.90	5.53	5.09	9.78	6.30	5.64	5.05	
2	5.70	5.99	5.65	5.77	5.65	5.87	5.53	4.93	9.66	6.16	5.63	5.29	
3	5.68	5.81	5.72	5.90	5.65	5.87	5.52	4.71	8.95	6.75	5.62	5.92	
4	5.68	5.75	5.72	5.95	5.67	5.85	5.55	4.65	8.76	7.16	5.62	6.02	
5	5.67	5.73	5.70	5.97	5.70	5.85	5.59	4.65	6.72	7.44	5.61	5.93	
6	5.67	5.73	5.97	5.90	5.72	5.86	5.64	4.65	6.41	7.58	5.60	5.92	
7	5.65	5.67	5.82	5.87	5.75	5.82	5.63	4.65	7.21	6.91	5.57	5.85	
8	5.97	5.72	5.73	5.81	5.75	5.81	5.63	4.65	8.25	6.45	5.52	5.73	
9	5.79	5.71	5.75	5.80	5.77	5.80	5.62	4.66	8.57	5.76	5.48	5.67	
10	5.75	5.39	5.87	5.80	5.77	5.80	5.60	4.68	7.92	5.15	5.43	5.65	
11	5.73	5.67	5.90	5.80	5.64	5.78	5.57	6.14	6.87	5.12	5.39	5.63	
12	5.73	6.27	5.90	5.77	5.63	5.77	5.55	6.20	5.86	5.10	5.36	5.60	
13	5.95	6.43	5.87	5.75	5.65	5.75	5.70	6.06	5.62	4.97	5.33	5.59	
14	5.90	5.89	5.83	5.75	5.72	5.71	5.71	5.89	5.48	4.96	5.30	5.59	
15	5.79	5.60	5.78	5.73	5.76	5.70	5.75	5.64	5.46	4.96	5.25	5.58	
16	5.70	5.41	5.73	5.72	5.80	5.67	5.76	5.58	5.41	4.96	5.20	5.53	
17	5.69	5.25	5.67	5.72	5.92	5.66	5.80	5.57	5.32	4.95	5.16	5.53	
18	5.75	5.40	5.66	5.71	5.77	5.65	5.82	5.57	5.08	4.93	5.13	5.53	
19	5.77	5.62	5.64	5.70	5.75	5.63	5.79	6.06	5.05	4.90	5.12	5.57	
20	5.76	5.75	5.64	5.70	5.75	5.62	5.81	6.73	4.90	4.90	5.11	5.57	
21	5.74	5.32	5.62	5.72	5.73	5.60	5.87	6.73	4.90	4.90	5.08	5.72	
22	5.69	5.32	5.62	5.75	5.71	5.59	6.12	6.67	4.90	4.90	5.03	5.72	
23	5.70	5.31	5.67	5.77	5.70	5.59	6.56	6.77	4.85	4.85	4.98	5.66	
24	5.72	5.40	5.72	5.87	5.70	5.57	6.37	7.18	4.75	4.80	4.92	5.87	
25	5.75	5.65	5.90	5.90	5.67	5.55	6.33	7.67	4.70	4.80	4.85	5.93	
26	5.80	5.67	6.05	5.93	5.63	5.55	5.81	8.01	4.68	4.75	4.76	5.57	
27	6.03	5.68	6.26	5.78	5.65	5.52	5.49	7.82	4.72	4.73	4.71	5.42	
28	5.97	5.65	6.03	5.77	5.77	5.50	5.68	7.77	4.73	4.67	4.65	5.33	
29	5.94	5.63	5.67	5.76	5.81	5.49	5.68	7.90	6.18	4.66		5.35	
30	6.02	5.62	5.60	5.75	5.87	5.46	5.59	8.37	6.23	4.65		5.55	
31		5.62		5.67	5.90		5.54		6.25	4.65		5.44	
Mean	5.78	5.66	5.78	5.78	5.73	5.69	5.75	6.06	6.26	5.41	5.25	5.62	
Max	6.03	6.43	6.26	5.97	5.92	5.90	6.56	8.37	9.78	7.58	5.64	6.02	9.78
Min	5.65	5.25	5.60	5.48	5.63	5.46	5.49	4.65	4.68	4.65	4.65	5.05	4.65

Annual Max Momentary Gage Height	9.98	m. (MSL.) ,	at 18.00 Hours , on Dec 1, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	3.98	m. (MSL.)
Left Bank Elevation	11.22	m. (MSL.) ,			
Right Bank Elevation	11.38	m. (MSL.) ,	Drainage Are	148	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.70	1.28	0.46	0.22	0.46	1.40	0.30	2.07	140.28	7.40	4.16	1.95		
2	0.60	1.94	0.50	0.74	0.50	1.22	0.30	1.59	129.96	6.56	4.12	2.76		
3	0.56	0.86	0.64	1.40	0.50	1.22	0.28	0.93	79.30	11.50	4.08	5.28		
4	0.56	0.70	0.64	1.70	0.54	1.10	0.33	0.75	69.20	17.36	4.08	5.72		
5	0.54	0.66	0.60	1.82	0.60	1.10	0.39	0.75	11.20	22.88	4.04	5.32		
6	0.54	0.66	1.82	1.40	0.64	1.16	0.48	0.75	8.10	25.96	4.00	5.28		
7	0.50	0.54	0.92	1.22	0.70	0.92	0.46	0.75	18.20	13.54	3.88	5.00		
8	1.82	0.64	0.66	0.86	0.70	0.86	0.46	0.75	46.10	8.50	3.68	4.52		
9	0.78	0.62	0.70	0.80	0.74	0.80	0.44	0.78	59.88	4.64	3.52	4.28		
10	0.70	0.10	1.22	0.80	0.74	0.80	0.40	0.84	34.80	2.25	3.32	4.20		
11	0.66	0.54	1.40	0.80	0.48	0.76	0.36	6.44	12.98	2.16	3.16	4.12		
12	0.66	3.76	1.40	0.74	0.46	0.74	0.33	6.80	5.04	2.10	3.04	4.00		
13	1.70	5.10	1.22	0.70	0.50	0.70	0.60	5.96	4.08	1.71	2.92	3.96		
14	1.40	1.34	0.98	0.70	0.64	0.62	0.62	5.16	3.52	1.68	2.80	3.96		
15	0.78	0.40	0.76	0.66	0.72	0.60	0.70	4.16	3.44	1.68	2.60	3.92		
16	0.60	0.12	0.66	0.64	0.80	0.54	0.72	3.92	3.24	1.68	2.40	3.72		
17	0.58	0.03	0.54	0.64	1.52	0.52	0.80	3.88	2.88	1.65	2.28	3.72		
18	0.70	0.10	0.52	0.62	0.74	0.50	0.92	3.88	2.04	1.59	2.19	3.72		
19	0.74	0.44	0.48	0.60	0.70	0.46	0.78	5.96	1.95	1.50	2.16	3.88		
20	0.72	0.70	0.48	0.60	0.70	0.44	0.86	11.30	1.50	1.50	2.13	3.88		
21	0.68	0.06	0.44	0.64	0.66	0.40	1.22	11.30	1.50	1.50	2.04	4.48		
22	0.58	0.06	0.44	0.70	0.62	0.39	2.72	10.70	1.50	1.50	1.89	4.48		
23	0.60	0.06	0.54	0.74	0.60	0.39	6.40	11.70	1.35	1.35	1.74	4.24		
24	0.64	0.10	0.64	1.22	0.60	0.36	4.56	17.68	1.05	1.20	1.56	5.08		
25	0.70	0.50	1.40	1.40	0.54	0.33	4.24	28.08	0.90	1.20	1.35	5.32		
26	0.80	0.54	2.30	1.58	0.46	0.33	0.86	37.54	0.84	1.05	1.08	3.88		
27	2.18	0.56	3.68	0.76	0.50	0.28	0.24	31.80	0.96	0.99	0.93	3.28		
28	1.82	0.50	2.18	0.74	0.74	0.25	0.56	30.48	0.99	0.81	0.75	2.92		
29	1.64	0.46	0.54	0.72	0.86	0.24	0.56	34.20	6.68	0.78		3.00		
30	2.12	0.44	0.40	0.70	1.22	0.19	0.39	51.14	6.98	0.75		3.80		
31		0.44		0.54	1.40		0.31		7.10	0.75		3.36		
Total	27.60	24.25	29.16	27.40	21.58	19.62	32.59	332.04	667.54	149.72	75.90	127.03	1534.43	CMSDAY
Mean	0.92	0.78	0.97	0.88	0.70	0.65	1.05	11.07	21.53	4.83	2.71	4.10	4.20	CMS
Max	2.18	5.10	3.68	1.82	1.52	1.40	6.40	51.14	140.28	25.96	4.16	5.72	140.28	CMS
Min	0.50	0.03	0.40	0.22	0.46	0.19	0.24	0.75	0.84	0.75	0.75	1.95	0.03	CMS
Runoff	2.38	2.10	2.52	2.37	1.86	1.70	2.82	28.69	57.68	12.94	6.56	10.98	132.57	MCM

Momentary Peak 158.20 CMS. at 9.98 m. (MSL.) at 18.00 Hours , on Dec 1, 2008

Runoff Yield 21.77 Liters/Second/Square KM. Momentary Peak Yield 819.22 Liters/Second/Square KM.

WATER YEAR : 2008

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

Drainge Area	1,547 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 20 meters from the top staff gage. **Elevation** +11.254 m. (MSL.)
Gage Reading Frequency	Recording.
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings
Period of Available Gage Records	1971 to date
Rating Operation	
Period of Rating	1971 - 1972 , 1979 to date
Rated by Float	-
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 36 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

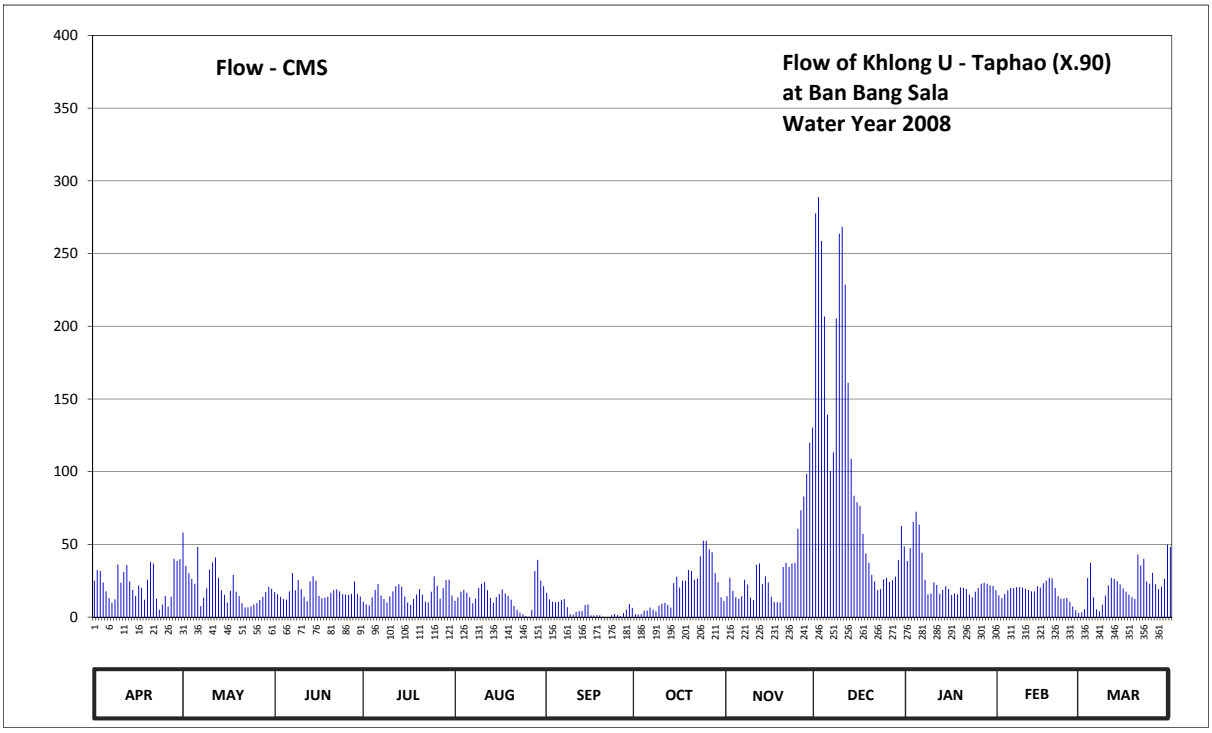
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	3.17	4.07	2.89	2.58	2.61	2.87	2.02	2.77	7.78	3.59	2.80	2.14	
2	3.41	3.49	2.83	2.49	2.73	2.66	2.01	3.23	7.94	3.81	2.70	2.29	
3	3.39	3.34	2.75	2.45	2.90	2.58	2.02	2.92	7.51	4.23	2.84	3.23	
4	3.13	3.21	2.67	2.73	2.95	2.56	2.22	2.73	6.75	4.37	2.94	3.55	
5	2.91	3.10	2.65	2.95	2.87	2.58	2.23	2.68	5.64	4.19	3.00	2.73	
6	2.70	3.83	2.91	3.09	2.73	2.63	2.37	2.77	4.93	3.73	3.00	2.29	
7	2.54	2.43	3.34	2.79	2.52	2.67	2.27	3.19	5.17	3.19	3.02	2.20	
8	2.66	2.72	2.94	2.67	2.69	2.39	2.20	3.08	6.73	2.83	3.02	2.48	
9	3.52	2.99	3.18	2.55	3.00	2.02	2.44	2.72	7.58	2.85	3.01	2.79	
10	3.12	3.42	2.97	2.76	3.10	1.99	2.51	2.64	7.65	3.13	2.98	3.06	
11	3.37	3.56	2.75	2.91	3.14	2.17	2.54	3.51	7.08	3.07	2.95	3.23	
12	3.51	3.65	2.60	3.04	2.94	2.21	2.47	3.54	6.02	2.84	2.91	3.21	
13	3.15	3.23	3.15	3.09	2.71	2.22	2.37	3.09	5.09	2.95	2.91	3.16	
14	2.95	2.94	3.27	3.03	2.54	2.46	3.11	3.27	4.59	3.04	3.04	3.08	
15	2.77	2.81	3.17	2.76	2.74	2.48	3.26	3.13	4.50	2.97	3.01	2.99	
16	3.06	2.55	2.78	2.55	2.84	1.93	3.01	2.75	4.45	2.81	3.11	2.90	
17	3.00	2.92	2.70	2.47	2.96	1.93	3.17	2.57	4.05	2.85	3.17	2.82	
18	2.65	3.30	2.72	2.67	2.85	1.94	3.17	2.56	3.72	2.83	3.23	2.74	
19	3.19	2.90	2.75	2.82	2.78	1.95	3.41	2.55	3.55	3.01	3.22	2.67	
20	3.57	2.77	2.87	2.97	2.65	1.84	3.39	3.47	3.30	3.00	3.00	3.70	
21	3.54	2.53	2.94	2.82	2.43	1.77	3.19	3.55	3.15	2.97	2.77	3.50	
22	2.69	2.38	2.96	2.58	2.26	1.75	3.22	3.47	2.94	2.82	2.68	3.63	
23	2.27	2.38	2.91	2.55	2.13	1.95	3.67	3.54	2.97	2.73	2.69	3.15	
24	2.48	2.42	2.83	2.90	2.02	2.03	3.94	3.55	3.20	2.90	2.71	3.10	
25	2.78	2.48	2.82	3.27	1.90	1.95	3.94	4.13	3.23	3.00	2.58	3.35	
26	2.41	2.53	2.81	3.05	1.84	1.87	3.79	4.39	3.14	3.10	2.41	3.09	
27	2.75	2.64	2.84	2.68	2.26	2.09	3.74	4.58	3.18	3.12	2.25	2.97	
28	3.63	2.75	3.15	2.99	3.39	2.28	3.34	4.89	3.26	3.10	2.10	3.03	
29	3.59	2.89	2.84	3.18	3.61	2.50	3.13	5.29	3.61	3.06		3.21	
30	3.62	3.03	2.76	3.19	3.17	2.36	2.73	5.48	4.17	3.05		3.87	
31		2.98		2.79	3.04		2.60		3.84	2.94		3.83	
Mean	3.05	2.98	2.89	2.82	2.72	2.22	2.89	3.40	4.86	3.16	2.86	3.03	
Max	3.63	4.07	3.34	3.27	3.61	2.87	3.94	5.48	7.94	4.37	3.23	3.87	7.94
Min	2.27	2.38	2.60	2.45	1.84	1.75	2.01	2.55	2.94	2.73	2.10	2.14	1.75

Annual Max Momentary Gage Height 7.97 m. (MSL.) , at 06.00 Hours , on Dec 2, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -0.76 m. (MSL.)

Left Bank Elevation 11.04 m. (MSL.) ,

Right Bank Elevation 11.94 m. (MSL.) , Drainage Are 1,547 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	25.10	58.15	17.25	10.60	11.20	16.75	2.02	14.40	277.60	38.65	15.00	3.34		
2	32.35	35.15	15.75	8.80	13.60	12.20	1.91	26.90	288.80	47.40	13.00	5.35		
3	31.70	30.20	14.00	8.00	17.50	10.60	2.02	18.00	258.70	65.50	16.00	26.90		
4	23.90	26.30	12.40	13.60	18.75	10.20	4.30	13.60	206.75	72.50	18.50	37.25		
5	17.75	23.00	12.00	18.75	16.75	10.60	4.45	12.60	139.20	63.55	20.00	13.60		
6	13.00	48.20	17.75	22.70	13.60	11.60	6.55	14.40	100.50	44.20	20.00	5.35		
7	9.80	7.60	30.20	14.80	9.40	12.40	5.05	25.70	113.35	25.70	20.60	4.00		
8	12.20	13.40	18.50	12.40	12.80	6.85	4.00	22.40	205.45	15.75	20.60	8.60		
9	36.20	19.75	25.40	10.00	20.00	2.02	7.80	13.40	263.60	16.25	20.30	14.80		
10	23.60	32.70	19.25	14.20	23.00	1.71	9.20	11.80	268.50	23.90	19.50	21.80		
11	31.10	37.60	14.00	17.75	24.20	3.67	9.80	35.85	228.60	22.10	18.75	26.90		
12	35.85	41.00	11.00	21.20	18.50	4.15	8.40	36.90	161.20	16.00	17.75	26.30		
13	24.50	26.90	24.50	22.70	13.20	4.30	6.55	22.70	108.95	18.75	17.75	24.80		
14	18.75	18.50	28.10	20.90	9.80	8.20	23.30	28.10	83.50	21.20	21.20	22.40		
15	14.40	15.25	25.10	14.20	13.80	8.60	27.80	23.90	79.00	19.25	20.30	19.75		
16	21.80	10.00	14.60	10.00	16.00	1.17	20.30	14.00	76.50	15.25	23.30	17.50		
17	20.00	18.00	13.00	8.40	19.00	1.17	25.10	10.40	57.25	16.25	25.10	15.50		
18	12.00	29.00	13.40	12.40	16.25	1.26	25.10	10.20	43.80	15.75	26.90	13.80		
19	25.70	17.50	14.00	15.50	14.60	1.35	32.35	10.00	37.25	20.30	26.60	12.40		
20	37.95	14.40	16.75	19.25	12.00	0.36	31.70	34.45	29.00	20.00	20.00	43.00		
21	36.90	9.60	18.50	15.50	7.60	0.00	25.70	37.25	24.50	19.25	14.40	35.50		
22	12.80	6.70	19.00	10.60	4.90	0.00	26.60	34.45	18.50	15.50	12.60	40.20		
23	5.05	6.70	17.75	10.00	3.23	1.35	41.80	36.90	19.25	13.60	12.80	24.50		
24	8.60	7.40	15.75	17.50	2.02	2.13	52.60	37.25	26.00	17.50	13.20	23.00		
25	14.60	8.60	15.50	28.10	0.90	1.35	52.60	60.85	26.90	20.00	10.60	30.50		
26	7.20	9.60	15.25	21.50	0.36	0.63	46.60	73.50	24.20	23.00	7.20	22.70		
27	14.00	11.80	16.00	12.60	4.90	2.79	44.60	83.00	25.40	23.60	4.75	19.25		
28	40.20	14.00	24.50	19.75	31.70	5.20	30.20	98.50	27.80	23.00	2.90	20.90		
29	38.65	17.25	16.00	25.40	39.40	9.00	23.90	119.95	39.40	21.80		26.30		
30	39.80	20.90	14.20	25.70	25.10	6.40	13.60	130.40	62.65	21.50		49.80		
31		19.50		14.80	21.20		11.00		48.60	18.50		48.20		
Total	685.45	654.65	529.40	497.60	455.26	158.01	626.90	1111.75	3370.70	815.50	479.60	704.19	10089.01	CMSDAY
Mean	22.85	21.12	17.65	16.05	14.69	5.27	20.22	37.06	108.73	26.31	17.13	22.72	27.64	CMS
Max	40.20	58.15	30.20	28.10	39.40	16.75	52.60	130.40	288.80	72.50	26.90	49.80	288.80	CMS
Min	5.05	6.70	11.00	8.00	0.36	0.00	1.91	10.00	18.50	13.60	2.90	3.34	0.00	CMS
Runoff	59.22	56.56	45.74	42.99	39.33	13.65	54.16	96.06	291.23	70.46	41.44	60.84	871.69	MCM

Momentary Peak 290.90 CMS. at 7.97 m. (MSL.) at 06.00 Hours , on Dec 2, 2008

Runoff Yield 17.87 Liters/Second/Square KM. Momentary Peak Yield 188.04 Liters/Second/Square KM.

WATER YEAR : 2008

THALE SAP SONGKHLA

Khlong Sadao at Ban Sai, Songkhla (X.111)

Lat 06 - 39 - 37 N Long 100 - 26 - 08 E

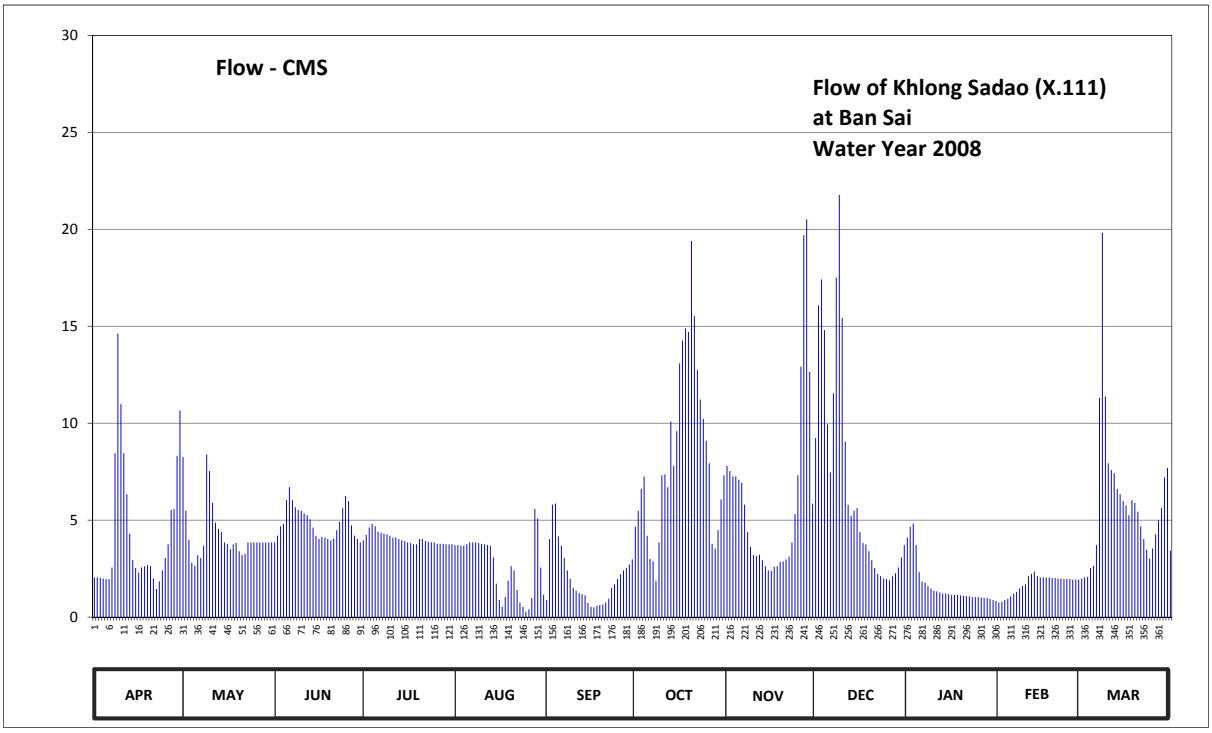
Location : on left bank at Ban Sai.

	Ban Sai	**Amphoe** Sadao	**Changwat** Songkhla
Drainge Area	245 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** +33.335 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 mean of 5 readings		
Period of Available Gage Records	1979 to date.		
Rating Operation			
Period of Rating	1979 to date.		
Rated by Float	-		
Rated by Current Meter	1979 to date.		
Stability of Channel Regimes	Fairly stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records poor. Stage-discharge relation defined by 28 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	26.95	28.47	27.50	27.53	27.46	26.55	27.73	28.40	28.62	27.57	26.50	26.93	
2	26.95	27.93	27.60	27.61	27.46	27.55	27.93	28.35	29.44	27.73	26.52	26.95	
3	26.94	27.54	27.74	27.72	27.45	28.00	28.18	28.30	29.58	27.78	26.55	26.96	
4	26.93	27.20	27.77	27.77	27.45	28.01	28.30	28.30	29.30	27.46	26.58	27.11	
5	26.92	27.15	28.05	27.74	27.47	27.59	27.60	28.27	28.72	27.04	26.62	27.15	
6	26.92	27.31	28.20	27.66	27.50	27.45	27.26	28.24	28.34	26.88	26.67	27.46	
7	27.12	27.27	28.05	27.64	27.50	27.27	27.22	28.00	28.93	26.86	26.70	28.90	
8	28.50	27.45	27.97	27.63	27.50	27.07	26.89	27.65	29.59	26.80	26.76	29.81	
9	29.28	28.49	27.94	27.62	27.49	26.92	27.50	27.43	29.98	26.76	26.80	28.91	
10	28.86	28.35	27.93	27.60	27.48	26.77	28.31	27.31	29.37	26.72	26.83	28.42	
11	28.50	28.02	27.90	27.57	27.47	26.72	28.32	27.30	28.59	26.71	26.97	28.36	
12	28.12	27.79	27.88	27.57	27.46	26.68	28.20	27.32	28.00	26.69	27.01	28.33	
13	27.63	27.70	27.83	27.55	27.45	26.66	28.74	27.24	27.87	26.67	27.05	28.18	
14	27.24	27.65	27.72	27.53	27.28	26.64	28.40	27.14	27.93	26.67	26.97	28.12	
15	27.11	27.50	27.60	27.52	26.84	26.49	28.67	27.07	27.96	26.66	26.95	28.04	
16	27.03	27.48	27.55	27.50	26.55	26.41	29.11	27.06	27.65	26.65	26.95	27.99	
17	27.12	27.40	27.58	27.49	26.41	26.40	29.24	27.13	27.49	26.65	26.95	27.88	
18	27.14	27.47	27.57	27.47	26.61	26.43	29.31	27.14	27.47	26.65	26.95	28.05	
19	27.16	27.49	27.55	27.47	26.89	26.45	29.29	27.21	27.37	26.64	26.94	28.02	
20	27.14	27.37	27.53	27.55	27.14	26.46	29.77	27.22	27.24	26.63	26.94	27.92	
21	26.93	27.31	27.56	27.55	27.07	26.50	29.38	27.25	27.11	26.63	26.93	27.74	
22	26.75	27.33	27.68	27.52	26.73	26.58	29.07	27.29	27.01	26.62	26.93	27.55	
23	26.88	27.50	27.80	27.51	26.50	26.77	28.89	27.50	26.97	26.61	26.92	27.39	
24	27.07	27.50	27.96	27.50	26.41	26.83	28.76	27.89	26.93	26.61	26.92	27.26	
25	27.27	27.50	28.10	27.50	26.31	26.92	28.60	28.31	26.92	26.61	26.92	27.41	
26	27.47	27.50	28.04	27.48	26.36	27.00	28.42	29.09	26.90	26.60	26.91	27.62	
27	27.94	27.50	27.75	27.48	26.59	27.07	27.48	29.80	26.97	26.60	26.91	27.82	
28	27.95	27.50	27.60	27.48	27.95	27.11	27.41	29.87	27.02	26.59	26.91	27.96	
29	28.48	27.50	27.55	27.47	27.84	27.17	27.68	29.06	27.12	26.57		28.29	
30	28.82	27.50	27.50	27.47	27.12	27.25	28.06	28.01	27.28	26.55		28.38	
31		27.50		27.47	26.65		28.31		27.46	26.53		27.38	
Mean	27.50	27.59	27.77	27.55	27.11	26.92	28.32	27.87	27.97	26.80	26.84	27.88	
Max	29.28	28.49	28.20	27.77	27.95	28.01	29.77	29.87	29.98	27.78	27.05	29.81	29.98
Min	26.75	27.15	27.50	27.47	26.31	26.40	26.89	27.06	26.90	26.53	26.50	26.93	26.31

Annual Max Momentary Gage Height	30.20	m. (MSL.) ,	at 12.00 Hours , on Dec 9, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	25.56	m. (MSL.)
Left Bank Elevation	33.36	m. (MSL.) ,			
Right Bank Elevation	33.35	m. (MSL.) ,	Drainage Are	245	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.05	8.26	3.85	3.96	3.71	0.88	4.66	7.80	9.24	4.10	0.75	1.99		
2	2.05	5.49	4.20	4.24	3.71	4.03	5.49	7.53	16.08	4.66	0.80	2.05		
3	2.02	3.99	4.69	4.62	3.68	5.80	6.61	7.25	17.41	4.83	0.88	2.08		
4	1.99	2.80	4.80	4.80	3.68	5.85	7.25	7.25	14.80	3.71	0.95	2.53		
5	1.96	2.65	6.03	4.69	3.75	4.17	4.20	7.09	9.94	2.32	1.06	2.65		
6	1.96	3.19	6.70	4.41	3.85	3.68	3.01	6.92	7.47	1.84	1.21	3.71		
7	2.56	3.05	6.03	4.34	3.85	3.05	2.87	5.80	11.54	1.78	1.30	11.30		
8	8.45	3.68	5.67	4.31	3.85	2.41	1.87	4.38	17.51	1.60	1.48	19.82		
9	14.62	8.39	5.53	4.27	3.82	1.96	3.85	3.61	21.77	1.48	1.60	11.38		
10	10.98	7.53	5.49	4.20	3.78	1.51	7.31	3.19	15.43	1.36	1.69	7.93		
11	8.45	5.89	5.35	4.10	3.75	1.36	7.36	3.15	9.04	1.33	2.11	7.58		
12	6.34	4.87	5.26	4.10	3.71	1.24	6.70	3.22	5.80	1.27	2.23	7.42		
13	4.31	4.55	5.04	4.03	3.68	1.18	10.08	2.94	5.22	1.21	2.35	6.61		
14	2.94	4.38	4.62	3.96	3.08	1.12	7.80	2.62	5.49	1.21	2.11	6.34		
15	2.53	3.85	4.20	3.92	1.72	0.73	9.59	2.41	5.62	1.18	2.05	5.98		
16	2.29	3.78	4.03	3.85	0.88	0.53	13.09	2.38	4.38	1.15	2.05	5.76		
17	2.56	3.50	4.13	3.82	0.53	0.50	14.26	2.59	3.82	1.15	2.05	5.26		
18	2.62	3.75	4.10	3.75	1.03	0.58	14.89	2.62	3.75	1.15	2.05	6.03		
19	2.68	3.82	4.03	3.75	1.87	0.63	14.71	2.84	3.40	1.12	2.02	5.89		
20	2.62	3.40	3.96	4.03	2.62	0.65	19.39	2.87	2.94	1.09	2.02	5.44		
21	1.99	3.19	4.06	4.03	2.41	0.75	15.52	2.98	2.53	1.09	1.99	4.69		
22	1.45	3.26	4.48	3.92	1.39	0.95	12.73	3.12	2.23	1.06	1.99	4.03		
23	1.84	3.85	4.90	3.89	0.75	1.51	11.22	3.85	2.11	1.03	1.96	3.47		
24	2.41	3.85	5.62	3.85	0.53	1.69	10.22	5.31	1.99	1.03	1.96	3.01		
25	3.05	3.85	6.25	3.85	0.28	1.96	9.10	7.31	1.96	1.03	1.96	3.54		
26	3.75	3.85	5.98	3.78	0.40	2.20	7.93	12.91	1.90	1.00	1.93	4.27		
27	5.53	3.85	4.73	3.78	0.98	2.41	3.78	19.70	2.11	1.00	1.93	4.99		
28	5.58	3.85	4.20	3.78	5.58	2.53	3.54	20.51	2.26	0.98	1.93	5.62		
29	8.32	3.85	4.03	3.75	5.08	2.71	4.48	12.64	2.56	0.93		7.20		
30	10.66	3.85	3.85	3.75	2.56	2.98	6.07	5.85	3.08	0.88		7.69		
31		3.85		3.75	1.15		7.31		3.71	0.83		3.43		
Total	130.56	131.92	145.81	125.28	81.66	61.55	256.89	182.64	217.09	50.40	48.41	179.69	1611.90	CMSDAY
Mean	4.35	4.26	4.86	4.04	2.63	2.05	8.29	6.09	7.00	1.63	1.73	5.80	4.42	CMS
Max	14.62	8.39	6.70	4.80	5.58	5.85	19.39	20.51	21.77	4.83	2.35	19.82	21.77	CMS
Min	1.45	2.65	3.85	3.75	0.28	0.50	1.87	2.38	1.90	0.83	0.75	1.99	0.28	CMS
Runoff	11.28	11.40	12.60	10.82	7.06	5.32	22.20	15.78	18.76	4.35	4.18	15.53	139.27	MCM

Momentary Peak 24.30 CMS. at 30.20 m. (MSL.) at 12.00 Hours , on Dec 9, 2008

Runoff Yield 18.00 Liters/Second/Square KM. Momentary Peak Yield 99.02 Liters/Second/Square KM.

WATER YEAR : 2008

THALE SAP SONGKHLA

Khlong Sadao at Ban Takian Pao , Songkhla (X.112)

Lat 06 - 42 - 11 N Long 100 - 26 - 10 E

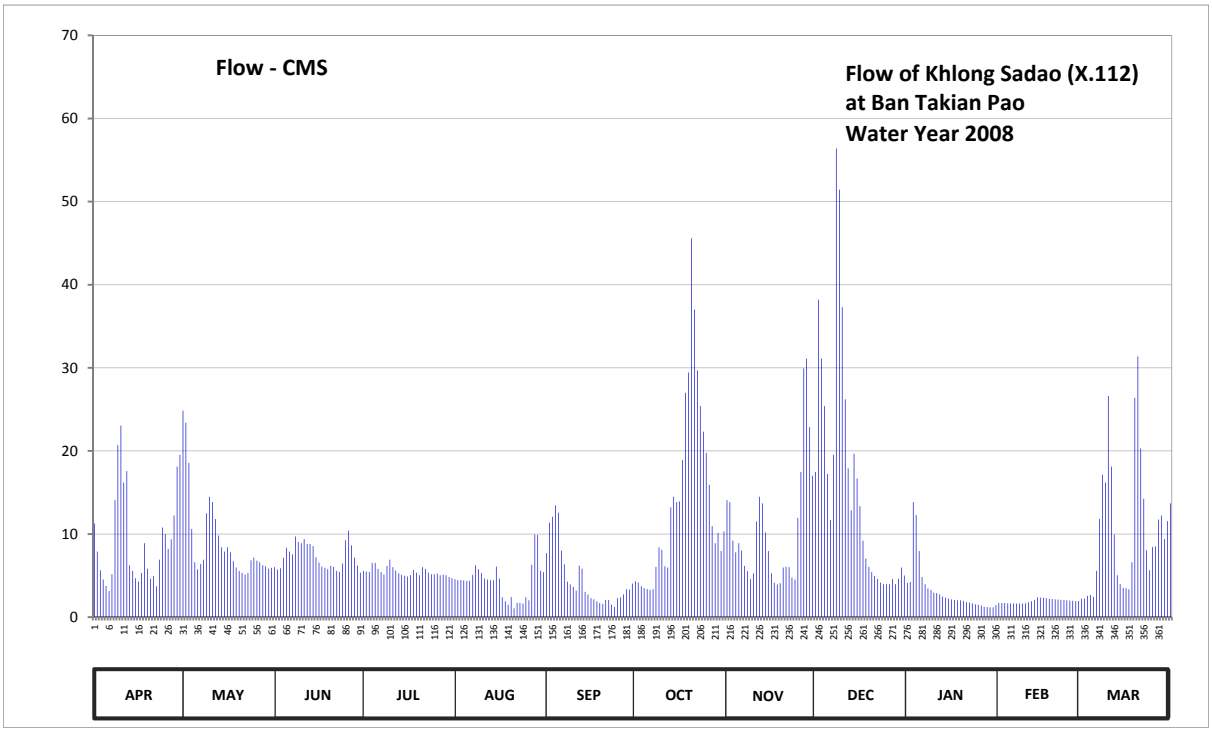
Location : on right bank at Ban Takian Pao.

	Ban Takian Pao	**Amphoe** Sadao	**Changwat** Songkhla
Drainge Area	493 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** +24.840 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1979 - 1996 , 2006 to date		
Rating Operation			
Period of Rating	1979 - 1996 , 2006 to date		
Rated by Float	-		
Rated by Current Meter	1979 - 1996 , 2006 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 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	22.91	24.18	21.85	21.74	21.49	22.26	21.43	23.31	23.66	21.38	20.63	20.81	
2	22.30	24.10	21.78	21.72	21.46	22.93	21.39	23.28	24.74	21.41	20.63	20.81	
3	21.76	23.76	21.82	21.70	21.46	23.04	21.28	22.56	24.48	23.28	20.63	20.92	
4	21.48	22.80	22.13	21.98	21.45	23.23	21.22	22.28	24.21	23.07	20.62	20.96	
5	21.29	22.00	22.39	21.98	21.44	23.11	21.19	22.50	23.64	22.31	20.62	20.88	
6	21.11	21.79	22.30	21.80	21.44	22.32	21.16	22.32	22.98	21.56	20.62	21.74	
7	21.64	21.95	22.23	21.70	21.62	21.94	21.18	21.89	23.84	21.34	20.61	23.00	
8	23.31	22.08	22.65	21.63	21.91	21.42	21.86	21.73	25.25	21.21	20.61	23.63	
9	23.93	23.10	22.53	21.89	21.79	21.33	22.40	21.49	25.12	21.16	20.61	23.54	
10	24.08	23.36	22.50	22.08	21.68	21.26	22.34	21.67	24.71	21.05	20.62	24.27	
11	23.54	23.28	22.60	21.85	21.51	21.13	21.88	22.95	24.25	21.03	20.66	23.72	
12	23.67	23.00	22.48	21.75	21.48	21.90	21.84	23.36	23.70	20.98	20.71	22.69	
13	21.91	22.67	22.48	21.67	21.46	21.81	23.20	23.26	23.15	20.89	20.76	21.61	
14	21.74	22.40	22.43	21.62	21.46	21.08	23.36	22.73	23.85	20.85	20.86	21.34	
15	21.52	22.30	22.15	21.59	21.87	20.97	23.28	22.31	23.59	20.81	20.85	21.23	
16	21.42	22.40	21.99	21.57	21.51	20.83	23.29	21.67	23.22	20.78	20.84	21.22	
17	21.68	22.28	21.87	21.61	20.86	20.78	23.79	21.38	22.56	20.76	20.83	21.18	
18	22.50	22.03	21.83	21.77	20.70	20.70	24.29	21.33	22.11	20.74	20.80	22.00	
19	21.81	21.84	21.79	21.69	20.56	20.63	24.41	21.37	21.86	20.74	20.79	24.26	
20	21.51	21.74	21.89	21.61	20.87	20.59	24.96	21.84	21.70	20.72	20.78	24.49	
21	21.58	21.68	21.86	21.85	20.42	20.76	24.70	21.86	21.59	20.66	20.77	23.90	
22	21.28	21.63	21.74	21.80	20.64	20.75	24.42	21.85	21.50	20.65	20.76	23.33	
23	22.08	21.68	21.71	21.69	20.64	20.56	24.21	21.54	21.39	20.62	20.75	22.33	
24	22.83	22.06	21.96	21.64	20.61	20.48	24.04	21.48	21.34	20.58	20.74	21.76	
25	22.70	22.14	22.57	21.64	20.86	20.83	23.86	23.02	21.34	20.56	20.73	22.41	
26	22.36	22.05	22.77	21.66	20.74	20.86	23.51	23.66	21.34	20.53	20.72	22.42	
27	22.59	22.00	22.45	21.61	21.93	20.98	22.86	24.43	21.49	20.48	20.71	22.99	
28	23.06	21.91	22.14	21.63	22.69	21.18	22.50	24.48	21.34	20.47	20.71	23.06	
29	23.72	21.88	21.90	21.61	22.68	21.17	22.72	24.07	21.50	20.46		22.60	
30	23.84	21.81	21.69	21.56	21.74	21.36	22.31	23.62	21.84	20.46		22.96	
31		21.83		21.52	21.70		22.75		21.60	20.55		23.26	
Mean	22.37	22.38	22.15	21.71	21.38	21.41	22.83	22.51	22.87	21.04	20.71	22.43	
Max	24.08	24.18	22.77	22.08	22.69	23.23	24.96	24.48	25.25	23.28	20.86	24.49	25.25
Min	21.11	21.63	21.69	21.52	20.42	20.48	21.16	21.33	21.34	20.46	20.61	20.81	20.42

Annual Max Momentary Gage Height	25.32	m. (MSL.) ,	at 06.00 Hours , on Dec 8, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	19.52	m. (MSL.)
Left Bank Elevation	26.18	m. (MSL.) ,			
Right Bank Elevation	26.12	m. (MSL.) ,	Drainage Are	493	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	11.26	24.84	6.00	5.56	4.56	7.70	4.32	14.08	17.46	4.12	1.69	2.23		
2	7.90	23.40	5.72	5.48	4.44	11.38	4.16	13.84	38.20	4.24	1.69	2.23		
3	5.64	18.56	5.88	5.40	4.44	12.08	3.72	9.20	31.12	13.84	1.69	2.56		
4	4.52	10.60	7.12	6.52	4.40	13.44	3.48	7.80	25.40	12.29	1.66	2.68		
5	3.76	6.60	8.35	6.52	4.36	12.57	3.37	8.90	17.24	7.95	1.66	2.44		
6	3.13	5.76	7.90	5.80	4.36	8.00	3.28	8.00	11.68	4.84	1.66	5.56		
7	5.16	6.40	7.55	5.40	5.08	6.36	3.34	6.16	19.52	3.96	1.63	11.80		
8	14.08	6.92	9.70	5.12	6.24	4.28	6.04	5.52	56.40	3.44	1.63	17.13		
9	20.69	12.50	9.05	6.16	5.76	3.92	8.40	4.56	51.44	3.28	1.63	16.20		
10	23.04	14.48	8.90	6.92	5.32	3.64	8.10	5.28	37.30	2.95	1.66	26.60		
11	16.20	13.84	9.40	6.00	4.64	3.19	6.12	11.50	26.20	2.89	1.78	18.12		
12	17.57	11.80	8.80	5.60	4.52	6.20	5.96	14.48	17.90	2.74	1.93	9.94		
13	6.24	9.82	8.80	5.28	4.44	5.84	13.20	13.68	12.85	2.47	2.08	5.04		
14	5.56	8.40	8.55	5.08	4.44	3.04	14.48	10.18	19.65	2.35	2.38	3.96		
15	4.68	7.90	7.20	4.96	6.08	2.71	13.84	7.95	16.70	2.23	2.35	3.52		
16	4.28	8.40	6.56	4.88	4.64	2.29	13.92	5.28	13.36	2.14	2.32	3.48		
17	5.32	7.80	6.08	5.04	2.38	2.14	18.89	4.12	9.20	2.08	2.29	3.34		
18	8.90	6.72	5.92	5.68	1.90	1.90	27.00	3.92	7.04	2.02	2.20	6.60		
19	5.84	5.96	5.76	5.36	1.48	1.69	29.44	4.08	6.04	2.02	2.17	26.40		
20	4.64	5.56	6.16	5.04	2.41	1.57	45.60	5.96	5.40	1.96	2.14	31.36		
21	4.92	5.32	6.04	6.00	1.06	2.08	37.00	6.04	4.96	1.78	2.11	20.30		
22	3.72	5.12	5.56	5.80	1.72	2.05	29.68	6.00	4.60	1.75	2.08	14.24		
23	6.92	5.32	5.44	5.36	1.72	1.48	25.40	4.76	4.16	1.66	2.05	8.05		
24	10.78	6.84	6.44	5.16	1.63	1.24	22.32	4.52	3.96	1.54	2.02	5.64		
25	10.00	7.16	9.25	5.16	2.38	2.29	19.78	11.94	3.96	1.48	1.99	8.45		
26	8.20	6.80	10.42	5.24	2.02	2.38	15.90	17.46	3.96	1.39	1.96	8.50		
27	9.35	6.60	8.65	5.04	6.32	2.74	10.96	29.92	4.56	1.24	1.93	11.74		
28	12.22	6.24	7.16	5.12	9.94	3.34	8.90	31.12	3.96	1.21	1.93	12.22		
29	18.12	6.12	6.20	5.04	9.88	3.31	10.12	22.86	4.60	1.18		9.40		
30	19.52	5.84	5.36	4.84	5.56	4.04	7.95	17.02	5.96	1.18		11.56		
31		5.92		4.68	5.40		10.30		5.00	1.45		13.68		
Total	282.16	283.54	219.92	169.24	133.52	138.89	434.97	316.13	489.78	99.67	54.31	324.97	2947.10	CMSDAY
Mean	9.41	9.15	7.33	5.46	4.31	4.63	14.03	10.54	15.80	3.22	1.94	10.48	8.07	CMS
Max	23.04	24.84	10.42	6.92	9.94	13.44	45.60	31.12	56.40	13.84	2.38	31.36	56.40	CMS
Min	3.13	5.12	5.36	4.68	1.06	1.24	3.28	3.92	3.96	1.18	1.63	2.23	1.06	CMS
Runoff	24.38	24.50	19.00	14.62	11.54	12.00	37.58	27.31	42.32	8.61	4.69	28.08	254.63	MCM

Momentary Peak 59.20 CMS. at 25.32 m. (MSL.) at 06.00 Hours , on Dec 8, 2008

Runoff Yield 16.38 Liters/Second/Square KM. Momentary Peak Yield 120.08 Liters/Second/Square KM.

WATER YEAR : 2008

THALE SAP SONGKHLA

Khlong La Pang at Ban Thung Prap , Songkhla (X.113)

Lat 06 - 37 - 59 N Long 100 - 23 - 46 E

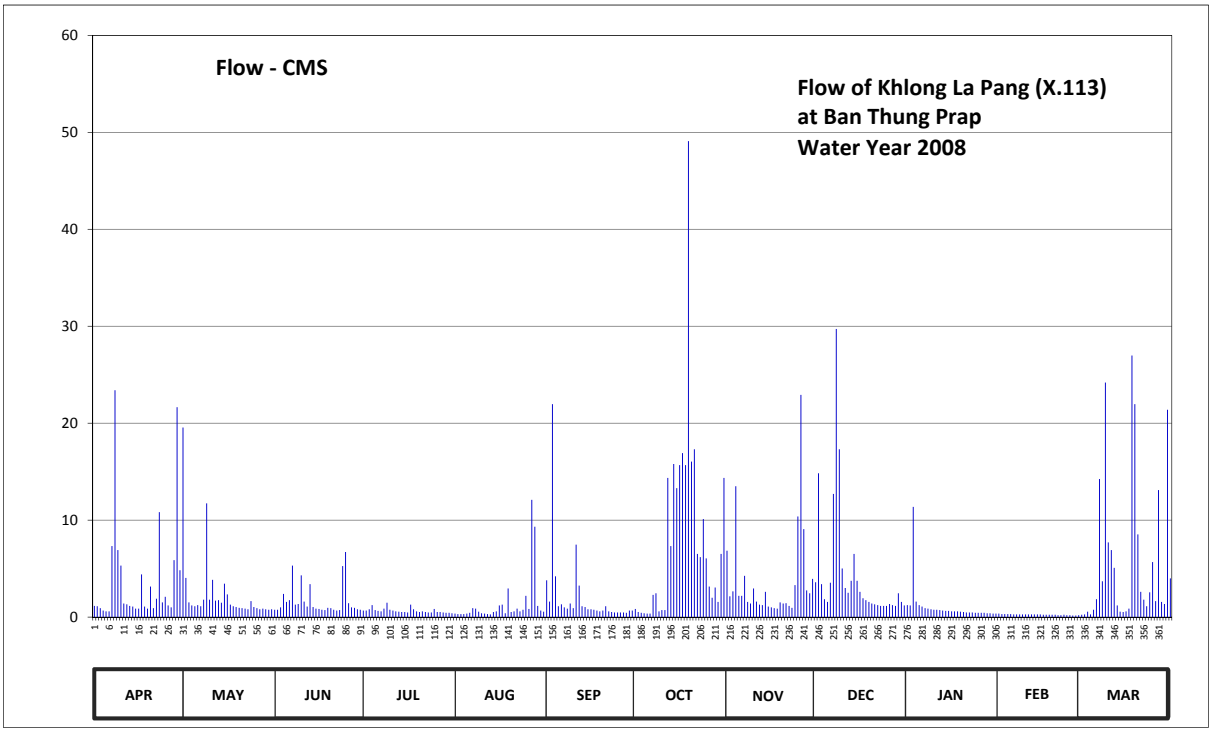
Location : on right bank at Ban Thung Prap.

	Ban Thung Prap	**Amphoe** Sadao	**Changwat** Songkhla
Drainge Area	118 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 gage observer's house.		**Elevation** +36.918 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1979 to date		
Rating Operation			
Period of Rating	1979 to date		
Rated by Float	-		
Rated by Current Meter	1979 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.09	34.44	31.99	31.97	31.89	32.64	32.01	33.16	32.60	32.11	31.89	31.86	
2	32.08	32.69	31.99	31.97	31.88	32.20	31.93	32.31	34.07	32.10	31.88	31.87	
3	32.03	32.18	32.05	32.00	31.88	34.61	31.91	32.41	32.56	33.73	31.88	31.94	
4	31.97	32.10	32.36	32.11	31.88	32.72	31.90	33.95	32.25	32.20	31.88	31.87	
5	31.95	32.08	32.19	31.98	31.89	32.08	31.89	32.32	32.19	32.11	31.88	31.99	
6	31.95	32.11	32.23	31.96	31.91	32.13	31.89	32.32	32.59	32.07	31.87	32.25	
7	33.23	32.08	32.92	31.95	32.03	32.05	32.34	32.73	33.87	32.03	31.87	34.02	
8	34.70	32.24	32.12	32.02	32.02	32.02	32.37	32.19	35.05	32.02	31.87	32.62	
9	33.17	33.77	32.14	32.17	31.94	32.15	31.95	32.15	34.27	32.00	31.87	34.75	
10	32.92	32.24	32.74	31.99	31.90	32.03	31.98	32.47	32.87	31.99	31.87	33.28	
11	32.15	32.65	32.20	31.97	31.89	33.25	31.98	32.20	32.48	31.99	31.87	33.17	
12	32.13	32.22	32.07	31.95	31.88	32.53	34.03	32.12	32.38	31.98	31.87	32.88	
13	32.09	32.23	32.56	31.94	31.87	32.08	33.23	32.11	32.63	31.97	31.87	32.10	
14	32.07	32.17	32.06	31.93	31.93	32.06	34.15	32.40	33.11	31.96	31.87	31.94	
15	32.02	32.57	32.02	31.93	31.95	32.00	33.93	32.07	32.63	31.96	31.87	31.93	
16	32.02	32.35	32.01	31.92	32.10	32.00	34.14	32.05	32.40	31.95	31.86	31.95	
17	32.76	32.12	31.99	32.12	32.12	31.99	34.24	32.03	32.27	31.95	31.86	32.02	
18	32.07	32.08	31.98	32.00	31.90	31.97	34.14	32.02	32.23	31.95	31.86	34.91	
19	32.02	32.06	32.04	31.95	32.47	31.95	35.66	32.18	32.19	31.94	31.86	34.61	
20	32.51	32.04	32.03	31.93	31.93	31.97	34.17	32.15	32.15	31.93	31.86	33.39	
21	32.03	32.03	31.99	31.95	31.95	32.08	34.27	32.16	32.13	31.92	31.85	32.40	
22	32.26	32.02	31.97	31.93	32.02	31.95	33.11	32.09	32.11	31.92	31.85	32.24	
23	33.67	32.00	31.98	31.92	31.95	31.93	33.06	32.04	32.09	31.92	31.86	32.08	
24	32.18	32.21	32.91	31.92	31.99	31.92	33.59	32.54	32.09	31.91	31.85	32.39	
25	32.30	32.06	33.14	32.01	32.32	31.92	33.04	33.62	32.09	31.91	31.85	32.98	
26	32.10	32.03	32.16	31.93	32.01	31.92	32.51	34.67	32.14	31.91	31.84	32.21	
27	32.05	32.00	32.05	31.93	33.81	31.92	32.28	33.46	32.11	31.91	31.84	33.91	
28	33.01	32.02	32.04	31.92	33.49	31.91	32.49	32.43	32.09	31.90	31.85	32.19	
29	34.59	32.00	32.00	31.91	32.09	31.97	32.19	32.37	32.37	31.90		32.14	
30	32.84	31.99	31.99	31.91	31.97	31.97	33.11	32.67	32.19	31.89		34.57	
31		32.00		31.90	31.94		34.03		32.10	31.89		32.68	
Mean	32.50	32.28	32.20	31.97	32.09	32.20	33.02	32.51	32.59	32.03	31.86	32.75	
Max	34.70	34.44	33.14	32.17	33.81	34.61	35.66	34.67	35.05	33.73	31.89	34.91	35.66
Min	31.95	31.99	31.97	31.90	31.87	31.91	31.89	32.02	32.09	31.89	31.84	31.86	31.84

Annual Max Momentary Gage Height	35.98	m. (MSL.) ,	at 06.00 Hours , on Oct 19, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	31.91	m. (MSL.)
Left Bank Elevation	37.96	m. (MSL.) ,			
Right Bank Elevation	38.01	m. (MSL.) ,	Drainage Are	118	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.16	19.56	0.76	0.68	0.36	3.80	0.84	6.84	3.60	1.24	0.36	0.24		
2	1.12	4.05	0.76	0.68	0.32	1.60	0.52	2.15	14.84	1.20	0.32	0.28		
3	0.92	1.52	1.00	0.80	0.32	21.96	0.44	2.65	3.40	11.37	0.32	0.56		
4	0.68	1.20	2.40	1.24	0.32	4.20	0.40	13.50	1.85	1.60	0.32	0.28		
5	0.60	1.12	1.56	0.72	0.36	1.12	0.36	2.20	1.56	1.24	0.32	0.76		
6	0.60	1.24	1.75	0.64	0.44	1.32	0.36	2.20	3.55	1.08	0.28	1.85		
7	7.33	1.12	5.32	0.60	0.92	1.00	2.30	4.25	12.70	0.92	0.28	14.24		
8	23.40	1.80	1.28	0.88	0.88	0.88	2.45	1.56	29.73	0.88	0.28	3.70		
9	6.91	11.73	1.36	1.48	0.56	1.40	0.60	1.40	17.31	0.80	0.28	24.20		
10	5.32	1.80	4.30	0.76	0.40	0.92	0.72	2.95	5.02	0.76	0.28	7.70		
11	1.40	3.85	1.60	0.68	0.36	7.48	0.72	1.60	3.00	0.76	0.28	6.91		
12	1.32	1.70	1.08	0.60	0.32	3.25	14.36	1.28	2.50	0.72	0.28	5.08		
13	1.16	1.75	3.40	0.56	0.28	1.12	7.33	1.24	3.75	0.68	0.28	1.20		
14	1.08	1.48	1.04	0.52	0.52	1.04	15.80	2.60	6.52	0.64	0.28	0.56		
15	0.88	3.45	0.88	0.52	0.60	0.80	13.30	1.08	3.75	0.64	0.28	0.52		
16	0.88	2.35	0.84	0.48	1.20	0.80	15.68	1.00	2.60	0.60	0.24	0.60		
17	4.40	1.28	0.76	1.28	1.28	0.76	16.92	0.92	1.95	0.60	0.24	0.88		
18	1.08	1.12	0.72	0.80	0.40	0.68	15.68	0.88	1.75	0.60	0.24	26.98		
19	0.88	1.04	0.96	0.60	2.95	0.60	49.10	1.52	1.56	0.56	0.24	21.96		
20	3.15	0.96	0.92	0.52	0.52	0.68	16.04	1.40	1.40	0.52	0.24	8.53		
21	0.92	0.92	0.76	0.60	0.60	1.12	17.31	1.44	1.32	0.48	0.20	2.60		
22	1.90	0.88	0.68	0.52	0.88	0.60	6.52	1.16	1.24	0.48	0.20	1.80		
23	10.83	0.80	0.72	0.48	0.60	0.52	6.19	0.96	1.16	0.48	0.24	1.12		
24	1.52	1.65	5.26	0.48	0.76	0.48	10.12	3.30	1.16	0.44	0.20	2.55		
25	2.10	1.04	6.71	0.84	2.20	0.48	6.06	10.38	1.16	0.44	0.20	5.68		
26	1.20	0.92	1.44	0.52	0.84	0.48	3.15	22.92	1.36	0.44	0.16	1.65		
27	1.00	0.80	1.00	0.52	12.10	0.48	2.00	9.08	1.24	0.44	0.16	13.10		
28	5.87	0.88	0.96	0.48	9.32	0.44	3.05	2.75	1.16	0.40	0.20	1.56		
29	21.66	0.80	0.80	0.44	1.16	0.68	1.56	2.45	2.45	0.40		1.36		
30	4.84	0.76	0.76	0.44	0.68	0.68	6.52	3.95	1.56	0.36		21.38		
31		0.80		0.40	0.56		14.36		1.20	0.36		4.00		
Total	116.11	74.37	51.78	20.76	43.01	61.37	250.76	111.61	137.35	32.13	7.20	183.83	1090.28	CMSDAY
Mean	3.87	2.40	1.73	0.67	1.39	2.05	8.09	3.72	4.43	1.04	0.26	5.93	2.99	CMS
Max	23.40	19.56	6.71	1.48	12.10	21.96	49.10	22.92	29.73	11.37	0.36	26.98	49.10	CMS
Min	0.60	0.76	0.68	0.40	0.28	0.44	0.36	0.88	1.16	0.36	0.16	0.24	0.16	CMS
Runoff	10.03	6.43	4.47	1.79	3.72	5.30	21.67	9.64	11.87	2.78	0.62	15.88	94.20	MCM

Momentary Peak 68.61 CMS. at 35.98 m. (MSL.) at 06.00 Hours , on Oct 19, 2008

Runoff Yield 25.22 Liters/Second/Square KM. Momentary Peak Yield 579.23 Liters/Second/Square KM.

WATER YEAR : 2008

THALE SAP SONGKHLA

Khlong Lam at Ban Khlong Lam , Phatthalung (X.170)

Lat 07 - 33 - 22 N Long 99 - 59 - 31 E

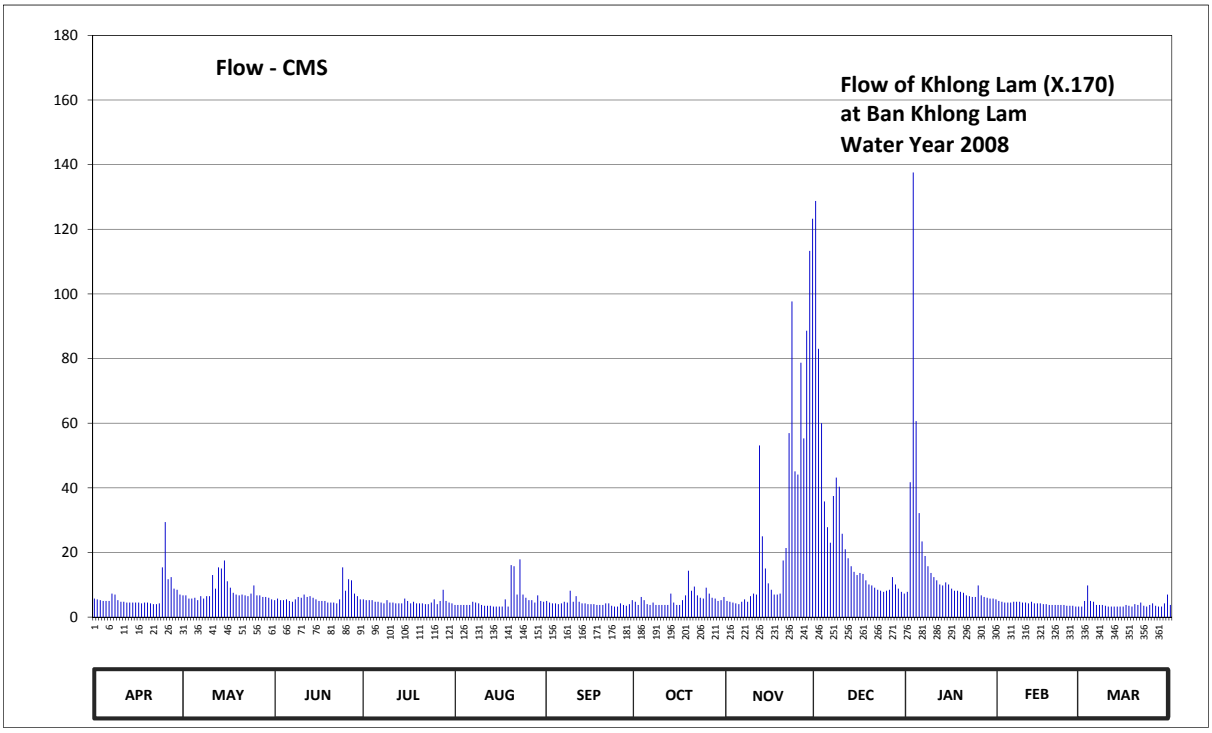
Location : on left bank at the bridge.

	Ban Khlong Lam **Amphoe** Srinagarindra **Changwat** Phatthalung
Drainge Area	258 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 21 meters from the top staff gage. **Elevation** +27.274 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 mean of 5 readings
Period of Available Gage Records	1987 to date
Rating Operation	
Period of Rating	1989 to date
Rated by Float	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 26 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.53	20.57	20.51	20.52	20.45	20.50	20.49	20.50	22.68	20.61	20.50	20.43	
2	20.52	20.57	20.53	20.51	20.45	20.48	20.45	20.49	22.18	21.50	20.49	20.50	
3	20.51	20.53	20.51	20.51	20.45	20.47	20.55	20.48	21.84	22.76	20.48	20.67	
4	20.50	20.53	20.51	20.51	20.45	20.47	20.51	20.47	21.37	21.85	20.48	20.50	
5	20.50	20.54	20.52	20.49	20.45	20.46	20.46	20.46	21.17	21.28	20.48	20.49	
6	20.50	20.51	20.50	20.49	20.45	20.47	20.45	20.49	21.05	21.06	20.49	20.45	
7	20.59	20.56	20.49	20.48	20.49	20.49	20.48	20.52	21.41	20.94	20.49	20.45	
8	20.58	20.53	20.52	20.47	20.48	20.48	20.45	20.49	21.53	20.85	20.49	20.45	
9	20.51	20.56	20.55	20.51	20.47	20.62	20.45	20.56	21.47	20.79	20.48	20.44	
10	20.49	20.56	20.54	20.48	20.45	20.49	20.45	20.59	21.12	20.75	20.48	20.43	
11	20.49	20.77	20.58	20.48	20.44	20.56	20.45	20.58	21.00	20.72	20.47	20.43	
12	20.48	20.64	20.55	20.47	20.44	20.49	20.45	21.72	20.92	20.68	20.49	20.43	
13	20.48	20.84	20.56	20.47	20.44	20.47	20.59	21.10	20.85	20.67	20.47	20.43	
14	20.48	20.83	20.54	20.47	20.43	20.47	20.48	20.83	20.80	20.70	20.47	20.43	
15	20.48	20.90	20.52	20.53	20.43	20.46	20.45	20.69	20.77	20.68	20.47	20.43	
16	20.48	20.71	20.50	20.50	20.43	20.46	20.45	20.63	20.79	20.64	20.46	20.45	
17	20.47	20.65	20.50	20.47	20.43	20.46	20.51	20.58	20.78	20.62	20.46	20.44	
18	20.48	20.60	20.50	20.49	20.52	20.45	20.57	20.58	20.72	20.62	20.45	20.43	
19	20.48	20.58	20.48	20.47	20.43	20.45	20.81	20.59	20.68	20.61	20.45	20.46	
20	20.47	20.57	20.48	20.47	20.86	20.45	20.62	20.90	20.67	20.60	20.45	20.45	
21	20.46	20.58	20.48	20.47	20.85	20.47	20.66	21.01	20.65	20.57	20.45	20.48	
22	20.46	20.57	20.47	20.46	20.58	20.47	20.57	21.79	20.63	20.56	20.45	20.44	
23	20.47	20.56	20.52	20.46	20.91	20.44	20.54	22.36	20.62	20.55	20.45	20.43	
24	20.84	20.59	20.84	20.48	20.58	20.43	20.53	21.57	20.61	20.55	20.44	20.45	
25	21.21	20.67	20.62	20.52	20.54	20.43	20.65	21.55	20.62	20.67	20.44	20.47	
26	20.73	20.57	20.73	20.46	20.51	20.47	20.59	22.12	20.63	20.57	20.44	20.44	
27	20.75	20.57	20.72	20.50	20.51	20.45	20.54	21.76	20.75	20.55	20.43	20.43	
28	20.64	20.55	20.59	20.63	20.48	20.44	20.53	22.25	20.68	20.54	20.43	20.43	
29	20.63	20.55	20.56	20.50	20.57	20.46	20.50	22.53	20.64	20.53		20.47	
30	20.58	20.54	20.52	20.48	20.50	20.51	20.51	22.63	20.61	20.53		20.58	
31		20.52		20.47	20.49		20.55		20.59	20.52		20.45	
Mean	20.56	20.61	20.55	20.49	20.51	20.47	20.53	21.09	20.99	20.81	20.47	20.46	
Max	21.21	20.90	20.84	20.63	20.91	20.62	20.81	22.63	22.68	22.76	20.50	20.67	22.76
Min	20.46	20.51	20.47	20.46	20.43	20.43	20.45	20.46	20.59	20.52	20.43	20.43	20.43

Annual Max Momentary Gage Height	23.59	m. (MSL.) ,	at 18.00 Hours , on Nov 30, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	18.16	m. (MSL.)
Left Bank Elevation	28.85	m. (MSL.) ,			
Right Bank Elevation	29.06	m. (MSL.) ,	Drainage Are	258	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.75	6.75	5.25	5.50	3.75	5.00	4.75	5.00	128.80	7.83	5.00	3.25		
2	5.50	6.75	5.75	5.25	3.75	4.50	3.75	4.75	83.05	41.75	4.75	5.00		
3	5.25	5.75	5.25	5.25	3.75	4.25	6.25	4.50	60.00	137.60	4.50	9.78		
4	5.00	5.75	5.25	5.25	3.75	4.25	5.25	4.25	35.80	60.63	4.50	5.00		
5	5.00	6.00	5.50	4.75	3.75	4.00	4.00	4.00	27.80	32.20	4.50	4.75		
6	5.00	5.25	5.00	4.75	3.75	4.25	3.75	4.75	23.00	23.40	4.75	3.75		
7	7.25	6.50	4.75	4.50	4.75	4.75	4.50	5.50	37.48	18.90	4.75	3.75		
8	7.00	5.75	5.50	4.25	4.50	4.50	3.75	4.75	43.18	15.75	4.75	3.75		
9	5.25	6.50	6.25	5.25	4.25	8.15	3.75	6.50	40.33	13.68	4.50	3.50		
10	4.75	6.50	6.00	4.50	3.75	4.75	3.75	7.25	25.80	12.38	4.50	3.25		
11	4.75	13.03	7.00	4.50	3.50	6.50	3.75	7.00	21.00	11.40	4.25	3.25		
12	4.50	8.80	6.25	4.25	3.50	4.75	3.75	53.10	18.20	10.10	4.75	3.25		
13	4.50	15.40	6.50	4.25	3.50	4.25	7.25	25.00	15.75	9.78	4.25	3.25		
14	4.50	15.05	6.00	4.25	3.25	4.25	4.50	15.05	14.00	10.75	4.25	3.25		
15	4.50	17.50	5.50	5.75	3.25	4.00	3.75	10.43	13.03	10.10	4.25	3.25		
16	4.50	11.08	5.00	5.00	3.25	4.00	3.75	8.48	13.68	8.80	4.00	3.75		
17	4.25	9.13	5.00	4.25	3.25	4.00	5.25	7.00	13.35	8.15	4.00	3.50		
18	4.50	7.50	5.00	4.75	5.50	3.75	6.75	7.00	11.40	8.15	3.75	3.25		
19	4.50	7.00	4.50	4.25	3.25	3.75	14.35	7.25	10.10	7.83	3.75	4.00		
20	4.25	6.75	4.50	4.25	16.10	3.75	8.15	17.50	9.78	7.50	3.75	3.75		
21	4.00	7.00	4.50	4.25	15.75	4.25	9.45	21.40	9.13	6.75	3.75	4.50		
22	4.00	6.75	4.25	4.00	7.00	4.25	6.75	56.95	8.48	6.50	3.75	3.50		
23	4.25	6.50	5.50	4.00	17.85	3.50	6.00	97.70	8.15	6.25	3.75	3.25		
24	15.40	7.25	15.40	4.50	7.00	3.25	5.75	45.08	7.83	6.25	3.50	3.75		
25	29.40	9.78	8.15	5.50	6.00	3.25	9.13	44.13	8.15	9.78	3.50	4.25		
26	11.73	6.75	11.73	4.00	5.25	4.25	7.25	78.70	8.48	6.75	3.50	3.50		
27	12.38	6.75	11.40	5.00	5.25	3.75	6.00	55.30	12.38	6.25	3.25	3.25		
28	8.80	6.25	7.25	8.48	4.50	3.50	5.75	88.63	10.10	6.00	3.25	3.25		
29	8.48	6.25	6.50	5.00	6.75	4.00	5.00	113.35	8.80	5.75		4.25		
30	7.00	6.00	5.50	4.50	5.00	5.25	5.25	123.30	7.83	5.75		7.00		
31		5.50		4.25	4.75		6.25		7.25	5.50		3.75		
Total	205.94	247.52	189.93	148.23	173.20	130.65	177.33	933.60	742.11	528.21	115.75	124.53	3717.00	CMSDAY
Mean	6.86	7.98	6.33	4.78	5.59	4.36	5.72	31.12	23.94	17.04	4.13	4.02	10.18	CMS
Max	29.40	17.50	15.40	8.48	17.85	8.15	14.35	123.30	128.80	137.60	5.00	9.78	137.60	CMS
Min	4.00	5.25	4.25	4.00	3.25	3.25	3.75	4.00	7.25	5.50	3.25	3.25	3.25	CMS
Runoff	17.79	21.39	16.41	12.81	14.96	11.29	15.32	80.66	64.12	45.64	10.00	10.76	321.15	MCM

Momentary Peak 265.25 CMS. at 23.59 m. (MSL.) at 18.00 Hours , on Nov 30, 2008

Runoff Yield 39.47 Liters/Second/Square KM. Momentary Peak Yield 1028.10 Liters/Second/Square KM.

WATER YEAR : 2008

THALE SAP SONGKHLA

Khlong U - Taphao at Ban Muang Kong , Songkhla (X.173A)

Lat 06 - 49 - 26 N Long 100 - 26 - 17 E

Location : on right bank at the bridge on Hat Yai - Sadao Highway.

	Ban Muang Kong	**Amphoe** Sadao	**Changwat** Songkhla
Drainge Area	1,063 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 1.13 meters from the top staff gage.		**Elevation** +16.125 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2006 to date		
Rating Operation			
Period of Rating	2006 to date		
Rated by Float	-		
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 27 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

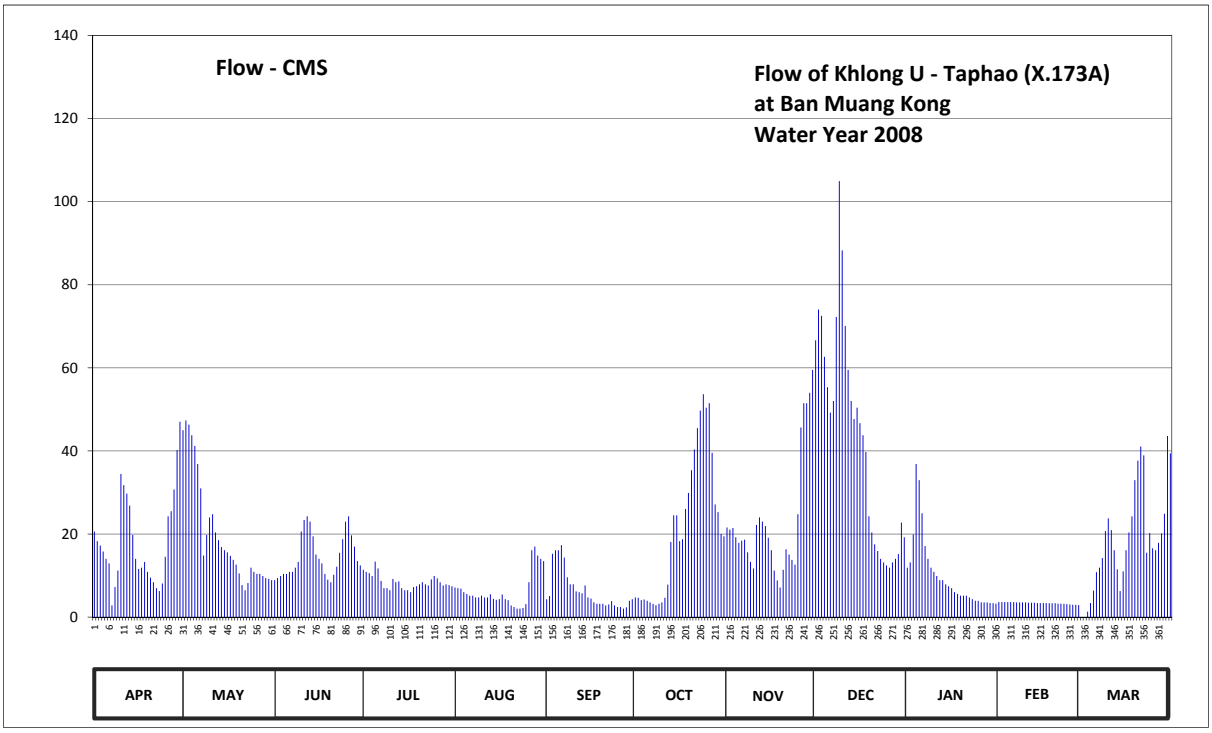
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	11.80	13.48	10.70	10.95	10.52	10.20	10.25	11.88	14.61	11.00	10.11	9.12	
2	11.60	13.62	10.75	10.90	10.50	10.29	10.24	11.84	14.92	11.12	10.11	9.43	
3	11.50	13.56	10.80	10.87	10.49	11.32	10.17	11.87	14.86	11.74	10.11	9.80	
4	11.37	13.41	10.85	10.80	10.40	11.40	10.19	11.68	14.43	12.99	10.11	10.08	
5	11.20	13.26	10.85	11.14	10.35	11.40	10.15	11.56	14.07	12.73	10.11	10.44	
6	11.10	12.99	10.90	10.98	10.30	11.51	10.10	11.61	13.73	12.16	10.11	10.89	
7	10.00	12.60	10.90	10.68	10.30	11.23	10.05	11.63	13.89	11.49	10.10	11.00	
8	10.53	11.28	11.00	10.50	10.25	10.77	10.01	11.35	14.85	11.20	10.10	11.22	
9	10.93	11.73	11.13	10.50	10.25	10.60	10.06	11.13	15.69	11.00	10.10	11.81	
10	12.83	12.08	11.80	10.45	10.30	10.60	10.10	10.98	15.34	10.90	10.10	12.06	
11	12.65	12.14	12.03	10.73	10.25	10.42	10.24	11.93	14.76	10.80	10.09	11.83	
12	12.51	11.78	12.10	10.65	10.25	10.40	10.59	12.08	14.28	10.70	10.09	11.40	
13	12.30	11.62	12.00	10.67	10.34	10.37	11.58	12.00	13.89	10.70	10.09	10.96	
14	11.73	11.47	11.70	10.50	10.21	10.57	12.12	11.91	13.64	10.60	10.08	10.43	
15	11.20	11.40	11.30	10.45	10.18	10.25	12.12	11.67	13.80	10.55	10.08	10.91	
16	10.97	11.35	11.20	10.45	10.20	10.22	11.60	11.40	13.58	10.50	10.08	11.40	
17	11.00	11.27	11.10	10.40	10.33	10.10	11.64	10.93	13.41	10.40	10.08	11.78	
18	11.13	11.18	10.85	10.53	10.20	10.05	12.24	10.69	13.17	10.35	10.07	12.10	
19	10.90	11.07	10.71	10.55	10.17	10.05	12.52	10.52	12.10	10.30	10.07	12.73	
20	10.76	10.86	10.65	10.60	10.00	10.05	12.89	10.95	11.78	10.30	10.07	13.04	
21	10.65	10.58	10.83	10.65	9.95	10.00	13.21	11.42	11.53	10.30	10.06	13.25	
22	10.50	10.45	11.02	10.60	9.90	10.03	13.51	11.30	11.38	10.25	10.06	13.12	
23	10.43	10.63	11.34	10.57	9.90	10.14	13.76	11.18	11.20	10.20	10.05	11.34	
24	10.62	11.00	11.64	10.72	9.92	10.00	13.98	11.07	11.12	10.15	10.04	11.77	
25	11.25	10.90	12.00	10.80	10.04	9.95	13.80	12.14	11.05	10.15	10.03	11.44	
26	12.10	10.85	12.10	10.74	10.65	9.95	13.86	13.52	11.00	10.10	10.02	11.40	
27	12.20	10.85	11.72	10.65	11.40	9.90	13.16	13.86	11.12	10.10	10.02	11.56	
28	12.58	10.80	11.48	10.57	11.48	9.94	12.32	13.86	11.20	10.10	10.01	11.76	
29	13.20	10.75	11.15	10.60	11.28	10.15	12.18	14.00	11.31	10.08		12.15	
30	13.60	10.73	11.05	10.58	11.20	10.20	11.75	14.28	11.98	10.07		13.40	
31		10.70		10.55	11.15		11.70		11.68	10.06		13.15	
Mean	11.50	11.63	11.26	10.66	10.41	10.40	11.68	11.87	13.08	10.74	10.08	11.51	
Max	13.60	13.62	12.10	11.14	11.48	11.51	13.98	14.28	15.69	12.99	10.11	13.40	15.69
Min	10.00	10.45	10.65	10.40	9.90	9.90	10.01	10.52	11.00	10.06	10.01	9.12	9.12

Annual Max Momentary Gage Height 15.75 m. (MSL.) , at 18.00 Hours , on Dec 9, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 9.23 m. (MSL.)

Left Bank Elevation 17.27 m. (MSL.) ,

Right Bank Elevation 17.31 m. (MSL.) , Drainage Are 1,063 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	20.60	44.96	8.90	11.40	7.14	4.30	4.73	21.56	66.63	11.90	3.63	0.00	
2	18.30	47.34	9.40	10.90	6.95	5.07	4.64	21.08	74.00	13.16	3.63	0.00	
3	17.20	46.32	9.90	10.60	6.86	15.26	4.08	21.44	72.50	19.91	3.63	1.30	
4	15.79	43.77	10.40	9.90	6.00	16.10	4.23	19.22	62.66	36.85	3.63	3.40	
5	14.00	41.22	10.40	13.37	5.58	16.10	3.93	17.86	55.33	32.95	3.63	6.38	
6	12.95	36.85	10.90	11.70	5.15	17.31	3.55	18.42	49.21	25.00	3.63	10.80	
7	2.80	31.00	10.90	8.70	5.15	14.32	3.18	18.65	52.02	17.09	3.55	11.90	
8	7.24	14.84	11.90	6.95	4.73	9.60	2.88	15.58	72.25	14.00	3.55	14.21	
9	11.20	19.80	13.27	6.95	4.73	7.90	3.25	13.27	104.95	11.90	3.55	20.72	
10	34.45	24.00	20.60	6.48	5.15	7.90	3.55	11.70	88.25	10.90	3.55	23.75	
11	31.75	24.75	23.38	9.20	4.73	6.19	4.64	22.16	70.08	9.90	3.48	20.96	
12	29.74	20.37	24.25	8.40	4.73	6.00	7.81	24.00	59.48	8.90	3.48	16.10	
13	26.85	18.53	23.00	8.60	5.49	5.75	18.08	23.00	52.02	8.90	3.48	11.50	
14	19.80	16.87	19.45	6.95	4.39	7.62	24.50	21.92	47.68	7.90	3.40	6.29	
15	14.00	16.10	15.05	6.48	4.15	4.73	24.50	19.11	50.40	7.43	3.40	11.00	
16	11.60	15.58	14.00	6.48	4.30	4.47	18.30	16.10	46.66	6.95	3.40	16.10	
17	11.90	14.74	12.95	6.00	5.41	3.55	18.76	11.20	43.77	6.00	3.40	20.37	
18	13.27	13.79	10.40	7.24	4.30	3.18	26.04	8.80	39.72	5.58	3.33	24.25	
19	10.90	12.64	9.00	7.43	4.08	3.18	29.88	7.14	24.25	5.15	3.33	32.95	
20	9.50	10.50	8.40	7.90	2.80	3.18	35.35	11.40	20.37	5.15	3.33	37.64	
21	8.40	7.71	10.20	8.40	2.43	2.80	40.37	16.32	17.53	5.15	3.25	41.05	
22	6.95	6.48	12.11	7.90	2.05	3.03	45.47	15.05	15.89	4.73	3.25	38.92	
23	6.29	8.20	15.47	7.62	2.05	3.85	49.72	13.79	14.00	4.30	3.18	15.47	
24	8.10	11.90	18.76	9.10	2.20	2.80	53.64	12.64	13.16	3.93	3.10	20.26	
25	14.53	10.90	23.00	9.90	3.10	2.43	50.40	24.75	12.43	3.93	3.03	16.54	
26	24.25	10.40	24.25	9.30	8.40	2.43	51.48	45.64	11.90	3.55	2.95	16.10	
27	25.50	10.40	19.68	8.40	16.10	2.05	39.56	51.48	13.16	3.55	2.95	17.86	
28	30.72	9.90	16.98	7.62	16.98	2.35	27.12	51.48	14.00	3.55	2.88	20.14	
29	40.20	9.40	13.48	7.90	14.84	3.93	25.25	54.00	15.16	3.40		24.88	
30	47.00	9.20	12.43	7.71	14.00	4.30	20.03	59.48	22.76	3.33		43.60	
31		8.90		7.43	13.48		19.45		19.22	3.25		39.40	
Total	545.78	617.36	442.81	262.91	197.45	191.68	668.37	688.24	1321.44	308.19	94.60	583.84	5922.67 CMSDAY
Mean	18.19	19.91	14.76	8.48	6.37	6.39	21.56	22.94	42.63	9.94	3.38	18.83	16.23 CMS
Max	47.00	47.34	24.25	13.37	16.98	17.31	53.64	59.48	104.95	36.85	3.63	43.60	104.95 CMS
Min	2.80	6.48	8.40	6.00	2.05	2.05	2.88	7.14	11.90	3.25	2.88	0.00	0.00 CMS
Runoff	47.16	53.34	38.26	22.72	17.06	16.56	57.75	59.46	114.17	26.63	8.17	50.44	511.72 MCM

Momentary Peak 108.25 CMS. at 15.75 m. (MSL.) at 18.00 Hours , on Dec 9, 2008

Runoff Yield 16.75 Liters/Second/Square KM. Momentary Peak Yield 111.71 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	116 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** +10.954 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 mean of 5 readings
Period of Available Gage Records	1989 to date
Rating Operation	
Period of Rating	1989 to date
Rated by Float	-
Rated by Current Meter	1989 to date
Stability of Channel Regimes	Rather unstable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 30 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

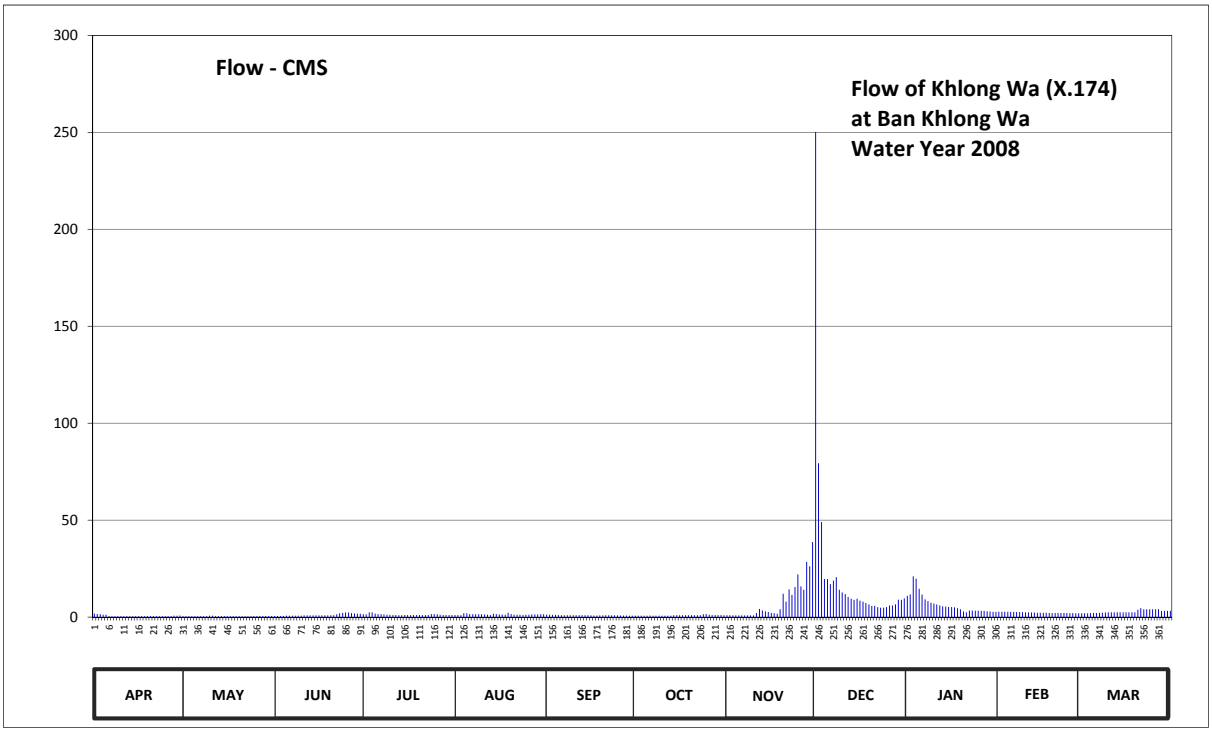
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	4.56	4.30	4.32	4.50	4.42	4.47	4.34	4.39	10.49	5.50	4.76	4.60	
2	4.52	4.30	4.32	4.50	4.41	4.44	4.34	4.39	7.84	5.55	4.76	4.60	
3	4.50	4.30	4.32	4.69	4.39	4.43	4.34	4.38	7.10	6.05	4.76	4.60	
4	4.45	4.30	4.32	4.69	4.60	4.43	4.35	4.38	5.98	5.99	4.75	4.61	
5	4.45	4.30	4.35	4.56	4.59	4.43	4.35	4.38	5.98	5.72	4.75	4.62	
6	4.30	4.30	4.35	4.52	4.52	4.40	4.36	4.38	5.85	5.54	4.74	4.63	
7	4.30	4.30	4.35	4.50	4.50	4.40	4.35	4.38	5.94	5.37	4.73	4.65	
8	4.30	4.30	4.35	4.48	4.50	4.40	4.35	4.38	6.03	5.30	4.72	4.66	
9	4.30	4.30	4.35	4.45	4.50	4.39	4.35	4.38	5.69	5.23	4.71	4.68	
10	4.30	4.34	4.35	4.43	4.49	4.39	4.35	4.38	5.61	5.20	4.70	4.69	
11	4.30	4.34	4.38	4.42	4.48	4.39	4.34	4.62	5.56	5.15	4.69	4.69	
12	4.30	4.30	4.38	4.41	4.45	4.39	4.35	4.92	5.46	5.10	4.68	4.70	
13	4.30	4.30	4.38	4.40	4.42	4.39	4.35	4.85	5.40	5.05	4.67	4.70	
14	4.30	4.30	4.38	4.40	4.54	4.39	4.40	4.79	5.35	5.04	4.65	4.70	
15	4.30	4.30	4.38	4.42	4.52	4.39	4.40	4.72	5.40	5.03	4.65	4.70	
16	4.30	4.30	4.38	4.42	4.47	4.38	4.40	4.63	5.32	5.02	4.65	4.70	
17	4.30	4.30	4.38	4.42	4.46	4.37	4.39	4.59	5.28	5.00	4.64	4.70	
18	4.30	4.30	4.38	4.42	4.44	4.37	4.39	4.55	5.22	4.95	4.63	4.70	
19	4.30	4.30	4.38	4.42	4.64	4.38	4.40	4.90	5.15	4.90	4.63	4.70	
20	4.30	4.30	4.40	4.42	4.51	4.38	4.40	5.57	5.08	4.80	4.63	4.88	
21	4.30	4.30	4.40	4.42	4.45	4.39	4.39	5.28	5.08	4.70	4.63	4.96	
22	4.30	4.30	4.50	4.42	4.45	4.39	4.39	5.70	5.01	4.84	4.63	4.90	
23	4.30	4.30	4.60	4.43	4.45	4.38	4.39	5.53	4.99	4.84	4.62	4.90	
24	4.30	4.30	4.65	4.51	4.42	4.38	4.49	5.77	4.99	4.83	4.62	4.90	
25	4.30	4.32	4.68	4.52	4.45	4.38	4.51	6.10	5.02	4.83	4.61	4.90	
26	4.30	4.32	4.68	4.49	4.44	4.37	4.45	5.79	5.10	4.82	4.61	4.90	
27	4.30	4.32	4.61	4.44	4.48	4.37	4.42	5.69	5.10	4.82	4.60	4.90	
28	4.34	4.32	4.58	4.41	4.48	4.36	4.42	6.42	5.16	4.80	4.60	4.82	
29	4.35	4.32	4.55	4.41	4.48	4.35	4.41	6.31	5.36	4.78		4.82	
30	4.36	4.32	4.55	4.41	4.49	4.34	4.41	6.79	5.35	4.75		4.82	
31		4.32		4.41	4.50		4.40		5.41	4.75		4.82	
Mean	4.34	4.31	4.43	4.46	4.48	4.39	4.39	5.04	5.69	5.10	4.67	4.75	
Max	4.56	4.34	4.68	4.69	4.64	4.47	4.51	6.79	10.49	6.05	4.76	4.96	10.49
Min	4.30	4.30	4.32	4.40	4.39	4.34	4.34	4.38	4.99	4.70	4.60	4.60	4.30

Annual Max Momentary Gage Height 11.13 m. (MSL.) , at 06.00 Hours , on Dec 1, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 3.89 m. (MSL.)

Left Bank Elevation 11.40 m. (MSL.) ,

Right Bank Elevation 11.32 m. (MSL.) , Drainage Are 116 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.80	0.50	0.60	1.50	1.10	1.35	0.70	0.95	250.20	11.00	2.80	2.00		
2	1.60	0.50	0.60	1.50	1.05	1.20	0.70	0.95	79.40	11.75	2.80	2.00		
3	1.50	0.50	0.60	2.45	0.95	1.15	0.70	0.90	49.00	21.00	2.80	2.00		
4	1.25	0.50	0.60	2.45	2.00	1.15	0.75	0.90	19.60	19.80	2.75	2.05		
5	1.25	0.50	0.75	1.80	1.95	1.15	0.75	0.90	19.60	14.60	2.75	2.10		
6	0.50	0.50	0.75	1.60	1.60	1.00	0.80	0.90	17.00	11.60	2.70	2.15		
7	0.50	0.50	0.75	1.50	1.50	1.00	0.75	0.90	18.80	9.13	2.65	2.25		
8	0.50	0.50	0.75	1.40	1.50	1.00	0.75	0.90	20.60	8.25	2.60	2.30		
9	0.50	0.50	0.75	1.25	1.50	0.95	0.75	0.90	14.08	7.38	2.55	2.40		
10	0.50	0.70	0.75	1.15	1.45	0.95	0.75	0.90	12.68	7.00	2.50	2.45		
11	0.50	0.70	0.90	1.10	1.40	0.95	0.70	2.10	11.90	6.50	2.45	2.45		
12	0.50	0.50	0.90	1.05	1.25	0.95	0.75	4.20	10.40	6.00	2.40	2.50		
13	0.50	0.50	0.90	1.00	1.10	0.95	0.75	3.50	9.50	5.50	2.35	2.50		
14	0.50	0.50	0.90	1.00	1.70	0.95	1.00	2.95	8.88	5.40	2.25	2.50		
15	0.50	0.50	0.90	1.10	1.60	0.95	1.00	2.60	9.50	5.30	2.25	2.50		
16	0.50	0.50	0.90	1.10	1.35	0.90	1.00	2.15	8.50	5.20	2.25	2.50		
17	0.50	0.50	0.90	1.10	1.30	0.85	0.95	1.95	8.00	5.00	2.20	2.50		
18	0.50	0.50	0.90	1.10	1.20	0.85	0.95	1.75	7.25	4.50	2.15	2.50		
19	0.50	0.50	0.90	1.10	2.20	0.90	1.00	4.00	6.50	4.00	2.15	2.50		
20	0.50	0.50	1.00	1.10	1.55	0.90	1.00	12.05	5.80	3.00	2.15	3.80		
21	0.50	0.50	1.00	1.10	1.25	0.95	0.95	8.00	5.80	2.50	2.15	4.60		
22	0.50	0.50	1.50	1.10	1.25	0.95	0.95	14.25	5.10	3.40	2.15	4.00		
23	0.50	0.50	2.00	1.15	1.25	0.90	0.95	11.45	4.90	3.40	2.10	4.00		
24	0.50	0.50	2.25	1.55	1.10	0.90	1.45	15.48	4.90	3.30	2.10	4.00		
25	0.50	0.60	2.40	1.60	1.25	0.90	1.55	22.00	5.20	3.30	2.05	4.00		
26	0.50	0.60	2.40	1.45	1.20	0.85	1.25	15.83	6.00	3.20	2.05	4.00		
27	0.50	0.60	2.05	1.20	1.40	0.85	1.10	14.08	6.00	3.20	2.00	4.00		
28	0.70	0.60	1.90	1.05	1.40	0.80	1.10	28.50	6.60	3.00	2.00	3.20		
29	0.75	0.60	1.75	1.05	1.40	0.75	1.05	26.20	9.00	2.90		3.20		
30	0.80	0.60	1.75	1.05	1.45	0.70	1.05	38.70	8.88	2.75		3.20		
31		0.60		1.05	1.50		1.00		9.65	2.75		3.20		
Total	20.65	16.60	35.00	40.70	43.70	28.60	28.90	240.84	659.22	205.61	66.10	89.35	1475.27	CMSDAY
Mean	0.69	0.54	1.17	1.31	1.41	0.95	0.93	8.03	21.27	6.63	2.36	2.88	4.04	CMS
Max	1.80	0.70	2.40	2.45	2.20	1.35	1.55	38.70	250.20	21.00	2.80	4.60	250.20	CMS
Min	0.50	0.50	0.60	1.00	0.95	0.70	0.70	0.90	4.90	2.50	2.00	2.00	0.50	CMS
Runoff	1.78	1.43	3.02	3.52	3.78	2.47	2.50	20.81	56.96	17.76	5.71	7.72	127.46	MCM

Momentary Peak 304.05 CMS. at 11.13 m. (MSL.) at 06.00 Hours , on Dec 1, 2008

Runoff Yield 34.84 Liters/Second/Square KM. Momentary Peak Yield 2621.12 Liters/Second/Square KM.

WATER YEAR : 2008

THALE SAP SONGKHLA

Upper Khlong Wat at Ban Hu Rae , Songkhla (X.240)

Lat 06 - 59 - 03 N Long 100 - 19 - 44 E

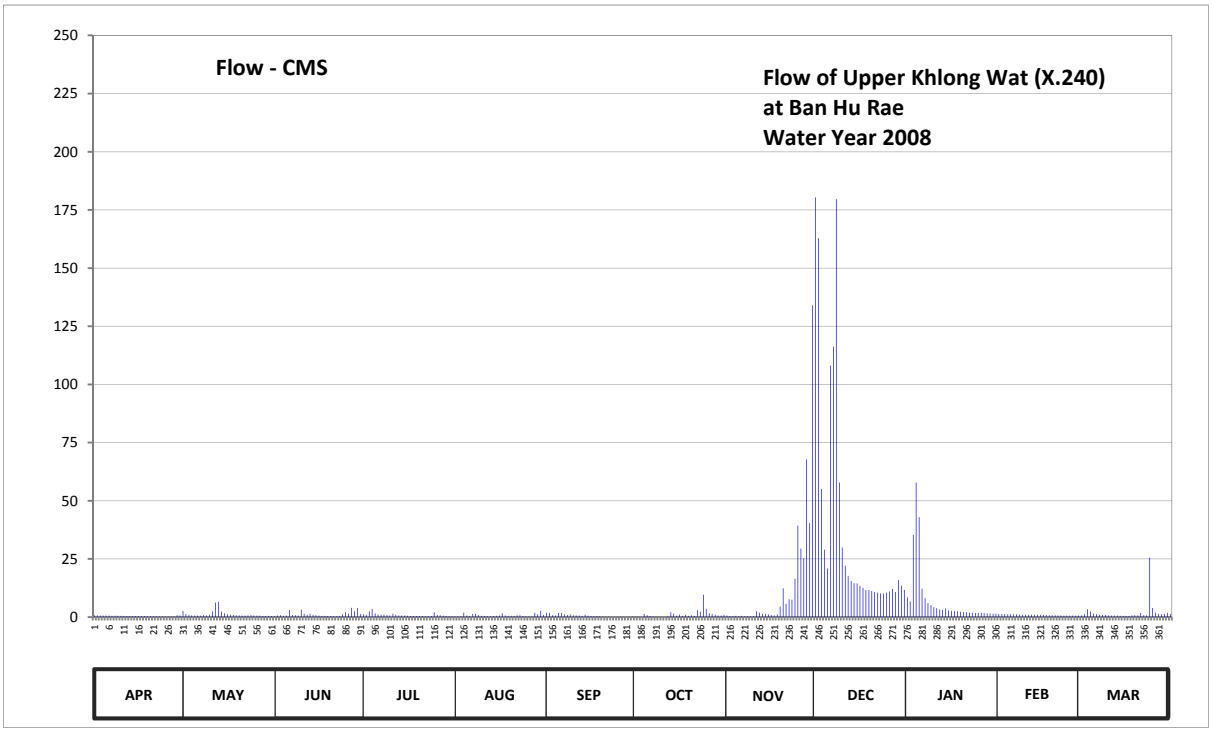
Location : on right bank at the bridge.

	Ban Hu Rae	**Amphoe** Hat Yai	**Changwat** Songkhla
Drainge 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 mean of 5 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
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 10 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	17.95	18.33	17.87	18.03	17.86	18.18	17.82	17.93	23.83	19.13	18.07	17.95	
2	17.95	18.06	17.94	18.00	17.85	18.15	17.81	17.90	23.61	18.89	18.07	18.05	
3	17.94	17.98	17.96	18.29	17.85	17.97	17.79	17.88	21.63	20.97	18.06	18.45	
4	17.94	17.95	17.91	18.48	18.19	17.94	18.08	17.91	20.69	21.71	18.05	18.28	
5	17.93	17.94	17.94	18.12	17.94	18.15	17.96	17.87	20.25	21.25	18.05	18.10	
6	17.93	17.93	18.41	18.02	17.90	18.16	17.89	17.91	22.81	19.52	18.04	18.06	
7	17.92	17.92	17.98	18.01	18.07	18.03	17.85	17.87	22.94	19.08	18.03	18.00	
8	17.92	17.96	17.97	18.00	18.07	17.98	17.84	17.89	23.82	18.81	18.02	17.98	
9	17.92	17.94	17.94	17.98	17.97	18.03	17.81	17.87	21.71	18.69	18.01	17.99	
10	17.91	18.00	18.43	17.95	17.91	17.97	17.80	17.89	20.73	18.57	18.01	17.95	
11	17.91	18.30	18.09	18.09	17.89	17.95	17.80	18.29	20.32	18.51	18.01	17.94	
12	17.90	18.83	18.01	18.00	17.87	17.93	17.85	18.18	20.05	18.44	18.01	17.93	
13	17.90	18.87	18.09	17.95	17.86	17.91	18.23	18.09	19.85	18.41	18.00	17.93	
14	17.89	18.28	18.01	17.94	17.89	18.01	18.09	18.08	19.76	18.49	18.00	17.92	
15	17.89	18.13	17.96	17.94	17.91	17.92	17.92	18.03	19.75	18.38	17.99	17.91	
16	17.89	18.05	17.93	17.92	17.94	17.90	18.02	17.97	19.64	18.34	17.98	17.91	
17	17.88	18.02	17.91	17.90	18.13	17.88	17.91	17.95	19.56	18.32	17.98	17.90	
18	17.88	17.99	17.91	17.89	17.94	17.88	17.99	18.03	19.46	18.29	17.97	17.95	
19	17.87	17.97	17.89	17.89	17.90	17.87	17.91	18.60	19.46	18.26	17.97	17.96	
20	17.87	17.95	17.89	17.89	17.91	17.84	17.95	19.54	19.42	18.23	17.96	17.97	
21	17.87	17.93	17.87	17.89	17.90	17.84	17.91	18.76	19.38	18.21	17.95	18.15	
22	17.87	17.93	17.87	17.87	17.95	17.83	18.40	19.03	19.35	18.19	17.95	17.97	
23	17.86	17.95	17.89	17.87	17.96	17.81	18.26	19.00	19.32	18.17	17.94	17.95	
24	17.86	17.96	18.04	17.90	17.89	17.81	19.26	19.95	19.31	18.16	17.94	20.52	
25	17.86	17.95	18.22	18.23	17.87	17.81	18.48	21.12	19.35	18.16	17.93	18.52	
26	17.86	17.94	18.10	17.98	17.85	17.82	18.13	20.71	19.40	18.17	17.93	18.18	
27	17.85	17.92	18.53	17.96	17.85	17.81	18.08	20.50	19.51	18.15	17.93	18.09	
28	17.85	17.90	18.31	17.92	18.17	17.80	18.00	21.96	19.38	18.13	17.93	18.04	
29	17.96	17.89	18.52	17.89	18.05	17.81	17.93	21.16	19.89	18.12		18.07	
30	17.95	17.91	18.07	17.87	18.33	17.85	17.94	23.20	19.65	18.10		18.17	
31		17.89		17.87	17.99		17.99		19.47	18.10		18.08	
Mean	17.90	18.05	18.05	17.99	17.96	17.93	18.02	18.90	20.43	18.71	17.99	18.12	
Max	17.96	18.87	18.53	18.48	18.33	18.18	19.26	23.20	23.83	21.71	18.07	20.52	23.83
Min	17.85	17.89	17.87	17.87	17.85	17.80	17.79	17.87	19.31	18.10	17.93	17.90	17.79

Annual Max Momentary Gage Height	24.19	m. (MSL.) ,	at 06.00 Hours , on Dec 8, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	16.92	m. (MSL.)
Left Bank Elevation	25.08	m. (MSL.) ,			
Right Bank Elevation	25.06	m. (MSL.) ,	Drainage Are	127	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.75	2.65	0.35	1.15	0.30	1.90	0.10	0.65	180.40	8.48	1.35	0.75		
2	0.75	1.30	0.70	1.00	0.25	1.75	0.05	0.50	162.80	6.68	1.35	1.25		
3	0.70	0.90	0.80	2.45	0.25	0.85	0.00	0.40	55.05	35.33	1.30	3.38		
4	0.70	0.75	0.55	3.60	1.95	0.70	1.40	0.55	29.03	57.85	1.25	2.40		
5	0.65	0.70	0.70	1.60	0.70	1.75	0.80	0.35	20.88	43.00	1.25	1.50		
6	0.65	0.65	3.08	1.10	0.50	1.80	0.45	0.55	108.13	12.20	1.20	1.30		
7	0.60	0.60	0.90	1.05	1.35	1.15	0.25	0.35	116.25	8.10	1.15	1.00		
8	0.60	0.80	0.85	1.00	1.35	0.90	0.20	0.45	179.60	6.08	1.10	0.90		
9	0.60	0.70	0.70	0.90	0.85	1.15	0.05	0.35	57.85	5.18	1.05	0.95		
10	0.55	1.00	3.23	0.75	0.55	0.85	0.00	0.45	29.93	4.28	1.05	0.75		
11	0.55	2.50	1.45	1.45	0.45	0.75	0.00	2.45	22.10	3.83	1.05	0.70		
12	0.50	6.23	1.05	1.00	0.35	0.65	0.25	1.90	17.75	3.30	1.05	0.65		
13	0.50	6.53	1.45	0.75	0.30	0.55	2.15	1.45	15.50	3.08	1.00	0.65		
14	0.45	2.40	1.05	0.70	0.45	1.05	1.45	1.40	14.60	3.68	1.00	0.60		
15	0.45	1.65	0.80	0.70	0.55	0.60	0.60	1.15	14.50	2.90	0.95	0.55		
16	0.45	1.25	0.65	0.60	0.70	0.50	1.10	0.85	13.40	2.70	0.90	0.55		
17	0.40	1.10	0.55	0.50	1.65	0.40	0.55	0.75	12.60	2.60	0.90	0.50		
18	0.40	0.95	0.55	0.45	0.70	0.40	0.95	1.15	11.60	2.45	0.85	0.75		
19	0.35	0.85	0.45	0.45	0.50	0.35	0.55	4.50	11.60	2.30	0.85	0.80		
20	0.35	0.75	0.45	0.45	0.55	0.20	0.75	12.40	11.20	2.15	0.80	0.85		
21	0.35	0.65	0.35	0.45	0.50	0.20	0.55	5.70	10.80	2.05	0.75	1.75		
22	0.35	0.65	0.35	0.35	0.75	0.15	3.00	7.73	10.50	1.95	0.75	0.85		
23	0.30	0.75	0.45	0.35	0.80	0.05	2.30	7.50	10.20	1.85	0.70	0.75		
24	0.30	0.80	1.20	0.50	0.45	0.05	9.60	16.50	10.10	1.80	0.70	25.60		
25	0.30	0.75	2.10	2.15	0.35	0.05	3.60	39.30	10.50	1.80	0.65	3.90		
26	0.30	0.70	1.50	0.90	0.25	0.10	1.65	29.48	11.00	1.85	0.65	1.90		
27	0.25	0.60	3.98	0.80	0.25	0.05	1.40	25.25	12.10	1.75	0.65	1.45		
28	0.25	0.50	2.55	0.60	1.85	0.00	1.00	67.80	10.80	1.65	0.65	1.20		
29	0.80	0.45	3.90	0.45	1.25	0.05	0.65	40.40	15.90	1.60		1.35		
30	0.75	0.55	1.35	0.35	2.65	0.25	0.70	134.00	13.50	1.50		1.85		
31		0.45		0.35	0.95		0.95		11.70	1.50		1.40		
Total	14.90	41.11	38.04	28.90	24.30	19.20	37.05	406.26	1211.87	235.47	26.90	62.78	2146.78	CMSDAY
Mean	0.50	1.33	1.27	0.93	0.78	0.64	1.20	13.54	39.09	7.60	0.96	2.03	5.88	CMS
Max	0.80	6.53	3.98	3.60	2.65	1.90	9.60	134.00	180.40	57.85	1.35	25.60	180.40	CMS
Min	0.25	0.45	0.35	0.35	0.25	0.00	0.00	0.35	10.10	1.50	0.65	0.50	0.00	CMS
Runoff	1.29	3.55	3.29	2.50	2.10	1.66	3.20	35.10	104.71	20.34	2.32	5.42	185.48	MCM

Momentary Peak 210.15 CMS. at 24.19 m. (MSL.) at 06.00 Hours , on Dec 8, 2008

Runoff Yield 46.16 Liters/Second/Square KM. Momentary Peak Yield 1649.27 Liters/Second/Square KM.

WATER YEAR : 2008

THALE SAP SONGKHLA

Khlong Nui at Wat Phupha Phimuk, Phatthalung (X.265)

Lat 07 - 37 - 01 N Long 100 - 04 - 45 E

Location : on left bank in front of Wat Phupha Phimuk

Ban Wat Phipha Phimuk **Amphoe** Mueang **Changwat** Phatthalung

Drainge Area	339 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.Near the gage site. **Elevation** +9.298 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 mean of 5 readings
Period of Available Gage Records	2007 to date
Rating Operation	
Period of Rating	2007 to date
Rated by Float	-
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 poor. Stage-discharge relation defined by 9 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

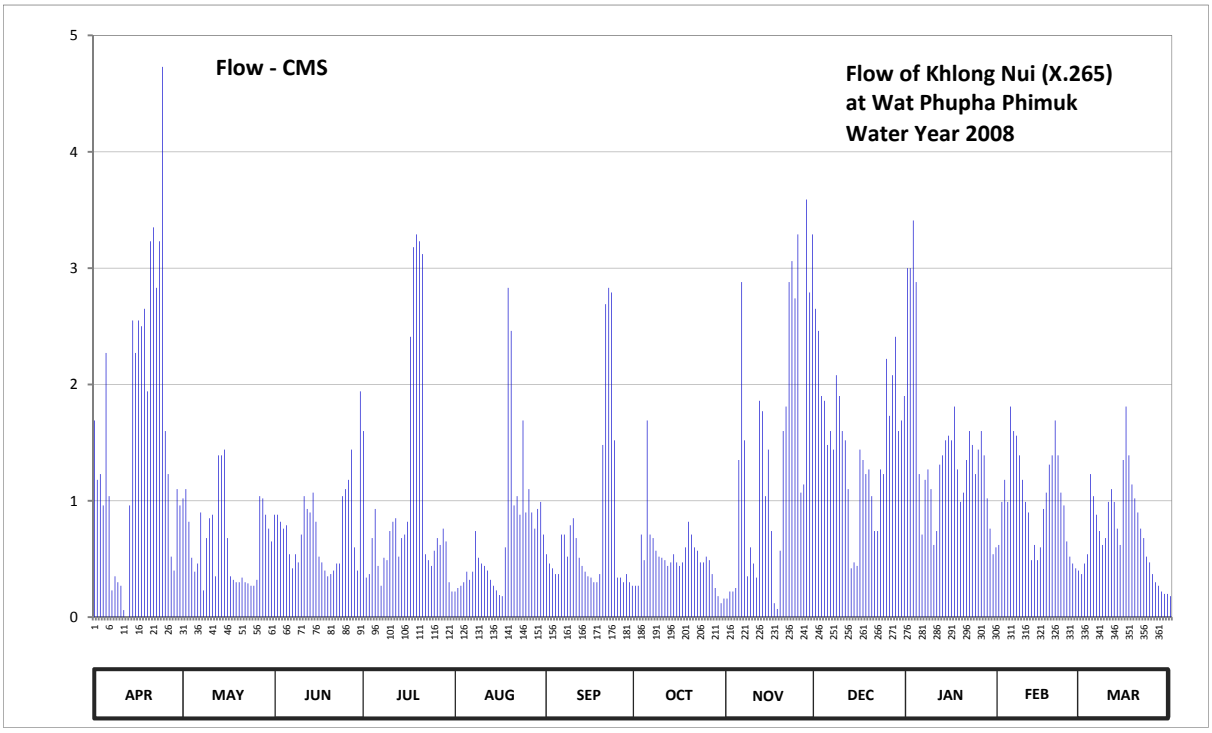
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.14	6.97	6.92	7.12	6.61	6.80	6.64	6.56	7.35	7.42	6.83	6.70	
2	7.02	7.00	6.92	6.68	6.63	6.75	6.64	6.61	7.31	7.42	6.96	6.75	
3	7.03	6.90	6.90	6.70	6.64	6.73	6.86	6.61	7.19	7.49	7.02	6.80	
4	6.95	6.78	6.88	6.85	6.66	6.70	6.77	6.63	7.18	7.40	6.96	7.03	
5	7.27	6.71	6.89	6.94	6.71	6.70	7.14	7.06	7.09	7.03	7.17	6.98	
6	6.98	6.75	6.80	6.74	6.67	6.86	6.86	7.40	7.12	6.86	7.12	6.92	
7	6.62	6.93	6.73	6.64	6.71	6.86	6.85	7.10	7.08	7.02	7.11	6.87	
8	6.69	6.62	6.80	6.78	6.87	6.79	6.81	6.69	7.23	7.04	7.07	6.83	
9	6.66	6.85	6.76	6.77	6.78	6.89	6.79	6.82	7.19	7.00	7.02	6.85	
10	6.64	6.91	6.86	6.87	6.75	6.91	6.78	6.75	7.12	6.83	6.96	6.96	
11	6.46	6.92	6.98	6.90	6.74	6.85	6.77	6.68	7.10	6.87	6.93	7.00	
12	6.40	6.69	6.94	6.91	6.72	6.78	6.74	7.18	7.00	7.05	6.77	6.96	
13	6.95	7.07	6.93	6.79	6.67	6.74	6.76	7.16	6.73	7.07	6.83	6.88	
14	7.33	7.07	6.99	6.85	6.64	6.71	6.80	6.98	6.76	7.10	6.77	6.83	
15	7.27	7.08	6.90	6.86	6.62	6.69	6.76	7.08	6.74	7.11	6.82	7.06	
16	7.33	6.85	6.79	6.90	6.59	6.68	6.74	6.87	7.08	7.10	6.94	7.17	
17	7.32	6.69	6.76	7.30	6.58	6.66	6.76	6.52	7.06	7.17	6.99	7.07	
18	7.35	6.67	6.72	7.45	6.82	6.66	6.82	6.47	7.03	7.04	7.05	7.01	
19	7.20	6.66	6.69	7.47	7.39	6.70	6.90	6.81	7.04	6.96	7.07	6.97	
20	7.46	6.66	6.70	7.46	7.31	7.09	6.86	7.12	6.98	6.99	7.14	6.93	
21	7.48	6.68	6.72	7.44	6.95	7.36	6.82	7.17	6.87	7.06	7.07	6.88	
22	7.39	6.66	6.75	6.80	6.98	7.39	6.81	7.40	6.87	7.12	6.99	6.85	
23	7.46	6.65	6.75	6.77	6.92	7.38	6.76	7.43	7.04	7.09	6.95	6.79	
24	7.70	6.64	6.98	6.74	7.14	7.10	6.76	7.37	7.03	7.03	6.84	6.76	
25	7.12	6.64	7.00	6.81	6.93	6.68	6.79	7.47	7.26	7.08	6.79	6.70	
26	7.03	6.67	7.02	6.85	7.00	6.68	6.77	6.99	7.15	7.12	6.75	6.66	
27	6.79	6.98	7.08	6.83	6.93	6.66	6.70	7.01	7.23	7.07	6.73	6.64	
28	6.72	6.97	6.82	6.88	6.88	6.70	6.63	7.52	7.30	6.97	6.72	6.61	
29	7.00	6.92	6.72	6.84	6.94	6.66	6.58	7.38	7.12	6.88		6.60	
30	6.95	6.88	7.20	6.66	6.96	6.64	6.52	7.47	7.14	6.80		6.60	
31		6.84		6.61	6.86		6.56		7.19	6.82		6.58	
Mean	7.06	6.82	6.86	6.91	6.83	6.83	6.77	7.01	7.08	7.06	6.94	6.85	
Max	7.70	7.08	7.20	7.47	7.39	7.39	7.14	7.52	7.35	7.49	7.17	7.17	7.70
Min	6.40	6.62	6.69	6.61	6.58	6.64	6.52	6.47	6.73	6.80	6.72	6.58	6.40

Annual Max Momentary Gage Height 8.10 m. (MSL.) , at 15.00 Hours , on Aug 24, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 6.10 m. (MSL.)

Left Bank Elevation 8.70 m. (MSL.) ,

Right Bank Elevation 8.69 m. (MSL.) , Drainage Are 339 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.69	1.02	0.88	1.60	0.22	0.54	0.27	0.16	2.65	3.00	0.62	0.37		
2	1.18	1.10	0.88	0.34	0.25	0.46	0.27	0.22	2.46	3.00	0.99	0.46		
3	1.23	0.82	0.82	0.37	0.27	0.42	0.71	0.22	1.90	3.41	1.18	0.54		
4	0.96	0.51	0.76	0.68	0.30	0.37	0.49	0.25	1.86	2.88	0.99	1.23		
5	2.27	0.39	0.79	0.93	0.39	0.37	1.69	1.35	1.48	1.23	1.81	1.04		
6	1.04	0.46	0.54	0.44	0.32	0.71	0.71	2.88	1.60	0.71	1.60	0.88		
7	0.23	0.90	0.42	0.27	0.39	0.71	0.68	1.52	1.44	1.18	1.56	0.74		
8	0.35	0.23	0.54	0.51	0.74	0.52	0.57	0.35	2.08	1.27	1.39	0.62		
9	0.30	0.68	0.47	0.49	0.51	0.79	0.52	0.60	1.90	1.10	1.18	0.68		
10	0.27	0.85	0.71	0.74	0.46	0.85	0.51	0.46	1.60	0.62	0.99	0.99		
11	0.06	0.88	1.04	0.82	0.44	0.68	0.49	0.34	1.52	0.74	0.90	1.10		
12	0.00	0.35	0.93	0.85	0.40	0.51	0.44	1.86	1.10	1.31	0.49	0.99		
13	0.96	1.39	0.90	0.52	0.32	0.44	0.47	1.77	0.42	1.39	0.62	0.76		
14	2.55	1.39	1.07	0.68	0.27	0.39	0.54	1.04	0.47	1.52	0.49	0.62		
15	2.27	1.44	0.82	0.71	0.23	0.35	0.47	1.44	0.44	1.56	0.60	1.35		
16	2.55	0.68	0.52	0.82	0.19	0.34	0.44	0.74	1.44	1.52	0.93	1.81		
17	2.50	0.35	0.47	2.41	0.18	0.30	0.47	0.12	1.35	1.81	1.07	1.39		
18	2.65	0.32	0.40	3.18	0.60	0.30	0.60	0.07	1.23	1.27	1.31	1.14		
19	1.94	0.30	0.35	3.29	2.83	0.37	0.82	0.57	1.27	0.99	1.39	1.02		
20	3.23	0.30	0.37	3.23	2.46	1.48	0.71	1.60	1.04	1.07	1.69	0.90		
21	3.35	0.34	0.40	3.12	0.96	2.69	0.60	1.81	0.74	1.35	1.39	0.76		
22	2.83	0.30	0.46	0.54	1.04	2.83	0.57	2.88	0.74	1.60	1.07	0.68		
23	3.23	0.29	0.46	0.49	0.88	2.79	0.47	3.06	1.27	1.48	0.96	0.52		
24	4.73	0.27	1.04	0.44	1.69	1.52	0.47	2.74	1.23	1.23	0.65	0.47		
25	1.60	0.27	1.10	0.57	0.90	0.34	0.52	3.29	2.22	1.44	0.52	0.37		
26	1.23	0.32	1.18	0.68	1.10	0.34	0.49	1.07	1.73	1.60	0.46	0.30		
27	0.52	1.04	1.44	0.62	0.90	0.30	0.37	1.14	2.08	1.39	0.42	0.27		
28	0.40	1.02	0.60	0.76	0.76	0.37	0.25	3.59	2.41	1.02	0.40	0.22		
29	1.10	0.88	0.40	0.65	0.93	0.30	0.18	2.79	1.60	0.76		0.20		
30	0.96	0.76	1.94	0.30	0.99	0.27	0.12	3.29	1.69	0.54		0.20		
31		0.65		0.22	0.71		0.16		1.90	0.60		0.18		
Total	48.18	20.50	22.70	31.27	22.63	22.65	16.07	43.22	46.86	44.59	27.67	22.80	369.14	CMSDAY
Mean	1.61	0.66	0.76	1.01	0.73	0.76	0.52	1.44	1.51	1.44	0.99	0.74	1.01	CMS
Max	4.73	1.44	1.94	3.29	2.83	2.83	1.69	3.59	2.65	3.41	1.81	1.81	4.73	CMS
Min	0.00	0.23	0.35	0.22	0.18	0.27	0.12	0.07	0.42	0.54	0.40	0.18	0.00	CMS
Runoff	4.16	1.77	1.96	2.70	1.96	1.96	1.39	3.73	4.05	3.85	2.39	1.97	31.89	MCM

Momentary Peak 7.57 CMS. at 8.10 m. (MSL.) at 15.00 Hours , on Aug 24, 2008

Runoff Yield 2.98 Liters/Second/Square KM. Momentary Peak Yield 22.33 Liters/Second/Square KM.

WATER YEAR : 2008

THALE SAP SONGKHLA

Khlong Pa Bon at Ban Lo Han , Phatthalung (X.266)

Lat 07 - 01 - 35 N Long 100 - 05 - 51 E

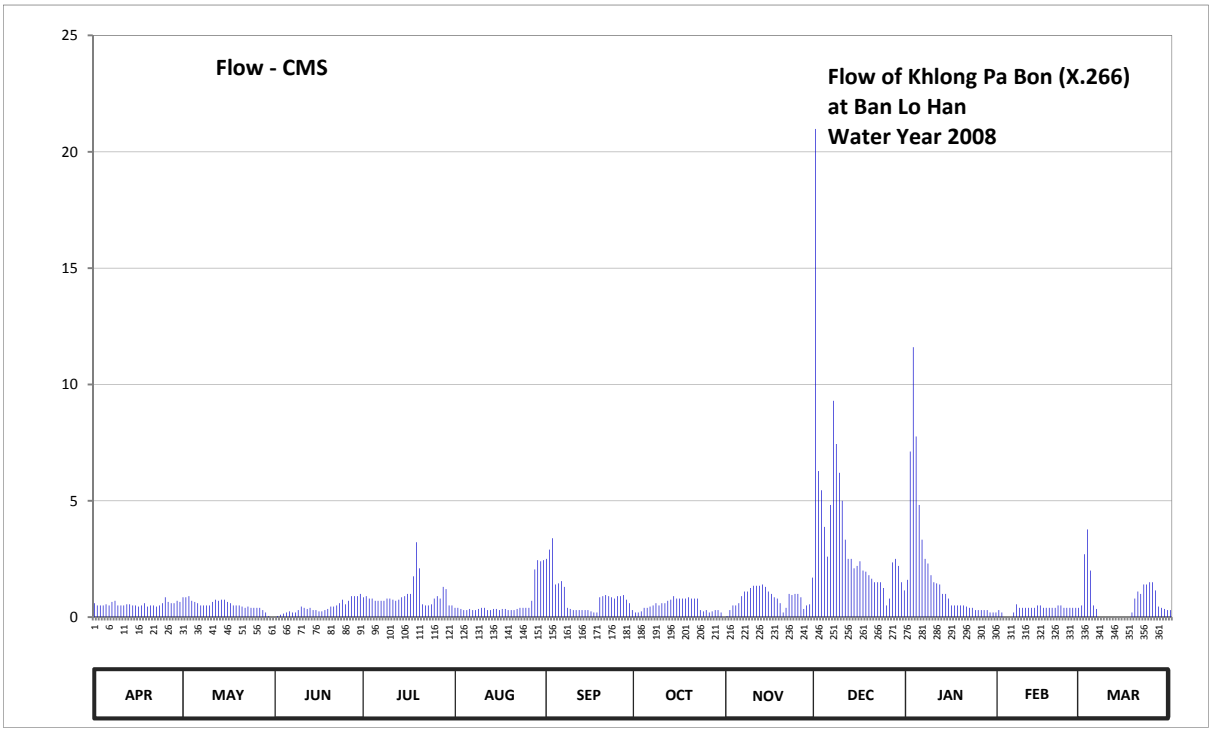
Location : on left bank at Ban Lo Han.

	Ban Lo Han	**Amphoe** Pa Bon	**Changwat** Phatthalung
Drainge 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**	+7.390 m. (A.D.)
Gage Reading Frequency	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 Float	-		
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 18 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	0.37	0.20	0.37	0.28	0.70	0.24	0.21	2.65	0.52	0.26	0.30	
2	0.30	0.37	0.21	0.38	0.28	0.78	0.24	0.26	1.33	1.44	0.24	0.74	
3	0.30	0.38	0.22	0.36	0.27	0.87	0.25	0.30	1.22	1.94	0.20	0.94	
4	0.30	0.34	0.23	0.36	0.26	0.48	0.28	0.30	0.96	1.52	0.20	0.60	
5	0.31	0.33	0.24	0.34	0.26	0.49	0.28	0.32	0.72	1.12	0.20	0.30	
6	0.30	0.32	0.25	0.34	0.27	0.51	0.29	0.38	1.12	0.86	0.24	0.27	
7	0.33	0.30	0.24	0.34	0.26	0.46	0.30	0.42	1.70	0.70	0.31	0.20	
8	0.34	0.30	0.24	0.34	0.26	0.28	0.32	0.42	1.48	0.66	0.28	0.20	
9	0.30	0.30	0.26	0.36	0.27	0.27	0.30	0.45	1.32	0.56	0.28	0.20	
10	0.30	0.30	0.29	0.36	0.28	0.26	0.32	0.47	1.15	0.50	0.28	0.20	
11	0.30	0.33	0.28	0.35	0.28	0.26	0.32	0.47	0.86	0.49	0.28	0.20	
12	0.31	0.35	0.27	0.34	0.26	0.26	0.34	0.47	0.70	0.48	0.28	0.20	
13	0.31	0.34	0.28	0.35	0.26	0.26	0.35	0.48	0.70	0.40	0.28	0.18	
14	0.30	0.35	0.26	0.37	0.27	0.26	0.38	0.46	0.62	0.40	0.30	0.18	
15	0.30	0.35	0.26	0.38	0.27	0.26	0.36	0.42	0.64	0.36	0.30	0.18	
16	0.29	0.33	0.25	0.40	0.26	0.25	0.36	0.40	0.68	0.30	0.28	0.18	
17	0.30	0.32	0.25	0.40	0.27	0.24	0.36	0.37	0.60	0.30	0.28	0.18	
18	0.32	0.30	0.26	0.55	0.27	0.24	0.36	0.36	0.59	0.30	0.28	0.24	
19	0.29	0.30	0.27	0.84	0.26	0.37	0.37	0.32	0.56	0.30	0.28	0.36	
20	0.30	0.30	0.29	0.62	0.26	0.38	0.36	0.24	0.53	0.30	0.28	0.42	
21	0.30	0.29	0.29	0.31	0.26	0.39	0.36	0.28	0.50	0.29	0.30	0.40	
22	0.29	0.28	0.30	0.30	0.27	0.38	0.36	0.40	0.50	0.28	0.30	0.48	
23	0.30	0.29	0.32	0.30	0.28	0.37	0.26	0.39	0.50	0.28	0.28	0.48	
24	0.32	0.28	0.35	0.31	0.28	0.36	0.25	0.40	0.45	0.26	0.28	0.50	
25	0.37	0.28	0.31	0.36	0.28	0.38	0.26	0.40	0.30	0.26	0.28	0.50	
26	0.33	0.28	0.34	0.38	0.28	0.38	0.24	0.37	0.36	0.26	0.28	0.43	
27	0.32	0.28	0.38	0.36	0.34	0.39	0.25	0.27	0.67	0.26	0.28	0.29	
28	0.32	0.26	0.38	0.46	0.61	0.35	0.26	0.30	0.70	0.26	0.28	0.28	
29	0.34	0.24	0.38	0.44	0.69	0.32	0.26	0.31	0.64	0.24		0.27	
30	0.33	0.21	0.40	0.30	0.68	0.26	0.24	0.54	0.50	0.24		0.26	
31		0.20		0.30	0.69		0.20		0.43	0.24		0.26	
Mean	0.31	0.31	0.28	0.39	0.32	0.38	0.30	0.37	0.83	0.53	0.27	0.34	
Max	0.37	0.38	0.40	0.84	0.69	0.87	0.38	0.54	2.65	1.94	0.31	0.94	2.65
Min	0.29	0.20	0.20	0.30	0.26	0.24	0.20	0.21	0.30	0.24	0.20	0.18	0.18

Annual Max Momentary Gage Height	3.18	m. (A.D.) ,	at 15.00 Hours , on Dec 1 , 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	0.04	m. (A.D.)
Left Bank Elevation	7.11	m. (A.D.) ,			
Right Bank Elevation	7.01	m. (A.D.) ,	Drainage Are	38	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.60	0.85	0.00	0.85	0.40	2.50	0.20	0.05	20.98	1.60	0.30	0.50		
2	0.50	0.85	0.05	0.90	0.40	2.90	0.20	0.30	6.28	7.12	0.20	2.70		
3	0.50	0.90	0.10	0.80	0.35	3.39	0.25	0.50	5.45	11.60	0.00	3.77		
4	0.50	0.70	0.15	0.80	0.30	1.40	0.40	0.50	3.88	7.76	0.00	2.00		
5	0.55	0.65	0.20	0.70	0.30	1.45	0.40	0.60	2.60	4.82	0.00	0.50		
6	0.50	0.60	0.25	0.70	0.35	1.55	0.45	0.90	4.82	3.33	0.20	0.35		
7	0.65	0.50	0.20	0.70	0.30	1.30	0.50	1.10	9.30	2.50	0.55	0.00		
8	0.70	0.50	0.20	0.70	0.30	0.40	0.60	1.10	7.44	2.30	0.40	0.00		
9	0.50	0.50	0.30	0.80	0.35	0.35	0.50	1.25	6.20	1.80	0.40	0.00		
10	0.50	0.50	0.45	0.80	0.40	0.30	0.60	1.35	5.00	1.50	0.40	0.00		
11	0.50	0.65	0.40	0.75	0.40	0.30	0.60	1.35	3.33	1.45	0.40	0.00		
12	0.55	0.75	0.35	0.70	0.30	0.30	0.70	1.35	2.50	1.40	0.40	0.00		
13	0.55	0.70	0.40	0.75	0.30	0.30	0.75	1.40	2.50	1.00	0.40	0.00		
14	0.50	0.75	0.30	0.85	0.35	0.30	0.90	1.30	2.10	1.00	0.50	0.00		
15	0.50	0.75	0.30	0.90	0.35	0.30	0.80	1.10	2.20	0.80	0.50	0.00		
16	0.45	0.65	0.25	1.00	0.30	0.25	0.80	1.00	2.40	0.50	0.40	0.00		
17	0.50	0.60	0.25	1.00	0.35	0.20	0.80	0.85	2.00	0.50	0.40	0.00		
18	0.60	0.50	0.30	1.75	0.35	0.20	0.80	0.80	1.95	0.50	0.40	0.20		
19	0.45	0.50	0.35	3.22	0.30	0.85	0.85	0.60	1.80	0.50	0.40	0.80		
20	0.50	0.50	0.45	2.10	0.30	0.90	0.80	0.20	1.65	0.50	0.40	1.10		
21	0.50	0.45	0.45	0.55	0.30	0.95	0.80	0.40	1.50	0.45	0.50	1.00		
22	0.45	0.40	0.50	0.50	0.35	0.90	0.80	1.00	1.50	0.40	0.50	1.40		
23	0.50	0.45	0.60	0.50	0.40	0.85	0.30	0.95	1.50	0.40	0.40	1.40		
24	0.60	0.40	0.75	0.55	0.40	0.80	0.25	1.00	1.25	0.30	0.40	1.50		
25	0.85	0.40	0.55	0.80	0.40	0.90	0.30	1.00	0.50	0.30	0.40	1.50		
26	0.65	0.40	0.70	0.90	0.40	0.90	0.20	0.85	0.80	0.30	0.40	1.15		
27	0.60	0.40	0.90	0.80	0.70	0.95	0.25	0.35	2.35	0.30	0.40	0.45		
28	0.60	0.30	0.90	1.30	2.05	0.75	0.30	0.50	2.50	0.30	0.40	0.40		
29	0.70	0.20	0.90	1.20	2.45	0.60	0.30	0.55	2.20	0.20		0.35		
30	0.65	0.05	1.00	0.50	2.40	0.30	0.20	1.70	1.50	0.20		0.30		
31		0.00		0.50	2.45		0.00		1.15	0.20		0.30		
Total	16.70	16.35	12.50	28.87	19.05	27.34	15.60	25.90	111.13	55.83	10.05	21.67	360.99	CMSDAY
Mean	0.56	0.53	0.42	0.93	0.61	0.91	0.50	0.86	3.58	1.80	0.36	0.70	0.99	CMS
Max	0.85	0.90	1.00	3.22	2.45	3.39	0.90	1.70	20.98	11.60	0.55	3.77	20.98	CMS
Min	0.45	0.00	0.00	0.50	0.30	0.20	0.00	0.05	0.50	0.20	0.00	0.00	0.00	CMS
Runoff	1.44	1.41	1.08	2.49	1.65	2.36	1.35	2.24	9.60	4.82	0.87	1.87	31.19	MCM

Momentary Peak 31.54 CMS. at 3.18 m. (A.D.) at 15.00 Hours , on Dec 1, 2008

Runoff Yield 26.03 Liters/Second/Square KM. Momentary Peak Yield 830.00 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge Area	295 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**	+7.000 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Float	-		
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 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

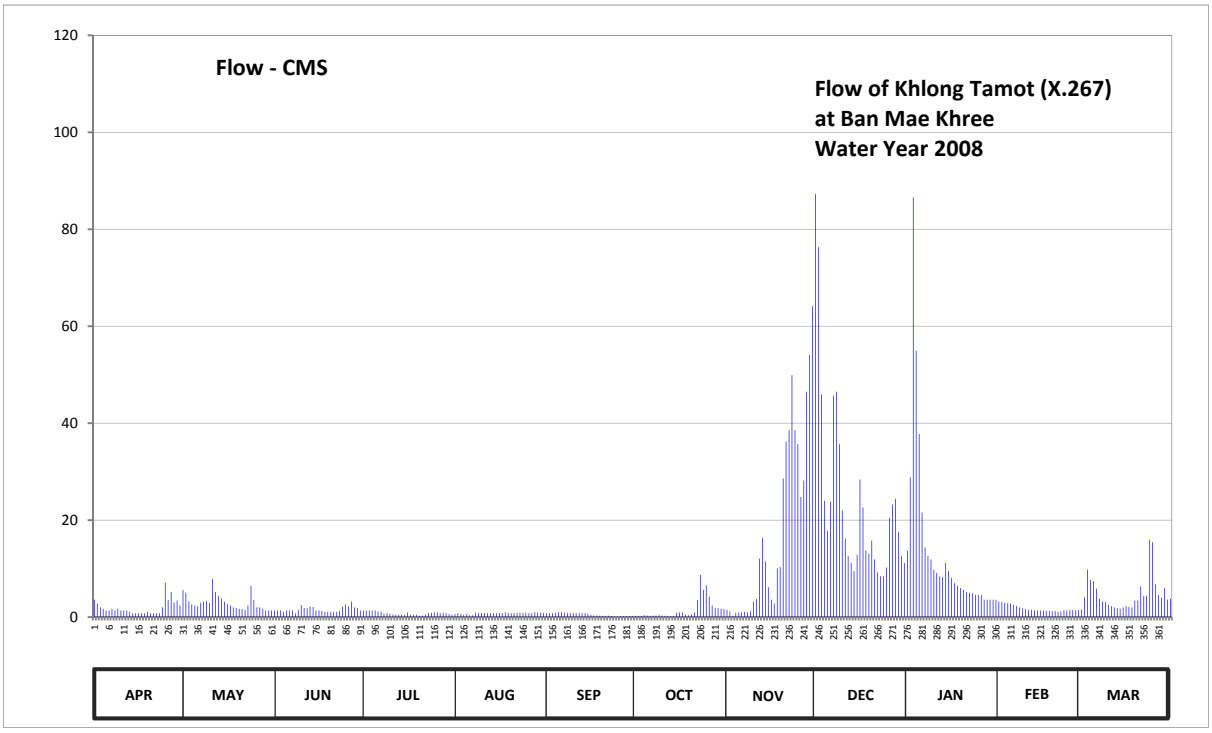
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.40	1.60	1.10	1.10	0.84	0.90	0.65	1.05	4.99	2.18	1.35	1.13	
2	1.30	1.54	1.10	1.10	0.90	0.90	0.65	1.00	4.66	2.98	1.34	1.45	
3	1.20	1.36	1.10	1.10	0.86	0.90	0.65	0.70	3.67	4.97	1.32	1.90	
4	1.15	1.28	1.05	1.10	0.78	0.92	0.75	0.91	2.74	3.98	1.31	1.75	
5	1.10	1.25	1.09	1.10	0.85	0.96	0.70	0.93	2.41	3.36	1.30	1.73	
6	1.10	1.23	1.10	1.06	0.74	0.97	0.65	0.95	2.73	2.62	1.27	1.62	
7	1.15	1.32	1.10	1.05	0.73	0.95	0.68	0.98	3.66	2.22	1.24	1.42	
8	1.10	1.35	1.00	0.99	0.93	0.92	0.69	0.95	3.69	2.10	1.20	1.36	
9	1.15	1.37	1.12	0.90	0.90	0.90	0.75	1.07	3.28	2.05	1.16	1.34	
10	1.10	1.32	1.26	0.87	0.90	0.90	0.70	1.35	2.64	1.90	1.14	1.27	
11	1.10	1.76	1.18	0.82	0.90	0.90	0.65	1.41	2.32	1.85	1.12	1.23	
12	1.10	1.56	1.17	0.80	0.90	0.90	0.65	2.06	2.10	1.80	1.12	1.20	
13	1.05	1.48	1.22	0.80	0.90	0.90	0.60	2.33	2.00	1.79	1.11	1.17	
14	1.00	1.42	1.21	0.80	0.90	0.90	0.60	2.02	1.88	2.00	1.10	1.15	
15	1.00	1.35	1.10	0.80	0.90	0.86	0.93	1.64	2.12	1.88	1.10	1.20	
16	1.00	1.29	1.10	0.94	0.90	0.78	0.95	1.40	2.96	1.78	1.10	1.23	
17	1.00	1.25	1.08	0.80	0.90	0.71	0.95	1.30	2.67	1.70	1.09	1.21	
18	1.00	1.20	1.05	0.80	0.94	0.70	0.80	1.92	2.18	1.66	1.08	1.20	
19	1.05	1.18	1.05	0.80	0.91	0.67	0.73	1.94	2.13	1.63	1.07	1.38	
20	1.00	1.15	1.05	0.68	0.90	0.65	0.82	2.97	2.30	1.60	1.07	1.38	
21	1.00	1.14	1.05	0.69	0.90	0.65	0.94	3.30	2.05	1.55	1.05	1.65	
22	1.00	1.12	1.05	0.80	0.92	0.67	1.31	3.39	1.86	1.54	1.06	1.48	
23	1.00	1.25	1.07	0.90	0.93	0.63	1.88	3.81	1.80	1.53	1.10	1.48	
24	1.20	1.66	1.22	0.92	0.91	0.55	1.55	3.39	1.80	1.50	1.10	2.31	
25	1.71	1.39	1.28	0.95	0.92	0.56	1.65	3.28	1.93	1.50	1.11	2.28	
26	1.39	1.20	1.23	0.95	0.91	0.61	1.39	2.78	2.56	1.50	1.11	1.68	
27	1.56	1.20	1.35	0.91	0.90	0.60	1.18	2.95	2.70	1.40	1.11	1.50	
28	1.33	1.15	1.20	0.90	0.95	0.60	1.10	3.69	2.76	1.40	1.11	1.44	
29	1.38	1.10	1.18	0.90	0.93	0.64	1.10	3.95	2.40	1.40		1.63	
30	1.25	1.10	1.10	0.84	0.93	0.65	1.08	4.28	2.10	1.40		1.40	
31		1.10		0.80	0.91		1.07		2.00	1.40		1.42	
Mean	1.16	1.31	1.13	0.90	0.89	0.78	0.93	2.12	2.62	2.01	1.16	1.47	
Max	1.71	1.76	1.35	1.10	0.95	0.97	1.88	4.28	4.99	4.97	1.35	2.31	4.99
Min	1.00	1.10	1.00	0.68	0.73	0.55	0.60	0.70	1.80	1.40	1.05	1.13	0.55

Annual Max Momentary Gage Height 5.20 m. (A.D.) , at 06.00 Hours , on Jan 3, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed -0.15 m. (A.D.)

Left Bank Elevation 7.01 m. (A.D.) ,

Right Bank Elevation 7.05 m. (A.D.) , Drainage Are 295 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.60	5.60	1.40	1.40	0.63	0.83	0.26	1.51	87.26	13.72	3.20	1.58		
2	2.80	5.00	1.40	1.40	0.83	0.83	0.26	1.16	76.32	28.80	3.12	4.10		
3	2.00	3.28	1.40	1.40	0.70	0.83	0.26	0.34	45.96	86.58	2.96	9.80		
4	1.70	2.64	1.10	1.40	0.47	0.90	0.42	0.86	24.00	55.00	2.88	7.70		
5	1.40	2.40	1.34	1.40	0.67	1.03	0.34	0.93	17.78	37.76	2.80	7.42		
6	1.40	2.24	1.40	1.16	0.40	1.06	0.26	1.00	23.80	21.60	2.56	5.88		
7	1.70	2.96	1.40	1.10	0.39	1.00	0.31	1.09	45.68	14.36	2.32	3.80		
8	1.40	3.20	0.80	0.76	0.93	0.90	0.32	1.00	46.52	12.60	2.00	3.28		
9	1.70	3.36	1.52	0.83	0.83	0.83	0.42	1.22	35.68	11.90	1.76	3.12		
10	1.40	2.96	2.48	0.73	0.83	0.83	0.34	3.20	22.00	9.80	1.64	2.56		
11	1.40	7.84	1.88	0.57	0.83	0.83	0.26	3.70	16.16	9.10	1.52	2.24		
12	1.40	5.20	1.82	0.50	0.83	0.83	0.26	12.04	12.60	8.40	1.52	2.00		
13	1.10	4.40	2.16	0.50	0.83	0.83	0.18	16.34	11.20	8.26	1.46	1.82		
14	0.80	3.80	2.08	0.50	0.83	0.83	0.18	11.48	9.52	11.20	1.40	1.70		
15	0.80	3.20	1.40	0.50	0.83	0.70	0.93	6.16	12.88	9.52	1.40	2.00		
16	0.80	2.72	1.40	0.96	0.83	0.47	1.00	3.60	28.40	8.12	1.40	2.24		
17	0.80	2.40	1.28	0.50	0.83	0.36	1.00	2.80	22.60	7.00	1.34	2.08		
18	0.80	2.00	1.10	0.50	0.96	0.34	0.50	10.08	13.72	6.44	1.28	2.00		
19	1.10	1.88	1.10	0.50	0.86	0.29	0.39	10.36	13.02	6.02	1.22	3.44		
20	0.80	1.70	1.10	0.31	0.83	0.26	0.57	28.60	15.80	5.60	1.22	3.44		
21	0.80	1.64	1.10	0.32	0.83	0.26	0.96	36.20	11.90	5.10	1.10	6.30		
22	0.80	1.52	1.10	0.50	0.90	0.29	3.52	38.54	9.24	5.00	1.16	4.40		
23	0.80	2.40	1.22	0.83	0.93	0.23	8.70	49.90	8.40	4.90	1.40	4.40		
24	2.00	6.44	2.16	0.90	0.86	0.09	5.65	38.54	8.40	4.60	1.40	15.98		
25	7.14	3.52	2.64	1.00	0.90	0.11	6.55	35.68	10.22	4.60	1.46	15.44		
26	3.52	2.00	2.24	1.00	0.86	0.20	4.21	24.80	20.48	4.60	1.46	6.72		
27	5.20	2.00	3.20	0.86	0.83	0.18	2.42	28.20	23.20	3.60	1.46	4.60		
28	3.04	1.70	2.00	0.83	1.00	0.18	1.86	46.52	24.40	3.60	1.46	4.00		
29	3.44	1.40	1.88	0.83	0.93	0.24	1.86	54.10	17.60	3.60		6.02		
30	2.40	1.40	1.40	0.63	0.93	0.26	1.72	64.16	12.60	3.60		3.60		
31		1.40		0.50	0.86		1.65		11.20	3.60		3.80		
Total	58.04	94.20	48.50	25.12	24.97	16.82	47.56	534.11	738.54	418.58	49.90	147.46	2203.80	CMSDAY
Mean	1.93	3.04	1.62	0.81	0.81	0.56	1.53	17.80	23.82	13.50	1.78	4.76	6.04	CMS
Max	7.14	7.84	3.20	1.40	1.00	1.06	8.70	64.16	87.26	86.58	3.20	15.98	87.26	CMS
Min	0.80	1.40	0.80	0.31	0.39	0.09	0.18	0.34	8.40	3.60	1.10	1.58	0.09	CMS
Runoff	5.01	8.14	4.19	2.17	2.16	1.45	4.11	46.15	63.81	36.17	4.31	12.74	190.41	MCM

Momentary Peak 94.40 CMS. at 5.20 m. (A.D.) at 06.00 Hours , on Jan 3, 2008

Runoff Yield 20.47 Liters/Second/Square KM. Momentary Peak Yield 320.00 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 Float	-		
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 30 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

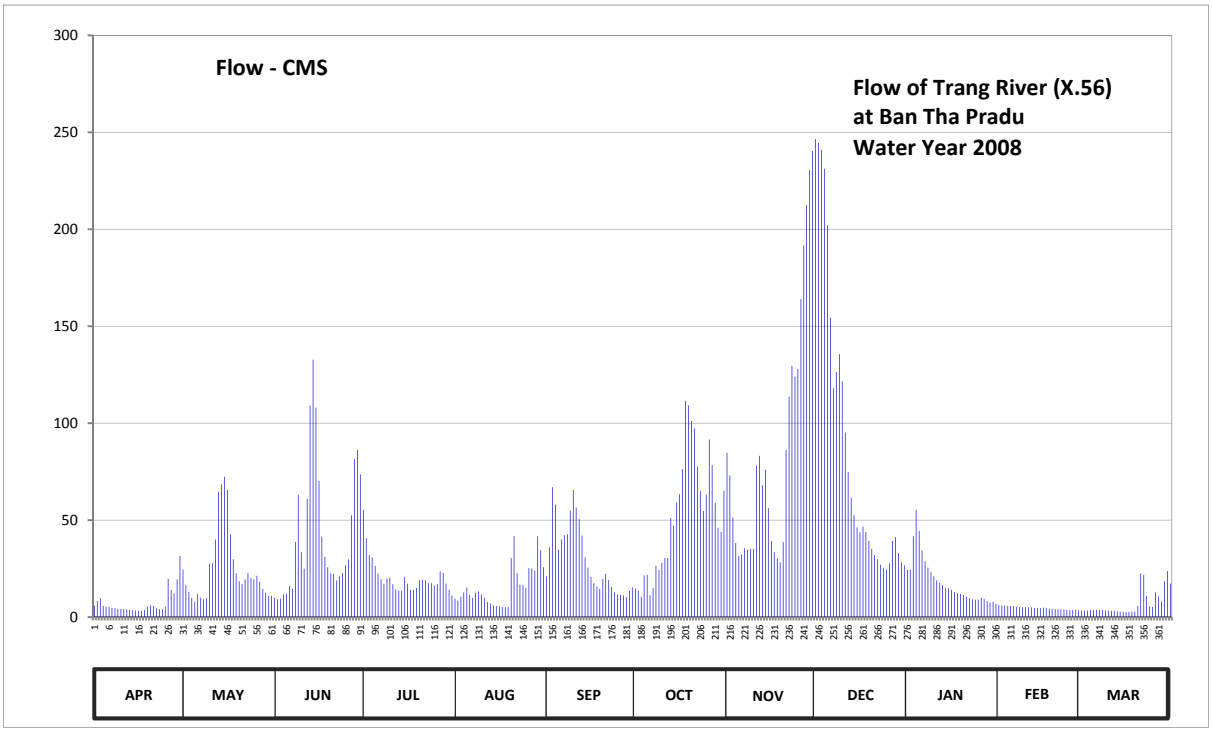
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.19	7.94	7.36	9.11	7.34	7.80	7.55	10.09	13.68	7.93	7.21	6.94	
2	7.29	7.62	7.33	8.59	7.30	8.40	7.51	9.70	13.65	7.94	7.20	6.94	
3	7.35	7.48	7.34	8.24	7.38	9.50	7.38	8.98	13.60	8.63	7.19	6.94	
4	7.18	7.36	7.43	8.19	7.47	9.20	7.82	8.49	13.45	9.11	7.18	6.96	
5	7.14	7.28	7.44	8.02	7.57	8.35	7.83	8.22	12.98	8.74	7.17	6.97	
6	7.12	7.44	7.60	7.86	7.42	8.56	7.41	8.25	12.01	8.34	7.16	6.97	
7	7.08	7.36	7.54	7.75	7.36	8.65	7.56	8.38	11.10	8.11	7.13	6.98	
8	7.05	7.33	8.51	7.65	7.46	8.67	8.02	8.35	11.31	7.98	7.12	6.98	
9	7.03	7.35	9.37	7.76	7.49	9.10	7.93	8.37	11.54	7.89	7.11	6.95	
10	7.02	8.06	8.30	7.78	7.43	9.45	8.08	8.37	11.19	7.80	7.11	6.94	
11	7.02	8.07	7.96	7.64	7.36	9.15	8.18	9.87	10.44	7.72	7.11	6.93	
12	7.00	8.56	9.30	7.53	7.27	8.95	8.18	10.04	9.76	7.67	7.10	6.92	
13	6.97	9.42	10.88	7.51	7.24	8.64	8.97	9.53	9.32	7.62	7.08	6.90	
14	6.96	9.55	11.47	7.50	7.20	8.19	8.84	9.80	9.02	7.57	7.07	6.89	
15	6.94	9.68	10.85	7.79	7.17	7.98	9.24	9.14	8.81	7.55	7.07	6.88	
16	6.93	9.45	9.61	7.65	7.15	7.79	9.38	8.53	8.71	7.52	7.09	6.86	
17	6.92	8.67	8.62	7.52	7.13	7.66	9.81	8.30	8.82	7.48	7.07	6.87	
18	6.97	8.15	8.20	7.52	7.11	7.59	10.94	8.17	8.72	7.45	7.04	6.89	
19	7.15	7.86	7.99	7.56	7.13	7.54	10.88	8.09	8.53	7.44	7.03	6.89	
20	7.20	7.70	7.86	7.72	8.18	7.75	10.64	8.51	8.37	7.42	7.01	7.18	
21	7.17	7.64	7.85	7.73	8.63	7.85	10.51	10.14	8.24	7.38	7.00	7.86	
22	7.06	7.74	7.72	7.72	7.86	7.73	9.85	10.99	8.15	7.35	7.00	7.83	
23	7.01	7.87	7.80	7.66	7.63	7.58	9.43	11.39	8.04	7.33	7.00	7.40	
24	7.01	7.77	7.87	7.66	7.62	7.47	9.09	11.25	7.97	7.32	6.97	7.16	
25	7.15	7.74	8.03	7.61	7.56	7.43	9.37	11.35	7.94	7.32	6.96	7.13	
26	7.75	7.81	8.15	7.64	7.97	7.42	10.32	12.24	8.07	7.36	6.96	7.47	
27	7.52	7.69	9.02	7.90	7.96	7.41	9.88	12.78	8.53	7.34	6.99	7.39	
28	7.45	7.54	9.98	7.87	7.92	7.37	9.23	13.16	8.61	7.29	6.95	7.28	
29	7.74	7.46	10.14	7.65	8.63	7.50	8.80	13.44	8.28	7.26		7.70	
30	8.22	7.40	9.72	7.52	8.34	7.57	8.72	13.59	8.09	7.28		7.91	
31		7.40		7.41	7.99		9.44		8.03	7.23		7.65	
Mean	7.19	7.95	8.57	7.78	7.59	8.14	8.93	9.92	9.84	7.69	7.07	7.15	
Max	8.22	9.68	11.47	9.11	8.63	9.50	10.94	13.59	13.68	9.11	7.21	7.91	13.68
Min	6.92	7.28	7.33	7.41	7.11	7.37	7.38	8.09	7.94	7.23	6.95	6.86	6.86

Annual Max Momentary Gage Height 13.69 m. (MSL.) , at 12.00 Hours , on Dec 1, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 3.62 m. (MSL)

Left Bank Elevation 19.66 m. (MSL.) ,

Right Bank Elevation 19.71 m. (MSL.) , Drainage Are 1,801 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.90	24.50	10.00	55.30	9.50	21.00	14.75	84.70	246.60	24.25	6.25	3.40		
2	8.25	16.50	9.25	40.75	8.50	36.00	13.75	73.00	244.50	24.50	6.00	3.40		
3	9.75	13.00	9.50	32.00	10.50	67.00	10.50	51.40	241.00	41.75	5.90	3.40		
4	5.80	10.00	11.75	30.75	12.75	58.00	21.50	38.25	231.25	55.30	5.80	3.60		
5	5.40	8.00	12.00	26.50	15.25	34.75	21.75	31.50	201.98	44.50	5.70	3.70		
6	5.20	12.00	16.00	22.50	11.50	40.00	11.25	32.25	154.40	34.50	5.60	3.70		
7	4.80	10.00	14.50	19.75	10.00	42.25	15.00	35.50	118.00	28.75	5.30	3.80		
8	4.50	9.25	38.75	17.25	12.50	42.75	26.50	34.75	126.40	25.50	5.20	3.80		
9	4.30	9.75	63.10	20.00	13.25	55.00	24.25	35.25	135.60	23.25	5.10	3.50		
10	4.20	27.50	33.50	20.50	11.75	65.50	28.00	35.25	121.60	21.00	5.10	3.40		
11	4.20	27.75	25.00	17.00	10.00	56.50	30.50	78.10	95.20	19.00	5.10	3.30		
12	4.00	40.00	61.00	14.25	7.75	50.50	30.50	83.20	74.80	17.75	5.00	3.20		
13	3.70	64.60	109.20	13.75	7.00	42.00	51.10	67.90	61.60	16.50	4.80	3.00		
14	3.60	68.50	132.80	13.50	6.00	30.75	47.20	76.00	52.60	15.25	4.70	2.90		
15	3.40	72.40	108.00	20.75	5.70	25.50	59.20	56.20	46.30	14.75	4.70	2.80		
16	3.30	65.50	70.30	17.25	5.50	20.75	63.40	39.25	43.75	14.00	4.90	2.60		
17	3.20	42.75	41.50	14.00	5.30	17.50	76.30	33.50	46.60	13.00	4.70	2.70		
18	3.70	29.75	31.00	14.00	5.10	15.75	111.60	30.25	44.00	12.25	4.40	2.90		
19	5.50	22.50	25.75	15.00	5.30	14.50	109.20	28.25	39.25	12.00	4.30	2.90		
20	6.00	18.50	22.50	19.00	30.50	19.75	101.20	38.75	35.25	11.50	4.10	5.80		
21	5.70	17.00	22.25	19.25	41.75	22.25	97.30	86.20	32.00	10.50	4.00	22.50		
22	4.60	19.50	19.00	19.00	22.50	19.25	77.50	113.60	29.75	9.75	4.00	21.75		
23	4.10	22.75	21.00	17.50	16.75	15.50	64.90	129.60	27.00	9.25	4.00	11.00		
24	4.10	20.25	22.75	17.50	16.50	12.75	54.70	124.00	25.25	9.00	3.70	5.60		
25	5.50	19.50	26.75	16.25	15.00	11.75	63.10	128.00	24.50	9.00	3.60	5.30		
26	19.75	21.25	29.75	17.00	25.25	11.50	91.60	164.05	27.75	10.00	3.60	12.75		
27	14.00	18.25	52.60	23.50	25.00	11.25	78.40	191.73	39.25	9.50	3.90	10.75		
28	12.25	14.50	81.40	22.75	24.00	10.25	58.90	212.60	41.25	8.25	3.50	8.00		
29	19.50	12.50	86.20	17.25	41.75	13.50	46.00	230.60	33.00	7.50		18.50		
30	31.50	11.00	73.60	14.00	34.50	15.25	44.00	240.35	28.25	8.00		23.75		
31		11.00		11.25	25.75		65.20		26.75	6.75		17.25		
Total	219.70	780.25	1280.70	639.05	492.40	899.00	1609.05	2603.98	2695.43	566.80	132.95	224.95	12144.26	CMSDAY
Mean	7.32	25.17	42.69	20.61	15.88	29.97	51.90	86.80	86.95	18.28	4.75	7.26	33.27	CMS
Max	31.50	72.40	132.80	55.30	41.75	67.00	111.60	240.35	246.60	55.30	6.25	23.75	246.60	CMS
Min	3.20	8.00	9.25	11.25	5.10	10.25	10.50	28.25	24.50	6.75	3.50	2.60	2.60	CMS
Runoff	18.98	67.41	110.65	55.21	42.54	77.67	139.02	224.98	232.89	48.97	11.49	19.44	1049.26	MCM

Momentary Peak 247.30 CMS. at 13.69 m. (MSL.) at 12.00 Hours , on Dec 1, 2008

Runoff Yield 18.47 Liters/Second/Square KM. Momentary Peak Yield 137.31 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 Float	-		
Rated by Current Meter	1984 to date		
Stability of Channel Regimes	Stable.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

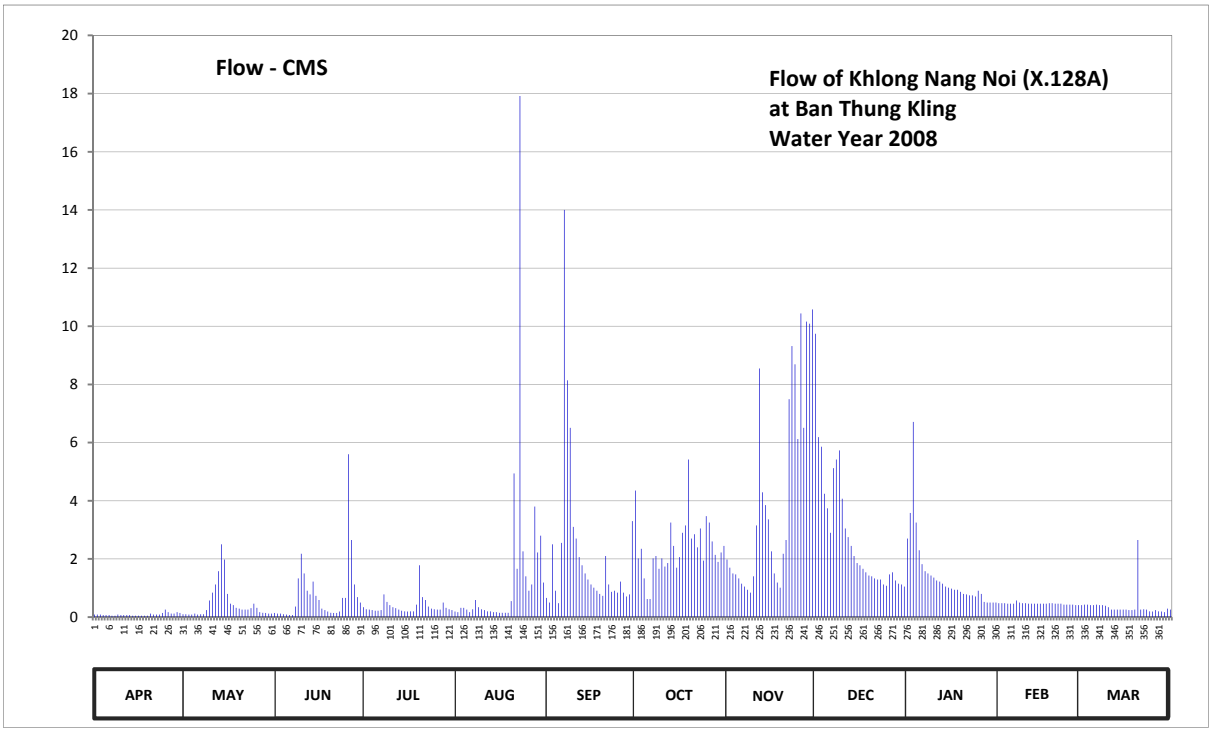
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	35.45	35.46	35.48	35.60	35.51	35.74	36.59	36.12	37.42	36.28	35.66	35.63	
2	35.45	35.46	35.47	35.56	35.50	35.67	36.13	36.05	36.89	36.45	35.66	35.64	
3	35.45	35.45	35.47	35.55	35.59	36.24	36.21	36.00	36.84	36.97	35.66	35.64	
4	35.44	35.45	35.46	35.54	35.59	35.83	35.95	35.99	36.57	36.39	35.65	35.63	
5	35.44	35.47	35.45	35.53	35.55	35.66	35.72	35.95	36.48	36.20	35.65	35.63	
6	35.44	35.45	35.44	35.53	35.50	36.25	35.72	35.90	36.32	36.08	35.65	35.64	
7	35.43	35.46	35.44	35.54	35.56	38.00	36.13	35.87	36.72	36.02	35.70	35.63	
8	35.43	35.46	35.61	35.79	35.71	37.19	36.15	35.84	36.77	36.00	35.67	35.63	
9	35.45	35.54	35.95	35.68	35.60	36.94	36.04	35.81	36.82	35.98	35.66	35.62	
10	35.44	35.70	36.17	35.63	35.56	36.36	36.13	35.97	36.54	35.96	35.66	35.60	
11	35.44	35.81	36.00	35.60	35.54	36.28	36.06	36.37	36.35	35.93	35.65	35.55	
12	35.44	35.89	35.83	35.58	35.52	36.14	36.09	37.25	36.29	35.92	35.65	35.55	
13	35.44	36.02	35.79	35.55	35.52	36.07	36.39	36.58	36.23	35.90	35.65	35.55	
14	35.43	36.24	35.92	35.53	35.50	36.00	36.23	36.50	36.15	35.87	35.65	35.55	
15	35.43	36.12	35.77	35.52	35.50	35.94	36.05	36.41	36.09	35.86	35.65	35.55	
16	35.43	35.80	35.71	35.51	35.49	35.89	36.14	36.19	36.07	35.85	35.65	35.55	
17	35.43	35.65	35.57	35.52	35.49	35.86	36.32	36.00	36.04	35.84	35.65	35.54	
18	35.43	35.63	35.54	35.52	35.49	35.83	36.37	35.91	36.01	35.84	35.66	35.54	
19	35.43	35.59	35.51	35.64	35.49	35.80	36.77	35.86	35.98	35.82	35.66	35.55	
20	35.47	35.57	35.49	36.07	35.69	35.77	36.28	36.17	35.97	35.80	35.65	36.27	
21	35.45	35.55	35.48	35.75	36.69	36.15	36.31	36.27	35.95	35.79	35.65	35.55	
22	35.45	35.55	35.48	35.71	36.04	35.89	36.22	37.09	35.94	35.78	35.65	35.56	
23	35.45	35.55	35.51	35.61	38.49	35.82	36.35	37.36	35.94	35.78	35.64	35.55	
24	35.48	35.58	35.74	35.57	36.19	35.83	36.11	37.27	35.89	35.76	35.64	35.52	
25	35.55	35.65	35.74	35.56	35.97	35.81	36.43	36.88	35.88	35.83	35.64	35.51	
26	35.50	35.59	36.80	35.55	35.83	35.92	36.39	37.52	35.99	35.80	35.64	35.54	
27	35.47	35.50	36.27	35.55	35.89	35.81	36.26	36.94	36.01	35.68	35.63	35.52	
28	35.47	35.49	35.89	35.67	36.49	35.76	36.16	37.48	35.93	35.67	35.63	35.51	
29	35.50	35.48	35.75	35.59	36.18	35.79	36.10	37.47	35.90	35.67		35.50	
30	35.48	35.47	35.67	35.56	36.30	36.40	36.18	37.54	35.89	35.67		35.57	
31		35.47		35.54	35.91		36.23		35.87	35.67		35.55	
Mean	35.45	35.62	35.71	35.60	35.83	36.09	36.20	36.49	36.25	35.94	35.65	35.59	
Max	35.55	36.24	36.80	36.07	38.49	38.00	36.77	37.54	37.42	36.97	35.70	36.27	38.49
Min	35.43	35.45	35.44	35.51	35.49	35.66	35.72	35.81	35.87	35.67	35.63	35.50	35.43

Annual Max Momentary Gage Height 39.15 m. (MSL.) , at 06.00 Hours , on Aug 23, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 35.32 m. (MSL)

Left Bank Elevation 43.35 m. (MSL.) ,

Right Bank Elevation 43.37 m. (MSL.) , Drainage Are 75 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.09	0.10	0.14	0.34	0.19	0.66	4.35	1.98	9.74	2.70	0.48	0.41		
2	0.09	0.10	0.12	0.27	0.17	0.50	2.02	1.70	6.19	3.58	0.48	0.43		
3	0.09	0.09	0.12	0.26	0.32	2.50	2.35	1.50	5.86	6.71	0.48	0.43		
4	0.07	0.09	0.10	0.24	0.32	0.91	1.33	1.47	4.24	3.25	0.46	0.41		
5	0.07	0.12	0.09	0.22	0.26	0.48	0.62	1.33	3.74	2.30	0.46	0.41		
6	0.07	0.09	0.07	0.22	0.17	2.55	0.62	1.15	2.90	1.82	0.46	0.43		
7	0.05	0.10	0.07	0.24	0.27	14.00	2.02	1.05	5.12	1.58	0.57	0.41		
8	0.05	0.10	0.36	0.78	0.59	8.14	2.10	0.94	5.42	1.50	0.50	0.41		
9	0.09	0.24	1.33	0.52	0.34	6.51	1.66	0.84	5.73	1.43	0.48	0.39		
10	0.07	0.57	2.18	0.41	0.27	3.10	2.02	1.40	4.07	1.36	0.48	0.34		
11	0.07	0.84	1.50	0.34	0.24	2.70	1.74	3.15	3.05	1.26	0.46	0.26		
12	0.07	1.12	0.91	0.31	0.20	2.06	1.86	8.55	2.75	1.22	0.46	0.26		
13	0.07	1.58	0.78	0.26	0.20	1.78	3.25	4.29	2.45	1.15	0.46	0.26		
14	0.05	2.50	1.22	0.22	0.17	1.50	2.45	3.85	2.10	1.05	0.46	0.26		
15	0.05	1.98	0.73	0.20	0.17	1.29	1.70	3.36	1.86	1.01	0.46	0.26		
16	0.05	0.80	0.59	0.19	0.15	1.12	2.06	2.26	1.78	0.98	0.46	0.26		
17	0.05	0.46	0.29	0.20	0.15	1.01	2.90	1.50	1.66	0.94	0.46	0.24		
18	0.05	0.41	0.24	0.20	0.15	0.91	3.15	1.19	1.54	0.94	0.48	0.24		
19	0.05	0.32	0.19	0.43	0.15	0.80	5.42	1.01	1.43	0.87	0.48	0.26		
20	0.12	0.29	0.15	1.78	0.55	0.73	2.70	2.18	1.40	0.80	0.46	2.65		
21	0.09	0.26	0.14	0.69	4.94	2.10	2.85	2.65	1.33	0.78	0.46	0.26		
22	0.09	0.26	0.14	0.59	1.66	1.12	2.40	7.49	1.29	0.75	0.46	0.27		
23	0.09	0.26	0.19	0.36	17.92	0.87	3.05	9.32	1.29	0.75	0.43	0.26		
24	0.14	0.31	0.66	0.29	2.26	0.91	1.94	8.69	1.12	0.71	0.43	0.20		
25	0.26	0.46	0.66	0.27	1.40	0.84	3.47	6.12	1.08	0.91	0.43	0.19		
26	0.17	0.32	5.60	0.26	0.91	1.22	3.25	10.44	1.47	0.80	0.43	0.24		
27	0.12	0.17	2.65	0.26	1.12	0.84	2.60	6.51	1.54	0.52	0.41	0.20		
28	0.12	0.15	1.12	0.50	3.80	0.71	2.14	10.16	1.26	0.50	0.41	0.19		
29	0.17	0.14	0.69	0.32	2.22	0.78	1.90	10.09	1.15	0.50		0.17		
30	0.14	0.12	0.50	0.27	2.80	3.30	2.22	10.58	1.12	0.50		0.29		
31		0.12		0.24	1.19		2.45		1.05	0.50		0.26		
Total	2.76	14.47	23.53	11.68	45.25	65.94	74.59	126.75	86.73	43.67	12.95	11.55	519.87	CMSDAY
Mean	0.09	0.47	0.78	0.38	1.46	2.20	2.41	4.22	2.80	1.41	0.46	0.37	1.42	CMS
Max	0.26	2.50	5.60	1.78	17.92	14.00	5.42	10.58	9.74	6.71	0.57	2.65	17.92	CMS
Min	0.05	0.09	0.07	0.19	0.15	0.48	0.62	0.84	1.05	0.50	0.41	0.17	0.05	CMS
Runoff	0.24	1.25	2.03	1.01	3.91	5.70	6.44	10.95	7.49	3.77	1.12	1.00	44.92	MCM

Momentary Peak 23.38 CMS. at 39.15 m. (MSL.) at 06.00 Hours , on Aug 23, 2008

Runoff Yield 18.99 Liters/Second/Square KM. Momentary Peak Yield 311.73 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Ta Kuaw Pa at Ban Talat Kao , Phangnga (X.186)

Lat 08 - 49 - 47 N Long 98 - 22 - 17 E

Location : on left bank at Ban Talat Kao.

	Ban Talat Kao	**Amphoe** Ta Kuaw Pa	**Changwat** Phangnga
Drainge Area	734 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 10 meters from the top staff gage.	**Elevation**	+4.980 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	1996 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Float	-		
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 fair. Stage-discharge relation defined by 25 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

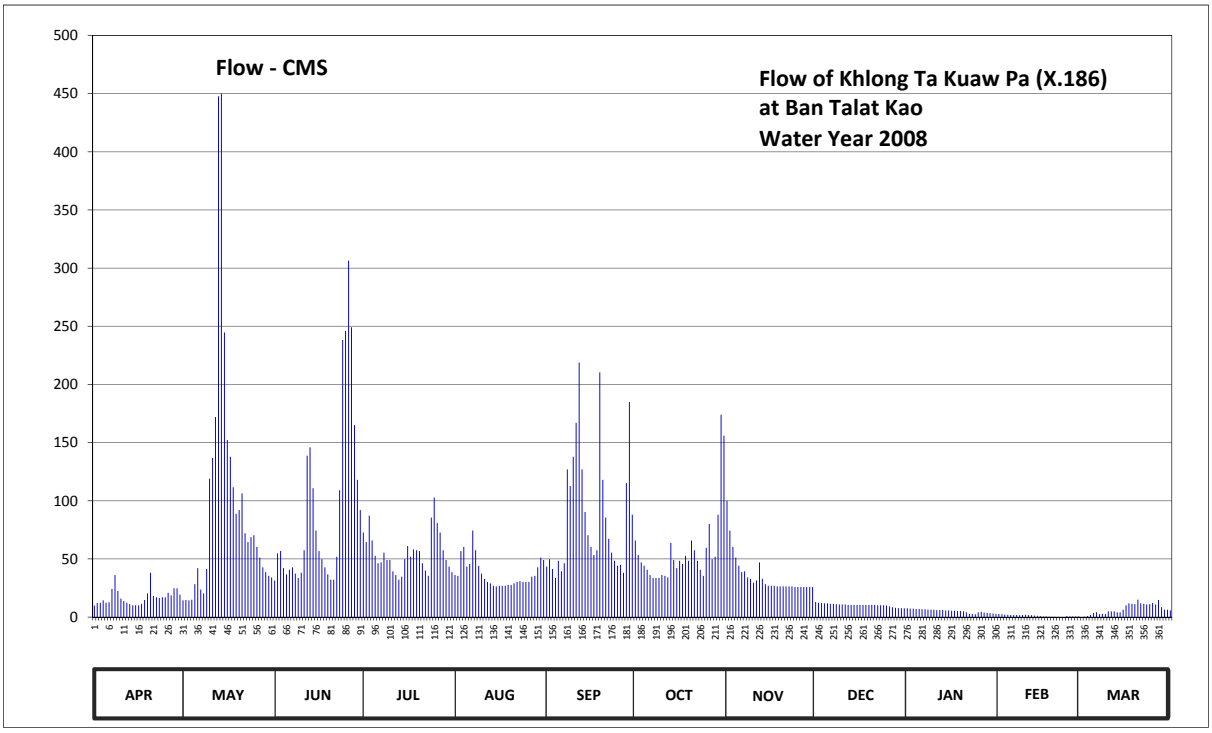
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.01	0.15	0.47	1.06	0.54	0.65	0.97	1.40	0.11	-0.08	-0.28	-0.40	
2	0.08	0.16	0.81	0.95	0.53	0.74	0.79	1.08	0.09	-0.09	-0.29	-0.38	
3	0.09	0.15	0.84	1.24	0.84	0.62	0.70	0.89	0.08	-0.09	-0.30	-0.36	
4	0.15	0.17	0.63	0.97	0.89	0.50	0.66	0.76	0.07	-0.10	-0.31	-0.32	
5	0.09	0.42	0.55	0.78	0.65	0.72	0.61	0.66	0.07	-0.10	-0.32	-0.24	
6	0.10	0.63	0.61	0.69	0.68	0.59	0.54	0.58	0.06	-0.11	-0.32	-0.21	
7	0.35	0.34	0.64	0.70	1.08	0.69	0.50	0.59	0.06	-0.11	-0.32	-0.29	
8	0.54	0.28	0.56	0.82	0.85	1.70	0.50	0.51	0.05	-0.12	-0.33	-0.27	
9	0.32	0.62	0.50	0.73	0.66	1.54	0.50	0.49	0.04	-0.12	-0.32	-0.28	
10	0.20	1.61	0.57	0.73	0.56	1.82	0.54	0.44	0.04	-0.13	-0.31	-0.18	
11	0.13	1.81	0.85	0.59	0.49	2.13	0.53	0.47	0.04	-0.14	-0.32	-0.18	
12	0.09	2.18	1.83	0.54	0.45	2.59	0.51	0.70	0.03	-0.14	-0.33	-0.18	
13	0.05	3.89	1.91	0.48	0.43	1.70	0.94	0.49	0.03	-0.14	-0.34	-0.22	
14	0.02	3.90	1.52	0.52	0.40	1.28	0.73	0.42	0.03	-0.15	-0.35	-0.22	
15	0.02	2.79	1.08	0.74	0.39	1.03	0.63	0.40	0.03	-0.15	-0.36	-0.12	
16	0.02	1.98	0.84	0.90	0.40	0.89	0.72	0.40	0.03	-0.16	-0.37	0.02	
17	0.06	1.82	0.74	0.77	0.40	0.79	0.68	0.40	0.03	-0.16	-0.37	0.07	
18	0.16	1.53	0.64	0.86	0.40	0.85	0.78	0.39	0.03	-0.17	-0.38	0.06	
19	0.28	1.26	0.55	0.85	0.41	2.52	0.72	0.39	0.03	-0.17	-0.38	0.05	
20	0.57	1.30	0.48	0.84	0.41	1.60	0.97	0.39	0.03	-0.18	-0.39	0.17	
21	0.24	1.47	0.48	0.69	0.43	1.22	0.85	0.39	0.03	-0.22	-0.39	0.07	
22	0.22	1.05	0.77	0.60	0.45	0.99	0.72	0.39	0.02	-0.28	-0.40	0.06	
23	0.21	0.95	1.50	0.53	0.46	0.82	0.61	0.39	0.02	-0.28	-0.40	0.04	
24	0.22	1.01	2.74	1.22	0.45	0.72	0.53	0.38	0.02	-0.29	-0.36	0.05	
25	0.22	1.03	2.80	1.43	0.45	0.66	0.88	0.38	0.01	-0.22	-0.37	0.08	
26	0.29	0.89	3.19	1.16	0.45	0.67	1.15	0.38	-0.01	-0.20	-0.37	0.04	
27	0.25	0.76	2.82	1.06	0.52	0.57	0.74	0.38	-0.04	-0.23	-0.37	0.16	
28	0.36	0.64	2.11	0.85	0.53	1.57	0.77	0.38	-0.06	-0.24	-0.37	-0.04	
29	0.36	0.58	1.60	0.73	0.64	2.30	1.25	0.38	-0.07	-0.25		-0.12	
30	0.26	0.53	1.30	0.65	0.76	1.25	2.20	0.38	-0.07	-0.26		-0.13	
31		0.51		0.58	0.73		2.02		-0.08	-0.27		-0.15	
Mean	0.20	1.17	1.20	0.81	0.56	1.19	0.81	0.52	0.02	-0.17	-0.35	-0.11	
Max	0.57	3.90	3.19	1.43	1.08	2.59	2.20	1.40	0.11	-0.08	-0.28	0.17	3.90
Min	0.01	0.15	0.47	0.48	0.39	0.50	0.50	0.38	-0.08	-0.29	-0.40	-0.40	-0.40

Annual Max Momentary Gage Height 4.32 m. (MSL.) , at 24.00 Hours , on May 13, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -1.06 m. (MSL.)

Left Bank Elevation 5.79 m. (MSL.) ,

Right Bank Elevation 5.82 m. (MSL.) , Drainage Are 734 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.83	14.38	31.55	72.80	36.10	43.50	65.90	100.00	13.08	7.50	2.70	0.00		
2	12.10	14.70	54.70	64.50	35.45	49.80	53.30	74.40	12.43	7.25	2.48	0.45		
3	12.43	14.38	56.80	87.20	56.80	41.40	47.00	60.30	12.10	7.25	2.25	0.90		
4	14.38	15.03	42.10	65.90	60.30	33.50	44.20	51.20	11.78	7.00	2.03	1.80		
5	12.43	28.30	36.75	52.60	43.50	48.40	40.70	44.20	11.78	7.00	1.80	3.60		
6	12.75	42.10	40.70	46.30	45.60	39.35	36.10	38.70	11.45	6.75	1.80	4.28		
7	24.25	23.70	42.80	47.00	74.40	46.30	33.50	39.35	11.45	6.75	1.80	2.48		
8	36.10	20.40	37.40	55.40	57.50	127.00	33.50	34.15	11.13	6.50	1.58	2.93		
9	22.60	41.40	33.50	49.10	44.20	112.60	33.50	32.85	10.80	6.50	1.80	2.70		
10	16.00	118.90	38.05	49.10	37.40	137.80	36.10	29.60	10.80	6.25	2.03	5.00		
11	13.73	136.90	57.50	39.35	32.85	167.00	35.45	31.55	10.80	6.00	1.80	5.00		
12	12.43	172.00	138.70	36.10	30.25	218.80	34.15	47.00	10.48	6.00	1.58	5.00		
13	11.13	447.60	145.90	32.20	28.95	127.00	63.80	32.85	10.48	6.00	1.35	4.05		
14	10.15	450.00	110.80	34.80	27.00	90.40	49.10	28.30	10.48	5.75	1.13	4.05		
15	10.15	244.70	74.40	49.80	26.45	70.40	42.10	27.00	10.48	5.75	0.90	6.50		
16	10.15	152.20	56.80	61.00	27.00	60.30	48.40	27.00	10.48	5.50	0.68	10.15		
17	11.45	137.80	49.80	51.90	27.00	53.30	45.60	27.00	10.48	5.50	0.68	11.78		
18	14.70	111.70	42.80	58.20	27.00	57.50	52.60	26.45	10.48	5.25	0.45	11.45		
19	20.40	88.80	36.75	57.50	27.65	210.40	48.40	26.45	10.48	5.25	0.45	11.13		
20	38.05	92.00	32.20	56.80	27.65	118.00	65.90	26.45	10.48	5.00	0.23	15.03		
21	18.20	106.30	32.20	46.30	28.95	85.60	57.50	26.45	10.48	4.05	0.23	11.78		
22	17.10	72.00	51.90	40.00	30.25	67.30	48.40	26.45	10.15	2.70	0.00	11.45		
23	16.55	64.50	109.00	35.45	30.90	55.40	40.70	26.45	10.15	2.70	0.00	10.80		
24	17.10	68.80	238.20	85.60	30.25	48.40	35.45	25.90	10.15	2.48	0.90	11.13		
25	17.10	70.40	246.00	102.70	30.25	44.20	59.60	25.90	9.83	4.05	0.68	12.10		
26	20.95	60.30	306.40	80.80	30.25	44.90	80.00	25.90	9.25	4.50	0.68	10.80		
27	18.75	51.20	249.00	72.80	34.80	38.05	49.80	25.90	8.50	3.83	0.68	14.70		
28	24.80	42.80	165.00	57.50	35.45	115.30	51.90	25.90	8.00	3.60	0.68	8.50		
29	24.80	38.70	118.00	49.10	42.80	185.00	88.00	25.90	7.75	3.38		6.50		
30	19.30	35.45	92.00	43.50	51.20	88.00	174.00	25.90	7.75	3.15		6.25		
31		34.15		38.70	49.10		156.00		7.50	2.93		5.75		
Total	519.86	3011.59	2767.70	1720.00	1167.25	2624.90	1750.65	1065.45	321.43	162.12	33.37	218.04	15362.36	CMSDAY
Mean	17.33	97.15	92.26	55.48	37.65	87.50	56.47	35.52	10.37	5.23	1.19	7.03	42.09	CMS
Max	38.05	450.00	306.40	102.70	74.40	218.80	174.00	100.00	13.08	7.50	2.70	15.03	450.00	CMS
Min	9.83	14.38	31.55	32.20	26.45	33.50	33.50	25.90	7.50	2.48	0.00	0.00	0.00	CMS
Runoff	44.92	260.20	239.13	148.61	100.85	226.79	151.26	92.05	27.77	14.01	2.88	18.84	1327.31	MCM

Momentary Peak 572.40 CMS. at 4.32 m. (MSL.) at 24.00 Hours , on May 13, 2008

Runoff Yield 57.34 Liters/Second/Square KM. Momentary Peak Yield 779.84 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Ta Kuaw Pa at Ban Hin Dan , Phangnga (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** Phangnga

Drainge 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 Float	-
Rated by Current Meter	1996 to date
Stability of Channel Regimes	Fairly stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

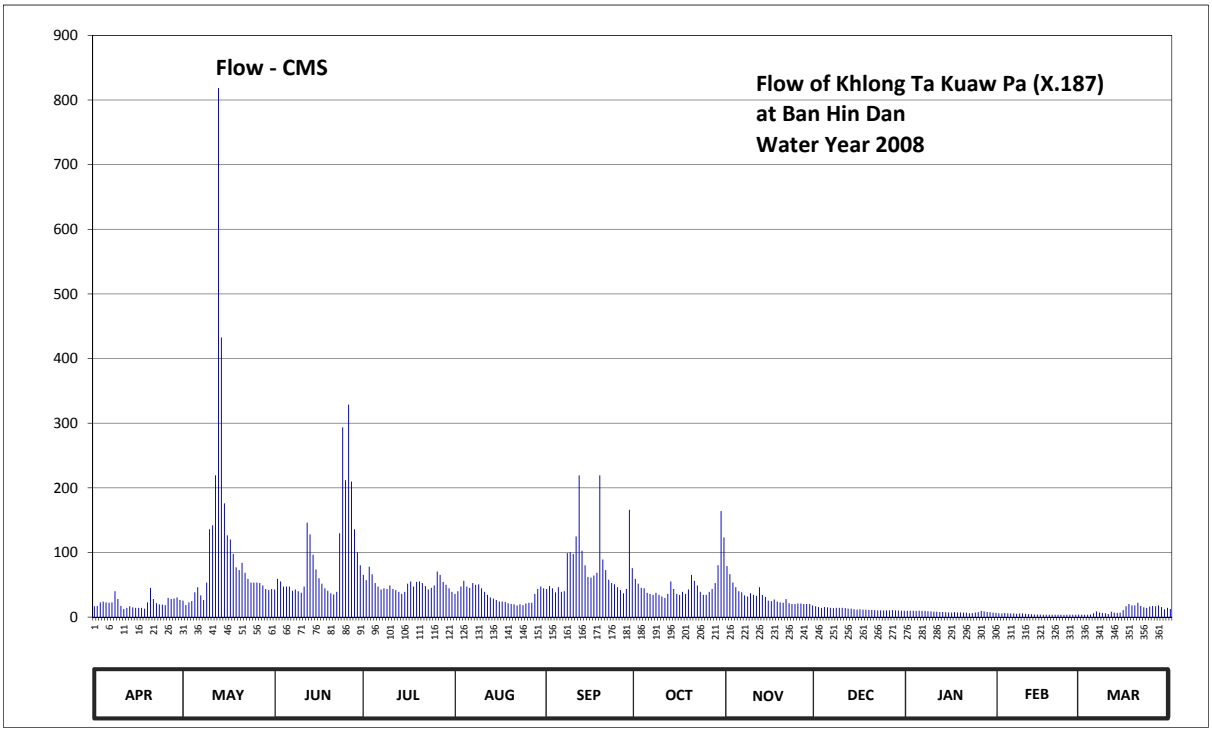
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	5.88	6.02	6.23	6.47	6.15	6.24	6.41	6.60	5.88	5.74	5.65	5.59	
2	5.89	5.91	6.41	6.39	6.20	6.29	6.33	6.48	5.86	5.75	5.64	5.59	
3	5.98	5.98	6.37	6.59	6.28	6.25	6.26	6.35	5.84	5.75	5.66	5.59	
4	6.00	6.01	6.28	6.48	6.38	6.18	6.25	6.27	5.86	5.74	5.65	5.60	
5	5.98	6.18	6.28	6.34	6.28	6.27	6.17	6.20	5.85	5.75	5.64	5.65	
6	5.97	6.27	6.28	6.28	6.26	6.19	6.15	6.18	5.84	5.74	5.64	5.72	
7	5.98	6.12	6.21	6.23	6.34	6.20	6.13	6.12	5.83	5.74	5.63	5.68	
8	6.20	6.03	6.23	6.25	6.31	6.76	6.17	6.10	5.84	5.73	5.64	5.66	
9	6.05	6.35	6.20	6.24	6.32	6.77	6.13	6.16	5.84	5.72	5.64	5.65	
10	5.89	7.00	6.17	6.30	6.25	6.75	6.10	6.13	5.84	5.71	5.63	5.62	
11	5.81	7.03	6.28	6.24	6.19	6.93	6.07	6.11	5.83	5.71	5.62	5.71	
12	5.84	7.38	7.05	6.22	6.13	7.38	6.15	6.27	5.82	5.70	5.61	5.67	
13	5.88	8.77	6.95	6.19	6.08	6.79	6.37	6.13	5.82	5.70	5.60	5.66	
14	5.85	8.02	6.74	6.15	6.06	6.61	6.24	6.09	5.80	5.69	5.60	5.67	
15	5.84	7.20	6.55	6.19	6.03	6.44	6.15	6.02	5.79	5.68	5.60	5.77	
16	5.84	6.94	6.42	6.33	6.00	6.43	6.13	6.01	5.80	5.68	5.59	5.88	
17	5.84	6.90	6.33	6.37	6.00	6.46	6.19	6.04	5.79	5.69	5.59	5.94	
18	5.82	6.75	6.25	6.28	5.99	6.50	6.15	6.00	5.79	5.68	5.59	5.90	
19	5.98	6.58	6.21	6.36	5.96	7.38	6.23	5.98	5.78	5.68	5.58	5.90	
20	6.26	6.54	6.16	6.37	5.94	6.68	6.47	5.97	5.78	5.67	5.58	5.97	
21	6.05	6.64	6.14	6.34	5.93	6.54	6.38	6.05	5.77	5.67	5.58	5.89	
22	5.96	6.50	6.19	6.29	5.90	6.40	6.30	5.96	5.76	5.65	5.58	5.85	
23	5.93	6.41	6.96	6.23	5.93	6.34	6.19	5.94	5.76	5.66	5.57	5.84	
24	5.92	6.35	7.63	6.26	5.91	6.32	6.13	5.94	5.76	5.68	5.58	5.87	
25	5.91	6.35	7.35	6.30	5.95	6.27	6.13	5.95	5.76	5.69	5.59	5.89	
26	6.07	6.35	7.74	6.52	5.97	6.22	6.19	5.95	5.76	5.74	5.58	5.88	
27	6.05	6.34	7.34	6.47	5.97	6.16	6.24	5.94	5.77	5.72	5.59	5.90	
28	6.06	6.30	7.00	6.36	6.15	6.24	6.34	5.94	5.76	5.70	5.60	5.86	
29	6.08	6.24	6.77	6.31	6.24	7.15	6.61	5.94	5.76	5.69		5.80	
30	6.03	6.22	6.61	6.25	6.28	6.57	7.14	5.90	5.75	5.67		5.84	
31		6.24		6.19	6.25		6.92		5.75	5.66		5.81	
Mean	5.96	6.58	6.58	6.32	6.12	6.52	6.28	6.09	5.80	5.70	5.61	5.77	
Max	6.26	8.77	7.74	6.59	6.38	7.38	7.14	6.60	5.88	5.75	5.66	5.97	8.77
Min	5.81	5.91	6.14	6.15	5.90	6.16	6.07	5.90	5.75	5.65	5.57	5.59	5.57

Annual Max Momentary Gage Height 8.84 m. (MSL.) , at 12.00 Hours , on May 13, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 4.91 m. (MSL.)

Left Bank Elevation 11.89 m. (MSL.) ,

Right Bank Elevation 11.65 m. (MSL.) , Drainage Are 546 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	16.80	25.60	42.70	65.35	36.00	43.60	59.05	79.00	16.80	9.60	6.00	3.80		
2	17.40	18.60	59.05	57.10	40.00	48.10	51.70	66.40	15.60	10.00	5.60	3.80		
3	22.80	22.80	55.30	77.95	47.20	44.50	45.40	53.50	14.40	10.00	6.40	3.80		
4	24.00	24.80	47.20	66.40	56.20	38.40	44.50	46.30	15.60	9.60	6.00	4.00		
5	22.80	38.40	47.20	52.60	47.20	46.30	37.60	40.00	15.00	10.00	5.60	6.00		
6	22.20	46.30	47.20	47.20	45.40	39.20	36.00	38.40	14.40	9.60	5.60	8.80		
7	22.80	33.60	40.90	42.70	52.60	40.00	34.40	33.60	13.80	9.60	5.20	7.20		
8	40.00	26.40	42.70	44.50	49.90	99.00	37.60	32.00	14.40	9.20	5.60	6.40		
9	28.00	53.50	40.00	43.60	50.80	100.25	34.40	36.80	14.40	8.80	5.60	6.00		
10	17.40	136.00	37.60	49.00	44.50	97.75	32.00	34.40	14.40	8.40	5.20	4.80		
11	12.60	142.00	47.20	43.60	39.20	124.80	29.60	32.80	13.80	8.40	4.80	8.40		
12	14.40	219.20	146.00	41.80	34.40	219.20	36.00	46.30	13.20	8.00	4.40	6.80		
13	16.80	818.60	128.00	39.20	30.40	102.75	55.30	34.40	13.20	8.00	4.00	6.40		
14	15.00	432.80	96.50	36.00	28.80	80.25	43.60	31.20	12.00	7.60	4.00	6.80		
15	14.40	176.00	73.75	39.20	26.40	62.20	36.00	25.60	11.60	7.20	4.00	10.80		
16	14.40	126.40	60.10	51.70	24.00	61.15	34.40	24.80	12.00	7.20	3.80	16.80		
17	14.40	120.00	51.70	55.30	24.00	64.30	39.20	27.20	11.60	7.60	3.80	20.40		
18	13.20	97.75	44.50	47.20	23.40	68.50	36.00	24.00	11.60	7.20	3.80	18.00		
19	22.80	76.90	40.90	54.40	21.60	219.20	42.70	22.80	11.20	7.20	3.60	18.00		
20	45.40	72.70	36.80	55.30	20.40	89.00	65.35	22.20	11.20	6.80	3.60	22.20		
21	28.00	84.00	35.20	52.60	19.80	72.70	56.20	28.00	10.80	6.80	3.60	17.40		
22	21.60	68.50	39.20	48.10	18.00	58.00	49.00	21.60	10.40	6.00	3.60	15.00		
23	19.80	59.05	129.60	42.70	19.80	52.60	39.20	20.40	10.40	6.40	3.40	14.40		
24	19.20	53.50	293.60	45.40	18.60	50.80	34.40	20.40	10.40	7.20	3.60	16.20		
25	18.60	53.50	212.00	49.00	21.00	46.30	34.40	21.00	10.40	7.60	3.80	17.40		
26	29.60	53.50	328.80	70.60	22.20	41.80	39.20	21.00	10.40	9.60	3.60	16.80		
27	28.00	52.60	209.60	65.35	22.20	36.80	43.60	20.40	10.80	8.80	3.80	18.00		
28	28.80	49.00	136.00	54.40	36.00	43.60	52.60	20.40	10.40	8.00	4.00	15.60		
29	30.40	43.60	100.25	49.90	43.60	166.00	80.25	20.40	10.40	7.60		12.00		
30	26.40	41.80	80.25	44.50	47.20	75.85	164.00	18.00	10.00	6.80		14.40		
31		43.60		39.20	44.50		123.20		10.00	6.40		12.60		
Total	668.00	3311.00	2749.80	1571.85	1055.30	2332.90	1546.85	963.30	384.60	251.20	126.00	359.00	15319.80	CMSDAY
Mean	22.27	106.81	91.66	50.70	34.04	77.76	49.90	32.11	12.41	8.10	4.50	11.58	41.97	CMS
Max	45.40	818.60	328.80	77.95	56.20	219.20	164.00	79.00	16.80	10.00	6.40	22.20	818.60	CMS
Min	12.60	18.60	35.20	36.00	18.00	36.80	29.60	18.00	10.00	6.00	3.40	3.80	3.40	CMS
Runoff	57.72	286.07	237.58	135.81	91.18	201.56	133.65	83.23	33.23	21.70	10.89	31.02	1323.63	MCM

Momentary Peak 862.40 CMS. at 8.84 m. (MSL.) at 12.00 Hours , on May 13, 2008

Runoff Yield 76.87 Liters/Second/Square KM. Momentary Peak Yield 1579.49 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Thalang at Ban Don, Phuket (X.189)

Lat 08 - 00 - 56 N Long 98 - 19 - 05 E

Location : on right bank at the bridge about 3 kilometers from Thalang crossroad.

	Ban Don **Amphoe** Thalang **Changwat** Phuket
Drainge Area	45 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 4.00 meters from the top staff gage. **Elevation** +3.000 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 Float	-
Rated by Current Meter	1996 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 15 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

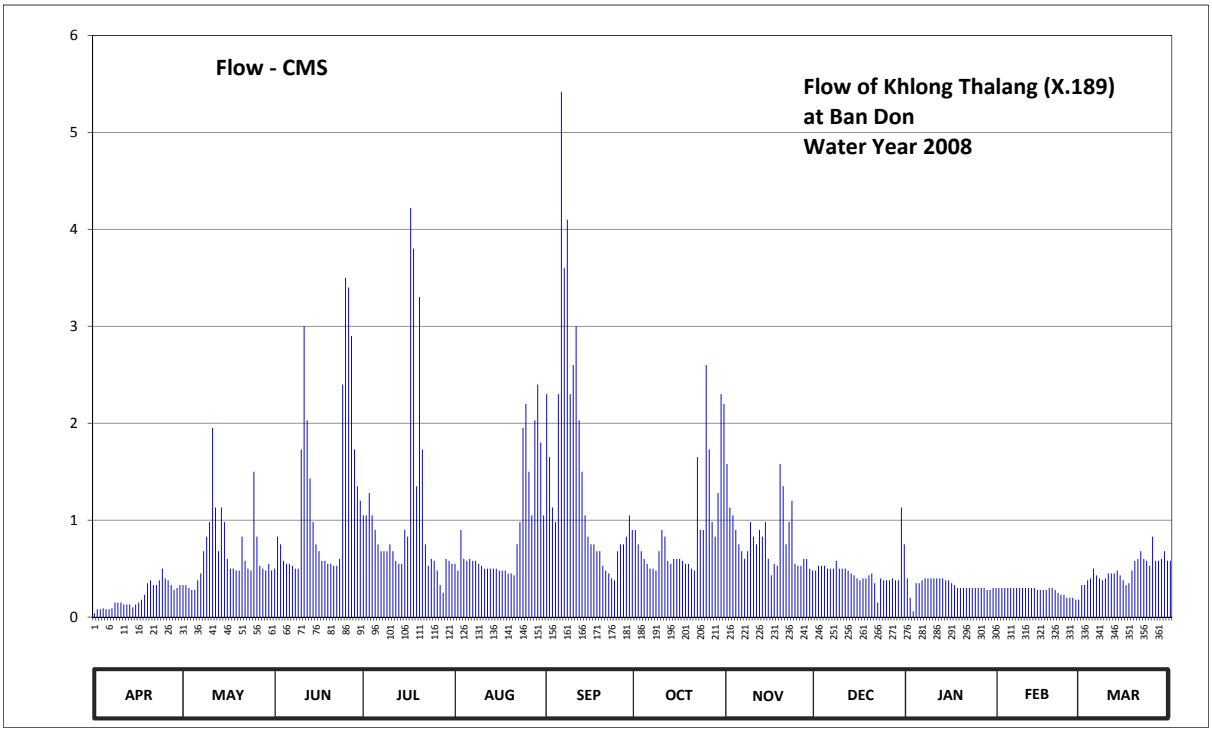
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.34	1.49	1.56	1.66	1.58	1.82	1.64	1.73	1.55	1.52	1.48	1.49	
2	1.38	1.49	1.63	1.66	1.55	1.74	1.62	1.67	1.57	1.44	1.48	1.49	
3	1.38	1.48	1.62	1.69	1.64	1.67	1.61	1.66	1.57	1.36	1.48	1.51	
4	1.39	1.47	1.59	1.66	1.60	1.65	1.60	1.64	1.57	1.50	1.48	1.52	
5	1.38	1.47	1.58	1.64	1.59	1.82	1.58	1.62	1.56	1.50	1.48	1.56	
6	1.38	1.51	1.58	1.62	1.60	2.11	1.56	1.61	1.56	1.51	1.48	1.53	
7	1.39	1.54	1.57	1.61	1.59	1.95	1.56	1.60	1.56	1.52	1.48	1.52	
8	1.42	1.61	1.56	1.61	1.59	2.00	1.55	1.61	1.59	1.52	1.48	1.51	
9	1.42	1.63	1.56	1.61	1.58	1.82	1.61	1.65	1.56	1.52	1.48	1.52	
10	1.42	1.65	1.75	1.62	1.57	1.85	1.64	1.63	1.56	1.52	1.48	1.54	
11	1.41	1.78	1.89	1.61	1.56	1.89	1.63	1.62	1.56	1.52	1.48	1.54	
12	1.41	1.67	1.79	1.59	1.56	1.79	1.59	1.64	1.55	1.52	1.48	1.54	
13	1.41	1.61	1.71	1.58	1.56	1.72	1.58	1.63	1.54	1.52	1.48	1.55	
14	1.40	1.67	1.65	1.58	1.56	1.66	1.60	1.65	1.53	1.51	1.47	1.53	
15	1.41	1.65	1.62	1.64	1.56	1.63	1.60	1.60	1.52	1.51	1.47	1.51	
16	1.42	1.60	1.61	1.63	1.55	1.62	1.60	1.53	1.51	1.50	1.47	1.49	
17	1.43	1.56	1.59	2.01	1.55	1.62	1.59	1.58	1.52	1.49	1.47	1.50	
18	1.45	1.56	1.59	1.97	1.55	1.61	1.58	1.57	1.52	1.48	1.48	1.55	
19	1.50	1.55	1.58	1.70	1.54	1.61	1.58	1.73	1.53	1.48	1.48	1.59	
20	1.51	1.55	1.58	1.92	1.54	1.57	1.56	1.70	1.54	1.48	1.47	1.60	
21	1.49	1.63	1.57	1.75	1.53	1.55	1.55	1.62	1.50	1.48	1.46	1.61	
22	1.49	1.59	1.57	1.62	1.62	1.54	1.74	1.65	1.42	1.48	1.45	1.60	
23	1.51	1.56	1.60	1.57	1.65	1.52	1.64	1.68	1.52	1.48	1.45	1.59	
24	1.56	1.55	1.83	1.60	1.78	1.51	1.64	1.58	1.51	1.48	1.44	1.57	
25	1.52	1.72	1.94	1.59	1.81	1.61	1.85	1.57	1.51	1.48	1.44	1.63	
26	1.51	1.63	1.93	1.55	1.72	1.62	1.75	1.57	1.51	1.48	1.44	1.59	
27	1.49	1.57	1.88	1.49	1.66	1.62	1.65	1.60	1.52	1.48	1.43	1.59	
28	1.47	1.56	1.75	1.46	1.79	1.63	1.63	1.60	1.51	1.47	1.43	1.60	
29	1.48	1.55	1.70	1.60	1.83	1.66	1.69	1.56	1.51	1.47		1.61	
30	1.49	1.58	1.68	1.59	1.76	1.64	1.82	1.55	1.67	1.48		1.59	
31		1.55		1.58	1.66		1.81		1.62	1.48		1.59	
Mean	1.44	1.58	1.67	1.65	1.62	1.70	1.63	1.62	1.54	1.49	1.47	1.55	
Max	1.56	1.78	1.94	2.01	1.83	2.11	1.85	1.73	1.67	1.52	1.48	1.63	2.11
Min	1.34	1.47	1.56	1.46	1.53	1.51	1.55	1.53	1.42	1.36	1.43	1.49	1.34

Annual Max Momentary Gage Height 2.17 m. (MSL.) , at 18.00 Hours , on Jul 17, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 0.25 m. (MSL.)

Left Bank Elevation 3.58 m. (MSL.) ,

Right Bank Elevation 3.57 m. (MSL.) , Drainage Are 45 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.04	0.33	0.50	1.05	0.55	2.30	0.90	1.58	0.48	0.40	0.30	0.33		
2	0.08	0.33	0.83	1.05	0.48	1.65	0.75	1.13	0.53	0.20	0.30	0.33		
3	0.08	0.30	0.75	1.28	0.90	1.13	0.68	1.05	0.53	0.06	0.30	0.38		
4	0.09	0.28	0.58	1.05	0.60	0.98	0.60	0.90	0.53	0.35	0.30	0.40		
5	0.08	0.28	0.55	0.90	0.58	2.30	0.55	0.75	0.50	0.35	0.30	0.50		
6	0.08	0.38	0.55	0.75	0.60	5.42	0.50	0.68	0.50	0.38	0.30	0.43		
7	0.09	0.45	0.53	0.68	0.58	3.60	0.50	0.60	0.50	0.40	0.30	0.40		
8	0.15	0.68	0.50	0.68	0.58	4.10	0.48	0.68	0.58	0.40	0.30	0.38		
9	0.15	0.83	0.50	0.68	0.55	2.30	0.68	0.98	0.50	0.40	0.30	0.40		
10	0.15	0.98	1.73	0.75	0.53	2.60	0.90	0.83	0.50	0.40	0.30	0.45		
11	0.13	1.95	3.00	0.68	0.50	3.00	0.83	0.75	0.50	0.40	0.30	0.45		
12	0.13	1.13	2.03	0.58	0.50	2.03	0.58	0.90	0.48	0.40	0.30	0.45		
13	0.13	0.68	1.43	0.55	0.50	1.50	0.55	0.83	0.45	0.40	0.30	0.48		
14	0.10	1.13	0.98	0.55	0.50	1.05	0.60	0.98	0.43	0.38	0.28	0.43		
15	0.13	0.98	0.75	0.90	0.50	0.83	0.60	0.60	0.40	0.38	0.28	0.38		
16	0.15	0.60	0.68	0.83	0.48	0.75	0.60	0.43	0.38	0.35	0.28	0.33		
17	0.18	0.50	0.58	4.22	0.48	0.75	0.58	0.55	0.40	0.33	0.28	0.35		
18	0.23	0.50	0.58	3.80	0.48	0.68	0.55	0.53	0.40	0.30	0.30	0.48		
19	0.35	0.48	0.55	1.35	0.45	0.68	0.55	1.58	0.43	0.30	0.30	0.58		
20	0.38	0.48	0.55	3.30	0.45	0.53	0.50	1.35	0.45	0.30	0.28	0.60		
21	0.33	0.83	0.53	1.73	0.43	0.48	0.48	0.75	0.35	0.30	0.25	0.68		
22	0.33	0.58	0.53	0.75	0.75	0.45	1.65	0.98	0.15	0.30	0.23	0.60		
23	0.38	0.50	0.60	0.53	0.98	0.40	0.90	1.20	0.40	0.30	0.23	0.58		
24	0.50	0.48	2.40	0.60	1.95	0.38	0.90	0.55	0.38	0.30	0.20	0.53		
25	0.40	1.50	3.50	0.58	2.20	0.68	2.60	0.53	0.38	0.30	0.20	0.83		
26	0.38	0.83	3.40	0.48	1.50	0.75	1.73	0.53	0.38	0.30	0.20	0.58		
27	0.33	0.53	2.90	0.33	1.05	0.75	0.98	0.60	0.40	0.30	0.18	0.58		
28	0.28	0.50	1.73	0.25	2.03	0.83	0.83	0.60	0.38	0.28	0.18	0.60		
29	0.30	0.48	1.35	0.60	2.40	1.05	1.28	0.50	0.38	0.28		0.68		
30	0.33	0.55	1.20	0.58	1.80	0.90	2.30	0.48	1.13	0.30		0.58		
31		0.48		0.55	1.05		2.20		0.75	0.30		0.58		
Total	6.46	20.53	36.29	32.61	26.93	44.85	28.33	24.40	14.55	10.14	7.57	15.35	268.01	CMSDAY
Mean	0.22	0.66	1.21	1.05	0.87	1.49	0.91	0.81	0.47	0.33	0.27	0.50	0.73	CMS
Max	0.50	1.95	3.50	4.22	2.40	5.42	2.60	1.58	1.13	0.40	0.30	0.83	5.42	CMS
Min	0.04	0.28	0.50	0.25	0.43	0.38	0.48	0.43	0.15	0.06	0.18	0.33	0.04	CMS
Runoff	0.56	1.77	3.14	2.82	2.33	3.88	2.45	2.11	1.26	0.88	0.65	1.33	23.16	MCM

Momentary Peak 6.14 CMS. at 2.17 m. (MSL.) at 18.00 Hours , on Jul 17, 2008

Runoff Yield 16.29 Liters/Second/Square KM. Momentary Peak Yield 136.20 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 Float	-		
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 25 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

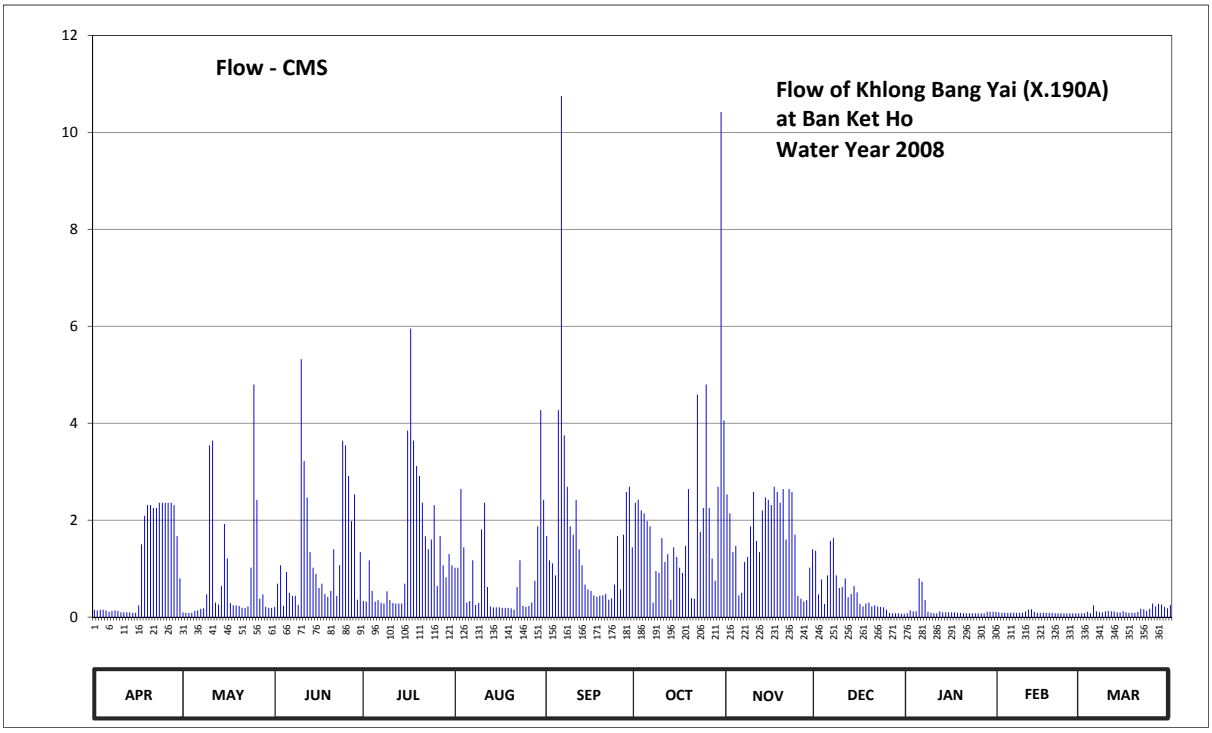
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	14.25	14.20	14.31	14.42	14.79	14.99	15.12	15.15	14.90	14.18	14.20	14.18	
2	14.24	14.19	14.64	14.41	14.79	14.84	15.13	15.08	14.51	14.24	14.19	14.18	
3	14.25	14.19	14.81	14.84	15.17	14.82	15.09	14.89	14.68	14.22	14.19	14.21	
4	14.25	14.19	14.33	14.56	14.92	14.72	15.08	14.93	14.37	14.22	14.19	14.18	
5	14.24	14.23	14.75	14.41	14.40	15.34	15.05	14.50	14.72	14.69	14.19	14.34	
6	14.21	14.24	14.53	14.43	14.42	15.65	15.03	14.53	14.96	14.66	14.19	14.22	
7	14.23	14.27	14.49	14.39	14.84	15.29	14.40	14.83	14.98	14.43	14.19	14.20	
8	14.24	14.28	14.49	14.38	14.35	15.18	14.76	14.86	14.72	14.21	14.19	14.20	
9	14.23	14.51	14.35	14.55	14.39	15.03	14.74	15.03	14.60	14.19	14.19	14.22	
10	14.20	15.27	15.42	14.43	15.02	15.00	14.98	15.16	14.61	14.18	14.22	14.23	
11	14.20	15.28	15.24	14.39	15.12	15.13	14.83	14.96	14.69	14.18	14.25	14.22	
12	14.20	14.40	15.14	14.38	14.61	14.91	14.88	14.89	14.47	14.22	14.26	14.22	
13	14.20	14.36	14.89	14.38	14.32	14.81	14.44	15.09	14.52	14.20	14.21	14.20	
14	14.19	14.62	14.79	14.38	14.30	14.63	14.92	15.14	14.62	14.20	14.19	14.20	
15	14.19	15.04	14.73	14.64	14.30	14.58	14.86	15.13	14.54	14.20	14.19	14.22	
16	14.34	14.85	14.60	15.30	14.30	14.56	14.79	15.11	14.37	14.20	14.19	14.20	
17	14.94	14.39	14.64	15.45	14.29	14.50	14.74	15.18	14.32	14.20	14.19	14.19	
18	15.07	14.34	14.52	15.28	14.29	14.48	14.93	15.16	14.38	14.19	14.19	14.19	
19	15.11	14.34	14.48	15.23	14.29	14.49	15.17	15.12	14.40	14.19	14.19	14.19	
20	15.11	14.33	14.56	15.21	14.28	14.50	14.46	15.17	14.32	14.18	14.18	14.21	
21	15.10	14.29	14.91	15.12	14.25	14.52	14.45	14.97	14.34	14.18	14.18	14.27	
22	15.10	14.29	14.49	14.99	14.61	14.44	15.37	15.17	14.32	14.18	14.18	14.26	
23	15.12	14.32	14.81	14.91	14.84	14.46	15.01	15.16	14.31	14.18	14.18	14.23	
24	15.12	14.79	15.28	14.97	14.33	14.63	15.10	15.00	14.30	14.18	14.18	14.27	
25	15.12	15.39	15.27	15.11	14.31	14.99	15.39	14.49	14.25	14.18	14.18	14.38	
26	15.12	15.13	15.21	14.62	14.33	14.58	15.10	14.45	14.19	14.18	14.18	14.32	
27	15.12	14.45	15.05	14.99	14.40	15.00	14.85	14.41	14.18	14.18	14.18	14.37	
28	15.11	14.51	15.15	14.81	14.67	15.16	14.67	14.43	14.18	14.21	14.18	14.36	
29	14.99	14.31	14.44	14.70	15.03	15.18	15.18	14.79	14.18	14.21		14.31	
30	14.69	14.29	14.89	14.88	15.34	14.92	15.64	14.91	14.17	14.21		14.28	
31		14.29		14.81	15.13		15.32		14.17	14.21		14.35	
Mean	14.62	14.50	14.77	14.75	14.59	14.84	14.95	14.92	14.46	14.23	14.19	14.25	
Max	15.12	15.39	15.42	15.45	15.34	15.65	15.64	15.18	14.98	14.69	14.26	14.38	15.65
Min	14.19	14.19	14.31	14.38	14.25	14.44	14.40	14.41	14.17	14.18	14.18	14.18	14.17

Annual Max Momentary Gage Height 15.91 m. (MSL.) , at 12.00 Hours , on Sep 5, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 13.83 m. (MSL.)

Left Bank Elevation 17.27 m. (MSL.) ,

Right Bank Elevation 17.24 m. (MSL.) , Drainage Are 28 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.15	0.10	0.21	0.33	1.02	1.67	2.36	2.53	1.37	0.08	0.10	0.08		
2	0.14	0.09	0.69	0.32	1.02	1.17	2.42	2.14	0.47	0.14	0.09	0.08		
3	0.15	0.09	1.07	1.17	2.64	1.11	2.20	1.34	0.78	0.12	0.09	0.11		
4	0.15	0.09	0.23	0.54	1.44	0.86	2.14	1.47	0.27	0.12	0.09	0.08		
5	0.14	0.13	0.93	0.32	0.30	4.27	1.98	0.45	0.86	0.80	0.09	0.24		
6	0.11	0.14	0.50	0.35	0.33	10.75	1.87	0.50	1.57	0.73	0.09	0.12		
7	0.13	0.17	0.44	0.29	1.17	3.75	0.30	1.14	1.63	0.35	0.09	0.10		
8	0.14	0.18	0.44	0.28	0.25	2.69	0.95	1.24	0.86	0.11	0.09	0.10		
9	0.13	0.47	0.25	0.53	0.29	1.87	0.91	1.87	0.60	0.09	0.09	0.12		
10	0.10	3.54	5.32	0.35	1.81	1.70	1.63	2.58	0.62	0.08	0.12	0.13		
11	0.10	3.64	3.22	0.29	2.36	2.42	1.14	1.57	0.80	0.08	0.15	0.12		
12	0.10	0.30	2.47	0.28	0.62	1.40	1.30	1.34	0.41	0.12	0.16	0.12		
13	0.10	0.26	1.34	0.28	0.22	1.07	0.36	2.20	0.48	0.10	0.11	0.10		
14	0.09	0.64	1.02	0.28	0.20	0.67	1.44	2.47	0.64	0.10	0.09	0.10		
15	0.09	1.92	0.89	0.69	0.20	0.57	1.24	2.42	0.51	0.10	0.09	0.12		
16	0.24	1.21	0.60	3.85	0.20	0.54	1.02	2.31	0.27	0.10	0.09	0.10		
17	1.50	0.29	0.69	5.95	0.19	0.45	0.91	2.69	0.22	0.10	0.09	0.09		
18	2.09	0.24	0.48	3.64	0.19	0.42	1.47	2.58	0.28	0.09	0.09	0.09		
19	2.31	0.24	0.42	3.12	0.19	0.44	2.64	2.36	0.30	0.09	0.09	0.09		
20	2.31	0.23	0.54	2.91	0.18	0.45	0.39	2.64	0.22	0.08	0.08	0.11		
21	2.25	0.19	1.40	2.36	0.15	0.48	0.38	1.60	0.24	0.08	0.08	0.17		
22	2.25	0.19	0.44	1.67	0.62	0.36	4.59	2.64	0.22	0.08	0.08	0.16		
23	2.36	0.22	1.07	1.40	1.17	0.39	1.76	2.58	0.21	0.08	0.08	0.13		
24	2.36	1.02	3.64	1.60	0.23	0.67	2.25	1.70	0.20	0.08	0.08	0.17		
25	2.36	4.80	3.54	2.31	0.21	1.67	4.80	0.44	0.15	0.08	0.08	0.28		
26	2.36	2.42	2.91	0.64	0.23	0.57	2.25	0.38	0.09	0.08	0.08	0.22		
27	2.36	0.38	1.98	1.67	0.30	1.70	1.21	0.32	0.08	0.08	0.08	0.27		
28	2.31	0.47	2.53	1.07	0.75	2.58	0.75	0.35	0.08	0.11	0.08	0.26		
29	1.67	0.21	0.36	0.82	1.87	2.69	2.69	1.02	0.08	0.11		0.21		
30	0.80	0.19	1.34	1.30	4.27	1.44	10.42	1.40	0.07	0.11		0.18		
31		0.19		1.07	2.42		4.06		0.07	0.11		0.25		
Total	31.35	24.25	40.96	41.68	27.04	50.82	63.83	50.27	14.65	4.58	2.62	4.50	356.55	CMSDAY
Mean	1.04	0.78	1.37	1.34	0.87	1.69	2.06	1.68	0.47	0.15	0.09	0.15	0.98	CMS
Max	2.36	4.80	5.32	5.95	4.27	10.75	10.42	2.69	1.63	0.80	0.16	0.28	10.75	CMS
Min	0.09	0.09	0.21	0.28	0.15	0.36	0.30	0.32	0.07	0.08	0.08	0.08	0.07	CMS
Runoff	2.71	2.10	3.54	3.60	2.34	4.39	5.51	4.34	1.27	0.40	0.23	0.39	30.81	MCM

Momentary Peak 21.64 CMS. at 15.91 m. (MSL.) at 12.00 Hours , on Sep 5, 2008

Runoff Yield 33.78 Liters/Second/Square KM. Momentary Peak Yield 748.27 Liters/Second/Square KM.

WATER YEAR : 2008

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	
Drainge 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**	+4.830 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 Float	-				
Rated by Current Meter	1996 to date				
Stability of Channel Regimes	Fairly stable.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2008.				

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

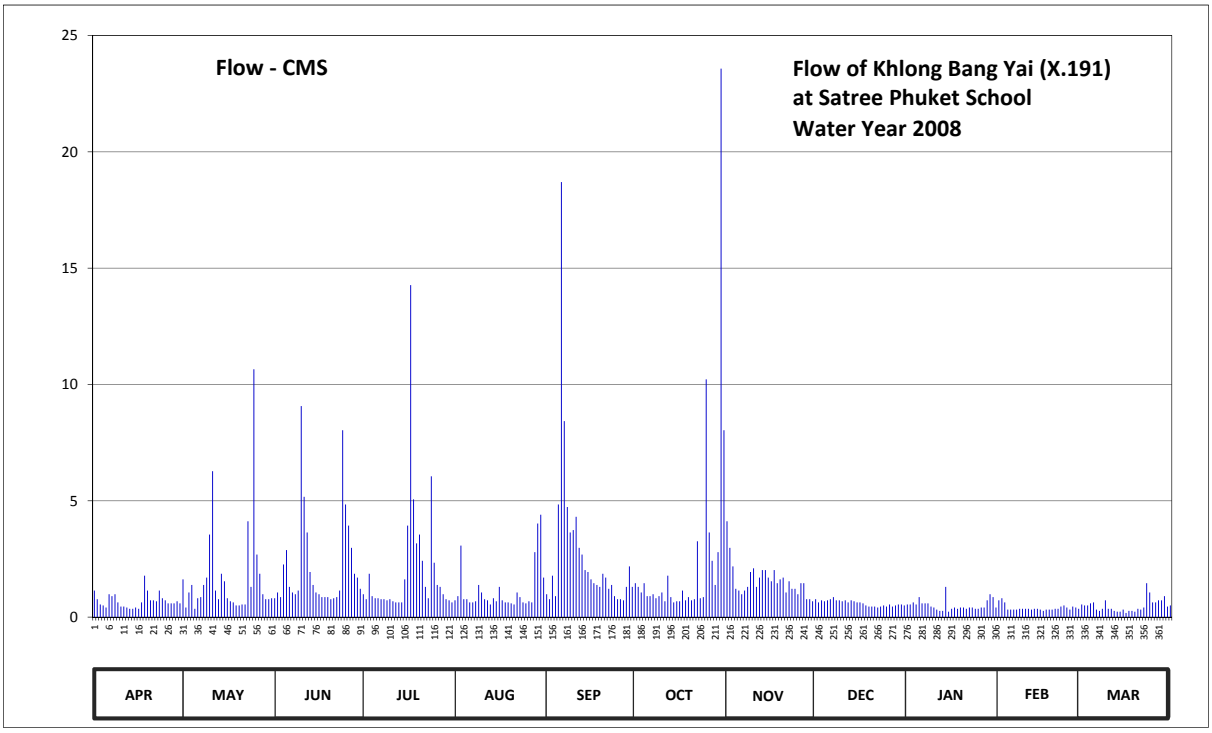
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.63	1.69	1.58	1.61	1.56	1.61	1.67	1.97	1.57	1.52	1.56	1.52	
2	1.57	1.49	1.62	1.57	1.60	1.57	1.65	1.85	1.54	1.52	1.58	1.51	
3	1.52	1.62	1.59	1.72	1.86	1.71	1.62	1.76	1.56	1.54	1.54	1.51	
4	1.51	1.66	1.77	1.60	1.57	1.60	1.67	1.64	1.55	1.52	1.47	1.53	
5	1.49	1.48	1.84	1.58	1.57	2.04	1.60	1.63	1.56	1.59	1.47	1.54	
6	1.61	1.58	1.65	1.58	1.54	3.00	1.60	1.61	1.57	1.53	1.47	1.47	
7	1.60	1.59	1.62	1.57	1.54	2.34	1.61	1.63	1.59	1.53	1.47	1.46	
8	1.61	1.66	1.61	1.57	1.55	2.03	1.58	1.65	1.56	1.53	1.48	1.48	
9	1.54	1.70	1.63	1.56	1.66	1.92	1.60	1.73	1.56	1.50	1.48	1.56	
10	1.50	1.91	2.39	1.57	1.62	1.93	1.62	1.75	1.55	1.49	1.48	1.48	
11	1.50	2.17	2.07	1.55	1.57	1.99	1.55	1.65	1.56	1.47	1.48	1.48	
12	1.49	1.63	1.92	1.54	1.56	1.85	1.71	1.70	1.54	1.46	1.47	1.46	
13	1.48	1.57	1.73	1.54	1.52	1.82	1.59	1.74	1.56	1.46	1.48	1.45	
14	1.48	1.72	1.66	1.54	1.58	1.74	1.54	1.74	1.55	1.65	1.48	1.45	
15	1.49	1.68	1.62	1.69	1.55	1.73	1.55	1.70	1.54	1.45	1.47	1.47	
16	1.48	1.58	1.61	1.95	1.65	1.69	1.55	1.68	1.54	1.48	1.46	1.44	
17	1.54	1.55	1.59	2.74	1.56	1.67	1.63	1.74	1.53	1.49	1.47	1.46	
18	1.71	1.54	1.59	2.06	1.54	1.66	1.56	1.67	1.51	1.48	1.47	1.46	
19	1.63	1.51	1.59	1.87	1.54	1.65	1.59	1.69	1.50	1.49	1.47	1.45	
20	1.56	1.51	1.57	1.91	1.53	1.72	1.56	1.70	1.50	1.49	1.48	1.48	
21	1.56	1.52	1.58	1.79	1.52	1.70	1.57	1.62	1.50	1.48	1.48	1.47	
22	1.55	1.52	1.59	1.65	1.62	1.64	1.88	1.68	1.49	1.49	1.50	1.49	
23	1.63	1.97	1.63	1.58	1.59	1.66	1.58	1.64	1.50	1.49	1.51	1.67	
24	1.58	1.65	2.31	2.15	1.54	1.60	1.59	1.64	1.51	1.48	1.49	1.62	
25	1.56	2.50	2.04	1.78	1.53	1.57	2.47	1.61	1.50	1.48	1.47	1.54	
26	1.53	1.82	1.95	1.66	1.55	1.57	1.92	1.67	1.52	1.49	1.50	1.54	
27	1.53	1.72	1.85	1.65	1.54	1.56	1.79	1.67	1.50	1.49	1.49	1.56	
28	1.53	1.61	1.72	1.61	1.83	1.65	1.66	1.57	1.51	1.56	1.48	1.56	
29	1.55	1.57	1.70	1.57	1.96	1.76	1.83	1.57	1.52	1.61		1.60	
30	1.53	1.57	1.64	1.56	2.00	1.65	3.26	1.55	1.52	1.59		1.50	
31		1.58		1.54	1.70		2.31		1.51	1.49		1.51	
Mean	1.55	1.67	1.74	1.71	1.61	1.79	1.74	1.68	1.53	1.51	1.49	1.51	
Max	1.71	2.50	2.39	2.74	2.00	3.00	3.26	1.97	1.59	1.65	1.58	1.67	3.26
Min	1.48	1.48	1.57	1.54	1.52	1.56	1.54	1.55	1.49	1.45	1.46	1.44	1.44

Annual Max Momentary Gage Height 3.67 m. (MSL.) , at 06.00 Hours , on Oct 30, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 1.10 m. (MSL.)

Left Bank Elevation 4.90 m. (MSL.) ,

Right Bank Elevation 4.89 m. (MSL.) , Drainage Are 54 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.14	1.62	0.81	0.98	0.72	0.98	1.46	4.12	0.77	0.54	0.72	0.54		
2	0.77	0.41	1.06	0.77	0.90	0.77	1.30	2.98	0.63	0.54	0.81	0.50		
3	0.54	1.06	0.86	1.86	3.07	1.78	1.06	2.18	0.72	0.63	0.63	0.50		
4	0.50	1.38	2.26	0.90	0.77	0.90	1.46	1.22	0.68	0.54	0.32	0.59		
5	0.41	0.36	2.88	0.81	0.77	4.84	0.90	1.14	0.72	0.86	0.32	0.63		
6	0.98	0.81	1.30	0.81	0.63	18.70	0.90	0.98	0.77	0.59	0.32	0.32		
7	0.90	0.86	1.06	0.77	0.63	8.42	0.98	1.14	0.86	0.59	0.32	0.27		
8	0.98	1.38	0.98	0.77	0.68	4.73	0.81	1.30	0.72	0.59	0.36	0.36		
9	0.63	1.70	1.14	0.72	1.38	3.64	0.90	1.94	0.72	0.45	0.36	0.72		
10	0.45	3.55	9.07	0.77	1.06	3.74	1.06	2.10	0.68	0.41	0.36	0.36		
11	0.45	6.27	5.17	0.68	0.77	4.31	0.68	1.30	0.72	0.32	0.36	0.36		
12	0.41	1.14	3.64	0.63	0.72	2.98	1.78	1.70	0.63	0.27	0.32	0.27		
13	0.36	0.77	1.94	0.63	0.54	2.69	0.86	2.02	0.72	0.27	0.36	0.23		
14	0.36	1.86	1.38	0.63	0.81	2.02	0.63	2.02	0.68	1.30	0.36	0.23		
15	0.41	1.54	1.06	1.62	0.68	1.94	0.68	1.70	0.63	0.23	0.32	0.32		
16	0.36	0.81	0.98	3.93	1.30	1.62	0.68	1.54	0.63	0.36	0.27	0.18		
17	0.63	0.68	0.86	14.27	0.72	1.46	1.14	2.02	0.59	0.41	0.32	0.27		
18	1.78	0.63	0.86	5.06	0.63	1.38	0.72	1.46	0.50	0.36	0.32	0.27		
19	1.14	0.50	0.86	3.17	0.63	1.30	0.86	1.62	0.45	0.41	0.32	0.23		
20	0.72	0.50	0.77	3.55	0.59	1.86	0.72	1.70	0.45	0.41	0.36	0.36		
21	0.72	0.54	0.81	2.42	0.54	1.70	0.77	1.06	0.45	0.36	0.36	0.32		
22	0.68	0.54	0.86	1.30	1.06	1.22	3.26	1.54	0.41	0.41	0.45	0.41		
23	1.14	4.12	1.14	0.81	0.86	1.38	0.81	1.22	0.45	0.41	0.50	1.46		
24	0.81	1.30	8.03	6.05	0.63	0.90	0.86	1.22	0.50	0.36	0.41	1.06		
25	0.72	10.65	4.84	2.34	0.59	0.77	10.22	0.98	0.45	0.36	0.32	0.63		
26	0.59	2.69	3.93	1.38	0.68	0.77	3.64	1.46	0.54	0.41	0.45	0.63		
27	0.59	1.86	2.98	1.30	0.63	0.72	2.42	1.46	0.45	0.41	0.41	0.72		
28	0.59	0.98	1.86	0.98	2.79	1.30	1.38	0.77	0.50	0.72	0.36	0.72		
29	0.68	0.77	1.70	0.77	4.02	2.18	2.79	0.77	0.54	0.98		0.90		
30	0.59	0.77	1.22	0.72	4.40	1.30	23.57	0.68	0.54	0.86		0.45		
31		0.81		0.63	1.70		8.03		0.50	0.41		0.50		
Total	21.03	52.86	66.31	62.03	35.90	82.30	77.33	47.34	18.60	15.77	11.09	15.31	505.87	CMSDAY
Mean	0.70	1.71	2.21	2.00	1.16	2.74	2.49	1.58	0.60	0.51	0.40	0.49	1.39	CMS
Max	1.78	10.65	9.07	14.27	4.40	18.70	23.57	4.12	0.86	1.30	0.81	1.46	23.57	CMS
Min	0.36	0.36	0.77	0.63	0.54	0.72	0.63	0.68	0.41	0.23	0.27	0.18	0.18	CMS
Runoff	1.82	4.57	5.73	5.36	3.10	7.11	6.68	4.09	1.61	1.36	0.96	1.32	43.71	MCM

Momentary Peak 31.91 CMS. at 3.67 m. (MSL.) at 06.00 Hours , on Oct 30, 2008

Runoff Yield 25.64 Liters/Second/Square KM. Momentary Peak Yield 590.27 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Bang Tha at Mueang , Phuket (X.192)

Lat 07 - 50 - 16 N Long 98 - 21 - 05 E

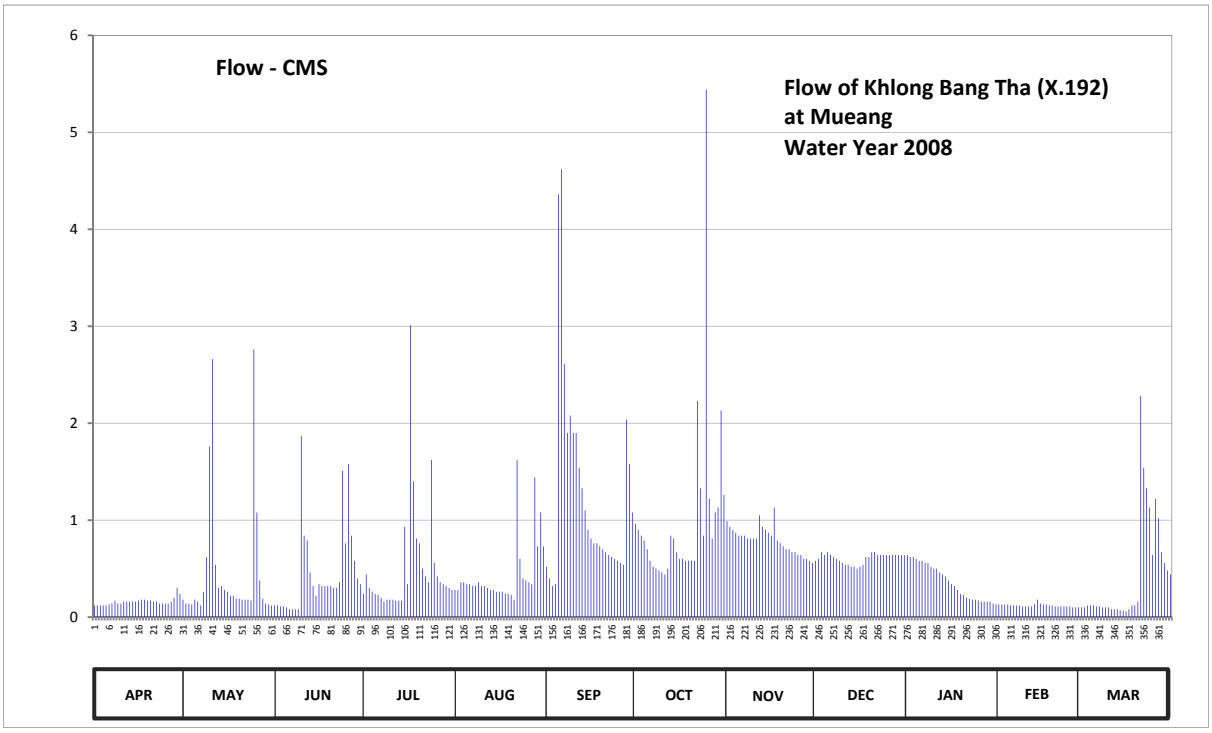
Location : on left bank at the bridge.

	Ban -	**Amphoe** Mueang	**Changwat** Phuket	
Drainge 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 Float	-			
Rated by Current Meter	1996 to date			
Stability of Channel Regimes	Stable.			
Overbank Flow Conditions	No overbank flow.			
General Description	Records fair. Stage-discharge relation defined by 23 discharge measurements made in 2008.			

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.70	2.75	2.70	2.80	2.82	2.94	3.11	3.12	2.97	3.00	2.71	2.68	
2	2.70	2.72	2.70	2.90	2.82	2.88	3.09	3.10	2.98	2.99	2.71	2.68	
3	2.70	2.72	2.69	2.83	2.86	2.84	3.07	3.09	3.01	2.99	2.71	2.70	
4	2.70	2.71	2.69	2.81	2.86	2.85	3.05	3.08	3.00	2.98	2.71	2.70	
5	2.70	2.75	2.68	2.80	2.85	3.85	3.02	3.07	3.01	2.97	2.70	2.70	
6	2.71	2.73	2.67	2.79	2.85	3.89	2.97	3.07	3.00	2.97	2.70	2.69	
7	2.72	2.70	2.67	2.77	2.84	3.54	2.94	3.07	2.99	2.96	2.70	2.69	
8	2.74	2.81	2.67	2.73	2.84	3.39	2.93	3.06	2.98	2.96	2.70	2.68	
9	2.72	2.99	2.67	2.75	2.86	3.43	2.92	3.06	2.97	2.94	2.69	2.68	
10	2.72	3.35	3.38	2.75	2.84	3.39	2.91	3.06	2.96	2.93	2.69	2.68	
11	2.73	3.55	3.07	2.75	2.84	3.39	2.90	3.06	2.95	2.93	2.69	2.67	
12	2.73	2.95	3.05	2.74	2.83	3.29	2.93	3.14	2.95	2.91	2.69	2.67	
13	2.73	2.83	2.91	2.74	2.82	3.23	3.07	3.10	2.94	2.90	2.71	2.67	
14	2.73	2.84	2.84	2.74	2.82	3.16	3.06	3.09	2.94	2.89	2.75	2.66	
15	2.73	2.82	2.78	3.10	2.81	3.09	3.01	3.08	2.93	2.87	2.72	2.66	
16	2.74	2.81	2.85	2.85	2.81	3.06	2.98	3.07	2.94	2.85	2.71	2.65	
17	2.75	2.78	2.84	3.62	2.81	3.04	2.98	3.17	2.95	2.84	2.71	2.67	
18	2.75	2.78	2.84	3.25	2.80	3.04	2.97	3.05	2.99	2.82	2.70	2.70	
19	2.74	2.76	2.84	3.06	2.80	3.03	2.97	3.04	2.99	2.80	2.70	2.70	
20	2.74	2.76	2.84	3.04	2.79	3.02	2.97	3.03	3.01	2.79	2.69	2.73	
21	2.73	2.75	2.83	2.93	2.75	3.01	2.97	3.02	3.01	2.77	2.69	3.47	
22	2.73	2.75	2.83	2.89	3.31	3.00	3.46	3.02	3.00	2.76	2.69	3.29	
23	2.72	2.75	2.86	2.86	2.98	2.99	3.23	3.01	3.00	2.75	2.69	3.23	
24	2.72	2.74	3.28	3.31	2.88	2.98	3.07	3.01	3.00	2.75	2.69	3.17	
25	2.72	3.57	3.04	2.96	2.87	2.97	4.01	3.00	3.00	2.74	2.69	3.00	
26	2.72	3.15	3.30	2.89	2.86	2.96	3.20	3.00	3.00	2.73	2.68	3.20	
27	2.73	2.87	3.07	2.86	2.85	2.95	3.06	2.98	3.00	2.73	2.68	3.13	
28	2.77	2.76	2.97	2.85	3.26	3.42	3.15	2.98	3.00	2.73	2.68	3.01	
29	2.83	2.72	2.88	2.84	3.03	3.30	3.17	2.97	3.00	2.73		2.96	
30	2.80	2.71	2.85	2.83	3.15	3.15	3.44	2.96	3.00	2.72		2.92	
31		2.70		2.82	3.03		3.21		3.00	2.71		2.90	
Mean	2.73	2.86	2.88	2.90	2.89	3.17	3.09	3.05	2.98	2.85	2.70	2.84	
Max	2.83	3.57	3.38	3.62	3.31	3.89	4.01	3.17	3.01	3.00	2.75	3.47	4.01
Min	2.70	2.70	2.67	2.73	2.75	2.84	2.90	2.96	2.93	2.71	2.68	2.65	2.65

Annual Max Momentary Gage Height	4.60	m. (MSL.) ,	at 18.00 Hours , on Sep 5, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	2.41	m. (MSL)
Left Bank Elevation	5.97	m. (MSL.) ,			
Right Bank Elevation	5.98	m. (MSL.) ,	Drainage Are	6	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.12	0.18	0.12	0.24	0.28	0.52	0.96	0.99	0.58	0.64	0.13	0.10		
2	0.12	0.14	0.12	0.44	0.28	0.40	0.90	0.93	0.60	0.62	0.13	0.10		
3	0.12	0.14	0.11	0.30	0.36	0.32	0.84	0.90	0.67	0.62	0.13	0.12		
4	0.12	0.13	0.11	0.26	0.36	0.34	0.79	0.87	0.64	0.60	0.13	0.12		
5	0.12	0.18	0.10	0.24	0.34	4.36	0.70	0.84	0.67	0.58	0.12	0.12		
6	0.13	0.16	0.08	0.23	0.34	4.62	0.58	0.84	0.64	0.58	0.12	0.11		
7	0.14	0.12	0.08	0.20	0.32	2.61	0.52	0.84	0.62	0.56	0.12	0.11		
8	0.17	0.26	0.08	0.16	0.32	1.90	0.50	0.81	0.60	0.56	0.12	0.10		
9	0.14	0.62	0.08	0.18	0.36	2.08	0.48	0.81	0.58	0.52	0.11	0.10		
10	0.14	1.76	1.87	0.18	0.32	1.90	0.46	0.81	0.56	0.50	0.11	0.10		
11	0.16	2.66	0.84	0.18	0.32	1.90	0.44	0.81	0.54	0.50	0.11	0.08		
12	0.16	0.54	0.79	0.17	0.30	1.54	0.50	1.05	0.54	0.46	0.11	0.08		
13	0.16	0.30	0.46	0.17	0.28	1.33	0.84	0.93	0.52	0.44	0.13	0.08		
14	0.16	0.32	0.32	0.17	0.28	1.10	0.81	0.90	0.52	0.42	0.18	0.07		
15	0.16	0.28	0.22	0.93	0.26	0.90	0.67	0.87	0.50	0.38	0.14	0.07		
16	0.17	0.26	0.34	0.34	0.26	0.81	0.60	0.84	0.52	0.34	0.13	0.06		
17	0.18	0.22	0.32	3.01	0.26	0.76	0.60	1.13	0.54	0.32	0.13	0.08		
18	0.18	0.22	0.32	1.40	0.24	0.76	0.58	0.79	0.62	0.28	0.12	0.12		
19	0.17	0.19	0.32	0.81	0.24	0.73	0.58	0.76	0.62	0.24	0.12	0.12		
20	0.17	0.19	0.32	0.76	0.23	0.70	0.58	0.73	0.67	0.23	0.11	0.16		
21	0.16	0.18	0.30	0.50	0.18	0.67	0.58	0.70	0.67	0.20	0.11	2.28		
22	0.16	0.18	0.30	0.42	1.62	0.64	2.23	0.70	0.64	0.19	0.11	1.54		
23	0.14	0.18	0.36	0.36	0.60	0.62	1.33	0.67	0.64	0.18	0.11	1.33		
24	0.14	0.17	1.51	1.62	0.40	0.60	0.84	0.67	0.64	0.18	0.11	1.13		
25	0.14	2.76	0.76	0.56	0.38	0.58	5.44	0.64	0.64	0.17	0.11	0.64		
26	0.14	1.08	1.58	0.42	0.36	0.56	1.22	0.64	0.64	0.16	0.10	1.22		
27	0.16	0.38	0.84	0.36	0.34	0.54	0.81	0.60	0.64	0.16	0.10	1.02		
28	0.20	0.19	0.58	0.34	1.44	2.04	1.08	0.60	0.64	0.16	0.10	0.67		
29	0.30	0.14	0.40	0.32	0.73	1.58	1.13	0.58	0.64	0.16		0.56		
30	0.24	0.13	0.34	0.30	1.08	1.08	2.13	0.56	0.64	0.14		0.48		
31		0.12		0.28	0.73		1.26		0.64	0.13		0.44		
Total	4.77	14.38	13.97	15.85	13.81	38.49	30.98	23.81	18.82	11.22	3.35	13.31	202.76	CMSDAY
Mean	0.16	0.46	0.47	0.51	0.45	1.28	1.00	0.79	0.61	0.36	0.12	0.43	0.56	CMS
Max	0.30	2.76	1.87	3.01	1.62	4.62	5.44	1.13	0.67	0.64	0.18	2.28	5.44	CMS
Min	0.12	0.12	0.08	0.16	0.18	0.32	0.44	0.56	0.50	0.13	0.10	0.06	0.06	CMS
Runoff	0.41	1.24	1.21	1.37	1.19	3.33	2.68	2.06	1.63	0.97	0.29	1.15	17.52	MCM

Momentary Peak 10.64 CMS. at 4.60 m. (MSL.) at 18.00 Hours , on Sep 5, 2008

Runoff Yield 92.58 Liters/Second/Square KM. Momentary Peak Yield 1773.33 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 Float	-		
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 25 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

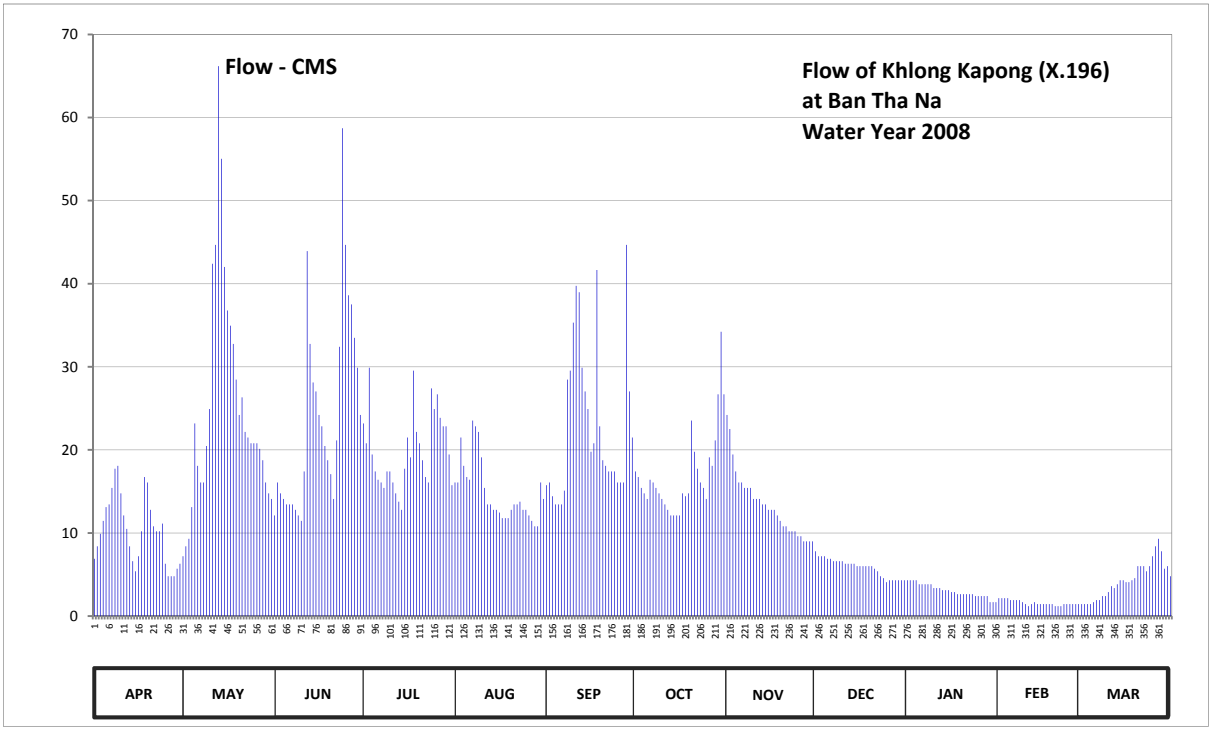
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	15.87	15.88	16.04	16.37	16.16	16.15	16.20	16.40	15.90	15.78	15.69	15.66	
2	15.92	15.92	16.16	16.30	16.16	16.16	16.18	16.35	15.88	15.78	15.69	15.66	
3	15.97	15.95	16.12	16.56	16.32	16.11	16.14	16.26	15.88	15.78	15.69	15.66	
4	16.02	16.07	16.10	16.26	16.22	16.08	16.12	16.20	15.88	15.78	15.69	15.66	
5	16.07	16.37	16.08	16.20	16.18	16.08	16.10	16.16	15.87	15.76	15.68	15.67	
6	16.08	16.22	16.08	16.17	16.17	16.08	16.17	16.16	15.87	15.76	15.68	15.68	
7	16.14	16.16	16.08	16.16	16.38	16.13	16.16	16.14	15.86	15.76	15.68	15.68	
8	16.21	16.16	16.06	16.14	16.36	16.52	16.14	16.14	15.86	15.76	15.68	15.70	
9	16.22	16.29	16.04	16.20	16.34	16.55	16.12	16.14	15.86	15.76	15.67	15.70	
10	16.12	16.42	16.02	16.20	16.25	16.71	16.10	16.10	15.86	15.74	15.66	15.72	
11	16.04	16.90	16.20	16.16	16.14	16.83	16.08	16.10	15.85	15.74	15.65	15.75	
12	15.99	16.96	16.94	16.12	16.08	16.81	16.06	16.10	15.85	15.74	15.66	15.74	
13	15.92	17.49	16.64	16.09	16.08	16.56	16.04	16.08	15.85	15.73	15.67	15.76	
14	15.86	17.22	16.51	16.06	16.06	16.48	16.04	16.08	15.85	15.73	15.66	15.78	
15	15.82	16.89	16.48	16.21	16.06	16.42	16.04	16.06	15.84	15.73	15.66	15.78	
16	15.88	16.75	16.40	16.32	16.05	16.27	16.04	16.06	15.84	15.72	15.66	15.77	
17	15.98	16.70	16.36	16.25	16.03	16.30	16.12	16.06	15.84	15.72	15.66	15.77	
18	16.18	16.64	16.29	16.55	16.03	16.88	16.11	16.04	15.84	15.71	15.66	15.78	
19	16.16	16.52	16.24	16.34	16.03	16.36	16.12	16.02	15.84	15.71	15.66	15.79	
20	16.06	16.40	16.19	16.30	16.06	16.24	16.38	16.00	15.84	15.71	15.65	15.84	
21	16.00	16.46	16.10	16.24	16.08	16.22	16.27	16.00	15.83	15.71	15.65	15.84	
22	15.98	16.34	16.31	16.18	16.08	16.20	16.21	15.98	15.82	15.71	15.65	15.84	
23	15.98	16.32	16.63	16.16	16.09	16.20	16.16	15.98	15.80	15.71	15.66	15.82	
24	16.01	16.30	17.31	16.49	16.06	16.20	16.14	15.98	15.79	15.70	15.66	15.84	
25	15.85	16.30	16.96	16.42	16.06	16.16	16.10	15.96	15.77	15.70	15.66	15.88	
26	15.80	16.30	16.80	16.47	16.04	16.16	16.25	15.96	15.78	15.70	15.66	15.92	
27	15.80	16.28	16.77	16.39	16.02	16.16	16.22	15.94	15.78	15.70	15.66	15.95	
28	15.80	16.24	16.66	16.36	16.00	16.96	16.31	15.94	15.78	15.70	15.66	15.90	
29	15.83	16.16	16.56	16.36	16.00	16.48	16.47	15.94	15.78	15.67		15.83	
30	15.85	16.12	16.40	16.26	16.16	16.32	16.68	15.94	15.78	15.67		15.84	
31		16.10		16.15	16.10		16.47		15.78	15.67		15.80	
Mean	15.98	16.41	16.38	16.27	16.12	16.36	16.19	16.08	15.83	15.73	15.67	15.77	
Max	16.22	17.49	17.31	16.56	16.38	16.96	16.68	16.40	15.90	15.78	15.69	15.95	17.49
Min	15.80	15.88	16.02	16.06	16.00	16.08	16.04	15.94	15.77	15.67	15.65	15.66	15.65

Annual Max Momentary Gage Height 17.66 m. (MSL.) , at 18.00 Hours , on May 13, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 14.60 m. (MSL.)

Left Bank Elevation 19.93 m. (MSL.) ,

Right Bank Elevation 19.91 m. (MSL.) , Drainage Are 139 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.90	7.20	12.12	23.18	16.08	15.75	17.40	24.20	7.80	4.32	2.16	1.44		
2	8.40	8.40	16.08	20.80	16.08	16.08	16.74	22.50	7.20	4.32	2.16	1.44		
3	9.90	9.30	14.76	29.88	21.48	14.43	15.42	19.44	7.20	4.32	2.16	1.44		
4	11.46	13.11	14.10	19.44	18.08	13.44	14.76	17.40	7.20	4.32	2.16	1.44		
5	13.11	23.18	13.44	17.40	16.74	13.44	14.10	16.08	6.90	3.84	1.92	1.68		
6	13.44	18.08	13.44	16.41	16.41	13.44	16.41	16.08	6.90	3.84	1.92	1.92		
7	15.42	16.08	13.44	16.08	23.52	15.09	16.08	15.42	6.60	3.84	1.92	1.92		
8	17.74	16.08	12.78	15.42	22.84	28.46	15.42	15.42	6.60	3.84	1.92	2.40		
9	18.08	20.46	12.12	17.40	22.16	29.53	14.76	15.42	6.60	3.84	1.68	2.40		
10	14.76	24.91	11.46	17.40	19.10	35.32	14.10	14.10	6.60	3.36	1.44	2.88		
11	12.12	42.40	17.40	16.08	15.42	39.74	13.44	14.10	6.30	3.36	1.20	3.60		
12	10.50	44.68	43.92	14.76	13.44	38.98	12.78	14.10	6.30	3.36	1.44	3.36		
13	8.40	66.18	32.76	13.77	13.44	29.88	12.12	13.44	6.30	3.12	1.68	3.84		
14	6.60	55.02	28.11	12.78	12.78	27.04	12.12	13.44	6.30	3.12	1.44	4.32		
15	5.40	42.02	27.04	17.74	12.78	24.91	12.12	12.78	6.00	3.12	1.44	4.32		
16	7.20	36.78	24.20	21.48	12.45	19.78	12.12	12.78	6.00	2.88	1.44	4.08		
17	10.20	34.95	22.84	19.10	11.79	20.80	14.76	12.78	6.00	2.88	1.44	4.08		
18	16.74	32.76	20.46	29.53	11.79	41.64	14.43	12.12	6.00	2.64	1.44	4.32		
19	16.08	28.46	18.76	22.16	11.79	22.84	14.76	11.46	6.00	2.64	1.44	4.56		
20	12.78	24.20	17.07	20.80	12.78	18.76	23.52	10.80	6.00	2.64	1.20	6.00		
21	10.80	26.33	14.10	18.76	13.44	18.08	19.78	10.80	5.70	2.64	1.20	6.00		
22	10.20	22.16	21.14	16.74	13.44	17.40	17.74	10.20	5.40	2.64	1.20	6.00		
23	10.20	21.48	32.40	16.08	13.77	17.40	16.08	10.20	4.80	2.64	1.44	5.40		
24	11.13	20.80	58.71	27.40	12.78	17.40	15.42	10.20	4.56	2.40	1.44	6.00		
25	6.30	20.80	44.68	24.91	12.78	16.08	14.10	9.60	4.08	2.40	1.44	7.20		
26	4.80	20.80	38.60	26.69	12.12	16.08	19.10	9.60	4.32	2.40	1.44	8.40		
27	4.80	20.12	37.51	23.86	11.46	16.08	18.08	9.00	4.32	2.40	1.44	9.30		
28	4.80	18.76	33.49	22.84	10.80	44.68	21.14	9.00	4.32	2.40	1.44	7.80		
29	5.70	16.08	29.88	22.84	10.80	27.04	26.69	9.00	4.32	1.68		5.70		
30	6.30	14.76	24.20	19.44	16.08	21.48	34.22	9.00	4.32	1.68		6.00		
31		14.10		15.75	14.10		26.69		4.32	1.68		4.80		
Total	310.26	780.44	721.01	616.92	462.52	691.07	526.40	400.46	181.26	94.56	44.64	134.04	4963.58	CMSDAY
Mean	10.34	25.18	24.03	19.90	14.92	23.04	16.98	13.35	5.85	3.05	1.59	4.32	13.60	CMS
Max	18.08	66.18	58.71	29.88	23.52	44.68	34.22	24.20	7.80	4.32	2.16	9.30	66.18	CMS
Min	4.80	7.20	11.46	12.78	10.80	13.44	12.12	9.00	4.08	1.68	1.20	1.44	1.20	CMS
Runoff	26.81	67.43	62.30	53.30	39.96	59.71	45.48	34.60	15.66	8.17	3.86	11.58	428.85	MCM

Momentary Peak 73.32 CMS. at 17.66 m. (MSL.) at 18.00 Hours , on May 13, 2008

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Had Sompan at Ban Had Sompan, Ranong (X.204)

Lat 09 - 56 - 57 N Long 98 - 41 - 46 E

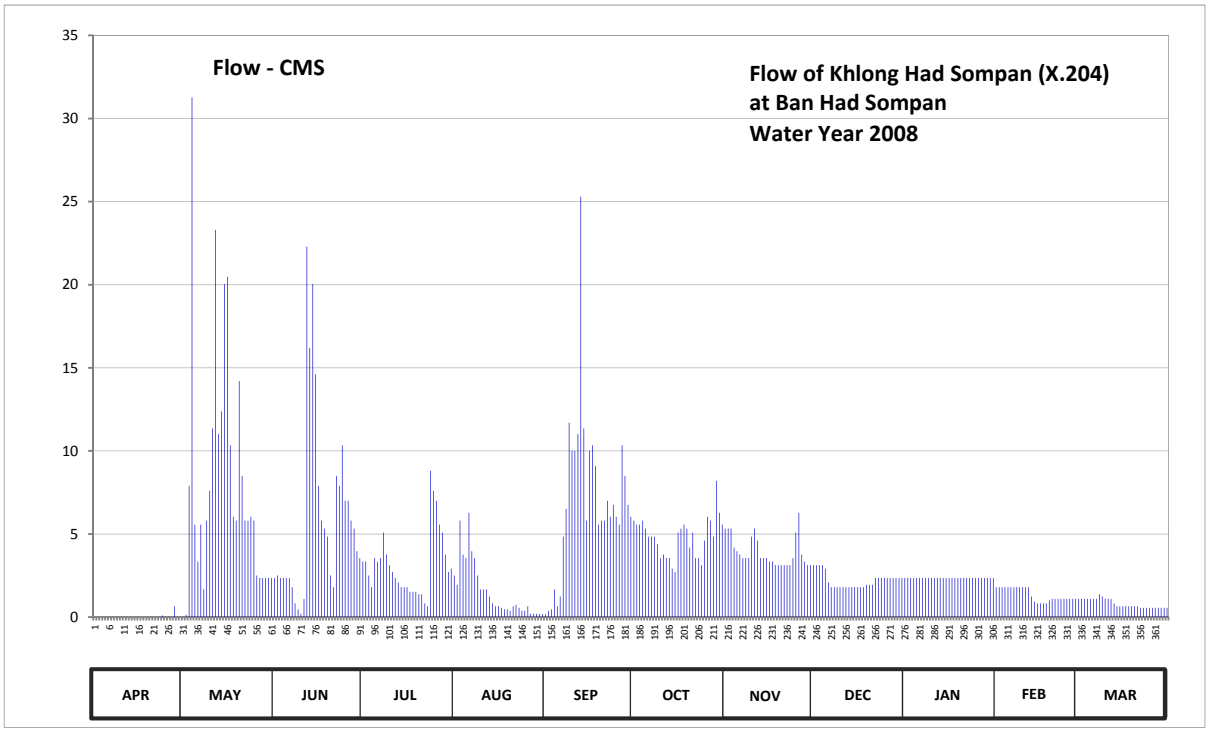
Location : on left bank at Ban Hat Sompan.

	Ban Had Sompan	**Amphoe** Mueang	**Changwat** Ranong
Drainge Area	23 sq.km.		
Type of Gage	Water - stage recorder.		
Zero Gage at Bottom	+133.050 m. (MSL.)		
Bench Mark	B.M.-H.D.		
Location BM	Near the top staff gage.		**Elevation** +137.648 m. (MSL.)
Gage Reading Frequency	Recording.		
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Rather unstableby some scouring.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	133.10	133.06	133.39	133.44	133.40	133.18	133.55	133.53	133.43	133.39	133.35	133.30	
2	133.10	133.17	133.40	133.44	133.36	133.22	133.54	133.53	133.43	133.39	133.35	133.30	
3	133.10	133.63	133.39	133.40	133.55	133.23	133.54	133.53	133.43	133.39	133.35	133.30	
4	133.10	134.18	133.39	133.35	133.46	133.34	133.55	133.48	133.43	133.39	133.35	133.30	
5	133.10	133.54	133.39	133.45	133.45	133.25	133.53	133.47	133.42	133.39	133.35	133.30	
6	133.10	133.44	133.39	133.44	133.57	133.31	133.51	133.46	133.37	133.39	133.35	133.30	
7	133.10	133.54	133.35	133.45	133.47	133.51	133.51	133.45	133.35	133.39	133.35	133.30	
8	133.10	133.34	133.27	133.52	133.45	133.58	133.51	133.45	133.35	133.39	133.35	133.32	
9	133.10	133.55	133.23	133.46	133.40	133.75	133.49	133.45	133.35	133.39	133.35	133.31	
10	133.10	133.62	133.20	133.43	133.34	133.70	133.45	133.51	133.35	133.39	133.35	133.30	
11	133.10	133.74	133.30	133.41	133.34	133.70	133.46	133.53	133.35	133.39	133.35	133.30	
12	133.10	134.03	134.01	133.39	133.34	133.73	133.45	133.50	133.35	133.39	133.35	133.30	
13	133.10	133.73	133.87	133.37	133.31	134.07	133.45	133.45	133.35	133.39	133.31	133.27	
14	133.10	133.77	133.96	133.35	133.27	133.74	133.42	133.45	133.35	133.39	133.28	133.25	
15	133.10	133.96	133.83	133.35	133.25	133.55	133.41	133.45	133.35	133.39	133.27	133.25	
16	133.10	133.97	133.63	133.35	133.25	133.70	133.52	133.44	133.35	133.39	133.27	133.25	
17	133.10	133.71	133.55	133.33	133.24	133.71	133.53	133.44	133.35	133.39	133.27	133.25	
18	133.09	133.56	133.53	133.33	133.23	133.67	133.54	133.43	133.35	133.39	133.27	133.25	
19	133.09	133.55	133.51	133.33	133.23	133.54	133.53	133.43	133.36	133.39	133.29	133.25	
20	133.08	133.82	133.40	133.32	133.22	133.55	133.48	133.43	133.36	133.39	133.30	133.25	
21	133.07	133.65	133.35	133.32	133.25	133.55	133.52	133.43	133.36	133.39	133.30	133.25	
22	133.07	133.55	133.65	133.27	133.26	133.60	133.45	133.43	133.39	133.39	133.30	133.24	
23	133.07	133.55	133.63	133.25	133.24	133.56	133.45	133.43	133.39	133.39	133.30	133.24	
24	133.15	133.56	133.71	133.66	133.22	133.59	133.43	133.45	133.39	133.39	133.30	133.24	
25	133.11	133.55	133.60	133.62	133.22	133.56	133.50	133.52	133.39	133.39	133.30	133.24	
26	133.11	133.40	133.60	133.60	133.25	133.54	133.56	133.57	133.39	133.39	133.30	133.24	
27	133.11	133.39	133.55	133.54	133.20	133.71	133.55	133.46	133.39	133.39	133.30	133.24	
28	133.25	133.39	133.53	133.52	133.20	133.65	133.51	133.44	133.39	133.39	133.30	133.24	
29	133.07	133.39	133.47	133.46	133.20	133.59	133.64	133.43	133.39	133.39		133.24	
30	133.07	133.39	133.45	133.41	133.20	133.56	133.57	133.43	133.39	133.39		133.24	
31		133.39		133.42	133.19		133.54		133.39	133.39		133.24	
Mean	133.10	133.58	133.52	133.42	133.31	133.56	133.51	133.47	133.38	133.39	133.32	133.27	
Max	133.25	134.18	134.01	133.66	133.57	134.07	133.64	133.57	133.43	133.39	133.35	133.32	134.18
Min	133.07	133.06	133.20	133.25	133.19	133.18	133.41	133.43	133.35	133.39	133.27	133.24	133.06

Annual Max Momentary Gage Height	134.85	m. (MSL.) ,	at 18.00 Hours , on May 4, 2008		
Zero Gage at Bottom Elevation	133.05	m. (MSL.) ,	River Bed	132.84	m. (MSL.)
Left Bank Elevation	137.62	m. (MSL.) ,			
Right Bank Elevation	137.63	m. (MSL.) ,	Drainage Are	23	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	2.36	3.34	2.50	0.16	5.80	5.32	3.13	2.36	1.80	1.10		
2	0.00	0.14	2.50	3.34	1.94	0.38	5.56	5.32	3.13	2.36	1.80	1.10		
3	0.00	7.90	2.36	2.50	5.80	0.47	5.56	5.32	3.13	2.36	1.80	1.10		
4	0.00	31.28	2.36	1.80	3.76	1.66	5.80	4.18	3.13	2.36	1.80	1.10		
5	0.00	5.56	2.36	3.55	3.55	0.65	5.32	3.97	2.92	2.36	1.80	1.10		
6	0.00	3.34	2.36	3.34	6.28	1.24	4.84	3.76	2.08	2.36	1.80	1.10		
7	0.00	5.56	1.80	3.55	3.97	4.84	4.84	3.55	1.80	2.36	1.80	1.10		
8	0.00	1.66	0.83	5.08	3.55	6.52	4.84	3.55	1.80	2.36	1.80	1.38		
9	0.00	5.80	0.47	3.76	2.50	11.70	4.39	3.55	1.80	2.36	1.80	1.24		
10	0.00	7.60	0.20	3.13	1.66	10.00	3.55	4.84	1.80	2.36	1.80	1.10		
11	0.00	11.36	1.10	2.71	1.66	10.00	3.76	5.32	1.80	2.36	1.80	1.10		
12	0.00	23.30	22.30	2.36	1.66	11.02	3.55	4.60	1.80	2.36	1.80	1.10		
13	0.00	11.02	16.20	2.08	1.24	25.30	3.55	3.55	1.80	2.36	1.24	0.83		
14	0.00	12.38	20.04	1.80	0.83	11.36	2.92	3.55	1.80	2.36	0.92	0.65		
15	0.00	20.04	14.60	1.80	0.65	5.80	2.71	3.55	1.80	2.36	0.83	0.65		
16	0.00	20.48	7.90	1.80	0.65	10.00	5.08	3.34	1.80	2.36	0.83	0.65		
17	0.00	10.34	5.80	1.52	0.56	10.34	5.32	3.34	1.80	2.36	0.83	0.65		
18	0.00	6.04	5.32	1.52	0.47	9.10	5.56	3.13	1.80	2.36	0.83	0.65		
19	0.00	5.80	4.84	1.52	0.47	5.56	5.32	3.13	1.94	2.36	1.01	0.65		
20	0.00	14.20	2.50	1.38	0.38	5.80	4.18	3.13	1.94	2.36	1.10	0.65		
21	0.00	8.50	1.80	1.38	0.65	5.80	5.08	3.13	1.94	2.36	1.10	0.65		
22	0.00	5.80	8.50	0.83	0.74	7.00	3.55	3.13	2.36	2.36	1.10	0.56		
23	0.00	5.80	7.90	0.65	0.56	6.04	3.55	3.13	2.36	2.36	1.10	0.56		
24	0.10	6.04	10.34	8.80	0.38	6.76	3.13	3.55	2.36	2.36	1.10	0.56		
25	0.02	5.80	7.00	7.60	0.38	6.04	4.60	5.08	2.36	2.36	1.10	0.56		
26	0.02	2.50	7.00	7.00	0.65	5.56	6.04	6.28	2.36	2.36	1.10	0.56		
27	0.02	2.36	5.80	5.56	0.20	10.34	5.80	3.76	2.36	2.36	1.10	0.56		
28	0.65	2.36	5.32	5.08	0.20	8.50	4.84	3.34	2.36	2.36	1.10	0.56		
29	0.00	2.36	3.97	3.76	0.20	6.76	8.20	3.13	2.36	2.36		0.56		
30	0.00	2.36	3.55	2.71	0.20	6.04	6.28	3.13	2.36	2.36		0.56		
31		2.36		2.92	0.18		5.56		2.36	2.36		0.56		
Total	0.81	250.04	179.38	98.17	48.42	210.74	149.08	117.66	68.54	73.16	37.99	25.25	1259.24	CMSDAY
Mean	0.03	8.07	5.98	3.17	1.56	7.02	4.81	3.92	2.21	2.36	1.36	0.81	3.45	CMS
Max	0.65	31.28	22.30	8.80	6.28	25.30	8.20	6.28	3.13	2.36	1.80	1.38	31.28	CMS
Min	0.00	0.00	0.20	0.65	0.18	0.16	2.71	3.13	1.80	2.36	0.83	0.56	0.00	CMS
Runoff	0.07	21.60	15.50	8.48	4.18	18.21	12.88	10.17	5.92	6.32	3.28	2.18	108.80	MCM

Momentary Peak 79.10 CMS. at 134.85 m. (MSL.) at 18.00 Hours , on May 4, 2008

Runoff Yield 149.48 Liters/Second/Square KM. Momentary Peak Yield 3427.21 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong La - Un at Ban La - Un Tai, Ranong (X.205)

Lat 10 - 06 - 33 N Long 98 - 45 - 46 E

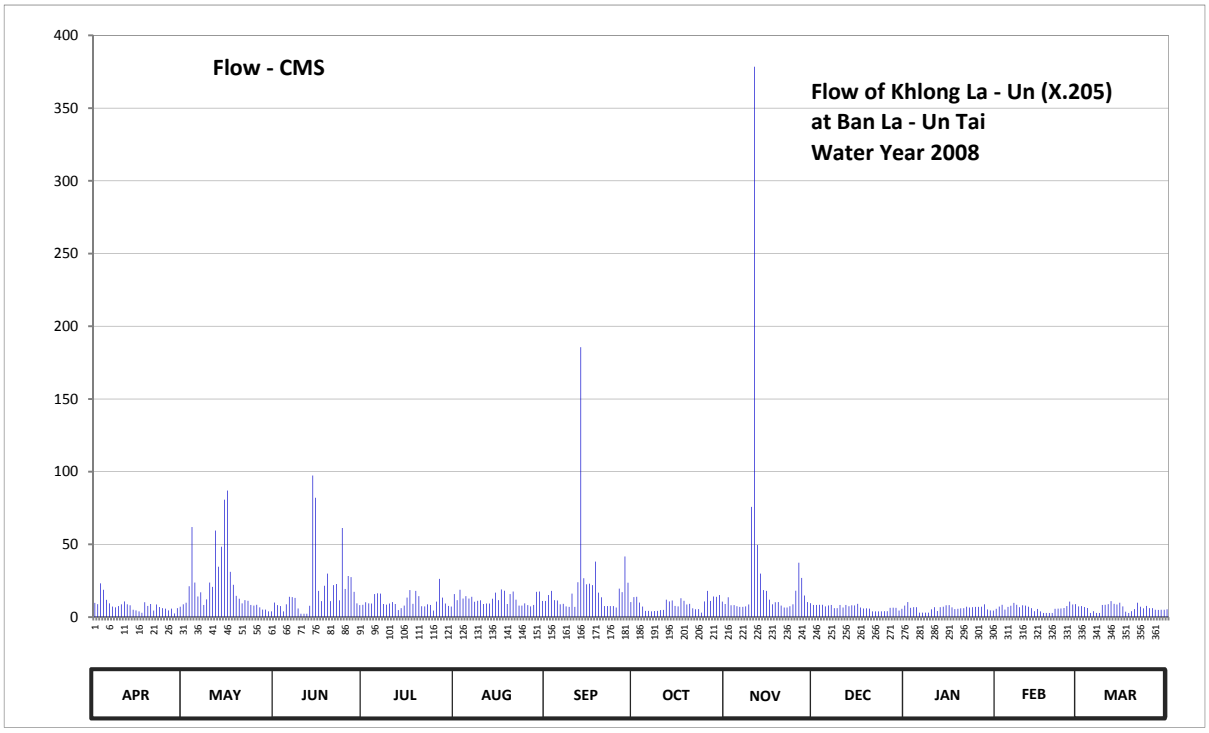
Location : on left bank at Ban La - Un.

	Ban La - Un Tai	**Amphoe** La - Un	**Changwat** Ranong
Drainge Area	229 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**	+6.423 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 mean of 5 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
Rated by Current Meter	2004 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 28 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.05	0.98	1.07	0.95	1.39	1.14	1.29	1.00	0.94	0.89	0.67	0.84	
2	0.99	1.06	0.92	1.08	1.18	1.36	1.30	1.28	0.93	1.09	0.82	0.86	
3	1.76	1.66	0.86	1.03	1.54	1.50	1.07	0.91	0.95	0.74	0.95	0.79	
4	1.54	2.83	0.50	1.02	1.24	1.18	0.83	0.92	0.95	0.78	0.62	0.73	
5	1.19	1.79	0.98	1.39	1.32	1.16	0.53	0.85	0.84	0.78	0.80	0.38	
6	1.03	1.31	1.30	1.42	1.24	0.98	0.53	0.80	0.90	0.41	0.88	0.51	
7	0.83	1.45	1.29	1.41	1.30	1.01	0.50	0.80	0.94	0.41	1.05	0.38	
8	0.77	0.94	1.26	1.00	1.10	0.84	0.52	0.84	0.71	0.41	0.95	0.38	
9	0.86	1.21	0.69	0.96	1.15	0.80	0.53	0.97	0.72	0.41	0.78	0.93	
10	0.98	1.79	0.31	1.02	1.17	1.41	0.58	3.04	0.94	0.64	0.91	0.95	
11	1.12	1.64	0.31	1.09	1.00	0.80	0.59	5.57	0.76	0.78	0.89	0.99	
12	0.98	2.79	0.31	1.00	1.02	1.80	1.20	2.59	0.94	0.52	0.81	1.13	
13	0.91	2.19	0.88	0.58	1.02	4.26	1.12	2.03	0.85	0.78	0.71	1.01	
14	0.60	2.56	3.33	0.72	1.23	1.91	1.16	1.53	0.91	0.81	0.51	0.97	
15	0.56	3.11	3.13	0.89	1.44	1.73	0.87	1.50	0.90	0.91	0.66	1.06	
16	0.50	3.20	1.50	1.27	1.18	1.75	0.84	1.20	1.01	0.92	0.50	0.84	
17	0.39	2.07	1.13	1.53	1.55	1.70	1.25	0.98	0.76	0.77	0.38	0.47	
18	1.08	1.71	1.68	1.01	1.51	2.29	1.15	1.08	0.69	0.65	0.38	0.38	
19	0.87	1.33	2.03	1.50	1.00	1.44	0.97	1.09	0.70	0.67	0.38	0.51	
20	1.00	1.23	1.13	1.32	1.39	1.28	1.01	0.89	0.68	0.70	0.38	0.65	
21	0.55	1.03	1.70	0.85	1.48	0.86	0.70	0.76	0.50	0.72	0.67	1.06	
22	0.97	1.18	1.74	0.84	1.20	0.86	0.64	0.76	0.50	0.81	0.68	0.81	
23	0.79	1.15	1.17	0.98	0.89	0.86	0.65	0.85	0.49	0.76	0.69	0.70	
24	0.71	0.93	2.82	0.93	0.89	0.86	0.41	0.98	0.50	0.78	0.73	0.87	
25	0.68	0.89	1.57	0.55	1.03	0.76	1.12	1.51	0.51	0.80	0.86	0.72	
26	0.56	0.95	1.97	1.11	0.92	1.58	1.50	2.27	0.51	0.80	1.11	0.72	
27	0.68	0.77	1.94	1.89	0.84	1.46	1.14	1.92	0.74	0.81	0.97	0.60	
28	0.33	0.62	1.47	1.27	0.93	2.39	1.31	1.34	0.75	0.98	0.99	0.59	
29	0.71	0.62	1.03	1.02	1.47	1.78	1.30	1.09	0.74	0.63		0.60	
30	0.81	0.49	0.92	0.87	1.48	1.09	1.36	1.04	0.55	0.56		0.60	
31		0.49		0.83	1.14		1.11		0.67	0.55		0.64	
Mean	0.86	1.48	1.36	1.08	1.20	1.43	0.94	1.41	0.76	0.72	0.74	0.73	
Max	1.76	3.20	3.33	1.89	1.55	4.26	1.50	5.57	1.01	1.09	1.11	1.13	5.57
Min	0.33	0.49	0.31	0.55	0.84	0.76	0.41	0.76	0.49	0.41	0.38	0.38	0.31

Annual Max Momentary Gage Height	6.50	m. (MSL.) ,	at 06.00 Hours , on Nov 11 , 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-0.37	m. (MSL.)
Left Bank Elevation	6.91	m. (MSL.) ,			
Right Bank Elevation	7.21	m. (MSL.) ,	Drainage Are	229	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.75	8.80	10.05	8.50	15.80	11.10	13.80	9.00	8.40	7.90	5.70	7.40		
2	8.90	9.90	8.20	10.20	11.70	15.20	14.00	13.60	8.30	10.35	7.20	7.60		
3	23.20	21.20	7.60	9.45	18.80	18.00	10.05	8.10	8.50	6.40	8.50	6.90		
4	18.80	61.95	4.00	9.30	12.80	11.70	7.30	8.20	8.50	6.80	5.20	6.30		
5	11.85	23.80	8.80	15.80	14.40	11.40	4.30	7.50	7.40	6.80	7.00	2.85		
6	9.45	14.20	14.00	16.40	12.80	8.80	4.30	7.00	8.00	3.10	7.80	4.10		
7	7.30	17.00	13.80	16.20	14.00	9.15	4.00	7.00	8.40	3.10	9.75	2.85		
8	6.70	8.40	13.20	9.00	10.50	7.40	4.20	7.40	6.10	3.10	8.50	2.85		
9	7.60	12.20	5.90	8.60	11.25	7.00	4.30	8.70	6.20	3.10	6.80	8.30		
10	8.80	23.80	2.33	9.30	11.55	16.20	4.80	75.80	8.40	5.40	8.10	8.50		
11	10.80	20.80	2.33	10.35	9.00	7.00	4.90	378.45	6.60	6.80	7.90	8.90		
12	8.80	59.50	2.33	9.00	9.30	24.00	12.00	49.60	8.40	4.20	7.10	10.95		
13	8.10	34.70	7.80	4.80	9.30	185.60	10.80	29.90	7.50	6.80	6.10	9.15		
14	5.00	48.40	97.40	6.20	12.60	26.75	11.40	18.60	8.10	7.10	4.10	8.70		
15	4.60	80.70	82.10	7.90	16.80	22.60	7.70	18.00	8.00	8.10	5.60	9.90		
16	4.00	87.00	18.00	13.40	11.70	23.00	7.40	12.00	9.15	8.20	4.00	7.40		
17	2.93	31.10	10.95	18.60	19.00	22.00	13.00	8.80	6.60	6.70	2.85	3.70		
18	10.20	22.20	21.60	9.15	18.20	38.15	11.25	10.20	5.90	5.50	2.85	2.85		
19	7.70	14.60	29.90	18.00	9.00	16.80	8.70	10.35	6.00	5.70	2.85	4.10		
20	9.00	12.60	10.95	14.40	15.80	13.60	9.15	7.90	5.80	6.00	2.85	5.50		
21	4.50	9.45	22.00	7.50	17.60	7.60	6.00	6.60	4.00	6.20	5.70	9.90		
22	8.70	11.70	22.80	7.40	12.00	7.60	5.40	6.60	4.00	7.10	5.80	7.10		
23	6.90	11.25	11.55	8.80	7.90	7.60	5.50	7.50	3.90	6.60	5.90	6.00		
24	6.10	8.30	61.30	8.30	7.90	7.60	3.10	8.80	4.00	6.80	6.30	7.70		
25	5.80	7.90	19.40	4.50	9.45	6.60	10.80	18.20	4.10	7.00	7.60	6.20		
26	4.60	8.50	28.25	10.65	8.20	19.60	18.00	37.45	4.10	7.00	10.65	6.20		
27	5.80	6.70	27.50	26.25	7.40	17.20	11.10	27.00	6.40	7.10	8.70	5.00		
28	2.48	5.20	17.40	13.40	8.30	41.65	14.20	14.80	6.50	8.80	8.90	4.90		
29	6.10	5.20	9.45	9.30	17.40	23.60	14.00	10.35	6.40	5.30		5.00		
30	7.10	3.90	8.20	7.70	17.60	10.35	15.20	9.60	4.50	4.60		5.00		
31		3.90		7.30	11.10		10.65		5.70	4.50		5.40		
Total	241.56	694.85	599.09	335.65	389.15	644.85	281.30	843.00	203.85	192.15	180.30	197.20	4802.95	CMSDAY
Mean	8.05	22.41	19.97	10.83	12.55	21.50	9.07	28.10	6.58	6.20	6.44	6.36	13.16	CMS
Max	23.20	87.00	97.40	26.25	19.00	185.60	18.00	378.45	9.15	10.35	10.65	10.95	378.45	CMS
Min	2.48	3.90	2.33	4.50	7.40	6.60	3.10	6.60	3.90	3.10	2.85	2.85	2.33	CMS
Runoff	20.87	60.04	51.76	29.00	33.62	55.72	24.30	72.84	17.61	16.60	15.58	17.04	414.97	MCM

Momentary Peak 571.00 CMS. at 6.50 m. (MSL.) at 06.00 Hours , on Nov 11, 2008

Runoff Yield 57.46 Liters/Second/Square KM. Momentary Peak Yield 2493.45 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Bang Rin at Ban Bang Rin, Ranong (X.206)

Lat 09 - 54 - 54 N Long 98 - 37 - 59 E

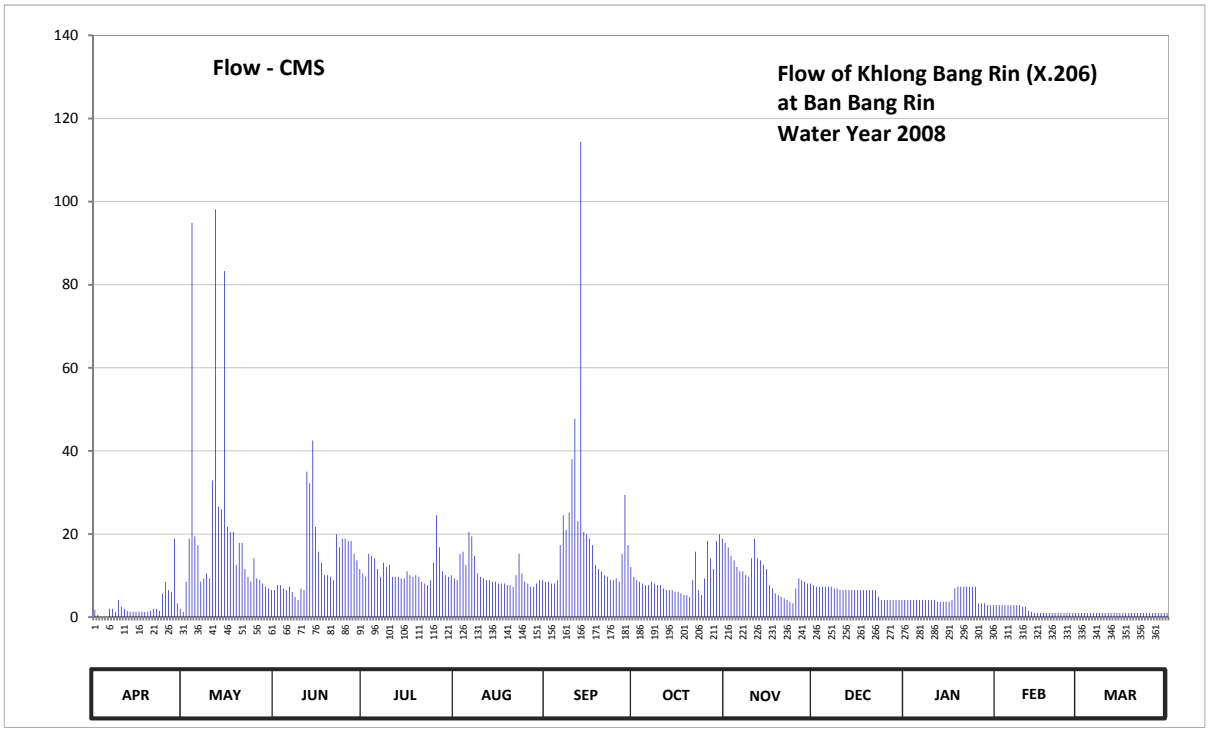
Location : on right bank at the bridge.

	Ban Bang Rin	**Amphoe** Mueang	**Changwat** Ranong
Drainge Area	95 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** +7.112 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 mean of 5 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
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 28 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.57	1.55	1.70	1.80	1.77	1.75	1.78	1.94	1.73	1.64	1.61	1.54	
2	1.52	1.75	1.73	1.78	1.76	1.75	1.76	1.92	1.72	1.64	1.61	1.54	
3	1.47	1.96	1.73	1.89	1.89	1.74	1.75	1.88	1.72	1.64	1.61	1.54	
4	1.47	2.69	1.71	1.88	1.90	1.74	1.74	1.86	1.72	1.64	1.61	1.54	
5	1.46	1.97	1.70	1.87	1.84	1.76	1.73	1.83	1.72	1.64	1.61	1.54	
6	1.58	1.93	1.72	1.82	1.99	1.93	1.73	1.81	1.72	1.64	1.61	1.54	
7	1.58	1.75	1.69	1.78	1.97	2.05	1.75	1.81	1.72	1.64	1.61	1.54	
8	1.55	1.77	1.66	1.85	1.88	2.00	1.74	1.79	1.71	1.64	1.61	1.54	
9	1.64	1.80	1.64	1.83	1.80	2.06	1.73	1.78	1.71	1.64	1.61	1.54	
10	1.60	1.77	1.71	1.84	1.78	2.24	1.73	1.87	1.70	1.64	1.60	1.54	
11	1.58	2.17	1.70	1.78	1.77	2.37	1.71	1.96	1.70	1.64	1.60	1.54	
12	1.56	2.71	2.20	1.78	1.76	2.03	1.70	1.87	1.70	1.63	1.56	1.54	
13	1.55	2.08	2.16	1.78	1.76	2.82	1.70	1.86	1.70	1.63	1.55	1.54	
14	1.55	2.07	2.30	1.77	1.75	1.99	1.70	1.84	1.70	1.63	1.54	1.54	
15	1.55	2.62	2.01	1.77	1.75	1.98	1.69	1.82	1.70	1.63	1.54	1.54	
16	1.55	2.01	1.90	1.81	1.74	1.96	1.69	1.73	1.70	1.63	1.54	1.54	
17	1.55	1.99	1.85	1.79	1.74	1.93	1.68	1.71	1.70	1.64	1.54	1.54	
18	1.55	1.99	1.79	1.78	1.74	1.84	1.67	1.68	1.70	1.71	1.54	1.54	
19	1.55	1.84	1.79	1.79	1.73	1.82	1.67	1.67	1.70	1.72	1.54	1.54	
20	1.56	1.94	1.78	1.78	1.73	1.81	1.66	1.66	1.70	1.72	1.54	1.54	
21	1.58	1.94	1.76	1.75	1.72	1.79	1.76	1.65	1.70	1.72	1.54	1.54	
22	1.58	1.82	1.98	1.74	1.79	1.78	1.90	1.64	1.70	1.72	1.54	1.54	
23	1.56	1.78	1.92	1.73	1.89	1.76	1.70	1.63	1.66	1.72	1.54	1.54	
24	1.68	1.75	1.96	1.76	1.80	1.76	1.67	1.62	1.64	1.72	1.54	1.54	
25	1.75	1.87	1.96	1.85	1.75	1.77	1.77	1.71	1.64	1.72	1.54	1.54	
26	1.70	1.77	1.95	2.05	1.74	1.75	1.95	1.77	1.64	1.62	1.54	1.54	
27	1.69	1.76	1.95	1.92	1.72	1.89	1.87	1.76	1.64	1.62	1.54	1.54	
28	1.96	1.74	1.89	1.81	1.72	2.12	1.82	1.75	1.64	1.62	1.54	1.54	
29	1.62	1.72	1.86	1.79	1.74	1.93	1.95	1.74	1.64	1.61		1.54	
30	1.58	1.71	1.82	1.78	1.76	1.83	1.98	1.74	1.64	1.61		1.54	
31		1.70		1.79	1.76		1.96		1.64	1.61		1.54	
Mean	1.59	1.93	1.85	1.81	1.79	1.93	1.76	1.78	1.69	1.65	1.57	1.54	
Max	1.96	2.71	2.30	2.05	1.99	2.82	1.98	1.96	1.73	1.72	1.61	1.54	2.82
Min	1.46	1.55	1.64	1.73	1.72	1.74	1.66	1.62	1.64	1.61	1.54	1.54	1.46

Annual Max Momentary Gage Height	4.00	m. (MSL.) ,	at 18.00 Hours , on May 4, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-0.71	m. (MSL.)
Left Bank Elevation	8.60	m. (MSL.) ,			
Right Bank Elevation	8.64	m. (MSL.) ,	Drainage Are	95	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.75	1.25	6.50	10.50	9.30	8.50	9.70	17.85	7.70	4.10	2.90	1.00		
2	0.50	8.50	7.70	9.70	8.90	8.50	8.90	16.80	7.30	4.10	2.90	1.00		
3	0.00	18.90	7.70	15.23	15.23	8.10	8.50	14.70	7.30	4.10	2.90	1.00		
4	0.00	94.85	6.90	14.70	15.75	8.10	8.10	13.65	7.30	4.10	2.90	1.00		
5	0.00	19.43	6.50	14.18	12.60	8.90	7.70	12.08	7.30	4.10	2.90	1.00		
6	2.00	17.33	7.30	11.55	20.48	17.33	7.70	11.03	7.30	4.10	2.90	1.00		
7	2.00	8.50	6.10	9.70	19.43	24.50	8.50	11.03	7.30	4.10	2.90	1.00		
8	1.25	9.30	4.90	13.13	14.70	21.00	8.10	10.10	6.90	4.10	2.90	1.00		
9	4.10	10.50	4.10	12.08	10.50	25.20	7.70	9.70	6.90	4.10	2.90	1.00		
10	2.50	9.30	6.90	12.60	9.70	38.00	7.70	14.18	6.50	4.10	2.50	1.00		
11	2.00	32.90	6.50	9.70	9.30	47.75	6.90	18.90	6.50	4.10	2.50	1.00		
12	1.50	98.15	35.00	9.70	8.90	23.10	6.50	14.18	6.50	3.70	1.50	1.00		
13	1.25	26.60	32.20	9.70	8.90	114.40	6.50	13.65	6.50	3.70	1.25	1.00		
14	1.25	25.90	42.50	9.30	8.50	20.48	6.50	12.60	6.50	3.70	1.00	1.00		
15	1.25	83.30	21.70	9.30	8.50	19.95	6.10	11.55	6.50	3.70	1.00	1.00		
16	1.25	21.70	15.75	11.03	8.10	18.90	6.10	7.70	6.50	3.70	1.00	1.00		
17	1.25	20.48	13.13	10.10	8.10	17.33	5.70	6.90	6.50	4.10	1.00	1.00		
18	1.25	20.48	10.10	9.70	8.10	12.60	5.30	5.70	6.50	6.90	1.00	1.00		
19	1.25	12.60	10.10	10.10	7.70	11.55	5.30	5.30	6.50	7.30	1.00	1.00		
20	1.50	17.85	9.70	9.70	7.70	11.03	4.90	4.90	6.50	7.30	1.00	1.00		
21	2.00	17.85	8.90	8.50	7.30	10.10	8.90	4.50	6.50	7.30	1.00	1.00		
22	2.00	11.55	19.95	8.10	10.10	9.70	15.75	4.10	6.50	7.30	1.00	1.00		
23	1.50	9.70	16.80	7.70	15.23	8.90	6.50	3.70	4.90	7.30	1.00	1.00		
24	5.70	8.50	18.90	8.90	10.50	8.90	5.30	3.30	4.10	7.30	1.00	1.00		
25	8.50	14.18	18.90	13.13	8.50	9.30	9.30	6.90	4.10	7.30	1.00	1.00		
26	6.50	9.30	18.38	24.50	8.10	8.50	18.38	9.30	4.10	3.30	1.00	1.00		
27	6.10	8.90	18.38	16.80	7.30	15.23	14.18	8.90	4.10	3.30	1.00	1.00		
28	18.90	8.10	15.23	11.03	7.30	29.40	11.55	8.50	4.10	3.30	1.00	1.00		
29	3.30	7.30	13.65	10.10	8.10	17.33	18.38	8.10	4.10	2.90		1.00		
30	2.00	6.90	11.55	9.70	8.90	12.08	19.95	8.10	4.10	2.90		1.00		
31		6.50		10.10	8.90		18.90		4.10	2.90		1.00		
Total	84.35	666.60	421.92	350.26	320.62	594.66	289.49	297.90	187.50	144.30	48.85	31.00	3437.45	CMSDAY
Mean	2.81	21.50	14.06	11.30	10.34	19.82	9.34	9.93	6.05	4.65	1.74	1.00	9.42	CMS
Max	18.90	98.15	42.50	24.50	20.48	114.40	19.95	18.90	7.70	7.30	2.90	1.00	114.40	CMS
Min	0.00	1.25	4.10	7.70	7.30	8.10	4.90	3.30	4.10	2.90	1.00	1.00	0.00	CMS
Runoff	7.29	57.59	36.45	30.26	27.70	51.38	25.01	25.74	16.20	12.47	4.22	2.68	297.00	MCM

Momentary Peak 220.00 CMS. at 4.00 m. (MSL.) at 18.00 Hours , on May 4, 2008

Runoff Yield 99.00 Liters/Second/Square KM. Momentary Peak Yield 2312.62 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Had Sompan at Mueang, Ranong (X.209)

Lat 09 - 57 - 34 N Long 98 - 38 - 52 E

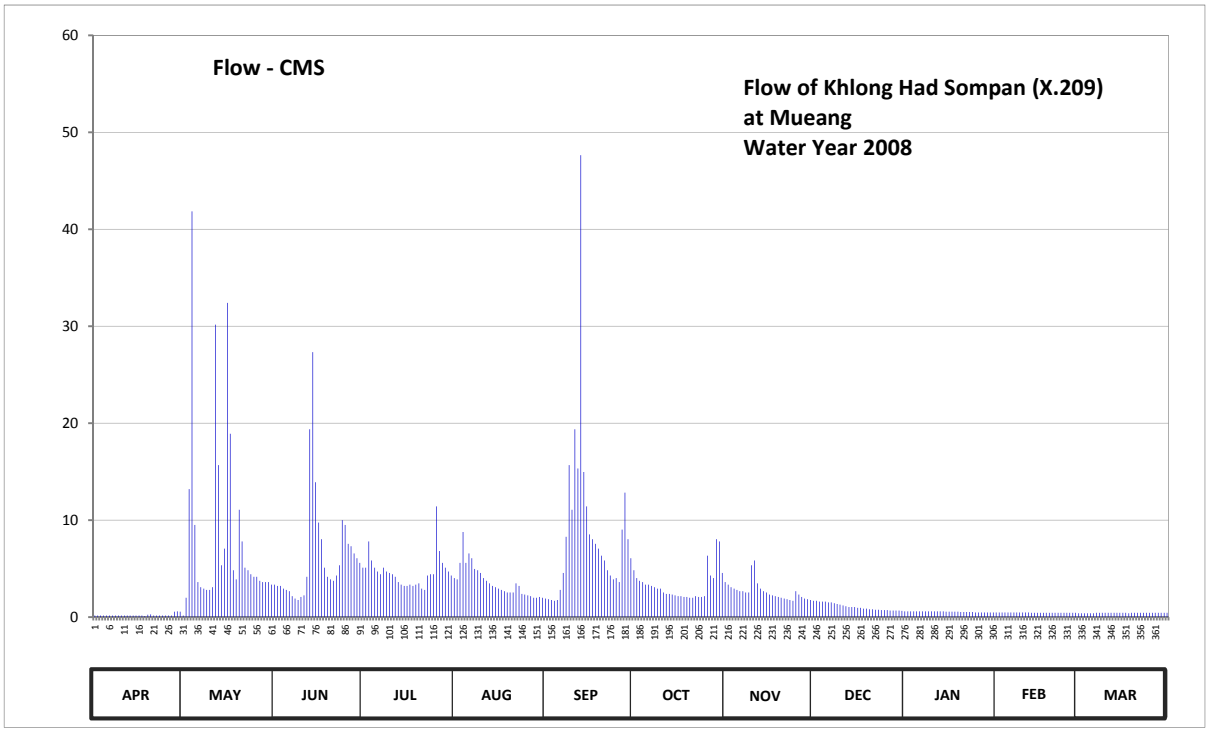
Location : on right bank at the bridge.

	Ban -		**Amphoe** Mueang	**Changwat** Ranong	
Drainge Area	19 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**	+13.823 m. (MSL.)
Gage Reading Frequency	Recording.				
Basis of Mean Daily Gage Height	Arithmetic mean of 24 readings				
Period of Available Gage Records	2005 to date				
Rating Operation					
Period of Rating	2005 to date				
Rated by Float	-				
Rated by Current Meter	2005 to date				
Stability of Channel Regimes	Fairly stable by some scouring.				
Overbank Flow Conditions	No overbank flow.				
General Description	Records fair. Stage-discharge relation defined by 27 discharge measurements made in 2008.				

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	7.84	7.84	8.27	8.40	8.32	8.14	8.38	8.29	8.11	7.95	7.92	7.90	
2	7.84	8.15	8.26	8.40	8.31	8.13	8.32	8.27	8.11	7.95	7.92	7.90	
3	7.84	8.69	8.26	8.51	8.42	8.12	8.30	8.25	8.10	7.95	7.92	7.90	
4	7.84	9.26	8.24	8.43	8.55	8.11	8.29	8.24	8.10	7.95	7.92	7.90	
5	7.84	8.58	8.23	8.40	8.42	8.12	8.27	8.23	8.10	7.95	7.92	7.90	
6	7.84	8.29	8.22	8.37	8.46	8.23	8.27	8.22	8.09	7.95	7.92	7.90	
7	7.84	8.25	8.17	8.35	8.44	8.36	8.26	8.22	8.09	7.95	7.92	7.91	
8	7.84	8.24	8.14	8.40	8.39	8.53	8.25	8.21	8.08	7.95	7.92	7.91	
9	7.84	8.23	8.12	8.37	8.38	8.76	8.24	8.21	8.07	7.95	7.92	7.91	
10	7.84	8.23	8.16	8.36	8.36	8.63	8.24	8.41	8.06	7.95	7.92	7.91	
11	7.84	8.25	8.18	8.35	8.32	8.85	8.21	8.43	8.05	7.95	7.92	7.91	
12	7.84	9.07	8.33	8.33	8.30	8.75	8.20	8.28	8.04	7.95	7.92	7.91	
13	7.84	8.76	8.85	8.29	8.28	9.34	8.20	8.24	8.03	7.95	7.91	7.91	
14	7.84	8.41	9.02	8.27	8.26	8.74	8.19	8.22	8.03	7.95	7.91	7.91	
15	7.84	8.48	8.71	8.26	8.25	8.64	8.18	8.21	8.03	7.94	7.91	7.91	
16	7.84	9.11	8.59	8.26	8.24	8.54	8.17	8.19	8.02	7.94	7.91	7.91	
17	7.84	8.84	8.52	8.27	8.23	8.52	8.17	8.18	8.02	7.94	7.91	7.91	
18	7.83	8.38	8.40	8.26	8.22	8.50	8.16	8.17	8.01	7.94	7.91	7.90	
19	7.86	8.31	8.33	8.27	8.21	8.48	8.16	8.16	8.01	7.94	7.91	7.91	
20	7.87	8.63	8.31	8.28	8.21	8.45	8.15	8.15	8.00	7.93	7.91	7.91	
21	7.84	8.51	8.30	8.24	8.21	8.43	8.15	8.14	8.00	7.93	7.91	7.91	
22	7.84	8.40	8.34	8.23	8.28	8.38	8.17	8.13	7.99	7.93	7.91	7.91	
23	7.84	8.38	8.41	8.34	8.26	8.34	8.16	8.12	7.99	7.93	7.91	7.91	
24	7.84	8.35	8.60	8.35	8.20	8.31	8.16	8.11	7.98	7.93	7.91	7.91	
25	7.84	8.33	8.58	8.35	8.19	8.32	8.17	8.22	7.98	7.92	7.91	7.91	
26	7.84	8.33	8.50	8.64	8.18	8.29	8.45	8.19	7.98	7.92	7.91	7.91	
27	7.84	8.30	8.49	8.47	8.17	8.56	8.34	8.16	7.97	7.92	7.91	7.91	
28	7.94	8.29	8.46	8.42	8.15	8.68	8.32	8.14	7.97	7.92	7.91	7.91	
29	7.95	8.29	8.44	8.40	8.15	8.52	8.52	8.13	7.97	7.92		7.91	
30	7.94	8.29	8.42	8.37	8.16	8.44	8.51	8.12	7.97	7.92		7.91	
31		8.27		8.34	8.15		8.36		7.96	7.92		7.91	
Mean	7.85	8.44	8.40	8.35	8.28	8.47	8.26	8.21	8.03	7.94	7.91	7.91	
Max	7.95	9.26	9.02	8.64	8.55	9.34	8.52	8.43	8.11	7.95	7.92	7.91	9.34
Min	7.83	7.84	8.12	8.23	8.15	8.11	8.15	8.11	7.96	7.92	7.91	7.90	7.83

Annual Max Momentary Gage Height	10.08	m. (MSL.) ,	at 06.00 Hours , on Sep 13, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	7.18	m. (MSL.)
Left Bank Elevation	14.38	m. (MSL.) ,			
Right Bank Elevation	14.20	m. (MSL.) ,	Drainage Are	19	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.16	0.16	3.35	5.10	4.02	1.92	4.83	3.62	1.68	0.60	0.48	0.40		
2	0.16	2.00	3.21	5.10	3.89	1.84	4.02	3.35	1.68	0.60	0.48	0.40		
3	0.16	13.20	3.21	7.80	5.59	1.76	3.75	3.08	1.60	0.60	0.48	0.40		
4	0.16	41.85	2.94	5.84	8.78	1.68	3.62	2.94	1.60	0.60	0.48	0.40		
5	0.16	9.51	2.81	5.10	5.59	1.76	3.35	2.81	1.60	0.60	0.48	0.40		
6	0.16	3.62	2.67	4.70	6.57	2.81	3.35	2.67	1.52	0.60	0.48	0.40		
7	0.16	3.08	2.16	4.43	6.08	4.56	3.21	2.67	1.52	0.60	0.48	0.44		
8	0.16	2.94	1.92	5.10	4.97	8.29	3.08	2.54	1.44	0.60	0.48	0.44		
9	0.16	2.81	1.76	4.70	4.83	15.68	2.94	2.54	1.36	0.60	0.48	0.44		
10	0.16	2.81	2.08	4.56	4.56	11.07	2.94	5.35	1.28	0.60	0.48	0.44		
11	0.16	3.08	2.24	4.43	4.02	19.38	2.54	5.84	1.20	0.60	0.48	0.44		
12	0.16	30.16	4.16	4.16	3.75	15.33	2.40	3.48	1.12	0.60	0.48	0.44		
13	0.16	15.68	19.38	3.62	3.48	47.65	2.40	2.94	1.04	0.60	0.44	0.44		
14	0.16	5.35	27.33	3.35	3.21	14.97	2.32	2.67	1.04	0.60	0.44	0.44		
15	0.16	7.06	13.91	3.21	3.08	11.42	2.24	2.54	1.04	0.56	0.44	0.44		
16	0.16	32.42	9.76	3.21	2.94	8.53	2.16	2.32	0.96	0.56	0.44	0.44		
17	0.16	18.92	8.04	3.35	2.81	8.04	2.16	2.24	0.96	0.56	0.44	0.44		
18	0.12	4.83	5.10	3.21	2.67	7.55	2.08	2.16	0.88	0.56	0.44	0.40		
19	0.24	3.89	4.16	3.35	2.54	7.06	2.08	2.08	0.88	0.56	0.44	0.44		
20	0.28	11.07	3.89	3.48	2.54	6.33	2.00	2.00	0.80	0.52	0.44	0.44		
21	0.16	7.80	3.75	2.94	2.54	5.84	2.00	1.92	0.80	0.52	0.44	0.44		
22	0.16	5.10	4.29	2.81	3.48	4.83	2.16	1.84	0.76	0.52	0.44	0.44		
23	0.16	4.83	5.35	4.29	3.21	4.29	2.08	1.76	0.76	0.52	0.44	0.44		
24	0.16	4.43	10.00	4.43	2.40	3.89	2.08	1.68	0.72	0.52	0.44	0.44		
25	0.16	4.16	9.51	4.43	2.32	4.02	2.16	2.67	0.72	0.48	0.44	0.44		
26	0.16	4.16	7.55	11.42	2.24	3.62	6.33	2.32	0.72	0.48	0.44	0.44		
27	0.16	3.75	7.31	6.82	2.16	9.02	4.29	2.08	0.68	0.48	0.44	0.44		
28	0.56	3.62	6.57	5.59	2.00	12.84	4.02	1.92	0.68	0.48	0.44	0.44		
29	0.60	3.62	6.08	5.10	2.00	8.04	8.04	1.84	0.68	0.48		0.44		
30	0.56	3.62	5.59	4.70	2.08	6.08	7.80	1.76	0.68	0.48		0.44		
31		3.35		4.29	2.00		4.56		0.64	0.48		0.44		
Total	6.20	262.88	190.08	144.62	112.35	260.10	102.99	79.63	33.04	17.16	12.80	13.36	1235.21	CMSDAY
Mean	0.21	8.48	6.34	4.67	3.62	8.67	3.32	2.65	1.07	0.55	0.46	0.43	3.38	CMS
Max	0.60	41.85	27.33	11.42	8.78	47.65	8.04	5.84	1.68	0.60	0.48	0.44	47.65	CMS
Min	0.12	0.16	1.76	2.81	2.00	1.68	2.00	1.68	0.64	0.48	0.44	0.40	0.12	CMS
Runoff	0.54	22.71	16.42	12.50	9.71	22.47	8.90	6.88	2.85	1.48	1.11	1.15	106.72	MCM

Momentary Peak 150.80 CMS. at 10.08 m. (MSL.) at 06.00 Hours , on Sep 13, 2008

Runoff Yield 89.53 Liters/Second/Square KM. Momentary Peak Yield 3989.42 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 5 readings
Period of Available Gage Records	2003 to date
Rating Operation	
Period of Rating	2003 to date
Rated by Float	-
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 30 discharge measurements made in 2008.

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

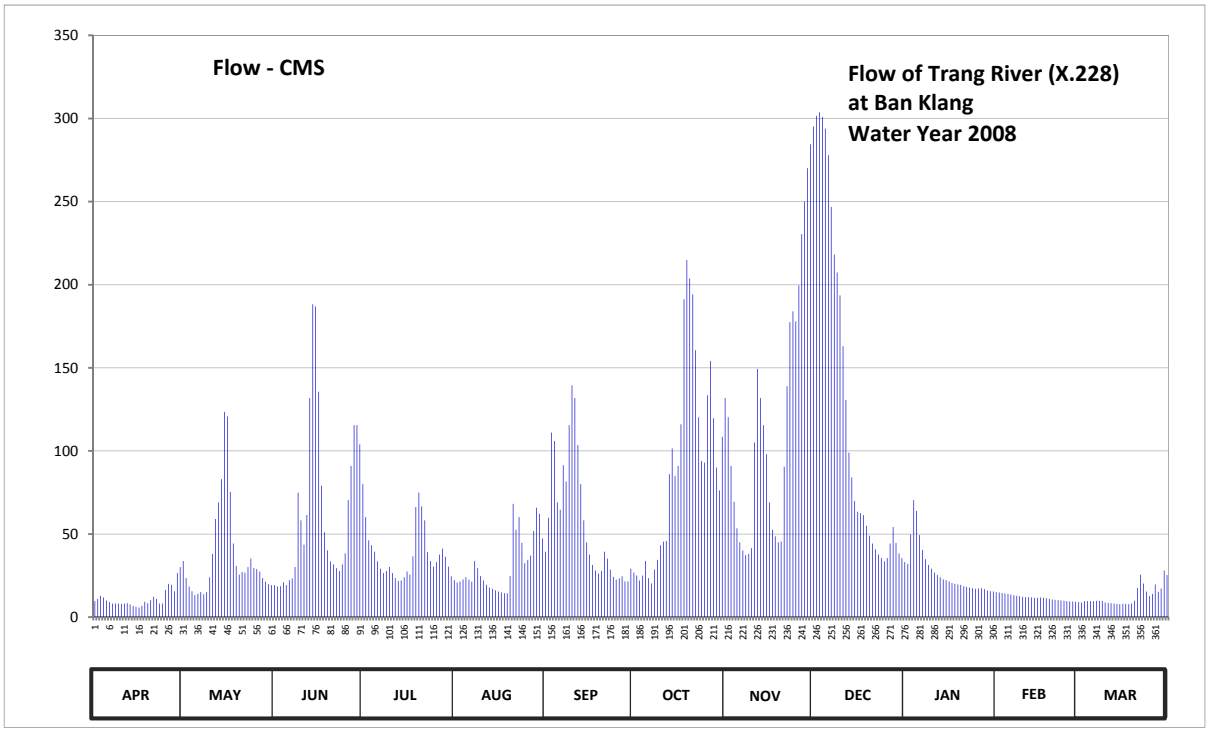
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	2.48	3.48	2.96	4.64	3.09	3.64	3.26	5.65	8.29	3.46	2.75	2.45	
2	2.55	3.14	2.92	4.18	3.03	4.17	3.20	5.44	8.38	3.43	2.74	2.44	
3	2.64	2.92	2.93	3.83	3.06	5.26	3.08	4.86	8.41	3.92	2.72	2.48	
4	2.59	2.78	3.04	3.75	3.11	5.16	3.20	4.41	8.37	4.43	2.71	2.48	
5	2.50	2.66	2.96	3.64	3.16	4.40	3.48	4.01	8.27	4.27	2.70	2.48	
6	2.45	2.70	3.09	3.47	3.10	4.29	3.14	3.80	8.03	3.91	2.68	2.48	
7	2.41	2.75	3.13	3.34	3.05	4.87	3.01	3.66	7.55	3.67	2.66	2.49	
8	2.41	2.69	3.37	3.25	3.48	4.67	3.32	3.58	7.11	3.51	2.64	2.49	
9	2.41	2.75	4.53	3.29	3.35	5.35	3.50	3.60	6.94	3.41	2.63	2.49	
10	2.40	3.16	4.13	3.37	3.19	5.79	3.75	3.70	6.71	3.34	2.61	2.44	
11	2.41	3.60	3.76	3.25	3.08	5.65	3.81	5.14	6.20	3.26	2.60	2.43	
12	2.42	4.15	4.21	3.14	2.97	5.11	3.82	5.97	5.63	3.21	2.60	2.42	
13	2.38	4.40	5.65	3.07	2.89	4.64	4.76	5.65	5.02	3.16	2.59	2.41	
14	2.33	4.70	6.62	3.08	2.85	4.13	5.07	5.35	4.72	3.11	2.58	2.40	
15	2.31	5.50	6.60	3.16	2.81	3.80	4.74	5.00	4.42	3.09	2.58	2.39	
16	2.29	5.45	5.72	3.28	2.77	3.59	4.86	4.40	4.26	3.06	2.59	2.40	
17	2.34	4.54	4.62	3.22	2.74	3.41	5.36	3.99	4.24	3.02	2.58	2.40	
18	2.46	3.78	3.95	3.56	2.72	3.30	6.67	3.89	4.21	3.00	2.57	2.39	
19	2.42	3.39	3.66	4.33	2.71	3.24	7.06	3.80	4.05	2.98	2.55	2.41	
20	2.51	3.22	3.47	4.53	3.19	3.29	6.88	3.81	3.90	2.97	2.53	2.49	
21	2.61	3.27	3.42	4.34	4.38	3.64	6.72	4.85	3.78	2.93	2.52	2.88	
22	2.55	3.26	3.35	4.13	3.99	3.52	6.16	5.78	3.68	2.91	2.51	3.22	
23	2.41	3.37	3.29	3.63	4.18	3.32	5.44	6.44	3.59	2.89	2.50	3.01	
24	2.41	3.52	3.42	3.48	3.79	3.17	4.92	6.55	3.53	2.87	2.49	2.77	
25	2.82	3.35	3.61	3.38	3.44	3.10	4.90	6.45	3.47	2.85	2.48	2.63	
26	3.00	3.33	4.43	3.46	3.50	3.13	5.68	6.81	3.53	2.86	2.47	2.70	
27	2.97	3.28	4.86	3.59	3.57	3.18	6.05	7.30	3.78	2.87	2.47	2.98	
28	2.78	3.14	5.35	3.69	3.97	3.06	5.43	7.60	4.03	2.84	2.46	2.76	
29	3.25	3.05	5.35	3.55	4.32	3.06	4.84	7.91	3.79	2.80		2.86	
30	3.37	2.99	5.12	3.38	4.23	3.34	4.56	8.13	3.61	2.78		3.30	
31		2.96		3.18	3.86		5.21		3.53	2.77		3.21	
Mean	2.56	3.46	4.12	3.59	3.34	4.01	4.71	5.25	5.32	3.21	2.59	2.62	
Max	3.37	5.50	6.62	4.64	4.38	5.79	7.06	8.13	8.41	4.43	2.75	3.30	8.41
Min	2.29	2.66	2.92	3.07	2.71	3.06	3.01	3.58	3.47	2.77	2.46	2.39	2.29

Annual Max Momentary Gage Height 8.41 m. (MSL.) , at 12.00 Hours , on Dec 3, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 0.81 m. (MSL.)

Left Bank Elevation 12.16 m. (MSL.) ,

Right Bank Elevation 12.21 m. (MSL.) , Drainage Are 1,374 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.60	33.80	19.20	80.00	22.25	39.40	26.80	131.75	295.30	33.10	15.00	9.00		
2	11.00	23.50	18.40	60.20	20.75	59.80	25.00	120.20	301.60	32.05	14.80	8.80		
3	12.80	18.40	18.60	46.20	21.50	111.00	22.00	91.00	303.70	49.80	14.40	9.60		
4	11.80	15.60	21.00	43.25	22.75	106.00	25.00	69.45	300.90	70.35	14.20	9.60		
5	10.00	13.20	19.20	39.40	24.00	69.00	33.80	53.40	293.90	63.80	14.00	9.60		
6	9.00	14.00	22.25	33.45	22.50	64.60	23.50	45.00	277.95	49.40	13.60	9.60		
7	8.20	15.00	23.25	29.20	21.25	91.50	20.25	40.10	246.75	40.45	13.20	9.80		
8	8.20	13.80	30.10	26.50	33.80	81.50	28.60	37.30	218.15	34.85	12.80	9.80		
9	8.20	15.00	74.85	27.70	29.50	115.50	34.50	38.00	207.40	31.35	12.60	9.80		
10	8.00	24.00	58.20	30.10	24.75	139.45	43.25	41.50	193.60	29.20	12.20	8.80		
11	8.20	38.00	43.60	26.50	22.00	131.75	45.40	105.00	163.00	26.80	12.00	8.60		
12	8.40	59.00	61.40	23.50	19.40	103.50	45.80	149.35	130.65	25.30	12.00	8.40		
13	7.60	69.00	131.75	21.75	17.80	80.00	86.00	131.75	99.00	24.00	11.80	8.20		
14	6.60	83.00	188.20	22.00	17.00	58.20	101.50	115.50	84.00	22.75	11.60	8.00		
15	6.20	123.50	187.00	24.00	16.20	45.00	85.00	98.00	69.90	22.25	11.60	7.80		
16	5.80	120.75	135.60	27.40	15.40	37.65	91.00	69.00	63.40	21.50	11.80	8.00		
17	6.80	75.30	79.00	25.60	14.80	31.35	116.00	52.60	62.60	20.50	11.60	8.00		
18	9.20	44.30	51.00	36.60	14.40	28.00	191.20	48.60	61.40	20.00	11.40	7.80		
19	8.40	30.70	40.10	66.20	14.20	26.20	214.90	45.00	55.00	19.60	11.00	8.20		
20	10.20	25.60	33.45	74.85	24.75	27.70	203.80	45.40	49.00	19.40	10.60	9.80		
21	12.20	27.10	31.70	66.60	68.20	39.40	194.20	90.50	44.30	18.60	10.40	17.60		
22	11.00	26.80	29.50	58.20	52.60	35.20	160.60	138.90	40.80	18.20	10.20	25.60		
23	8.20	30.10	27.70	39.05	60.20	28.60	120.20	177.40	37.65	17.80	10.00	20.25		
24	8.20	35.20	31.70	33.80	44.65	24.25	94.00	184.00	35.55	17.40	9.80	15.40		
25	16.40	29.50	38.35	30.40	32.40	22.50	93.00	178.00	33.45	17.00	9.60	12.60		
26	20.00	28.90	70.35	33.10	34.50	23.25	133.40	199.60	35.55	17.20	9.40	14.00		
27	19.40	27.40	91.00	37.65	36.95	24.50	154.00	230.50	44.30	17.40	9.40	19.60		
28	15.60	23.50	115.50	41.15	51.80	21.50	119.65	250.00	54.20	16.80	9.20	15.20		
29	26.50	21.25	115.50	36.25	65.80	21.50	90.00	270.15	44.65	16.00		17.20		
30	30.10	19.80	104.00	30.40	62.20	29.20	76.20	284.45	38.35	15.60		28.00		
31		19.20		24.50	47.40		108.50		35.55	15.40		25.30		
Total	341.80	1144.20	1911.45	1195.50	975.70	1717.00	2807.05	3531.40	3921.55	843.85	330.20	387.95	19107.65	CMSDAY
Mean	11.39	36.91	63.71	38.56	31.47	57.23	90.55	117.71	126.50	27.22	11.79	12.51	52.35	CMS
Max	30.10	123.50	188.20	80.00	68.20	139.45	214.90	284.45	303.70	70.35	15.00	28.00	303.70	CMS
Min	5.80	13.20	18.40	21.75	14.20	21.50	20.25	37.30	33.45	15.40	9.20	7.80	5.80	CMS
Runoff	29.53	98.86	165.15	103.29	84.30	148.35	242.53	305.11	338.82	72.91	28.53	33.52	1650.90	MCM

Momentary Peak 303.70 CMS. at 8.41 m. (MSL.) at 12.00 Hours , on Dec 3, 2008

Runoff Yield 38.10 Liters/Second/Square KM. Momentary Peak Yield 221.03 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Upper Khlong Nang Noi at Khaow Sae (2) , Trang (X.229)

Lat 07 - 32 - 53 N Long 99 - 44 - 40 E

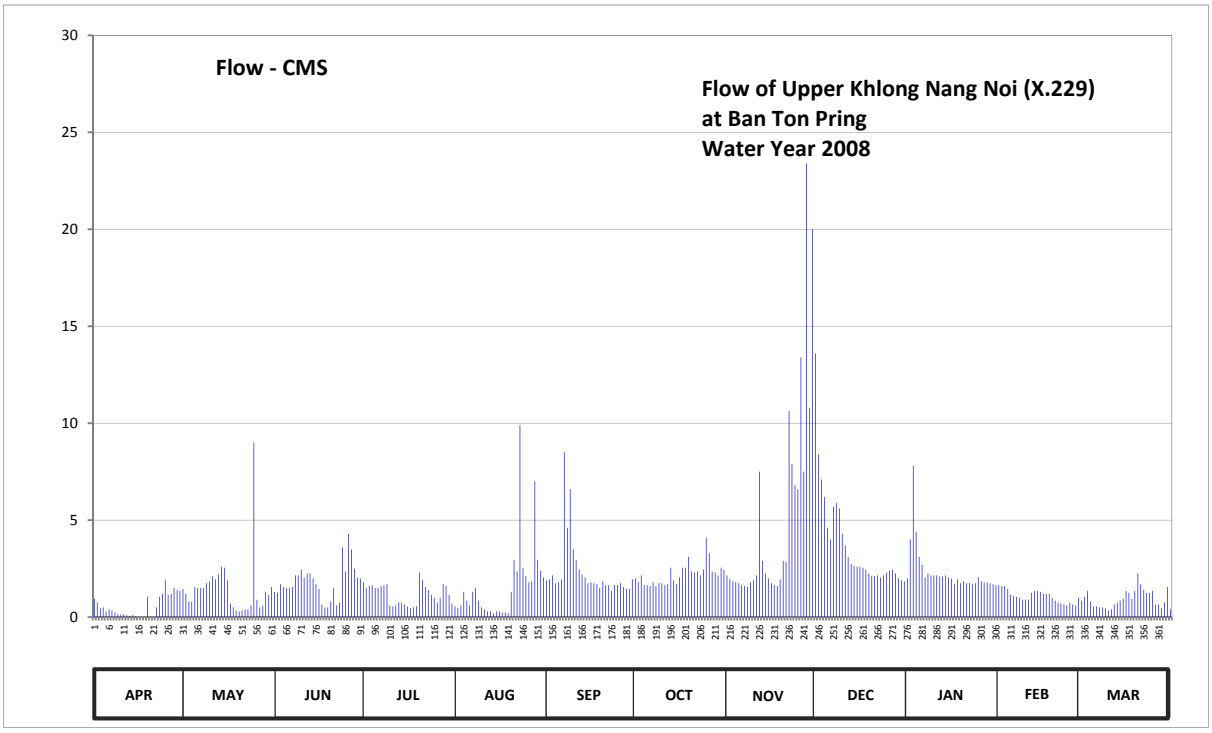
Location : on left bank at Ban Ton Pring.

	Ban Khaow Sae 2	**Amphoe** Na Yong	**Changwat** Trang
Drainge 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 mean of 5 readings		
Period of Available Gage Records	2003 to date		
Rating Operation			
Period of Rating	2003 to date		
Rated by Float	-		
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 27 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	28.79	28.89	28.86	28.96	28.71	28.98	29.00	29.03	30.08	29.00	28.93	28.77	
2	28.75	28.84	28.85	28.90	28.69	28.99	28.96	28.99	29.74	29.30	28.92	28.81	
3	28.69	28.76	28.94	28.92	28.72	29.03	29.03	28.97	29.61	29.68	28.92	28.87	
4	28.70	28.76	28.91	28.93	28.86	28.95	28.93	28.96	29.52	29.34	28.89	28.76	
5	28.66	28.91	28.90	28.90	28.77	28.96	28.93	28.95	29.36	29.21	28.83	28.71	
6	28.68	28.90	28.90	28.90	28.72	28.99	28.92	28.93	29.30	29.14	28.82	28.71	
7	28.67	28.90	28.91	28.92	28.86	29.75	28.96	28.92	29.47	29.01	28.81	28.70	
8	28.65	28.90	29.03	28.93	28.90	29.36	28.92	28.91	29.49	29.05	28.80	28.70	
9	28.63	28.95	29.03	28.94	28.77	29.56	28.95	28.96	29.46	29.03	28.78	28.69	
10	28.63	28.97	29.09	28.72	28.70	29.25	28.95	28.98	29.33	29.03	28.78	28.67	
11	28.63	29.02	29.01	28.71	28.68	29.19	28.93	29.03	29.27	29.03	28.78	28.68	
12	28.62	28.99	29.05	28.72	28.66	29.09	28.94	29.65	29.21	29.02	28.85	28.73	
13	28.61	29.04	29.05	28.75	28.66	29.04	29.11	29.18	29.15	29.02	28.87	28.75	
14	28.62	29.12	29.00	28.75	28.64	29.01	28.98	29.05	29.13	29.03	28.87	28.77	
15	28.61	29.11	28.94	28.73	28.66	28.95	28.94	29.00	29.12	29.01	28.86	28.79	
16	28.60	28.98	28.89	28.71	28.66	28.96	29.01	28.95	29.12	29.00	28.84	28.87	
17	28.60	28.74	28.73	28.69	28.65	28.95	29.11	28.93	29.11	28.94	28.84	28.85	
18	28.60	28.70	28.70	28.70	28.65	28.94	29.11	28.92	29.09	28.99	28.84	28.79	
19	28.81	28.67	28.70	28.71	28.64	28.90	29.21	28.99	29.05	28.95	28.80	28.87	
20	28.60	28.66	28.76	29.06	28.86	28.97	29.07	29.18	29.02	28.97	28.77	29.05	
21	28.60	28.67	28.90	28.98	29.19	28.93	29.06	29.17	29.02	28.95	28.75	28.94	
22	28.70	28.68	28.72	28.91	29.07	28.93	29.07	29.91	29.03	28.95	28.74	28.88	
23	28.81	28.68	28.75	28.88	29.86	28.87	29.03	29.69	29.01	28.94	28.73	28.85	
24	28.84	28.72	29.26	28.83	29.11	28.93	29.09	29.58	29.03	28.95	28.72	28.85	
25	28.98	29.80	29.07	28.80	29.02	28.93	29.31	29.56	29.06	29.01	28.75	28.87	
26	28.83	28.78	29.33	28.75	28.96	28.95	29.23	30.07	29.08	28.97	28.73	28.73	
27	28.84	28.70	29.25	28.80	28.97	28.91	29.07	29.65	29.09	28.96	28.72	28.73	
28	28.90	28.72	29.10	28.94	29.60	28.89	29.06	30.48	29.05	28.96	28.80	28.69	
29	28.88	28.86	29.01	28.92	29.19	28.89	29.03	29.92	29.00	28.95		28.75	
30	28.87	28.83	29.00	28.83	29.08	28.99	29.11	30.36	28.98	28.94		28.91	
31		28.91		28.74	29.01		29.09		28.97	28.93		28.68	
Mean	28.71	28.88	28.95	28.84	28.89	29.03	29.04	29.30	29.22	29.04	28.81	28.79	
Max	28.98	29.80	29.33	29.06	29.86	29.75	29.31	30.48	30.08	29.68	28.93	29.05	30.48
Min	28.60	28.66	28.70	28.69	28.64	28.87	28.92	28.91	28.97	28.93	28.72	28.67	28.60

Annual Max Momentary Gage Height	31.95	m. (MSL.) ,	at 18.00 Hours , on Nov 28, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	28.27	m. (MSL.)
Left Bank Elevation	34.06	m. (MSL.) ,			
Right Bank Elevation	33.95	m. (MSL.) ,	Drainage Are	158	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.95	1.45	1.30	1.80	0.55	1.90	2.00	2.15	13.60	2.00	1.65	0.85		
2	0.75	1.20	1.25	1.50	0.45	1.95	1.80	1.95	8.40	4.00	1.60	1.05		
3	0.45	0.80	1.70	1.60	0.60	2.15	2.15	1.85	7.10	7.80	1.60	1.35		
4	0.50	0.80	1.55	1.65	1.30	1.75	1.65	1.80	6.20	4.40	1.45	0.80		
5	0.30	1.55	1.50	1.50	0.85	1.80	1.65	1.75	4.60	3.10	1.15	0.55		
6	0.40	1.50	1.50	1.50	0.60	1.95	1.60	1.65	4.00	2.70	1.10	0.55		
7	0.35	1.50	1.55	1.60	1.30	8.50	1.80	1.60	5.70	2.05	1.05	0.50		
8	0.25	1.50	2.15	1.65	1.50	4.60	1.60	1.55	5.90	2.25	1.00	0.50		
9	0.15	1.75	2.15	1.70	0.85	6.60	1.75	1.80	5.60	2.15	0.90	0.45		
10	0.15	1.85	2.45	0.60	0.50	3.50	1.75	1.90	4.30	2.15	0.90	0.35		
11	0.15	2.10	2.05	0.55	0.40	2.95	1.65	2.15	3.70	2.15	0.90	0.40		
12	0.10	1.95	2.25	0.60	0.30	2.45	1.70	7.50	3.10	2.10	1.25	0.65		
13	0.05	2.20	2.25	0.75	0.30	2.20	2.55	2.90	2.75	2.10	1.35	0.75		
14	0.10	2.60	2.00	0.75	0.20	2.05	1.90	2.25	2.65	2.15	1.35	0.85		
15	0.05	2.55	1.70	0.65	0.30	1.75	1.70	2.00	2.60	2.05	1.30	0.95		
16	0.00	1.90	1.45	0.55	0.30	1.80	2.05	1.75	2.60	2.00	1.20	1.35		
17	0.00	0.70	0.65	0.45	0.25	1.75	2.55	1.65	2.55	1.70	1.20	1.25		
18	0.00	0.50	0.50	0.50	0.25	1.70	2.55	1.60	2.45	1.95	1.20	0.95		
19	1.05	0.35	0.50	0.55	0.20	1.50	3.10	1.95	2.25	1.75	1.00	1.35		
20	0.00	0.30	0.80	2.30	1.30	1.85	2.35	2.90	2.10	1.85	0.85	2.25		
21	0.00	0.35	1.50	1.90	2.95	1.65	2.30	2.85	2.10	1.75	0.75	1.70		
22	0.50	0.40	0.60	1.55	2.35	1.65	2.35	10.65	2.15	1.75	0.70	1.40		
23	1.05	0.40	0.75	1.40	9.90	1.35	2.15	7.90	2.05	1.70	0.65	1.25		
24	1.20	0.60	3.60	1.15	2.55	1.65	2.45	6.80	2.15	1.75	0.60	1.25		
25	1.90	9.00	2.35	1.00	2.10	1.65	4.10	6.60	2.30	2.05	0.75	1.35		
26	1.15	0.90	4.30	0.75	1.80	1.75	3.30	13.40	2.40	1.85	0.65	0.65		
27	1.20	0.50	3.50	1.00	1.85	1.55	2.35	7.50	2.45	1.80	0.60	0.65		
28	1.50	0.60	2.50	1.70	7.00	1.45	2.30	23.40	2.25	1.80	1.00	0.45		
29	1.40	1.30	2.05	1.60	2.95	1.45	2.15	10.80	2.00	1.75		0.75		
30	1.35	1.15	2.00	1.15	2.40	1.95	2.55	20.00	1.90	1.70		1.55		
31		1.55		0.70	2.05		2.45		1.85	1.65		0.40		
Total	17.00	45.80	54.40	36.65	50.20	70.80	68.30	154.55	115.75	71.95	29.70	29.10	744.20	CMSDAY
Mean	0.57	1.48	1.81	1.18	1.62	2.36	2.20	5.15	3.73	2.32	1.06	0.94	2.04	CMS
Max	1.90	9.00	4.30	2.30	9.90	8.50	4.10	23.40	13.60	7.80	1.65	2.25	23.40	CMS
Min	0.00	0.30	0.50	0.45	0.20	1.35	1.60	1.55	1.85	1.65	0.60	0.35	0.00	CMS
Runoff	1.47	3.96	4.70	3.17	4.34	6.12	5.90	13.35	10.00	6.22	2.57	2.51	64.30	MCM

Momentary Peak 87.25 CMS. at 31.95 m. (MSL.) at 18.00 Hours , on Nov 28, 2008

Runoff Yield 12.90 Liters/Second/Square KM. Momentary Peak Yield 552.22 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Lower Trang River at Ban Pa Mak , Trang (X.234)

Lat 07 - 35 - 21 N Long 99 - 34 - 39 E

Location : on left bank at Ban Pa Mak.

	Ban Pa Mak	**Amphoe** Mueang	**Changwat** Trang
Drainge 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 mean of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
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 29 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

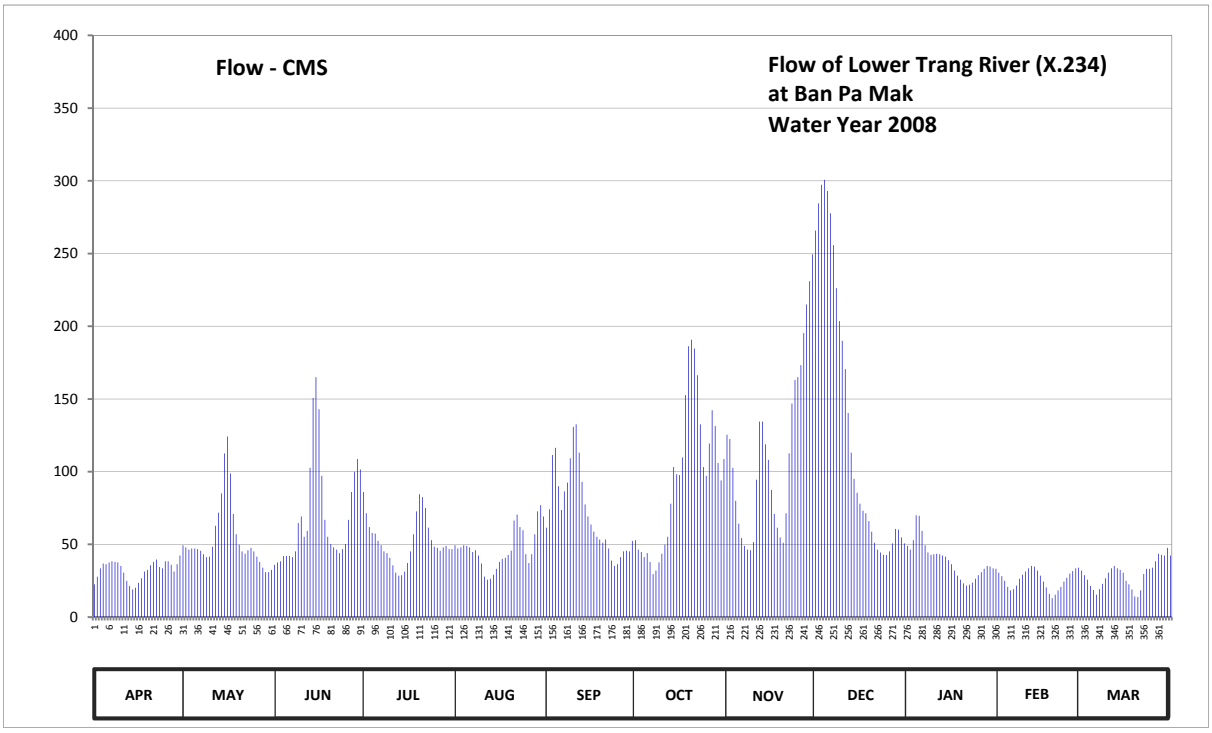
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.32	1.03	0.70	1.82	1.03	1.30	1.11	2.54	4.48	1.02	0.56	0.60	
2	0.48	1.00	0.74	1.52	0.98	1.58	0.96	2.49	4.70	0.96	0.49	0.51	
3	0.64	0.96	0.76	1.31	1.00	2.30	0.92	2.14	4.85	1.11	0.40	0.42	
4	0.72	0.98	0.85	1.22	1.03	2.39	0.83	1.70	4.89	1.49	0.26	0.28	
5	0.71	0.98	0.85	1.21	1.02	1.90	0.90	1.36	4.80	1.48	0.18	0.19	
6	0.74	0.97	0.85	1.10	1.00	1.57	0.75	1.14	4.62	1.25	0.21	0.08	
7	0.76	0.94	0.83	1.03	0.92	1.83	0.53	1.02	4.36	1.03	0.29	0.21	
8	0.75	0.88	0.93	0.93	0.95	1.95	0.60	0.96	3.99	0.91	0.44	0.33	
9	0.74	0.83	1.37	0.90	0.86	2.26	0.74	0.95	3.70	0.87	0.52	0.45	
10	0.68	0.84	1.47	0.82	0.72	2.63	0.89	1.08	3.52	0.88	0.58	0.56	
11	0.56	1.01	1.16	0.69	0.48	2.66	1.04	1.99	3.25	0.89	0.64	0.64	
12	0.40	1.33	1.25	0.56	0.42	2.33	1.16	2.69	2.79	0.88	0.68	0.68	
13	0.28	1.53	2.14	0.50	0.44	1.96	1.66	2.69	2.33	0.86	0.67	0.64	
14	0.20	1.80	2.95	0.51	0.52	1.65	2.15	2.43	2.00	0.84	0.60	0.61	
15	0.24	2.32	3.17	0.58	0.63	1.47	2.06	2.24	1.81	0.78	0.50	0.56	
16	0.35	2.52	2.83	0.73	0.75	1.35	2.05	1.85	1.66	0.71	0.38	0.40	
17	0.45	2.07	2.04	0.93	0.80	1.24	2.27	1.51	1.56	0.60	0.25	0.32	
18	0.58	1.51	1.42	1.20	0.82	1.16	2.98	1.30	1.52	0.50	0.10	0.20	
19	0.61	1.20	1.16	1.55	0.87	1.12	3.47	1.15	1.40	0.42	0.00	0.04	
20	0.69	1.04	1.05	1.79	0.94	1.07	3.53	1.07	1.24	0.34	0.08	0.03	
21	0.75	0.93	1.00	1.75	1.41	1.12	3.45	1.52	1.07	0.29	0.18	0.18	
22	0.79	0.89	0.96	1.60	1.50	0.98	3.19	2.32	0.96	0.31	0.26	0.53	
23	0.66	0.95	0.90	1.30	1.31	0.77	2.66	2.89	0.91	0.36	0.38	0.63	
24	0.64	0.99	0.97	1.11	1.26	0.68	2.15	3.14	0.87	0.44	0.46	0.63	
25	0.76	0.93	1.05	1.01	0.88	0.71	2.04	3.17	0.87	0.51	0.54	0.65	
26	0.76	0.84	1.42	0.99	0.73	0.83	2.44	3.29	0.93	0.57	0.59	0.76	
27	0.70	0.75	1.82	0.94	0.88	0.93	2.82	3.59	1.06	0.63	0.64	0.89	
28	0.58	0.65	2.09	1.00	1.20	0.94	2.64	3.85	1.28	0.68	0.65	0.87	
29	0.71	0.57	2.25	1.02	1.55	0.93	2.20	4.05	1.27	0.67		0.86	
30	0.86	0.57	2.12	0.97	1.64	1.10	1.98	4.28	1.15	0.64		0.99	
31		0.61		0.97	1.47		2.25		1.06	0.63		0.86	
Mean	0.60	1.11	1.44	1.08	0.97	1.49	1.88	2.21	2.42	0.76	0.41	0.50	
Max	0.86	2.52	3.17	1.82	1.64	2.66	3.53	4.28	4.89	1.49	0.68	0.99	4.89
Min	0.20	0.57	0.70	0.50	0.42	0.68	0.53	0.95	0.87	0.29	0.00	0.03	0.00

Annual Max Momentary Gage Height 4.90 m. (MSL.) , at 23.00 Hours , on Dec 3, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed -1.78 m. (MSL.)

Left Bank Elevation 6.65 m. (MSL.) ,

Right Bank Elevation 6.68 m. (MSL.) , Drainage Are 2,808 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	22.60	49.35	36.00	86.00	49.35	61.50	52.95	125.40	265.80	48.90	30.60	32.00		
2	27.80	48.00	37.60	71.40	47.20	74.10	46.40	122.40	284.50	46.40	28.15	28.85		
3	33.60	46.40	38.40	61.95	48.00	111.50	44.80	102.70	297.25	52.95	25.00	25.70		
4	36.80	47.20	42.00	57.90	49.35	116.45	41.20	80.00	300.65	70.05	20.80	21.40		
5	36.40	47.20	42.00	57.45	48.90	90.00	44.00	64.20	293.00	69.60	18.40	18.70		
6	37.60	46.80	42.00	52.50	48.00	73.65	38.00	54.30	277.70	59.25	19.30	15.40		
7	38.40	45.60	41.20	49.35	44.80	86.50	29.55	48.90	255.80	49.35	21.70	19.30		
8	38.00	43.20	45.20	45.20	46.00	92.50	32.00	46.40	226.20	44.40	26.40	22.90		
9	37.60	41.20	64.65	44.00	42.40	109.30	37.60	46.00	203.50	42.80	29.20	26.75		
10	35.20	41.60	69.15	40.80	36.80	130.80	43.60	51.60	190.00	43.20	31.30	30.60		
11	30.60	48.45	55.20	35.60	27.80	132.60	49.80	94.50	170.50	43.60	33.60	33.60		
12	25.00	62.85	59.25	30.60	25.70	113.15	55.20	134.40	140.40	43.20	35.20	35.20		
13	21.40	71.85	102.70	28.50	26.40	93.00	78.00	134.40	113.15	42.40	34.80	33.60		
14	19.00	85.00	150.75	28.85	29.20	77.50	103.25	118.80	95.00	41.60	32.00	32.40		
15	20.20	112.60	165.05	31.30	33.20	69.15	98.30	108.20	85.50	39.20	28.50	30.60		
16	23.50	124.20	142.95	37.20	38.00	63.75	97.75	87.50	78.00	36.40	24.40	25.00		
17	26.75	98.85	97.20	45.20	40.00	58.80	109.85	70.95	73.20	32.00	20.50	22.60		
18	31.30	70.95	66.90	57.00	40.80	55.20	152.70	61.50	71.40	28.50	16.00	19.00		
19	32.40	57.00	55.20	72.75	42.80	53.40	186.25	54.75	66.00	25.70	13.00	14.20		
20	35.60	49.80	50.25	84.50	45.60	51.15	190.75	51.15	58.80	23.20	15.40	13.90		
21	38.00	45.20	48.00	82.50	66.45	53.40	184.75	71.40	51.15	21.70	18.40	18.40		
22	39.60	43.60	46.40	75.00	70.50	47.20	166.35	112.60	46.40	22.30	20.80	29.55		
23	34.40	46.00	44.00	61.50	61.95	38.80	132.60	146.85	44.40	23.80	24.40	33.20		
24	33.60	47.60	46.80	52.95	59.70	35.20	103.25	163.10	42.80	26.40	27.10	33.20		
25	38.40	45.20	50.25	48.45	43.20	36.40	97.20	165.05	42.80	28.85	29.90	34.00		
26	38.40	41.60	66.90	47.60	37.20	41.20	119.40	173.30	45.20	30.95	31.65	38.40		
27	36.00	38.00	86.00	45.60	43.20	45.20	142.30	195.25	50.70	33.20	33.60	43.60		
28	31.30	34.00	99.95	48.00	57.00	45.60	131.40	215.00	60.60	35.20	34.00	42.80		
29	36.40	30.95	108.75	48.90	72.75	45.20	106.00	231.00	60.15	34.80		42.40		
30	42.40	30.95	101.60	46.80	77.00	52.50	94.00	249.40	54.75	33.60		47.60		
31		32.40		46.80	69.15		108.75		50.70	33.20		42.40		
Total	978.25	1673.60	2102.30	1622.15	1468.40	2154.70	2917.95	3381.00	4096.00	1206.70	724.10	907.25	23232.40	CMSDAY
Mean	32.61	53.99	70.08	52.33	47.37	71.82	94.13	112.70	132.13	38.93	25.86	29.27	63.65	CMS
Max	42.40	124.20	165.05	86.00	77.00	132.60	190.75	249.40	300.65	70.05	35.20	47.60	300.65	CMS
Min	19.00	30.95	36.00	28.50	25.70	35.20	29.55	46.00	42.80	21.70	13.00	13.90	13.00	CMS
Runoff	84.52	144.60	181.64	140.15	126.87	186.17	252.11	292.12	353.89	104.26	62.56	78.39	2007.28	MCM

Momentary Peak 301.50 CMS. at 4.90 m. (MSL.) at 23.00 Hours , on Dec 3, 2008

Runoff Yield 22.66 Liters/Second/Square KM. Momentary Peak Yield 107.35 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
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 22 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

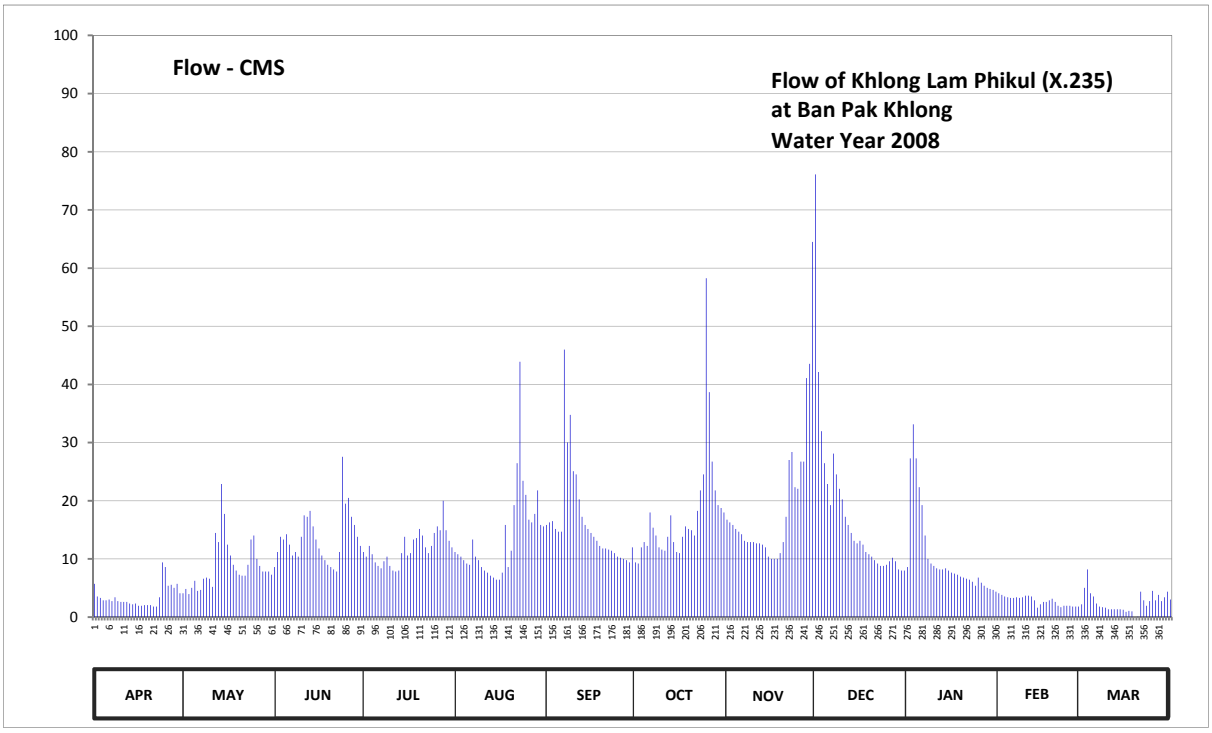
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.47	9.37	9.63	9.76	9.76	9.97	9.67	10.01	11.79	9.63	9.37	9.23	
2	9.33	9.42	9.76	9.72	9.74	9.99	9.66	9.99	10.89	10.41	9.35	9.43	
3	9.31	9.36	9.88	9.81	9.72	10.00	9.80	9.97	10.58	10.62	9.33	9.61	
4	9.28	9.43	9.86	9.74	9.69	9.94	9.84	9.94	10.38	10.41	9.32	9.37	
5	9.28	9.50	9.90	9.67	9.66	9.92	9.81	9.92	10.25	10.23	9.31	9.33	
6	9.29	9.40	9.82	9.64	9.65	9.92	10.06	9.90	10.11	10.11	9.31	9.24	
7	9.27	9.41	9.73	9.62	9.86	11.00	9.95	9.85	10.44	9.89	9.32	9.20	
8	9.32	9.52	9.76	9.68	9.72	10.51	9.89	9.84	10.31	9.70	9.31	9.19	
9	9.27	9.53	9.72	9.72	9.69	10.67	9.80	9.84	10.22	9.66	9.32	9.18	
10	9.26	9.52	9.88	9.64	9.63	10.33	9.78	9.84	10.15	9.64	9.34	9.15	
11	9.26	9.44	10.04	9.60	9.60	10.31	9.77	9.83	10.03	9.62	9.34	9.15	
12	9.26	9.91	10.03	9.59	9.58	10.15	9.88	9.83	9.97	9.61	9.33	9.15	
13	9.24	9.84	10.07	9.60	9.55	10.03	10.04	9.82	9.91	9.61	9.28	9.15	
14	9.23	10.25	9.96	9.75	9.53	9.97	9.84	9.80	9.85	9.62	9.18	9.15	
15	9.24	10.05	9.86	9.88	9.51	9.94	9.76	9.72	9.83	9.60	9.23	9.14	
16	9.21	9.82	9.79	9.73	9.51	9.91	9.75	9.70	9.85	9.58	9.26	9.10	
17	9.21	9.73	9.73	9.75	9.58	9.88	9.88	9.70	9.82	9.57	9.26	9.12	
18	9.22	9.65	9.69	9.86	9.97	9.85	9.96	9.70	9.76	9.56	9.28	9.11	
19	9.22	9.60	9.65	9.87	9.63	9.81	9.94	9.75	9.74	9.54	9.30	8.99	
20	9.22	9.56	9.63	9.94	9.77	9.79	9.93	9.84	9.72	9.53	9.26	9.01	
21	9.20	9.55	9.61	9.89	10.11	9.79	9.89	10.03	9.69	9.52	9.21	9.39	
22	9.20	9.55	9.59	9.80	10.38	9.78	10.07	10.40	9.66	9.51	9.19	9.28	
23	9.32	9.65	9.76	9.75	10.94	9.77	10.21	10.45	9.64	9.49	9.21	9.21	
24	9.67	9.86	10.42	9.81	10.27	9.75	10.31	10.23	9.64	9.45	9.21	9.27	
25	9.63	9.89	10.12	9.91	10.18	9.72	11.34	10.22	9.65	9.53	9.21	9.40	
26	9.45	9.70	10.16	9.96	10.01	9.71	10.79	10.39	9.68	9.48	9.20	9.28	
27	9.46	9.64	10.03	9.93	9.99	9.70	10.39	10.39	9.71	9.45	9.20	9.35	
28	9.43	9.59	9.97	10.14	10.05	9.69	10.21	10.86	9.68	9.43	9.20	9.27	
29	9.47	9.59	9.88	9.93	10.21	9.67	10.11	10.93	9.61	9.42		9.32	
30	9.37	9.59	9.81	9.85	9.97	9.80	10.09	11.50	9.60	9.41		9.39	
31		9.56		9.80	9.96		10.06		9.60	9.39		9.29	
Mean	9.32	9.63	9.86	9.79	9.85	9.98	10.02	10.07	9.99	9.68	9.27	9.24	
Max	9.67	10.25	10.42	10.14	10.94	11.00	11.34	11.50	11.79	10.62	9.37	9.61	11.79
Min	9.20	9.36	9.59	9.59	9.51	9.67	9.66	9.70	9.60	9.39	9.18	8.99	8.99

Annual Max Momentary Gage Height 12.33 m. (MSL.) , at 24.00 Hours , on Aug 22, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 8.30 m. (MSL.)

Left Bank Elevation 16.61 m. (MSL.) ,

Right Bank Elevation 16.59 m. (MSL.) , Drainage Are 116 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.73	4.10	8.60	11.20	11.20	15.83	9.40	16.75	76.10	8.60	4.10	2.21		
2	3.56	4.85	11.20	10.40	10.80	16.28	9.20	16.28	42.15	27.28	3.83	5.03		
3	3.29	3.96	13.80	12.23	10.40	16.50	12.00	15.83	31.95	33.15	3.56	8.20		
4	2.88	5.03	13.35	10.80	9.80	15.15	12.90	15.15	26.45	27.28	3.42	4.10		
5	2.88	6.25	14.25	9.40	9.20	14.70	12.23	14.70	22.88	22.33	3.29	3.56		
6	3.02	4.50	12.45	8.80	9.00	14.70	18.00	14.25	19.25	19.25	3.29	2.34		
7	2.75	4.68	10.60	8.40	13.35	46.00	15.38	13.13	28.10	14.03	3.42	1.80		
8	3.42	6.60	11.20	9.60	10.40	30.03	14.03	12.90	24.53	10.00	3.29	1.71		
9	2.75	6.78	10.40	10.40	9.80	34.78	12.00	12.90	22.05	9.20	3.42	1.62		
10	2.61	6.60	13.80	8.80	8.60	25.08	11.60	12.90	20.25	8.80	3.69	1.35		
11	2.61	5.20	17.50	8.00	8.00	24.53	11.40	12.68	17.25	8.40	3.69	1.35		
12	2.61	14.48	17.25	7.83	7.65	20.25	13.80	12.68	15.83	8.20	3.56	1.35		
13	2.34	12.90	18.25	8.00	7.13	17.25	17.50	12.45	14.48	8.20	2.88	1.35		
14	2.21	22.88	15.60	11.00	6.78	15.83	12.90	12.00	13.13	8.40	1.62	1.35		
15	2.34	17.75	13.35	13.80	6.43	15.15	11.20	10.40	12.68	8.00	2.21	1.26		
16	1.94	12.45	11.80	10.60	6.43	14.48	11.00	10.00	13.13	7.65	2.61	0.90		
17	1.94	10.60	10.60	11.00	7.65	13.80	13.80	10.00	12.45	7.48	2.61	1.08		
18	2.07	9.00	9.80	13.35	15.83	13.13	15.60	10.00	11.20	7.30	2.88	0.99		
19	2.07	8.00	9.00	13.58	8.60	12.23	15.15	11.00	10.80	6.95	3.15	0.00		
20	2.07	7.30	8.60	15.15	11.40	11.80	14.93	12.90	10.40	6.78	2.61	0.09		
21	1.80	7.13	8.20	14.03	19.25	11.80	14.03	17.25	9.80	6.60	1.94	4.37		
22	1.80	7.13	7.83	12.00	26.45	11.60	18.25	27.00	9.20	6.43	1.71	2.88		
23	3.42	9.00	11.20	11.00	43.90	11.40	21.78	28.38	8.80	6.08	1.94	1.94		
24	9.40	13.35	27.55	12.23	23.43	11.00	24.53	22.33	8.80	5.38	1.94	2.75		
25	8.60	14.03	19.50	14.48	21.00	10.40	58.25	22.05	9.00	6.78	1.94	4.50		
26	5.38	10.00	20.50	15.60	16.75	10.20	38.68	26.73	9.60	5.90	1.80	2.88		
27	5.55	8.80	17.25	14.93	16.28	10.00	26.73	26.73	10.20	5.38	1.80	3.83		
28	5.03	7.83	15.83	20.00	17.75	9.80	21.78	41.10	9.60	5.03	1.80	2.75		
29	5.73	7.83	13.80	14.93	21.78	9.40	19.25	43.55	8.20	4.85		3.42		
30	4.10	7.83	12.23	13.13	15.83	12.00	18.75	64.50	8.00	4.68		4.37		
31		7.30		12.00	15.60		18.00		8.00	4.37		3.02		
Total	105.90	274.14	405.29	366.67	426.47	495.10	544.05	578.52	544.26	318.76	78.00	78.35	4215.51	CMSDAY
Mean	3.53	8.84	13.51	11.83	13.76	16.50	17.55	19.28	17.56	10.28	2.79	2.53	11.55	CMS
Max	9.40	22.88	27.55	20.00	43.90	46.00	58.25	64.50	76.10	33.15	4.10	8.20	76.10	CMS
Min	1.80	3.96	7.83	7.83	6.43	9.40	9.20	10.00	8.00	4.37	1.62	0.00	0.00	CMS
Runoff	9.15	23.69	35.02	31.68	36.85	42.78	47.01	49.98	47.02	27.54	6.74	6.77	364.22	MCM

Momentary Peak 101.37 CMS. at 12.33 m. (MSL.) at 24.00 Hours , on Aug 22, 2008

Runoff Yield 99.13 Liters/Second/Square KM. Momentary Peak Yield 870.05 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Lower Khlong Palian at Ban Yan Ta Khaow , Trang (X.236)

Lat 07 - 22 - 20 N Long 99 - 40 - 39 E

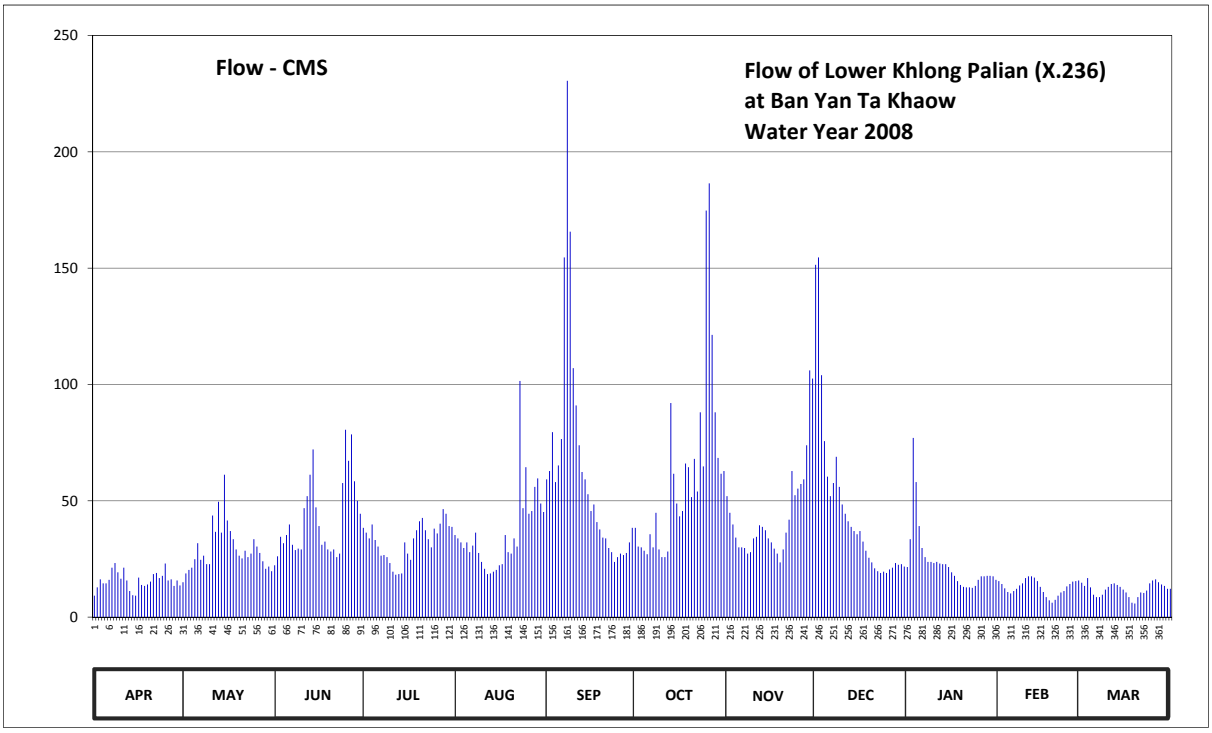
Location : on right bank at Ban Yan Ta Khaow.

	Ban Yan Ta Khaow	**Amphoe** Yan Ta Khaow	**Changwat** Trang
Drainge Area	587 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 gage site.		**Elevation** +5.628 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 Float	-		
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 22 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.16	0.44	0.73	1.24	1.15	1.78	1.24	1.60	3.59	0.70	0.46	0.43	
2	0.34	0.59	0.87	1.18	1.11	1.87	1.01	1.42	3.64	1.10	0.41	0.37	
3	0.49	0.65	1.13	1.11	1.06	2.25	1.00	1.28	2.74	2.20	0.32	0.51	
4	0.42	0.69	1.05	1.28	0.99	1.75	0.95	1.12	2.17	1.75	0.24	0.34	
5	0.42	0.83	1.15	1.09	1.06	1.93	0.90	1.00	1.81	1.26	0.21	0.18	
6	0.48	1.05	1.28	1.01	0.93	2.19	1.16	1.00	1.60	0.99	0.26	0.13	
7	0.69	0.82	1.03	0.88	1.02	3.64	1.00	0.99	1.74	0.86	0.31	0.13	
8	0.77	0.88	0.96	0.89	1.18	4.74	1.42	0.91	2.02	0.79	0.38	0.18	
9	0.61	0.75	0.98	0.86	0.92	3.81	0.97	0.93	1.70	0.79	0.42	0.29	
10	0.50	0.75	0.97	0.77	0.79	2.80	0.86	1.11	1.51	0.77	0.51	0.35	
11	0.69	1.39	1.47	0.62	0.67	2.48	0.86	1.13	1.41	0.79	0.54	0.41	
12	0.47	1.19	1.60	0.57	0.58	2.13	0.94	1.27	1.32	0.76	0.54	0.42	
13	0.26	1.54	1.83	0.58	0.59	1.86	2.50	1.25	1.25	0.75	0.52	0.39	
14	0.17	1.18	2.09	0.59	0.62	1.78	1.84	1.21	1.20	0.75	0.46	0.35	
15	0.16	1.83	1.48	1.06	0.65	1.62	1.52	1.11	1.16	0.70	0.35	0.29	
16	0.52	1.33	1.26	0.91	0.73	1.44	1.38	1.06	1.20	0.61	0.24	0.23	
17	0.39	1.20	1.03	0.82	0.75	1.51	1.44	0.98	1.07	0.55	0.13	0.13	
18	0.37	1.10	1.07	1.11	1.15	1.31	1.95	0.91	0.95	0.46	0.06	0.01	
19	0.40	0.97	0.97	1.21	0.93	1.22	1.91	0.78	0.85	0.39	0.01	-0.01	
20	0.45	0.88	0.94	1.32	0.91	1.12	1.59	0.97	0.78	0.35	0.07	0.13	
21	0.58	0.84	0.97	1.36	1.11	1.11	2.00	1.18	0.68	0.34	0.16	0.23	
22	0.60	0.95	0.86	1.21	1.01	0.99	1.65	1.34	0.63	0.34	0.23	0.22	
23	0.51	0.86	0.91	1.10	2.69	0.93	2.42	1.87	0.60	0.33	0.26	0.27	
24	0.55	0.91	1.74	1.00	1.47	0.79	1.92	1.61	0.62	0.37	0.36	0.42	
25	0.76	1.10	2.27	1.23	1.91	0.86	3.95	1.68	0.60	0.48	0.41	0.47	
26	0.47	1.01	1.98	1.17	1.41	0.91	4.12	1.73	0.66	0.54	0.45	0.49	
27	0.49	0.92	2.23	1.29	1.44	0.89	3.06	1.78	0.69	0.54	0.46	0.44	
28	0.37	0.80	1.76	1.46	1.70	0.92	2.42	2.13	0.77	0.55	0.47	0.40	
29	0.47	0.67	1.55	1.41	1.79	1.06	2.01	2.78	0.74	0.55		0.37	
30	0.38	0.71	1.41	1.26	1.52	1.24	1.84	2.71	0.75	0.54		0.31	
31		0.63		1.25	1.43		1.87		0.71	0.48		0.31	
Mean	0.46	0.95	1.32	1.06	1.14	1.76	1.73	1.36	1.33	0.72	0.33	0.30	
Max	0.77	1.83	2.27	1.46	2.69	4.74	4.12	2.78	3.64	2.20	0.54	0.51	4.74
Min	0.16	0.44	0.73	0.57	0.58	0.79	0.86	0.78	0.60	0.33	0.01	-0.01	-0.01

Annual Max Momentary Gage Height	4.80	m. (MSL.) ,	at 06.00 Hours , on Sep 8, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	-1.31	m. (MSL.)
Left Bank Elevation	7.44	m. (MSL.) ,			
Right Bank Elevation	7.44	m. (MSL.) ,	Drainage Are	587	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.20	15.00	22.25	38.40	35.25	59.20	38.40	52.00	151.40	21.50	15.50	14.75		
2	12.80	18.75	26.10	36.30	33.85	62.80	30.35	44.80	154.60	33.50	14.25	13.40		
3	16.25	20.25	34.55	33.85	32.10	79.50	30.00	39.80	104.00	77.00	12.40	16.75		
4	14.50	21.25	31.75	39.80	29.70	58.00	28.50	34.20	75.65	58.00	10.80	12.80		
5	14.50	24.90	35.25	33.15	32.10	65.20	27.00	30.00	60.40	39.10	10.20	9.60		
6	16.00	31.75	39.80	30.35	27.90	76.55	35.60	30.00	52.00	29.70	11.20	8.60		
7	21.25	24.60	31.05	26.40	30.70	154.60	30.00	29.70	57.60	25.80	12.20	8.60		
8	23.25	26.40	28.80	26.70	36.30	230.50	44.80	27.30	68.90	23.75	13.60	9.60		
9	19.25	22.75	29.40	25.80	27.60	165.65	29.10	27.90	56.00	23.75	14.50	11.80		
10	16.50	22.75	29.10	23.25	23.75	107.00	25.80	33.85	48.40	23.25	16.75	13.00		
11	21.25	43.65	46.80	19.50	20.75	91.00	25.80	34.55	44.40	23.75	17.50	14.25		
12	15.75	36.65	52.00	18.25	18.50	73.85	28.20	39.45	41.20	23.00	17.50	14.50		
13	11.20	49.60	61.20	18.50	18.75	62.40	92.00	38.75	38.75	22.75	17.00	13.80		
14	9.40	36.30	72.05	18.75	19.50	59.20	61.60	37.35	37.00	22.75	15.50	13.00		
15	9.20	61.20	47.20	32.10	20.25	52.80	48.80	33.85	35.60	21.50	13.00	11.80		
16	17.00	41.55	39.10	27.30	22.25	45.60	43.30	32.10	37.00	19.25	10.80	10.60		
17	13.80	37.00	31.05	24.60	22.75	48.40	45.60	29.40	32.45	17.75	8.60	8.60		
18	13.40	33.50	32.45	33.85	35.25	40.85	66.00	27.30	28.50	15.50	7.20	6.20		
19	14.00	29.10	29.10	37.35	27.90	37.70	64.40	23.50	25.50	13.80	6.20	5.85		
20	15.25	26.40	28.20	41.20	27.30	34.20	51.60	29.10	23.50	13.00	7.40	8.60		
21	18.50	25.20	29.10	42.60	33.85	33.85	68.00	36.30	21.00	12.80	9.20	10.60		
22	19.00	28.50	25.80	37.35	30.35	29.70	54.00	41.90	19.75	12.80	10.60	10.40		
23	16.75	25.80	27.30	33.50	101.50	27.90	88.00	62.80	19.00	12.60	11.20	11.40		
24	17.75	27.30	57.60	30.00	46.80	23.75	64.80	52.40	19.50	13.40	13.20	14.50		
25	23.00	33.50	80.50	38.05	64.40	25.80	174.75	55.20	19.00	16.00	14.25	15.75		
26	15.75	30.35	67.20	35.95	44.40	27.30	186.40	57.20	20.50	17.50	15.25	16.25		
27	16.25	27.60	78.50	40.15	45.60	26.70	121.30	59.20	21.25	17.50	15.50	15.00		
28	13.40	24.00	58.40	46.40	56.00	27.60	88.00	73.85	23.25	17.75	15.75	14.00		
29	15.75	20.75	50.00	44.40	59.60	32.10	68.45	106.00	22.50	17.75		13.40		
30	13.60	21.75	44.40	39.10	48.80	38.40	61.60	102.50	22.75	17.50		12.20		
31		19.75		38.75	45.20		62.80		21.75	16.00		12.20		
Total	473.50	907.85	1266.00	1011.65	1118.95	1898.10	1884.95	1322.25	1403.10	720.00	357.05	371.80	12735.20	CMSDAY
Mean	15.78	29.29	42.20	32.63	36.10	63.27	60.80	44.07	45.26	23.23	12.75	11.99	34.89	CMS
Max	23.25	61.20	80.50	46.40	101.50	230.50	186.40	106.00	154.60	77.00	17.50	16.75	230.50	CMS
Min	9.20	15.00	22.25	18.25	18.50	23.75	25.80	23.50	19.00	12.60	6.20	5.85	5.85	CMS
Runoff	40.91	78.44	109.38	87.41	96.68	164.00	162.86	114.24	121.23	62.21	30.85	32.12	1100.32	MCM

Momentary Peak 235.00 CMS. at 4.80 m. (MSL.) at 06.00 Hours , on Sep 8, 2008

Runoff Yield 59.36 Liters/Second/Square KM. Momentary Peak Yield 399.79 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Ton at Ban Ton , Satun (X.237)

Lat 06 - 51 - 20 N Long 100 - 09 - 13 E

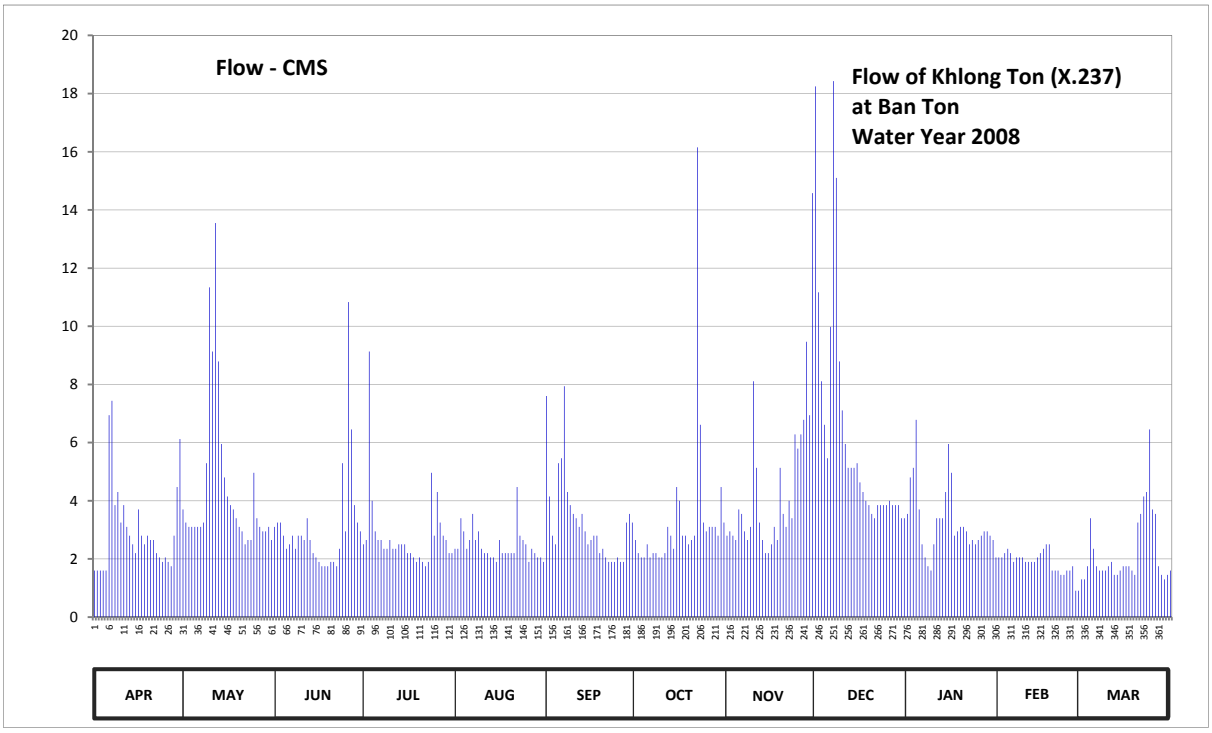
Location : on right bank at Ban Ton.

	Ban Ton	**Amphoe** Khuan Kalong	**Changwat** Satun
Drainge 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 Float	-		
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 28 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	45.02	45.16	45.12	45.08	45.07	45.40	45.09	45.10	46.02	45.15	45.05	45.00	
2	45.02	45.13	45.13	45.09	45.07	45.19	45.06	45.11	45.61	45.23	45.05	45.00	
3	45.02	45.12	45.13	45.49	45.14	45.10	45.05	45.10	45.43	45.25	45.06	45.03	
4	45.02	45.12	45.10	45.18	45.11	45.08	45.05	45.09	45.34	45.35	45.07	45.14	
5	45.02	45.12	45.07	45.11	45.07	45.26	45.08	45.16	45.27	45.16	45.06	45.07	
6	45.36	45.12	45.08	45.09	45.09	45.27	45.05	45.15	45.54	45.08	45.04	45.03	
7	45.39	45.12	45.10	45.09	45.15	45.42	45.06	45.11	46.03	45.05	45.05	45.02	
8	45.17	45.13	45.07	45.07	45.09	45.20	45.06	45.09	45.84	45.03	45.05	45.02	
9	45.20	45.26	45.10	45.07	45.11	45.17	45.05	45.12	45.47	45.02	45.05	45.02	
10	45.13	45.62	45.10	45.09	45.07	45.15	45.05	45.43	45.37	45.08	45.04	45.03	
11	45.17	45.49	45.09	45.07	45.06	45.14	45.06	45.25	45.30	45.14	45.04	45.04	
12	45.12	45.75	45.14	45.07	45.06	45.12	45.12	45.13	45.25	45.14	45.04	45.01	
13	45.10	45.47	45.09	45.08	45.05	45.15	45.10	45.09	45.25	45.14	45.04	45.01	
14	45.08	45.30	45.06	45.08	45.05	45.11	45.07	45.06	45.25	45.20	45.05	45.02	
15	45.06	45.23	45.05	45.08	45.04	45.08	45.21	45.06	45.26	45.30	45.06	45.03	
16	45.16	45.19	45.04	45.06	45.09	45.09	45.18	45.08	45.22	45.24	45.07	45.03	
17	45.10	45.17	45.03	45.06	45.06	45.10	45.10	45.12	45.20	45.10	45.08	45.03	
18	45.08	45.16	45.03	45.05	45.06	45.10	45.10	45.09	45.18	45.11	45.08	45.02	
19	45.10	45.14	45.03	45.04	45.06	45.06	45.08	45.25	45.17	45.12	45.02	45.01	
20	45.09	45.12	45.04	45.05	45.06	45.07	45.09	45.15	45.15	45.12	45.02	45.13	
21	45.09	45.11	45.04	45.04	45.06	45.05	45.10	45.12	45.14	45.11	45.02	45.15	
22	45.06	45.08	45.03	45.03	45.21	45.04	45.90	45.18	45.17	45.08	45.01	45.19	
23	45.05	45.09	45.07	45.04	45.10	45.04	45.34	45.14	45.17	45.09	45.01	45.20	
24	45.04	45.09	45.26	45.24	45.09	45.04	45.13	45.32	45.17	45.08	45.02	45.33	
25	45.05	45.24	45.11	45.10	45.08	45.05	45.11	45.29	45.17	45.09	45.02	45.16	
26	45.04	45.14	45.59	45.20	45.04	45.04	45.12	45.32	45.18	45.10	45.03	45.15	
27	45.03	45.12	45.33	45.13	45.07	45.04	45.12	45.35	45.17	45.11	44.97	45.03	
28	45.10	45.11	45.17	45.10	45.06	45.13	45.12	45.51	45.17	45.11	44.97	45.01	
29	45.21	45.11	45.13	45.09	45.05	45.15	45.10	45.36	45.17	45.10		45.00	
30	45.31	45.12	45.11	45.06	45.05	45.13	45.21	45.81	45.14	45.09		45.01	
31		45.09		45.06	45.04		45.13		45.14	45.05		45.02	
Mean	45.11	45.20	45.11	45.10	45.08	45.13	45.13	45.20	45.32	45.13	45.04	45.06	
Max	45.39	45.75	45.59	45.49	45.21	45.42	45.90	45.81	46.03	45.35	45.08	45.33	46.03
Min	45.02	45.08	45.03	45.03	45.04	45.04	45.05	45.06	45.14	45.02	44.97	45.00	44.97

Annual Max Momentary Gage Height	47.27	m. (MSL.) ,	at 22.00 Hours , on Apr 6, 2008		
Zero Gage at Bottom Elevation	0.00	m. (MSL.) ,	River Bed	44.61	m. (MSL.)
Left Bank Elevation	50.23	m. (MSL.) ,			
Right Bank Elevation	50.15	m. (MSL.) ,	Drainage Are	89	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.60	3.70	3.10	2.50	2.35	7.60	2.65	2.80	18.25	3.55	2.05	1.30		
2	1.60	3.25	3.25	2.65	2.35	4.15	2.20	2.95	11.17	4.80	2.05	1.30		
3	1.60	3.10	3.25	9.13	3.40	2.80	2.05	2.80	8.11	5.13	2.20	1.75		
4	1.60	3.10	2.80	4.00	2.95	2.50	2.05	2.65	6.61	6.78	2.35	3.40		
5	1.60	3.10	2.35	2.95	2.35	5.29	2.50	3.70	5.46	3.70	2.20	2.35		
6	6.94	3.10	2.50	2.65	2.65	5.46	2.05	3.55	9.98	2.50	1.90	1.75		
7	7.44	3.10	2.80	2.65	3.55	7.94	2.20	2.95	18.43	2.05	2.05	1.60		
8	3.85	3.25	2.35	2.35	2.65	4.30	2.20	2.65	15.10	1.75	2.05	1.60		
9	4.30	5.29	2.80	2.35	2.95	3.85	2.05	3.10	8.79	1.60	2.05	1.60		
10	3.25	11.34	2.80	2.65	2.35	3.55	2.05	8.11	7.11	2.50	1.90	1.75		
11	3.85	9.13	2.65	2.35	2.20	3.40	2.20	5.13	5.95	3.40	1.90	1.90		
12	3.10	13.55	3.40	2.35	2.20	3.10	3.10	3.25	5.13	3.40	1.90	1.45		
13	2.80	8.79	2.65	2.50	2.05	3.55	2.80	2.65	5.13	3.40	1.90	1.45		
14	2.50	5.95	2.20	2.50	2.05	2.95	2.35	2.20	5.13	4.30	2.05	1.60		
15	2.20	4.80	2.05	2.50	1.90	2.50	4.47	2.20	5.29	5.95	2.20	1.75		
16	3.70	4.15	1.90	2.20	2.65	2.65	4.00	2.50	4.63	4.96	2.35	1.75		
17	2.80	3.85	1.75	2.20	2.20	2.80	2.80	3.10	4.30	2.80	2.50	1.75		
18	2.50	3.70	1.75	2.05	2.20	2.80	2.80	2.65	4.00	2.95	2.50	1.60		
19	2.80	3.40	1.75	1.90	2.20	2.20	2.50	5.13	3.85	3.10	1.60	1.45		
20	2.65	3.10	1.90	2.05	2.20	2.35	2.65	3.55	3.55	3.10	1.60	3.25		
21	2.65	2.95	1.90	1.90	2.20	2.05	2.80	3.10	3.40	2.95	1.60	3.55		
22	2.20	2.50	1.75	1.75	4.47	1.90	16.15	4.00	3.85	2.50	1.45	4.15		
23	2.05	2.65	2.35	1.90	2.80	1.90	6.61	3.40	3.85	2.65	1.45	4.30		
24	1.90	2.65	5.29	4.96	2.65	1.90	3.25	6.28	3.85	2.50	1.60	6.45		
25	2.05	4.96	2.95	2.80	2.50	2.05	2.95	5.79	3.85	2.65	1.60	3.70		
26	1.90	3.40	10.83	4.30	1.90	1.90	3.10	6.28	4.00	2.80	1.75	3.55		
27	1.75	3.10	6.45	3.25	2.35	1.90	3.10	6.78	3.85	2.95	0.91	1.75		
28	2.80	2.95	3.85	2.80	2.20	3.25	3.10	9.47	3.85	2.95	0.91	1.45		
29	4.47	2.95	3.25	2.65	2.05	3.55	2.80	6.94	3.85	2.80		1.30		
30	6.12	3.10	2.95	2.20	2.05	3.25	4.47	14.58	3.40	2.65		1.45		
31		2.65		2.20	1.90		3.25		3.40	2.05		1.60		
Total	90.57	136.61	91.57	87.19	76.47	99.39	103.25	134.24	197.12	101.17	52.57	69.60	1239.75	CMSDAY
Mean	3.02	4.41	3.05	2.81	2.47	3.31	3.33	4.47	6.36	3.26	1.88	2.25	3.40	CMS
Max	7.44	13.55	10.83	9.13	4.47	7.94	16.15	14.58	18.43	6.78	2.50	6.45	18.43	CMS
Min	1.60	2.50	1.75	1.75	1.90	1.90	2.05	2.20	3.40	1.60	0.91	1.30	0.91	CMS
Runoff	7.83	11.80	7.91	7.53	6.61	8.59	8.92	11.60	17.03	8.74	4.54	6.01	107.11	MCM

Momentary Peak 40.69 CMS. at 47.27 m. (MSL.) at 22.00 Hours , on Apr 6, 2008

Runoff Yield 37.85 Liters/Second/Square KM. Momentary Peak Yield 453.41 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Cheang at Ban Khlong Hak , Satun (X.238)

Lat 06 - 48 - 19 N Long 100 - 07 - 50 E

Location : on left bank at Ban Khlong Hak.

	Ban Khlong Hak	**Amphoe** Khuan Don	**Changwat** Satun
Drainge Area	77 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** +37.552 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 Float	-		
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 31 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

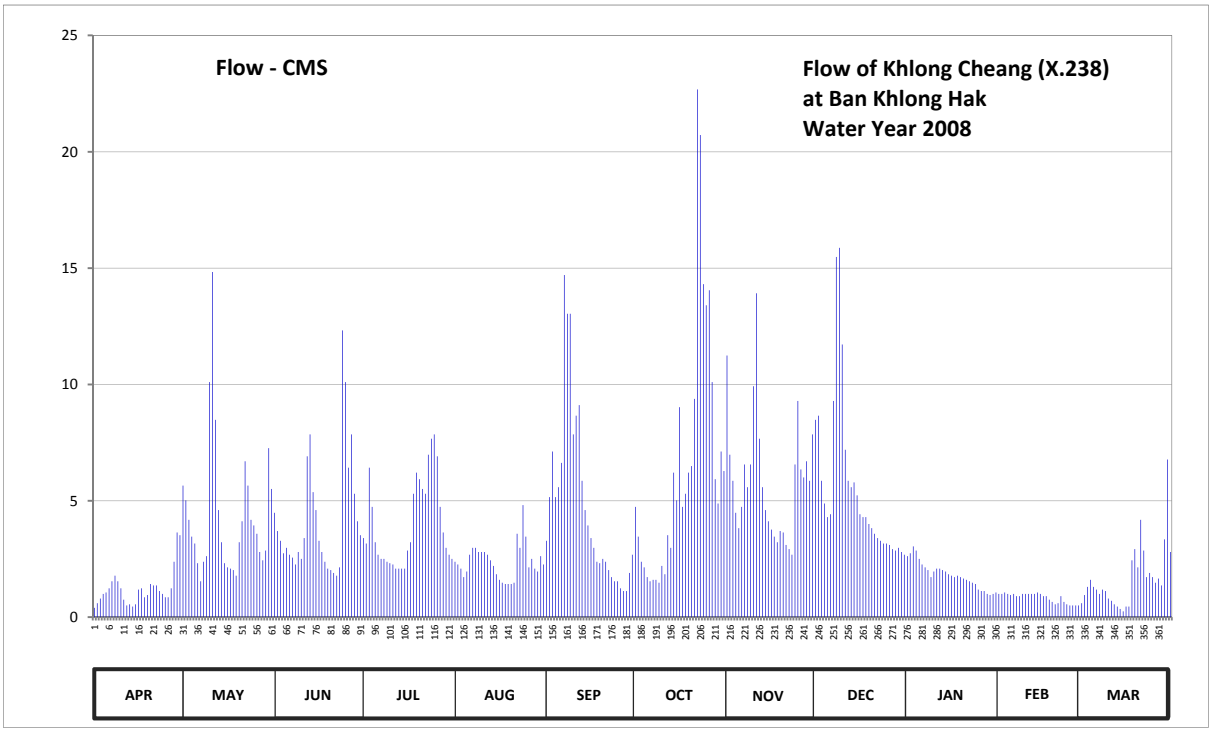
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	32.08	32.95	32.78	32.60	32.43	32.58	32.82	33.62	33.32	32.47	32.20	32.12	
2	32.12	32.86	32.65	32.56	32.41	32.88	32.61	33.14	33.34	32.49	32.20	32.19	
3	32.16	32.73	32.58	33.06	32.38	33.16	32.43	32.98	32.98	32.54	32.21	32.25	
4	32.20	32.61	32.49	32.82	32.32	32.88	32.39	32.78	32.84	32.51	32.20	32.30	
5	32.21	32.56	32.53	32.57	32.36	32.94	32.32	32.67	32.75	32.45	32.19	32.25	
6	32.24	32.42	32.48	32.48	32.48	33.09	32.29	32.82	32.77	32.41	32.20	32.23	
7	32.29	32.29	32.46	32.45	32.53	33.90	32.30	33.08	33.41	32.39	32.18	32.20	
8	32.33	32.43	32.41	32.45	32.53	33.77	32.30	32.94	33.96	32.37	32.18	32.23	
9	32.29	32.47	32.50	32.43	32.50	33.77	32.28	33.08	33.99	32.32	32.20	32.22	
10	32.24	33.50	32.45	32.42	32.50	33.25	32.40	33.48	33.66	32.36	32.20	32.16	
11	32.15	33.91	32.60	32.41	32.50	33.34	32.34	33.84	33.17	32.38	32.20	32.14	
12	32.10	33.32	33.13	32.38	32.48	33.39	32.62	33.23	32.98	32.38	32.20	32.11	
13	32.11	32.80	33.25	32.38	32.44	32.98	32.53	32.94	32.94	32.37	32.20	32.09	
14	32.09	32.57	32.91	32.38	32.40	32.80	33.03	32.80	32.97	32.36	32.21	32.07	
15	32.11	32.42	32.80	32.38	32.34	32.69	32.86	32.72	32.89	32.34	32.20	32.05	
16	32.23	32.39	32.58	32.51	32.30	32.60	33.38	32.66	32.77	32.33	32.18	32.09	
17	32.24	32.38	32.50	32.57	32.28	32.53	32.82	32.61	32.75	32.32	32.18	32.09	
18	32.17	32.37	32.43	32.90	32.27	32.43	32.90	32.57	32.75	32.33	32.15	32.44	
19	32.19	32.33	32.38	33.03	32.27	32.42	33.03	32.65	32.70	32.32	32.13	32.52	
20	32.27	32.57	32.37	32.99	32.27	32.45	33.07	32.64	32.67	32.31	32.11	32.39	
21	32.26	32.72	32.35	32.93	32.28	32.43	33.42	32.55	32.63	32.30	32.12	32.73	
22	32.26	33.10	32.33	32.90	32.63	32.37	34.44	32.52	32.60	32.29	32.18	32.51	
23	32.22	32.95	32.39	33.14	32.53	32.32	34.32	32.48	32.58	32.28	32.13	32.32	
24	32.20	32.73	33.71	33.23	32.83	32.29	33.87	33.08	32.56	32.27	32.11	32.35	
25	32.17	32.69	33.50	33.25	32.61	32.29	33.80	33.41	32.56	32.23	32.10	32.32	
26	32.17	32.63	33.06	33.13	32.39	32.24	33.85	33.05	32.55	32.22	32.10	32.28	
27	32.24	32.50	33.25	32.82	32.45	32.22	33.50	33.00	32.52	32.22	32.10	32.31	
28	32.43	32.44	32.90	32.64	32.38	32.22	32.99	33.10	32.51	32.20	32.10	32.26	
29	32.64	32.51	32.72	32.53	32.36	32.35	32.84	32.98	32.53	32.19		32.59	
30	32.62	33.18	32.62	32.48	32.47	32.48	33.16	33.25	32.50	32.20		33.11	
31		32.93		32.45	32.41		33.04		32.48	32.21		32.50	
Mean	32.23	32.72	32.70	32.69	32.43	32.77	32.97	32.96	32.89	32.33	32.17	32.30	
Max	32.64	33.91	33.71	33.25	32.83	33.90	34.44	33.84	33.99	32.54	32.21	33.11	34.44
Min	32.08	32.29	32.33	32.38	32.27	32.22	32.28	32.48	32.48	32.19	32.10	32.05	32.05

Annual Max Momentary Gage Height 34.60 m. (MSL.) , at 18.00 Hours , on Oct 22, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 31.59 m. (MSL.)

Left Bank Elevation 37.81 m. (MSL.) ,

Right Bank Elevation 37.77 m. (MSL.) , Drainage Are 77 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.40	5.65	4.48	3.40	2.38	3.28	4.74	11.24	8.48	2.62	1.00	0.60		
2	0.60	5.02	3.70	3.16	2.26	5.16	3.46	6.98	8.66	2.74	1.00	0.95		
3	0.80	4.18	3.28	6.42	2.08	7.12	2.38	5.86	5.86	3.04	1.06	1.30		
4	1.00	3.46	2.74	4.74	1.72	5.16	2.14	4.48	4.88	2.86	1.00	1.60		
5	1.06	3.16	2.98	3.22	1.96	5.58	1.72	3.82	4.30	2.50	0.95	1.30		
6	1.24	2.32	2.68	2.68	2.68	6.63	1.54	4.74	4.42	2.26	1.00	1.18		
7	1.54	1.54	2.56	2.50	2.98	14.70	1.60	6.56	9.29	2.14	0.90	1.00		
8	1.78	2.38	2.26	2.50	2.98	13.04	1.60	5.58	15.48	2.02	0.90	1.18		
9	1.54	2.62	2.80	2.38	2.80	13.04	1.48	6.56	15.87	1.72	1.00	1.12		
10	1.24	10.10	2.50	2.32	2.80	7.85	2.20	9.92	11.72	1.96	1.00	0.80		
11	0.75	14.83	3.40	2.26	2.80	8.66	1.84	13.92	7.19	2.08	1.00	0.70		
12	0.50	8.48	6.91	2.08	2.68	9.11	3.52	7.67	5.86	2.08	1.00	0.55		
13	0.55	4.60	7.85	2.08	2.44	5.86	2.98	5.58	5.58	2.02	1.00	0.45		
14	0.45	3.22	5.37	2.08	2.20	4.60	6.21	4.60	5.79	1.96	1.06	0.35		
15	0.55	2.32	4.60	2.08	1.84	3.94	5.02	4.12	5.23	1.84	1.00	0.25		
16	1.18	2.14	3.28	2.86	1.60	3.40	9.02	3.76	4.42	1.78	0.90	0.45		
17	1.24	2.08	2.80	3.22	1.48	2.98	4.74	3.46	4.30	1.72	0.90	0.45		
18	0.85	2.02	2.38	5.30	1.42	2.38	5.30	3.22	4.30	1.78	0.75	2.44		
19	0.95	1.78	2.08	6.21	1.42	2.32	6.21	3.70	4.00	1.72	0.65	2.92		
20	1.42	3.22	2.02	5.93	1.42	2.50	6.49	3.64	3.82	1.66	0.55	2.14		
21	1.36	4.12	1.90	5.51	1.48	2.38	9.38	3.10	3.58	1.60	0.60	4.18		
22	1.36	6.70	1.78	5.30	3.58	2.02	22.68	2.92	3.40	1.54	0.90	2.86		
23	1.12	5.65	2.14	6.98	2.98	1.72	20.72	2.68	3.28	1.48	0.65	1.72		
24	1.00	4.18	12.32	7.67	4.81	1.54	14.31	6.56	3.16	1.42	0.55	1.90		
25	0.85	3.94	10.10	7.85	3.46	1.54	13.40	9.29	3.16	1.18	0.50	1.72		
26	0.85	3.58	6.42	6.91	2.14	1.24	14.05	6.35	3.10	1.12	0.50	1.48		
27	1.24	2.80	7.85	4.74	2.50	1.12	10.10	6.00	2.92	1.12	0.50	1.66		
28	2.38	2.44	5.30	3.64	2.08	1.12	5.93	6.70	2.86	1.00	0.50	1.36		
29	3.64	2.86	4.12	2.98	1.96	1.90	4.88	5.86	2.98	0.95		3.34		
30	3.52	7.26	3.52	2.68	2.62	2.68	7.12	7.85	2.80	1.00		6.77		
31		5.51		2.50	2.26		6.28		2.68	1.06		2.80		
Total	36.96	134.16	126.12	124.18	73.81	144.57	203.04	176.72	173.37	55.97	23.32	51.52	1323.74	CMSDAY
Mean	1.23	4.33	4.20	4.01	2.38	4.82	6.55	5.89	5.59	1.81	0.83	1.66	3.63	CMS
Max	3.64	14.83	12.32	7.85	4.81	14.70	22.68	13.92	15.87	3.04	1.06	6.77	22.68	CMS
Min	0.40	1.54	1.78	2.08	1.42	1.12	1.48	2.68	2.68	0.95	0.50	0.25	0.25	CMS
Runoff	3.19	11.59	10.90	10.73	6.38	12.49	17.54	15.27	14.98	4.84	2.01	4.45	114.37	MCM

Momentary Peak 25.40 CMS. at 34.60 m. (MSL.) at 18.00 Hours , on Oct 22, 2008

Runoff Yield 46.72 Liters/Second/Square KM. Momentary Peak Yield 327.18 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 mean of 24 readings		
Period of Available Gage Records	2004 to date		
Rating Operation			
Period of Rating	2004 to date		
Rated by Float	-		
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 32 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

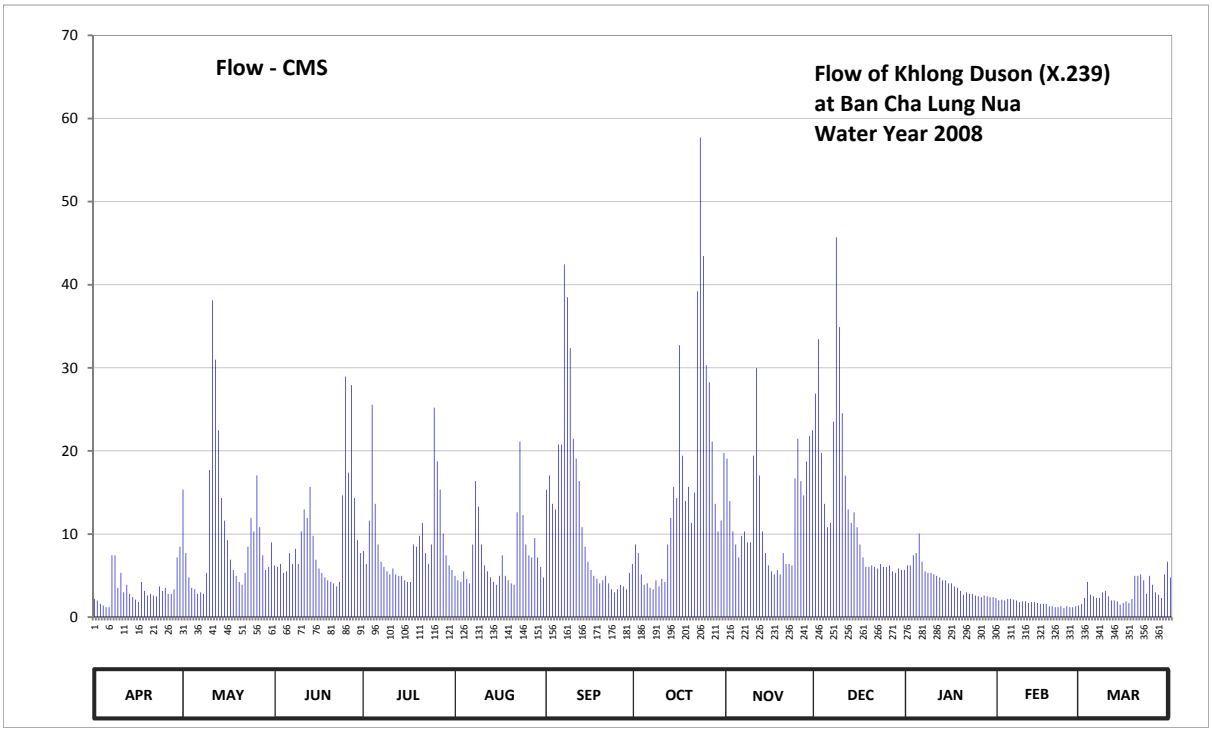
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	13.54	14.11	13.79	13.86	13.72	14.11	13.89	14.22	14.45	13.79	13.52	13.48	
2	13.52	13.85	13.78	13.80	13.69	14.16	13.85	14.07	14.64	13.79	13.53	13.55	
3	13.48	13.71	13.80	14.00	13.68	14.06	13.73	13.95	14.24	13.84	13.52	13.68	
4	13.46	13.64	13.74	14.41	13.75	14.04	13.66	13.89	14.06	13.85	13.54	13.59	
5	13.44	13.63	13.75	14.06	13.70	14.27	13.67	13.83	13.97	13.94	13.54	13.57	
6	13.44	13.60	13.85	13.89	13.67	14.27	13.64	13.93	13.99	13.81	13.53	13.55	
7	13.84	13.61	13.80	13.81	13.89	14.93	13.63	13.95	14.35	13.75	13.52	13.55	
8	13.84	13.60	13.87	13.78	14.14	14.78	13.69	13.90	15.06	13.74	13.50	13.61	
9	13.64	13.74	13.80	13.75	14.05	14.61	13.65	13.90	14.68	13.74	13.51	13.62	
10	13.74	14.18	13.95	13.73	13.89	14.29	13.70	14.23	14.38	13.73	13.51	13.57	
11	13.61	14.77	14.04	13.77	13.79	14.22	13.68	14.54	14.16	13.72	13.49	13.52	
12	13.66	14.57	14.01	13.73	13.75	14.14	13.89	14.16	14.04	13.71	13.50	13.52	
13	13.60	14.32	14.12	13.72	13.71	13.97	14.01	13.95	13.99	13.69	13.50	13.51	
14	13.56	14.08	13.93	13.72	13.68	13.88	14.12	13.85	14.03	13.69	13.49	13.47	
15	13.53	14.00	13.82	13.69	13.66	13.81	14.08	13.79	13.97	13.67	13.48	13.49	
16	13.50	13.91	13.77	13.68	13.72	13.76	14.62	13.75	13.89	13.67	13.48	13.51	
17	13.68	13.82	13.74	13.68	13.84	13.72	14.23	13.73	13.83	13.65	13.48	13.49	
18	13.62	13.76	13.71	13.89	13.72	13.70	14.07	13.76	13.78	13.64	13.45	13.54	
19	13.58	13.72	13.69	13.88	13.69	13.67	14.12	13.73	13.78	13.62	13.45	13.72	
20	13.60	13.68	13.68	13.93	13.67	13.69	13.99	13.85	13.79	13.59	13.44	13.72	
21	13.58	13.66	13.67	13.99	13.66	13.72	14.10	13.80	13.78	13.61	13.44	13.73	
22	13.57	13.74	13.65	13.85	14.03	13.67	14.80	13.80	13.77	13.60	13.45	13.69	
23	13.65	13.88	13.68	13.80	14.28	13.63	15.54	13.79	13.80	13.60	13.43	13.60	
24	13.62	14.01	14.09	13.89	14.02	13.61	14.97	14.15	13.78	13.58	13.45	13.72	
25	13.64	13.95	14.51	14.40	13.89	13.63	14.55	14.29	13.78	13.57	13.44	13.66	
26	13.60	14.16	14.17	14.21	13.84	13.66	14.49	14.14	13.79	13.56	13.44	13.61	
27	13.60	13.97	14.48	14.11	13.83	13.65	14.28	14.09	13.75	13.58	13.45	13.59	
28	13.63	13.84	14.08	13.94	13.92	13.63	14.06	14.21	13.74	13.57	13.46	13.55	
29	13.83	13.76	13.91	13.84	13.83	13.74	13.95	14.30	13.77	13.56		13.73	
30	13.88	13.78	13.85	13.79	13.78	13.80	14.00	14.32	13.76	13.56		13.81	
31		13.90		13.76	13.71		14.24		13.76	13.55		13.71	
Mean	13.62	13.90	13.89	13.88	13.81	13.96	14.09	14.00	14.02	13.68	13.48	13.60	
Max	13.88	14.77	14.51	14.41	14.28	14.93	15.54	14.54	15.06	13.94	13.54	13.81	15.54
Min	13.44	13.60	13.65	13.68	13.66	13.61	13.63	13.73	13.74	13.55	13.43	13.47	13.43

Annual Max Momentary Gage Height 15.80 m. (MSL.) , at 11.00 Hours , on Oct 23, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 12.94 m. (MSL.)

Left Bank Elevation 17.02 m. (MSL.) ,

Right Bank Elevation 17.01 m. (MSL.) , Drainage Are 267 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.20	15.34	6.22	7.96	4.96	15.34	8.74	19.08	26.90	6.22	2.00	1.60		
2	2.00	7.70	6.04	6.40	4.42	17.04	7.70	13.98	33.44	6.22	2.10	2.30		
3	1.60	4.78	6.40	11.60	4.24	13.64	5.14	10.30	19.76	7.44	2.00	4.24		
4	1.40	3.52	5.32	25.54	5.50	12.96	3.88	8.74	13.64	7.70	2.20	2.70		
5	1.20	3.34	5.50	13.64	4.60	20.78	4.06	7.18	10.82	10.04	2.20	2.50		
6	1.20	2.80	7.70	8.74	4.06	20.78	3.52	9.78	11.34	6.66	2.10	2.30		
7	7.44	2.98	6.40	6.66	8.74	42.45	3.34	10.30	23.50	5.50	2.00	2.30		
8	7.44	2.80	8.22	6.04	16.36	38.48	4.42	9.00	45.70	5.32	1.80	2.98		
9	3.52	5.32	6.40	5.50	13.30	32.36	3.70	9.00	34.88	5.32	1.90	3.16		
10	5.32	17.72	10.30	5.14	8.74	21.46	4.60	19.42	24.52	5.14	1.90	2.50		
11	2.98	38.12	12.96	5.86	6.22	19.08	4.24	29.96	17.04	4.96	1.70	2.00		
12	3.88	30.98	11.94	5.14	5.50	16.36	8.74	17.04	12.96	4.78	1.80	2.00		
13	2.80	22.48	15.68	4.96	4.78	10.82	11.94	10.30	11.34	4.42	1.80	1.90		
14	2.40	14.32	9.78	4.96	4.24	8.48	15.68	7.70	12.62	4.42	1.70	1.50		
15	2.10	11.60	6.92	4.42	3.88	6.66	14.32	6.22	10.82	4.06	1.60	1.70		
16	1.80	9.26	5.86	4.24	4.96	5.68	32.72	5.50	8.74	4.06	1.60	1.90		
17	4.24	6.92	5.32	4.24	7.44	4.96	19.42	5.14	7.18	3.70	1.60	1.70		
18	3.16	5.68	4.78	8.74	4.96	4.60	13.98	5.68	6.04	3.52	1.30	2.20		
19	2.60	4.96	4.42	8.48	4.42	4.06	15.68	5.14	6.04	3.16	1.30	4.96		
20	2.80	4.24	4.24	9.78	4.06	4.42	11.34	7.70	6.22	2.70	1.20	4.96		
21	2.60	3.88	4.06	11.34	3.88	4.96	15.00	6.40	6.04	2.98	1.20	5.14		
22	2.50	5.32	3.70	7.70	12.62	4.06	39.20	6.40	5.86	2.80	1.30	4.42		
23	3.70	8.48	4.24	6.40	21.12	3.34	57.70	6.22	6.40	2.80	1.10	2.80		
24	3.16	11.94	14.66	8.74	12.28	2.98	43.45	16.70	6.04	2.60	1.30	4.96		
25	3.52	10.30	28.94	25.20	8.74	3.34	30.30	21.46	6.04	2.50	1.20	3.88		
26	2.80	17.04	17.38	18.74	7.44	3.88	28.26	16.36	6.22	2.40	1.20	2.98		
27	2.80	10.82	27.92	15.34	7.18	3.70	21.12	14.66	5.50	2.60	1.30	2.70		
28	3.34	7.44	14.32	10.04	9.52	3.34	13.64	18.74	5.32	2.50	1.40	2.30		
29	7.18	5.68	9.26	7.44	7.18	5.32	10.30	21.80	5.86	2.40		5.14		
30	8.48	6.04	7.70	6.22	6.04	6.40	11.60	22.48	5.68	2.40		6.66		
31		9.00		5.68	4.78		19.76		5.68	2.30		4.78		
Total	102.16	310.80	282.58	280.88	226.16	361.73	487.49	368.38	408.14	133.62	45.80	97.16	3104.90	CMSDAY
Mean	3.41	10.03	9.42	9.06	7.30	12.06	15.73	12.28	13.17	4.31	1.64	3.13	8.51	CMS
Max	8.48	38.12	28.94	25.54	21.12	42.45	57.70	29.96	45.70	10.04	2.20	6.66	57.70	CMS
Min	1.20	2.80	3.70	4.24	3.88	2.98	3.34	5.14	5.32	2.30	1.10	1.50	1.10	CMS
Runoff	8.83	26.85	24.41	24.27	19.54	31.25	42.12	31.83	35.26	11.54	3.96	8.39	268.26	MCM

Momentary Peak 64.40 CMS. at 15.80 m. (MSL.) at 11.00 Hours , on Oct 23, 2008

Runoff Yield 31.79 Liters/Second/Square KM. Momentary Peak Yield 240.66 Liters/Second/Square KM.

WATER YEAR : 2008

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
Drainge 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 Float	-		
Rated by Current Meter	2006 to date		
Stability of Channel Regimes	Stable because of backwater effect.		
Overbank Flow Conditions	No overbank flow.		
General Description	Records fair. Stage-discharge relation defined by 25 discharge measurements made in 2008.		

Gage Height in Meter (MSL.) Water Year April 1, 2008 to March 31, 2009

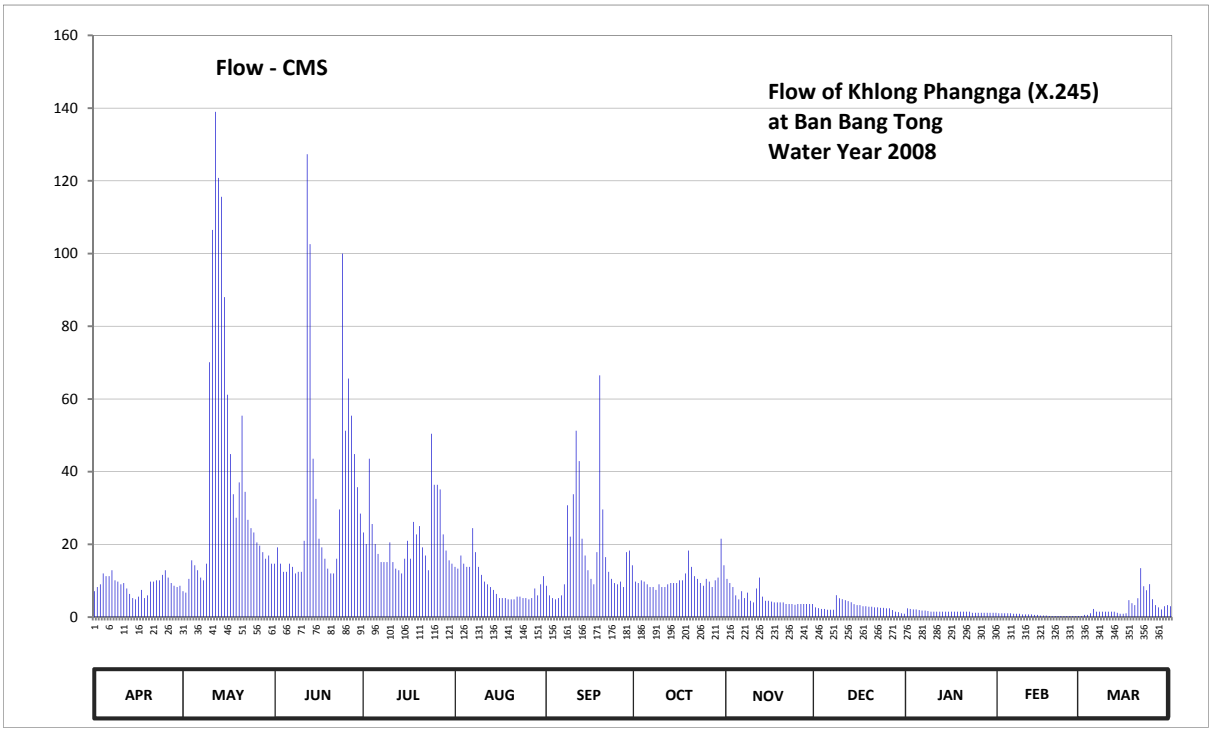
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	9.47	9.47	9.66	9.84	9.64	9.51	9.54	9.56	9.32	9.16	9.07	9.02	
2	9.50	9.46	9.76	9.78	9.63	9.44	9.53	9.53	9.31	9.15	9.07	9.04	
3	9.52	9.56	9.66	10.17	9.71	9.42	9.55	9.50	9.30	9.14	9.07	9.04	
4	9.60	9.68	9.61	9.88	9.66	9.41	9.54	9.44	9.30	9.14	9.07	9.07	
5	9.58	9.65	9.61	9.78	9.64	9.42	9.52	9.41	9.29	9.13	9.07	9.15	
6	9.58	9.62	9.66	9.72	9.64	9.44	9.50	9.47	9.29	9.12	9.06	9.10	
7	9.62	9.57	9.64	9.67	9.86	9.52	9.50	9.42	9.29	9.12	9.06	9.10	
8	9.55	9.55	9.60	9.67	9.73	9.97	9.48	9.46	9.31	9.11	9.06	9.10	
9	9.54	9.66	9.61	9.67	9.64	9.82	9.52	9.40	9.28	9.10	9.05	9.10	
10	9.52	10.49	9.61	9.79	9.59	10.02	9.50	9.38	9.27	9.10	9.05	9.10	
11	9.53	10.85	9.80	9.67	9.54	10.27	9.50	9.49	9.26	9.10	9.05	9.10	
12	9.49	11.10	11.01	9.63	9.52	10.16	9.52	9.57	9.25	9.10	9.05	9.10	
13	9.45	10.96	10.82	9.62	9.50	9.81	9.53	9.43	9.24	9.10	9.04	9.08	
14	9.42	10.92	10.17	9.60	9.48	9.71	9.53	9.40	9.22	9.10	9.04	9.06	
15	9.41	10.68	10.00	9.69	9.45	9.62	9.53	9.40	9.21	9.10	9.03	9.06	
16	9.43	10.39	9.81	9.80	9.42	9.56	9.55	9.39	9.21	9.10	9.03	9.07	
17	9.48	10.19	9.76	9.69	9.42	9.52	9.55	9.38	9.20	9.10	9.03	9.26	
18	9.42	10.02	9.69	9.89	9.42	9.73	9.60	9.38	9.20	9.10	9.02	9.23	
19	9.44	9.91	9.63	9.83	9.41	10.45	9.74	9.38	9.19	9.10	9.02	9.21	
20	9.54	10.07	9.60	9.87	9.41	9.95	9.64	9.38	9.19	9.10	9.02	9.28	
21	9.54	10.32	9.60	9.76	9.41	9.70	9.58	9.36	9.18	9.10	9.02	9.58	
22	9.55	10.03	9.69	9.71	9.43	9.61	9.56	9.36	9.18	9.10	9.02	9.40	
23	9.55	9.90	9.95	9.62	9.43	9.56	9.53	9.36	9.17	9.08	9.02	9.36	
24	9.59	9.86	10.80	10.26	9.42	9.53	9.51	9.35	9.17	9.08	9.02	9.42	
25	9.62	9.84	10.27	10.06	9.42	9.52	9.56	9.36	9.16	9.08	9.02	9.27	
26	9.57	9.79	10.44	10.06	9.41	9.54	9.54	9.36	9.16	9.08	9.02	9.21	
27	9.53	9.77	10.32	10.04	9.42	9.50	9.50	9.36	9.13	9.08	9.02	9.18	
28	9.51	9.73	10.19	9.83	9.49	9.73	9.55	9.36	9.10	9.08	9.02	9.14	
29	9.50	9.69	10.05	9.74	9.44	9.74	9.57	9.36	9.09	9.08		9.20	
30	9.51	9.71	9.93	9.68	9.52	9.65	9.81	9.36	9.07	9.08		9.21	
31		9.66		9.66	9.58		9.65		9.06	9.08		9.20	
Mean	9.52	10.00	9.93	9.80	9.53	9.69	9.56	9.41	9.21	9.10	9.04	9.18	
Max	9.62	11.10	11.01	10.26	9.86	10.45	9.81	9.57	9.32	9.16	9.07	9.58	11.10
Min	9.41	9.46	9.60	9.60	9.41	9.41	9.48	9.35	9.06	9.08	9.02	9.02	9.02

Annual Max Momentary Gage Height 11.26 m. (MSL.) , at 18.00 Hours , on May 12, 2008

Zero Gage at Bottom Elevation 0.00 m. (MSL.) , River Bed 8.73 m. (MSL)

Left Bank Elevation 18.38 m. (MSL.) ,

Right Bank Elevation 18.38 m. (MSL.) , Drainage Are 242 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.13	7.13	14.70	23.30	13.80	8.63	9.75	10.50	2.70	2.40	1.05	0.30		
2	8.25	6.75	19.20	20.10	13.35	6.00	9.38	9.38	2.48	2.25	1.05	0.60		
3	9.00	10.50	14.70	43.55	16.95	5.25	10.13	8.25	2.25	2.10	1.05	0.60		
4	12.00	15.60	12.45	25.60	14.70	4.88	9.75	6.00	2.25	2.10	1.05	1.05		
5	11.25	14.25	12.45	20.10	13.80	5.25	9.00	4.88	2.03	1.95	1.05	2.25		
6	11.25	12.90	14.70	17.40	13.80	6.00	8.25	7.13	2.03	1.80	0.90	1.50		
7	12.90	10.88	13.80	15.15	24.45	9.00	8.25	5.25	2.03	1.80	0.90	1.50		
8	10.13	10.13	12.00	15.15	17.85	30.78	7.50	6.75	6.03	1.65	0.90	1.50		
9	9.75	14.70	12.45	15.15	13.80	22.15	9.00	4.50	5.20	1.50	0.75	1.50		
10	9.00	70.10	12.45	20.55	11.63	33.80	8.25	4.05	4.93	1.50	0.75	1.50		
11	9.38	106.50	21.00	15.15	9.75	51.28	8.25	7.88	4.65	1.50	0.75	1.50		
12	7.88	139.00	127.30	13.35	9.00	42.90	9.00	10.88	4.38	1.50	0.75	1.50		
13	6.38	120.80	102.60	12.90	8.25	21.58	9.38	5.63	4.10	1.50	0.60	1.20		
14	5.25	115.60	43.55	12.00	7.50	16.95	9.38	4.50	3.55	1.50	0.60	0.90		
15	4.88	88.00	32.50	16.05	6.38	12.90	9.38	4.50	3.28	1.50	0.45	0.90		
16	5.63	61.18	21.58	21.00	5.25	10.50	10.13	4.28	3.28	1.50	0.45	1.05		
17	7.50	44.85	19.20	16.05	5.25	9.00	10.13	4.05	3.00	1.50	0.45	4.65		
18	5.25	33.80	16.05	26.18	5.25	17.85	12.00	4.05	3.00	1.50	0.30	3.83		
19	6.00	27.33	13.35	22.73	4.88	66.50	18.30	4.05	2.85	1.50	0.30	3.28		
20	9.75	37.05	12.00	25.03	4.88	29.63	13.80	4.05	2.85	1.50	0.30	5.20		
21	9.75	55.40	12.00	19.20	4.88	16.50	11.25	3.60	2.70	1.50	0.30	13.45		
22	10.13	34.45	16.05	16.95	5.63	12.45	10.50	3.60	2.70	1.50	0.30	8.50		
23	10.13	26.75	29.63	12.90	5.63	10.50	9.38	3.60	2.55	1.20	0.30	7.40		
24	11.63	24.45	100.00	50.45	5.25	9.38	8.63	3.38	2.55	1.20	0.30	9.05		
25	12.90	23.30	51.28	36.40	5.25	9.00	10.50	3.60	2.40	1.20	0.30	4.93		
26	10.88	20.55	65.60	36.40	4.88	9.75	9.75	3.60	2.40	1.20	0.30	3.28		
27	9.38	19.65	55.40	35.10	5.25	8.25	8.25	3.60	1.95	1.20	0.30	2.70		
28	8.63	17.85	44.85	22.73	7.88	17.85	10.13	3.60	1.50	1.20	0.30	2.10		
29	8.25	16.05	35.75	18.30	6.00	18.30	10.88	3.60	1.35	1.20		3.00		
30	8.63	16.95	28.48	15.60	9.00	14.25	21.58	3.60	1.05	1.20		3.28		
31		14.70		14.70	11.25		14.25		0.90	1.20		3.00		
Total	268.87	1217.15	987.07	675.22	291.42	537.06	324.11	156.34	88.92	47.85	16.80	97.00	4707.81	CMSDAY
Mean	8.96	39.26	32.90	21.78	9.40	17.90	10.46	5.21	2.87	1.54	0.60	3.13	12.90	CMS
Max	12.90	139.00	127.30	50.45	24.45	66.50	21.58	10.88	6.03	2.40	1.05	13.45	139.00	CMS
Min	4.88	6.75	12.00	12.00	4.88	4.88	7.50	3.38	0.90	1.20	0.30	0.30	0.30	CMS
Runoff	23.23	105.16	85.28	58.34	25.18	46.40	28.00	13.51	7.68	4.13	1.45	8.38	406.75	MCM

Momentary Peak 161.00 CMS. at 11.26 m. (MSL.) at 18.00 Hours , on May 12, 2008

Runoff Yield 53.22 Liters/Second/Square KM. Momentary Peak Yield 664.33 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

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
Drainge Area	99 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 top staff gage.	**Elevation**	+6.451 m. (A.D.)
Gage Reading Frequency	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 Float	-		
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 31 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

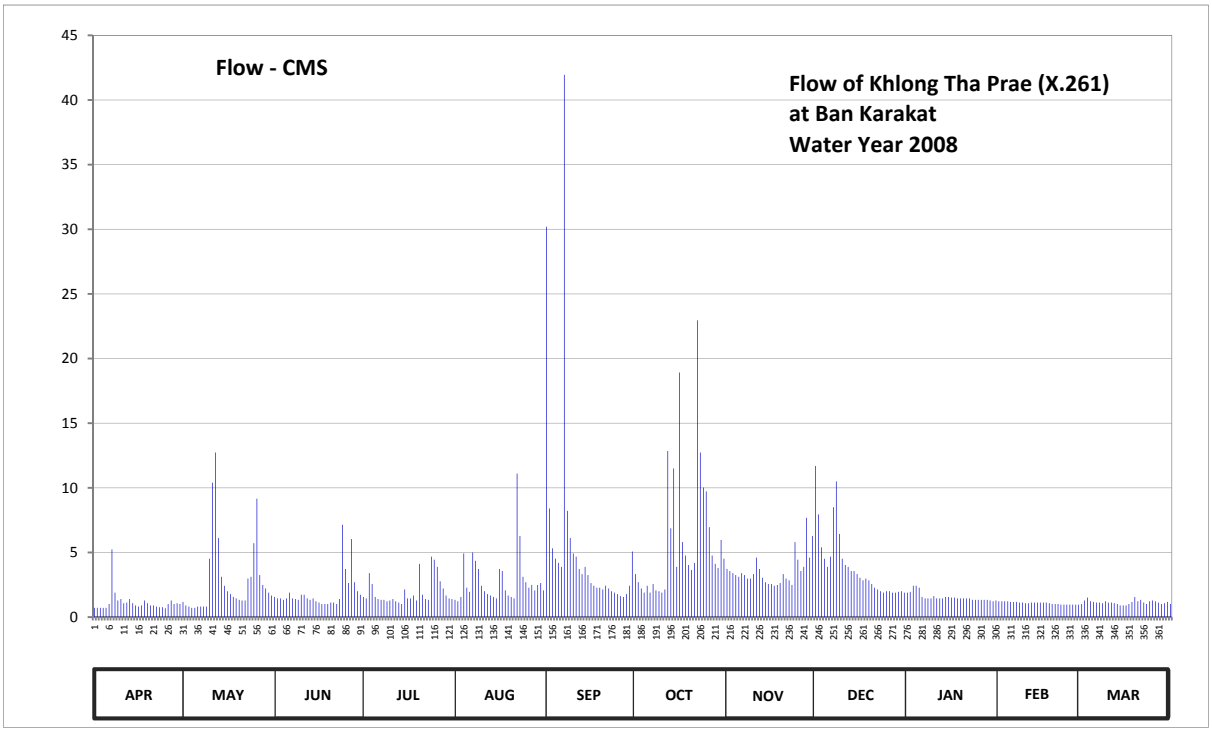
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.36	0.45	0.52	0.52	0.48	3.07	0.79	0.84	1.74	0.58	0.46	0.42	
2	0.36	0.40	0.50	0.50	0.46	1.40	0.70	0.82	1.35	0.59	0.46	0.47	
3	0.36	0.38	0.50	0.80	0.52	1.04	0.63	0.80	1.05	0.66	0.46	0.51	
4	0.36	0.36	0.48	0.68	0.99	0.94	0.58	0.78	0.94	0.66	0.46	0.46	
5	0.36	0.36	0.50	0.52	0.64	0.90	0.66	0.76	0.86	0.64	0.45	0.45	
6	0.42	0.38	0.58	0.49	0.59	0.86	0.58	0.80	0.96	0.52	0.45	0.44	
7	1.03	0.38	0.50	0.48	1.00	3.55	0.68	0.78	1.41	0.50	0.45	0.44	
8	0.58	0.38	0.49	0.48	0.92	1.38	0.61	0.74	1.62	0.50	0.44	0.43	
9	0.47	0.38	0.48	0.46	0.84	1.14	0.60	0.74	1.18	0.50	0.44	0.46	
10	0.49	0.94	0.55	0.47	0.66	0.99	0.58	0.79	0.94	0.53	0.43	0.44	
11	0.43	1.61	0.55	0.49	0.60	0.96	0.62	0.95	0.88	0.50	0.43	0.44	
12	0.44	1.84	0.50	0.46	0.56	0.84	1.85	0.84	0.86	0.50	0.44	0.43	
13	0.49	1.14	0.48	0.44	0.54	0.79	1.23	0.75	0.82	0.50	0.44	0.42	
14	0.43	0.76	0.50	0.42	0.52	0.86	1.72	0.70	0.82	0.52	0.44	0.40	
15	0.40	0.66	0.46	0.62	0.50	0.78	0.86	0.68	0.79	0.52	0.44	0.40	
16	0.38	0.60	0.44	0.50	0.84	0.69	2.37	0.68	0.75	0.51	0.44	0.40	
17	0.40	0.56	0.42	0.50	0.82	0.66	1.10	0.66	0.72	0.51	0.44	0.42	
18	0.47	0.52	0.42	0.54	0.61	0.64	0.97	0.67	0.74	0.50	0.43	0.45	
19	0.43	0.50	0.42	0.47	0.54	0.64	0.88	0.69	0.72	0.50	0.42	0.52	
20	0.40	0.48	0.44	0.89	0.52	0.62	0.83	0.79	0.68	0.50	0.42	0.46	
21	0.40	0.47	0.44	0.55	0.50	0.66	0.90	0.74	0.64	0.50	0.42	0.48	
22	0.38	0.47	0.42	0.49	1.68	0.63	2.66	0.72	0.62	0.50	0.41	0.44	
23	0.37	0.74	0.49	0.48	1.16	0.60	1.84	0.67	0.60	0.48	0.41	0.42	
24	0.37	0.76	1.26	0.96	0.76	0.58	1.57	1.10	0.58	0.48	0.41	0.46	
25	0.35	1.09	0.84	0.93	0.70	0.56	1.54	0.93	0.60	0.48	0.41	0.47	
26	0.42	1.48	0.69	0.86	0.64	0.53	1.24	0.82	0.60	0.48	0.41	0.46	
27	0.47	0.78	1.13	0.71	0.67	0.52	0.97	0.86	0.58	0.48	0.41	0.44	
28	0.42	0.67	0.70	0.63	0.61	0.56	0.89	1.32	0.58	0.48	0.41	0.42	
29	0.43	0.63	0.60	0.54	0.67	0.66	0.85	0.95	0.59	0.47		0.43	
30	0.42	0.58	0.55	0.50	0.69	1.01	1.12	1.16	0.60	0.46		0.45	
31		0.54		0.49	0.61		0.94		0.58	0.47		0.42	
Mean	0.44	0.69	0.56	0.58	0.70	0.97	1.08	0.82	0.85	0.52	0.43	0.44	
Max	1.03	1.84	1.26	0.96	1.68	3.55	2.66	1.32	1.74	0.66	0.46	0.52	3.55
Min	0.35	0.36	0.42	0.42	0.46	0.52	0.58	0.66	0.58	0.46	0.41	0.40	0.35

Annual Max Momentary Gage Height 3.95 m. (A.D.) , at 09.00 Hours , on Sep 7, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.11 m. (A.D.)

Left Bank Elevation 6.09 m. (A.D.) ,

Right Bank Elevation 6.07 m. (A.D.) , Drainage Are 99 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.72	1.18	1.56	1.56	1.34	30.20	3.33	3.72	11.70	1.89	1.23	1.01		
2	0.72	0.90	1.45	1.45	1.23	8.40	2.70	3.56	7.95	1.95	1.23	1.29		
3	0.72	0.81	1.45	3.40	1.56	5.32	2.21	3.40	5.40	2.42	1.23	1.51		
4	0.72	0.72	1.34	2.56	4.92	4.52	1.89	3.26	4.52	2.42	1.23	1.23		
5	0.72	0.72	1.45	1.56	2.28	4.20	2.42	3.12	3.88	2.28	1.18	1.18		
6	1.01	0.81	1.89	1.40	1.95	3.88	1.89	3.40	4.68	1.56	1.18	1.12		
7	5.24	0.81	1.45	1.34	5.00	41.95	2.56	3.26	8.50	1.45	1.18	1.12		
8	1.89	0.81	1.40	1.34	4.36	8.22	2.07	2.98	10.50	1.45	1.12	1.07		
9	1.29	0.81	1.34	1.23	3.72	6.12	2.00	2.98	6.44	1.45	1.12	1.23		
10	1.40	4.52	1.73	1.29	2.42	4.92	1.89	3.33	4.52	1.62	1.07	1.12		
11	1.07	10.40	1.73	1.40	2.00	4.68	2.14	4.60	4.04	1.45	1.07	1.12		
12	1.12	12.74	1.45	1.23	1.78	3.72	12.85	3.72	3.88	1.45	1.12	1.07		
13	1.40	6.12	1.34	1.12	1.67	3.33	6.87	3.05	3.56	1.45	1.12	1.01		
14	1.07	3.12	1.45	1.01	1.56	3.88	11.50	2.70	3.56	1.56	1.12	0.90		
15	0.90	2.42	1.23	2.14	1.45	3.26	3.88	2.56	3.33	1.56	1.12	0.90		
16	0.81	2.00	1.12	1.45	3.72	2.63	18.93	2.56	3.05	1.51	1.12	0.90		
17	0.90	1.78	1.01	1.45	3.56	2.42	5.80	2.42	2.84	1.51	1.12	1.01		
18	1.29	1.56	1.01	1.67	2.07	2.28	4.76	2.49	2.98	1.45	1.07	1.18		
19	1.07	1.45	1.01	1.29	1.67	2.28	4.04	2.63	2.84	1.45	1.01	1.56		
20	0.90	1.34	1.12	4.12	1.56	2.14	3.64	3.33	2.56	1.45	1.01	1.23		
21	0.90	1.29	1.12	1.73	1.45	2.42	4.20	2.98	2.28	1.45	1.01	1.34		
22	0.81	1.29	1.01	1.40	11.10	2.21	22.96	2.84	2.14	1.45	0.96	1.12		
23	0.77	2.98	1.40	1.34	6.28	2.00	12.74	2.49	2.00	1.34	0.96	1.01		
24	0.77	3.12	7.14	4.68	3.12	1.89	10.02	5.80	1.89	1.34	0.96	1.23		
25	0.68	5.72	3.72	4.44	2.70	1.78	9.73	4.44	2.00	1.34	0.96	1.29		
26	1.01	9.16	2.63	3.88	2.28	1.62	6.96	3.56	2.00	1.34	0.96	1.23		
27	1.29	3.26	6.04	2.77	2.49	1.56	4.76	3.88	1.89	1.34	0.96	1.12		
28	1.01	2.49	2.70	2.21	2.07	1.78	4.12	7.68	1.89	1.34	0.96	1.01		
29	1.07	2.21	2.00	1.67	2.49	2.42	3.80	4.60	1.95	1.29		1.07		
30	1.01	1.89	1.73	1.45	2.63	5.08	5.96	6.28	2.00	1.23		1.18		
31		1.67		1.40	2.07		4.52		1.89	1.29		1.01		
Total	34.28	90.10	57.02	60.98	88.50	171.11	187.14	107.62	122.66	48.08	30.38	35.37	1033.24	CMSDAY
Mean	1.14	2.91	1.90	1.97	2.85	5.70	6.04	3.59	3.96	1.55	1.09	1.14	2.83	CMS
Max	5.24	12.74	7.14	4.68	11.10	41.95	22.96	7.68	11.70	2.42	1.23	1.56	41.95	CMS
Min	0.68	0.72	1.01	1.01	1.23	1.56	1.89	2.42	1.89	1.23	0.96	0.90	0.68	CMS
Runoff	2.96	7.78	4.93	5.27	7.65	14.78	16.17	9.30	10.60	4.15	2.62	3.06	89.27	MCM

Momentary Peak 54.18 CMS. at 3.95 m. (A.D.) at 09.00 Hours , on Sep 7, 2008

Runoff Yield 28.59 Liters/Second/Square KM. Momentary Peak Yield 547.27 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Tha Prae at Ban Na Kaeo , Satun (X.262)

Lat 06 - 49 - 15 N Long 99 - 59 - 45 E

Location : on left bank at Ban Na Kaeo.

	Ban Na Kaeo	**Amphoe** Khuan Kalong	**Changwat** Satun
Drainge Area	208 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**	+14.092 m. (A.D.)
Gage Reading Frequency	5-time daily readings at 06.00, 09.00, 12.00, 15.00 and 18.00 hours.		
Basis of Mean Daily Gage Height	Arithmetic means of 5 readings		
Period of Available Gage Records	2007 to date		
Rating Operation			
Period of Rating	2007 to date		
Rated by Float	-		
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 31 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

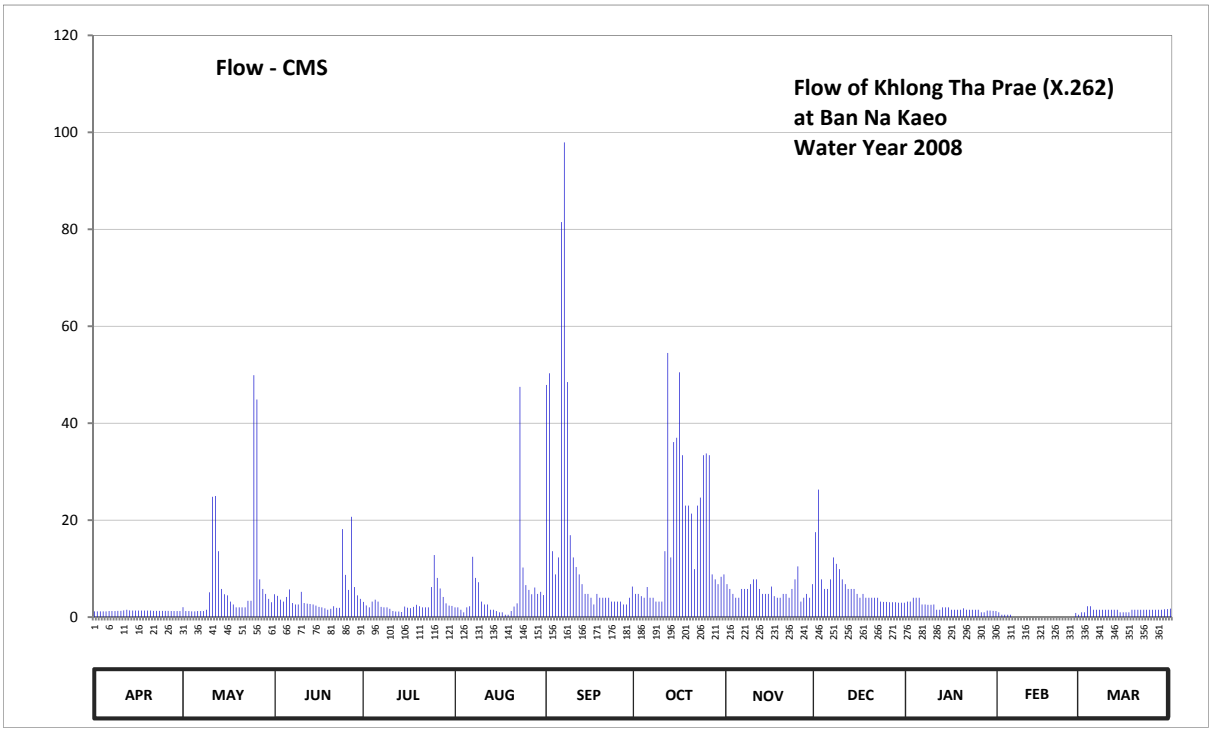
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	0.84	1.01	1.39	1.19	1.00	4.17	1.40	1.60	2.46	1.20	0.80	0.80	
2	0.84	0.85	1.35	1.07	1.00	4.29	1.40	1.50	3.00	1.20	0.70	0.80	
3	0.84	0.85	1.25	1.00	0.90	2.20	1.34	1.40	1.70	1.30	0.70	1.04	
4	0.84	0.84	1.20	1.20	0.80	1.80	1.30	1.30	1.50	1.30	0.70	1.04	
5	0.84	0.84	1.32	1.25	1.00	2.10	1.54	1.30	1.50	1.30	0.70	0.90	
6	0.85	0.85	1.49	1.20	1.04	5.80	1.30	1.50	1.70	1.10	0.60	0.90	
7	0.85	0.85	1.15	1.02	2.11	6.53	1.30	1.50	2.10	1.10	0.60	0.90	
8	0.85	0.85	1.10	1.00	1.73	4.20	1.20	1.50	2.00	1.09	0.60	0.90	
9	0.86	0.90	1.10	1.00	1.64	2.42	1.20	1.60	1.90	1.09	0.60	0.90	
10	0.86	1.43	1.44	0.94	1.20	2.10	1.20	1.70	1.70	1.10	0.60	0.90	
11	0.88	2.91	1.15	0.85	1.10	1.94	2.20	1.70	1.60	0.90	0.60	0.90	
12	0.90	2.92	1.13	0.83	1.10	1.80	4.50	1.50	1.50	0.90	0.60	0.90	
13	0.88	2.20	1.12	0.83	0.90	1.60	2.10	1.40	1.50	1.00	0.60	0.90	
14	0.87	1.50	1.10	0.81	0.90	1.40	3.55	1.40	1.50	1.00	0.60	0.80	
15	0.87	1.39	1.06	1.03	0.85	1.40	3.60	1.40	1.40	1.00	0.60	0.80	
16	0.87	1.36	1.02	0.99	0.80	1.30	4.30	1.55	1.30	0.90	0.60	0.80	
17	0.87	1.20	1.00	0.97	0.80	1.10	3.40	1.34	1.40	0.90	0.60	0.80	
18	0.87	1.10	0.96	1.02	0.70	1.40	2.80	1.30	1.30	0.90	0.60	0.90	
19	0.87	1.00	0.90	1.09	0.70	1.30	2.80	1.30	1.30	0.90	0.60	0.90	
20	0.87	1.00	0.94	1.04	0.85	1.30	2.70	1.40	1.30	0.96	0.60	0.90	
21	0.86	1.00	1.04	1.00	1.03	1.30	1.90	1.40	1.30	0.90	0.60	0.90	
22	0.86	1.00	0.98	1.00	1.14	1.30	2.80	1.30	1.30	0.90	0.60	0.90	
23	0.86	1.22	0.98	1.00	4.15	1.20	2.90	1.50	1.20	0.90	0.60	0.90	
24	0.86	1.22	2.50	1.54	1.93	1.20	3.40	1.70	1.19	0.90	0.60	0.90	
25	0.86	4.27	1.79	2.14	1.58	1.20	3.42	1.95	1.19	0.90	0.60	0.90	
26	0.86	4.02	1.48	1.73	1.48	1.20	3.40	1.20	1.18	0.80	0.60	0.90	
27	0.85	1.70	2.66	1.51	1.39	1.10	1.80	1.30	1.18	0.80	0.77	0.90	
28	0.85	1.50	1.54	1.32	1.53	1.10	1.70	1.40	1.18	0.87	0.70	0.90	
29	0.85	1.40	1.36	1.14	1.40	1.30	1.60	1.30	1.16	0.87		0.92	
30	0.85	1.27	1.27	1.06	1.44	1.55	1.75	1.60	1.16	0.86		0.93	
31		1.18		1.05	1.37		1.80		1.16	0.85		0.95	
Mean	0.86	1.47	1.29	1.12	1.28	2.09	2.31	1.46	1.51	0.99	0.63	0.89	
Max	0.90	4.27	2.66	2.14	4.15	6.53	4.50	1.95	3.00	1.30	0.80	1.04	6.53
Min	0.84	0.84	0.90	0.81	0.70	1.10	1.20	1.20	1.16	0.80	0.60	0.80	0.60

Annual Max Momentary Gage Height 6.71 m. (A.D.) , at 15.00 Hours , on Sep 7, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.39 m. (A.D.)

Left Bank Elevation 8.18 m. (A.D.) ,

Right Bank Elevation 8.16 m. (A.D.) , Drainage Are 208 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.20	2.06	4.72	3.14	2.00	47.90	4.80	6.80	17.53	3.20	1.00	1.00		
2	1.20	1.25	4.40	2.42	2.00	50.30	4.80	5.80	26.30	3.20	0.50	1.00		
3	1.20	1.25	3.60	2.00	1.50	13.60	4.32	4.80	7.80	4.00	0.50	2.24		
4	1.20	1.20	3.20	3.20	1.00	8.80	4.00	4.00	5.80	4.00	0.50	2.24		
5	1.20	1.20	4.16	3.60	2.00	12.30	6.20	4.00	5.80	4.00	0.50	1.50		
6	1.25	1.25	5.70	3.20	2.24	81.50	4.00	5.80	7.80	2.60	0.00	1.50		
7	1.25	1.25	2.90	2.12	12.43	97.93	4.00	5.80	12.30	2.60	0.00	1.50		
8	1.25	1.25	2.60	2.00	8.10	48.50	3.20	5.80	11.00	2.54	0.00	1.50		
9	1.30	1.50	2.60	2.00	7.20	16.91	3.20	6.80	9.90	2.54	0.00	1.50		
10	1.30	5.10	5.20	1.70	3.20	12.30	3.20	7.80	7.80	2.60	0.00	1.50		
11	1.40	24.82	2.90	1.25	2.60	10.34	13.60	7.80	6.80	1.50	0.00	1.50		
12	1.50	24.98	2.78	1.15	2.60	8.80	54.50	5.80	5.80	1.50	0.00	1.50		
13	1.40	13.60	2.72	1.15	1.50	6.80	12.30	4.80	5.80	2.00	0.00	1.50		
14	1.35	5.80	2.60	1.05	1.50	4.80	36.10	4.80	5.80	2.00	0.00	1.00		
15	1.35	4.72	2.36	2.18	1.25	4.80	37.00	4.80	4.80	2.00	0.00	1.00		
16	1.35	4.48	2.12	1.95	1.00	4.00	50.50	6.30	4.00	1.50	0.00	1.00		
17	1.35	3.20	2.00	1.85	1.00	2.60	33.40	4.32	4.80	1.50	0.00	1.00		
18	1.35	2.60	1.80	2.12	0.50	4.80	23.00	4.00	4.00	1.50	0.00	1.50		
19	1.35	2.00	1.50	2.54	0.50	4.00	23.00	4.00	4.00	1.50	0.00	1.50		
20	1.35	2.00	1.70	2.24	1.25	4.00	21.35	4.80	4.00	1.80	0.00	1.50		
21	1.30	2.00	2.24	2.00	2.18	4.00	9.90	4.80	4.00	1.50	0.00	1.50		
22	1.30	2.00	1.90	2.00	2.84	4.00	23.00	4.00	4.00	1.50	0.00	1.50		
23	1.30	3.36	1.90	2.00	47.50	3.20	24.65	5.80	3.20	1.50	0.00	1.50		
24	1.30	3.36	18.15	6.20	10.23	3.20	33.40	7.80	3.14	1.50	0.00	1.50		
25	1.30	49.90	8.70	12.82	6.60	3.20	33.76	10.45	3.14	1.50	0.00	1.50		
26	1.30	44.90	5.60	8.10	5.60	3.20	33.40	3.20	3.08	1.00	0.00	1.50		
27	1.25	7.80	20.69	5.90	4.72	2.60	8.80	4.00	3.08	1.00	0.85	1.50		
28	1.25	5.80	6.20	4.16	6.10	2.60	7.80	4.80	3.08	1.35	0.50	1.50		
29	1.25	4.80	4.48	2.84	4.80	4.00	6.80	4.00	2.96	1.35		1.60		
30	1.25	3.76	3.76	2.36	5.20	6.30	8.30	6.80	2.96	1.30		1.65		
31		3.08		2.30	4.56		8.80		2.96	1.25		1.75		
Total	38.90	236.27	135.18	93.54	155.70	481.28	545.08	164.47	197.43	62.83	4.35	45.48	2160.51	CMSDAY
Mean	1.30	7.62	4.51	3.02	5.02	16.04	17.58	5.48	6.37	2.03	0.16	1.47	5.92	CMS
Max	1.50	49.90	20.69	12.82	47.50	97.93	54.50	10.45	26.30	4.00	1.00	2.24	97.93	CMS
Min	1.20	1.20	1.50	1.05	0.50	2.60	3.20	3.20	2.96	1.00	0.00	1.00	0.00	CMS
Runoff	3.36	20.41	11.68	8.08	13.45	41.58	47.09	14.21	17.06	5.43	0.38	3.93	186.67	MCM

Momentary Peak 101.98 CMS. at 6.71 m. (A.D.) at 15.00 Hours , on Sep 7, 2008

Runoff Yield 28.46 Liters/Second/Square KM. Momentary Peak Yield 490.29 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Ta Lam at Ban Pluk Wa , Satun (X.263)

Lat 06 - 48 - 40 N Long 99 - 57 - 34 E

Location : on right bank at Ban Pluk Wa.

Ban Pluk Wa **Amphoe** Tha Pae **Changwat** Satun

Drainge Area	15 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 top staff gage. **Elevation** +8.308 m. (A.D.)
Gage Reading Frequency	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 Float	-
Rated by Current Meter	2008 to date
Stability of Channel Regimes	Stable.
Overbank Flow Conditions	No overbank flow.
General Description	Records poor. Stage-discharge relation defined by 5 discharge measurements made in 2008.

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

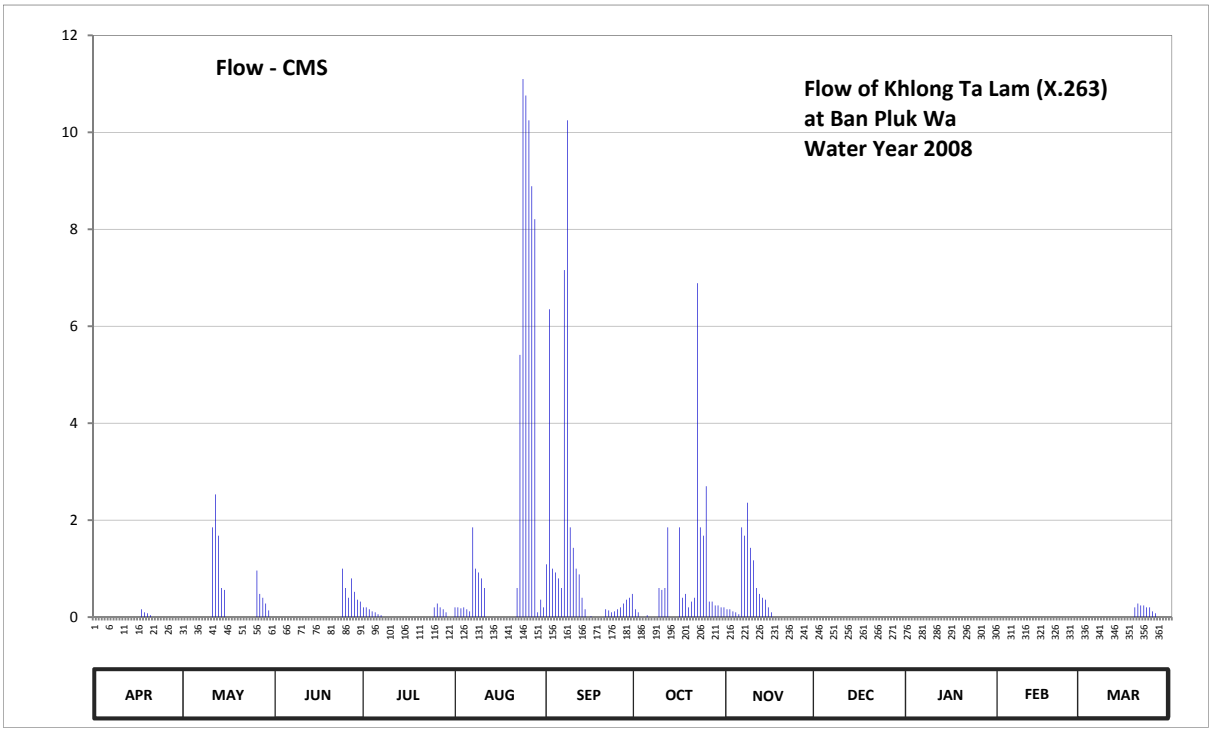
Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.28	1.21	1.46	1.60	1.60	1.81	1.58	1.58	1.45	1.40	1.11	0.90	
2	1.26	1.20	1.45	1.60	1.60	2.30	1.55	1.58	1.42	1.37	1.11	0.88	
3	1.26	1.18	1.49	1.58	1.59	1.80	1.50	1.56	1.41	1.35	1.15	0.88	
4	1.25	1.17	1.48	1.56	1.60	1.78	1.48	1.55	1.40	1.35	1.14	1.10	
5	1.24	1.17	1.45	1.55	1.58	1.75	1.52	1.53	1.40	1.33	1.14	1.12	
6	1.24	1.17	1.39	1.53	1.56	1.70	1.48	1.90	1.38	1.30	1.12	1.14	
7	1.24	1.19	1.38	1.52	1.90	2.36	1.45	1.88	1.37	1.29	1.10	1.16	
8	1.26	1.20	1.38	1.50	1.80	2.55	1.44	1.96	1.44	1.27	1.13	1.16	
9	1.26	1.30	1.37	1.50	1.78	1.90	1.70	1.85	1.43	1.25	1.16	1.18	
10	1.26	1.31	1.36	1.48	1.75	1.85	1.69	1.82	1.43	1.24	1.18	1.20	
11	1.25	1.90	1.38	1.45	1.70	1.80	1.70	1.70	1.40	1.23	1.19	1.20	
12	1.24	1.98	1.37	1.42	1.50	1.77	1.90	1.67	1.39	1.21	1.20	1.19	
13	1.24	1.88	1.36	1.40	1.50	1.65	1.10	1.65	1.36	1.20	1.18	1.18	
14	1.23	1.70	1.33	1.30	1.49	1.58	1.10	1.64	1.40	1.18	1.19	1.18	
15	1.24	1.69	1.30	1.29	1.49	1.50	1.15	1.60	1.43	1.20	1.18	1.16	
16	1.24	1.50	1.28	1.30	1.47	1.51	1.90	1.55	1.42	1.19	1.17	1.15	
17	1.58	1.48	1.28	1.28	1.45	1.50	1.65	1.42	1.41	1.18	1.17	1.16	
18	1.55	1.46	1.27	1.28	1.45	1.49	1.67	1.40	1.40	1.18	1.16	1.50	
19	1.54	1.45	1.30	1.27	1.43	1.48	1.60	1.41	1.40	1.17	1.15	1.60	
20	1.52	1.43	1.30	1.30	1.40	1.50	1.63	1.45	1.39	1.15	1.15	1.62	
21	1.50	1.40	1.29	1.29	1.39	1.58	1.65	1.44	1.37	1.15	1.15	1.61	
22	1.48	1.38	1.29	1.28	1.70	1.57	2.34	1.42	1.36	1.18	1.14	1.61	
23	1.47	1.30	1.28	1.28	2.23	1.55	1.90	1.41	1.36	1.19	1.14	1.60	
24	1.46	1.30	1.80	1.30	2.60	1.56	1.88	1.45	1.35	1.18	1.14	1.60	
25	1.40	1.28	1.70	1.60	2.58	1.58	2.00	1.43	1.35	1.17	1.13	1.56	
26	1.28	1.79	1.65	1.62	2.55	1.60	1.63	1.40	1.35	1.15	1.13	1.54	
27	1.26	1.67	1.75	1.60	2.47	1.62	1.63	1.42	1.36	1.15	1.12	1.50	
28	1.24	1.65	1.68	1.58	2.43	1.64	1.61	1.49	1.37	1.14	1.12	1.48	
29	1.22	1.62	1.64	1.55	1.55	1.65	1.61	1.48	1.39	1.12		1.47	
30	1.21	1.57	1.63	1.49	1.64	1.67	1.60	1.46	1.38	1.12		1.47	
31		1.48		1.40	1.60		1.60		1.38	1.12		1.45	
Mean	1.32	1.45	1.44	1.44	1.75	1.72	1.62	1.57	1.39	1.22	1.15	1.31	
Max	1.58	1.98	1.80	1.62	2.60	2.55	2.34	1.96	1.45	1.40	1.20	1.62	2.60
Min	1.21	1.17	1.27	1.27	1.39	1.48	1.10	1.40	1.35	1.12	1.10	0.88	0.88

Annual Max Momentary Gage Height 2.60 m. (A.D.) , at 06.00 Hours , on Aug 24, 2008

Zero Gage at Bottom Elevation 0.00 m. (A.D.) , River Bed 0.09 m. (A.D.)

Left Bank Elevation 3.93 m. (A.D.) ,

Right Bank Elevation 3.94 m. (A.D.) , Drainage Are 15 Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	0.00	0.20	0.20	1.09	0.16	0.16	0.00	0.00	0.00	0.00		
2	0.00	0.00	0.00	0.20	0.20	6.35	0.10	0.16	0.00	0.00	0.00	0.00		
3	0.00	0.00	0.00	0.16	0.18	1.00	0.00	0.12	0.00	0.00	0.00	0.00		
4	0.00	0.00	0.00	0.12	0.20	0.92	0.00	0.10	0.00	0.00	0.00	0.00		
5	0.00	0.00	0.00	0.10	0.16	0.80	0.04	0.06	0.00	0.00	0.00	0.00		
6	0.00	0.00	0.00	0.06	0.12	0.60	0.00	1.85	0.00	0.00	0.00	0.00		
7	0.00	0.00	0.00	0.04	1.85	7.16	0.00	1.68	0.00	0.00	0.00	0.00		
8	0.00	0.00	0.00	0.00	1.00	10.25	0.00	2.36	0.00	0.00	0.00	0.00		
9	0.00	0.00	0.00	0.00	0.92	1.85	0.60	1.43	0.00	0.00	0.00	0.00		
10	0.00	0.00	0.00	0.00	0.80	1.43	0.56	1.17	0.00	0.00	0.00	0.00		
11	0.00	1.85	0.00	0.00	0.60	1.00	0.60	0.60	0.00	0.00	0.00	0.00		
12	0.00	2.53	0.00	0.00	0.00	0.88	1.85	0.48	0.00	0.00	0.00	0.00		
13	0.00	1.68	0.00	0.00	0.00	0.40	0.00	0.40	0.00	0.00	0.00	0.00		
14	0.00	0.60	0.00	0.00	0.00	0.16	0.00	0.36	0.00	0.00	0.00	0.00		
15	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00		
16	0.00	0.00	0.00	0.00	0.00	0.02	1.85	0.10	0.00	0.00	0.00	0.00		
17	0.16	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00		
18	0.10	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00		
19	0.08	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.20		
20	0.04	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.28		
21	0.00	0.00	0.00	0.00	0.00	0.16	0.40	0.00	0.00	0.00	0.00	0.24		
22	0.00	0.00	0.00	0.00	0.60	0.14	6.89	0.00	0.00	0.00	0.00	0.24		
23	0.00	0.00	0.00	0.00	5.41	0.10	1.85	0.00	0.00	0.00	0.00	0.20		
24	0.00	0.00	1.00	0.00	11.10	0.12	1.68	0.00	0.00	0.00	0.00	0.20		
25	0.00	0.00	0.60	0.20	10.76	0.16	2.70	0.00	0.00	0.00	0.00	0.12		
26	0.00	0.96	0.40	0.28	10.25	0.20	0.32	0.00	0.00	0.00	0.00	0.08		
27	0.00	0.48	0.80	0.20	8.89	0.28	0.32	0.00	0.00	0.00	0.00	0.00		
28	0.00	0.40	0.52	0.16	8.21	0.36	0.24	0.00	0.00	0.00	0.00	0.00		
29	0.00	0.28	0.36	0.10	0.10	0.40	0.24	0.00	0.00	0.00		0.00		
30	0.00	0.14	0.32	0.00	0.36	0.48	0.20	0.00	0.00	0.00		0.00		
31		0.00		0.00	0.20		0.20		0.00	0.00		0.00		
Total	0.38	9.48	4.00	1.82	62.11	36.31	22.20	11.23	0.00	0.00	0.00	1.56	149.09	CMSDAY
Mean	0.01	0.31	0.13	0.06	2.00	1.21	0.72	0.37	0.00	0.00	0.00	0.05	0.41	CMS
Max	0.16	2.53	1.00	0.28	11.10	10.25	6.89	2.36	0.00	0.00	0.00	0.28	11.10	CMS
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	CMS
Runoff	0.03	0.82	0.35	0.16	5.37	3.14	1.92	0.97	0.00	0.00	0.00	0.13	12.88	MCM

Momentary Peak 11.10 CMS. at 2.60 m. (A.D.) at 06.00 Hours , on Aug 24, 2008

Runoff Yield 27.41 Liters/Second/Square KM. Momentary Peak Yield 744.97 Liters/Second/Square KM.

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Tha Prae at Ban Ta Lam , Satun (X.264)

Lat 06 - 47 - 46 N Long 99 - 57 - 17 E

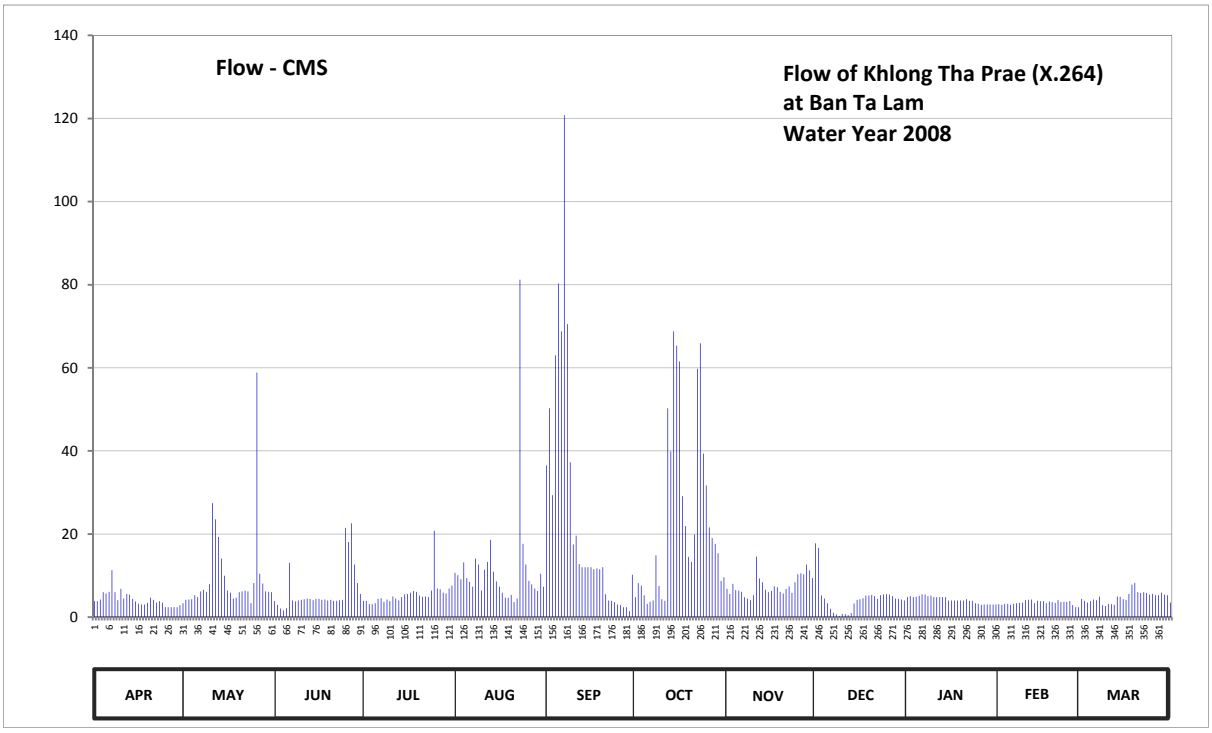
Location : on right bank at Ban Ta Lam.

	Ban Ta Lam	**Amphoe** Tha Pae	**Changwat** Satun
Drainge Area	223 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 top staff gage.	**Elevation**	+6.425 m. (A.D.)
Gage Reading Frequency	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 Float	-		
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 27 discharge measurements made in 2008.		

Gage Height in Meter (A.D.) Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual
1	1.58	1.52	1.58	1.59	2.29	3.85	1.70	1.92	2.84	1.70	1.49	1.65	
2	1.58	1.62	1.47	1.59	2.24	4.31	2.06	1.80	2.76	1.73	1.47	1.59	
3	1.63	1.63	1.36	1.49	2.15	3.53	2.00	2.04	1.75	1.70	1.50	1.54	
4	1.84	1.64	1.30	1.49	2.49	4.61	1.76	1.89	1.66	1.71	1.50	1.58	
5	1.81	1.76	1.37	1.52	2.18	4.87	1.50	1.88	1.52	1.74	1.47	1.63	
6	1.85	1.70	2.48	1.65	2.09	4.71	1.56	1.85	1.35	1.79	1.50	1.61	
7	2.34	1.86	1.60	1.67	1.97	5.12	1.60	1.70	1.23	1.78	1.52	1.72	
8	1.84	1.90	1.57	1.56	2.56	4.74	2.62	1.66	1.16	1.73	1.53	1.46	
9	1.61	1.85	1.60	1.63	2.45	3.88	1.99	1.61	1.06	1.75	1.54	1.43	
10	1.92	2.03	1.62	1.58	1.88	2.82	1.64	1.76	1.19	1.70	1.61	1.50	
11	1.66	3.44	1.64	1.72	2.35	2.97	1.59	2.60	1.17	1.70	1.62	1.49	
12	1.80	3.22	1.66	1.66	2.50	2.46	4.31	2.17	1.12	1.70	1.63	1.47	
13	1.78	2.95	1.65	1.60	2.90	2.40	3.98	2.08	1.22	1.70	1.52	1.72	
14	1.65	2.56	1.61	1.70	2.31	2.40	4.71	1.90	1.51	1.70	1.59	1.71	
15	1.57	2.23	1.65	1.79	2.10	2.40	4.65	1.84	1.62	1.60	1.58	1.64	
16	1.50	1.88	1.65	1.80	1.97	2.40	4.58	1.87	1.64	1.60	1.58	1.62	
17	1.48	1.83	1.62	1.83	1.83	2.36	3.52	1.98	1.67	1.60	1.52	1.80	
18	1.48	1.66	1.63	1.87	1.68	2.38	3.12	1.96	1.75	1.60	1.57	2.02	
19	1.53	1.68	1.60	1.85	1.68	2.36	2.59	1.85	1.75	1.60	1.55	2.06	
20	1.68	1.84	1.62	1.75	1.77	2.40	2.50	1.81	1.77	1.60	1.53	1.84	
21	1.62	1.86	1.59	1.71	1.55	1.79	2.99	1.92	1.73	1.64	1.61	1.82	
22	1.54	1.88	1.59	1.72	1.66	1.60	4.54	1.98	1.65	1.59	1.55	1.84	
23	1.58	1.86	1.61	1.70	4.88	1.59	4.66	1.82	1.76	1.59	1.56	1.82	
24	1.54	1.52	1.62	1.88	2.83	1.55	3.96	2.08	1.79	1.52	1.56	1.78	
25	1.40	2.06	3.09	3.05	2.45	1.48	3.64	2.26	1.79	1.50	1.58	1.80	
26	1.40	4.52	2.86	1.93	2.11	1.46	3.10	2.28	1.78	1.47	1.46	1.76	
27	1.40	2.27	3.16	1.91	2.03	1.40	2.93	2.26	1.73	1.48	1.40	1.76	
28	1.40	2.05	2.45	1.83	1.93	1.40	2.83	2.45	1.66	1.48	1.40	1.83	
29	1.40	1.86	2.06	1.81	1.87	1.28	2.66	2.34	1.65	1.48		1.78	
30	1.46	1.85	1.80	1.93	2.27	2.25	2.11	2.18	1.63	1.48		1.76	
31		1.84		2.00	1.97		2.20		1.60	1.48		1.54	
Mean	1.63	2.08	1.80	1.77	2.22	2.76	2.89	1.99	1.63	1.63	1.53	1.70	
Max	2.34	4.52	3.16	3.05	4.88	5.12	4.71	2.60	2.84	1.79	1.63	2.06	5.12
Min	1.40	1.52	1.30	1.49	1.55	1.28	1.50	1.61	1.06	1.47	1.40	1.43	1.06

Annual Max Momentary Gage Height	5.18	m. (A.D.) ,	at 18.00 Hours , on Sep 7, 2008		
Zero Gage at Bottom Elevation	0.00	m. (A.D.) ,	River Bed	0.87	m. (A.D.)
Left Bank Elevation	7.31	m. (A.D.) ,			
Right Bank Elevation	7.26	m. (A.D.) ,	Drainage Are	223	Square Kilometers



Discharge in Cubic Meter per Second , Water Year April 1, 2008 to March 31, 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.84	3.36	3.84	3.92	10.68	36.50	4.80	6.80	17.76	4.80	3.12	4.40		
2	3.84	4.16	2.96	3.92	10.08	50.27	8.20	5.60	16.68	5.04	2.96	3.92		
3	4.24	4.24	2.08	3.12	9.10	29.33	7.60	8.00	5.20	4.80	3.20	3.52		
4	6.00	4.32	1.60	3.12	13.17	62.98	5.28	6.50	4.48	4.88	3.20	3.84		
5	5.70	5.28	2.16	3.36	9.40	80.30	3.20	6.40	3.36	5.12	2.96	4.24		
6	6.10	4.80	13.04	4.40	8.50	68.78	3.68	6.10	2.00	5.52	3.20	4.08		
7	11.28	6.20	4.00	4.56	7.30	120.80	4.00	4.80	1.04	5.44	3.36	4.96		
8	6.00	6.60	3.76	3.68	14.08	70.52	14.86	4.48	0.64	5.04	3.44	2.88		
9	4.08	6.10	4.00	4.24	12.65	37.28	7.50	4.08	0.24	5.20	3.52	2.64		
10	6.80	7.90	4.16	3.84	6.40	17.48	4.32	5.28	0.76	4.80	4.08	3.20		
11	4.48	27.44	4.32	4.96	11.40	19.58	3.92	14.60	0.68	4.80	4.16	3.12		
12	5.60	23.54	4.48	4.48	13.30	12.78	50.27	9.30	0.48	4.80	4.24	2.96		
13	5.44	19.30	4.40	4.00	18.60	12.00	39.88	8.40	0.96	4.80	3.36	4.96		
14	4.40	14.08	4.08	4.80	10.92	12.00	68.78	6.60	3.28	4.80	3.92	4.88		
15	3.76	9.96	4.40	5.52	8.60	12.00	65.30	6.00	4.16	4.00	3.84	4.32		
16	3.20	6.40	4.40	5.60	7.30	12.00	61.52	6.30	4.32	4.00	3.84	4.16		
17	3.04	5.90	4.16	5.90	5.90	11.52	29.12	7.40	4.56	4.00	3.36	5.60		
18	3.04	4.48	4.24	6.30	4.64	11.76	21.92	7.20	5.20	4.00	3.76	7.80		
19	3.44	4.64	4.00	6.10	4.64	11.52	14.47	6.10	5.20	4.00	3.60	8.20		
20	4.64	6.00	4.16	5.20	5.36	12.00	13.30	5.70	5.36	4.00	3.44	6.00		
21	4.16	6.20	3.92	4.88	3.60	5.52	19.86	6.80	5.04	4.32	4.08	5.80		
22	3.52	6.40	3.92	4.96	4.48	4.00	59.76	7.40	4.40	3.92	3.60	6.00		
23	3.84	6.20	4.08	4.80	81.20	3.92	65.88	5.80	5.28	3.92	3.68	5.80		
24	3.52	3.36	4.16	6.40	17.62	3.60	39.36	8.40	5.52	3.36	3.68	5.44		
25	2.40	8.20	21.44	20.80	12.65	3.04	31.68	10.32	5.52	3.20	3.84	5.60		
26	2.40	58.88	18.04	6.90	8.70	2.88	21.60	10.56	5.44	2.96	2.88	5.28		
27	2.40	10.44	22.56	6.70	7.90	2.40	19.02	10.32	5.04	3.04	2.40	5.28		
28	2.40	8.10	12.65	5.90	6.90	2.40	17.62	12.65	4.48	3.04	2.40	5.90		
29	2.40	6.20	8.20	5.70	6.30	1.44	15.38	11.28	4.40	3.04		5.44		
30	2.88	6.10	5.60	6.90	10.44	10.20	8.70	9.40	4.24	3.04		5.28		
31		6.00		7.60	7.30		9.60		4.00	3.04		3.52		
Total	128.84	300.78	188.81	172.56	359.11	740.80	740.38	228.57	139.72	130.72	97.12	149.02	3376.43	CMSDAY
Mean	4.29	9.70	6.29	5.57	11.58	24.69	23.88	7.62	4.51	4.22	3.47	4.81	9.25	CMS
Max	11.28	58.88	22.56	20.80	81.20	120.80	68.78	14.60	17.76	5.52	4.24	8.20	120.80	CMS
Min	2.40	3.36	1.60	3.12	3.60	1.44	3.20	4.08	0.24	2.96	2.40	2.64	0.24	CMS
Runoff	11.13	25.99	16.31	14.91	31.03	64.01	63.97	19.75	12.07	11.29	8.39	12.88	291.72	MCM

Momentary Peak 135.20 CMS. at 5.18 m. (A.D.) at 18.00 Hours , on Sep 7, 2008

Runoff Yield 41.48 Liters/Second/Square KM. Momentary Peak Yield 606.28 Liters/Second/Square KM.

Suspended Sediment Station

Water Year 2008

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	20
R-Square	0.9375
Remarks	Continued Sediment Station

$$QS = 4.4582\ QW^{1.22960}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	42.02	39.54	286.77	149.68	53.98	421.08	185.04	18.63	2.58	1.01	1.27		
2	0.00	39.54	81.26	395.85	448.93	18.99	345.06	617.40	17.57	4.46	0.93	1.10		
3	0.33	22.65	327.36	491.31	741.09	7.95	244.33	765.09	16.86	6.45	1.81	0.85		
4	13.08	20.44	428.01	432.64	754.79	10.13	134.71	775.42	16.16	8.25	9.18	0.62		
5	15.81	19.35	321.50	233.96	607.91	22.28	80.32	566.19	15.81	8.87	14.78	0.33		
6	16.16	18.28	313.72	133.37	460.63	43.70	62.84	418.78	15.47	8.87	17.57	0.04		
7	15.47	17.21	563.48	109.60	251.30	48.79	98.54	361.93	14.78	7.64	14.09	0.00		
8	14.09	15.12	820.47	88.86	86.00	256.55	307.91	269.69	14.43	6.74	12.75	0.00		
9	13.08	13.08	778.87	81.26	28.34	775.42	444.27	199.99	14.09	6.74	12.75	0.00		
10	12.41	43.70	590.66	323.45	13.42	1204.95	315.66	89.82	13.76	6.74	12.75	0.00		
11	12.75	75.64	384.48	544.59	4.24	1158.33	160.74	62.84	13.42	7.34	12.75	0.00		
12	13.08	78.44	239.13	327.36	4.73	810.03	71.02	48.79	13.08	7.95	12.75	0.00		
13	13.08	49.64	190.00	151.05	65.54	747.93	30.68	39.54	12.75	8.87	12.75	0.00		
14	15.12	23.76	180.11	82.20	225.37	1050.93	18.99	35.46	12.75	10.13	12.75	0.00		
15	30.68	18.28	98.54	26.80	223.66	5076.95	20.44	31.46	12.41	11.43	12.41	0.00		
16	22.28	16.16	68.27	6.16	198.32	5240.64	29.11	29.89	11.75	10.78	12.41	0.00		
17	17.21	23.02	36.27	1.36	112.20	4752.52	29.89	28.34	11.10	9.82	12.08	0.00		
18	15.81	24.52	32.26	1.90	53.10	7166.15	27.56	26.03	12.41	8.56	11.75	0.00		
19	15.12	20.80	39.54	73.79	52.24	6949.21	25.27	23.76	12.08	7.95	10.45	0.00		
20	14.09	61.05	50.51	282.96	130.68	4752.52	25.27	23.02	12.08	7.04	10.13	0.00		
21	13.76	120.06	42.86	331.28	137.41	2607.81	90.79	22.65	12.41	5.58	9.82	0.00		
22	14.43	81.26	32.26	247.81	101.48	1507.75	203.34	22.28	13.42	4.46	10.78	0.00		
23	15.47	109.60	23.02	218.55	77.51	1014.56	134.71	21.91	13.76	4.46	10.13	0.00		
24	18.99	105.73	10.13	101.48	75.64	810.03	79.38	20.80	13.08	4.24	9.18	0.00		
25	23.76	65.54	1.44	57.49	63.74	574.32	58.38	20.80	13.08	3.60	8.56	0.00		
26	14.78	60.15	1.10	80.32	61.94	327.36	48.79	20.44	13.42	2.58	8.25	0.00		
27	13.76	56.61	15.12	133.37	57.49	213.46	46.23	20.44	14.09	1.90	7.95	0.00		
28	13.76	60.15	30.68	151.05	42.02	163.53	48.79	20.08	14.78	1.44	7.34	0.00		
29	18.99	81.26	126.68	232.23	26.80	220.25	41.19	20.08	14.43	1.10		0.00		
30	41.19	89.82	205.02	183.40	53.10	359.68	33.05	19.71	14.43	1.01		0.00		
31		58.38		110.90	95.62		42.02		14.43	1.01		0.00		
Total	458.54	1531.26	6072.29	5923.12	5404.92	47946.70	3720.36	4807.67	432.72	188.59	289.86	4.21	76780.24	Tonday
Mean	15.28	49.40	202.41	191.07	174.35	1598.22	120.01	160.26	13.96	6.08	10.35	0.14		Ton/day
Max	41.19	120.06	820.47	544.59	754.79	7166.15	444.27	775.42	18.63	11.43	17.57	1.27	7166.15	Ton/day
Min	0.00	13.08	1.10	1.36	4.24	7.95	18.99	19.71	11.10	1.01	0.93	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	20
R-Square	0.7666
Remarks	Continued Sediment Station

$$QS = 1.8829\ QW^{1.57740}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	17.44	350.54	46.16	78.01	134.89	99.91	379.12	7224.31	54.05	12.98	9.55	4.35		
2	42.38	1441.94	33.48	58.16	311.92	215.72	718.69	8544.16	31.79	12.98	9.55	4.35		
3	56.09	617.83	60.26	54.05	2361.03	259.67	3136.27	4357.76	26.92	12.98	9.55	4.35		
4	36.95	373.34	1441.94	129.26	317.33	126.48	2245.60	2169.83	25.37	12.98	9.55	4.35		
5	29.32	361.87	3521.43	123.72	183.64	137.74	805.29	2648.62	25.37	12.98	10.10	4.35		
6	25.37	737.62	1088.45	146.42	115.58	350.54	1101.88	1441.94	24.60	12.38	11.22	3.95		
7	16.77	608.94	582.55	94.87	94.87	672.15	3136.27	785.73	24.60	11.79	9.02	3.95		
8	13.58	573.85	608.94	89.93	87.50	573.85	7352.63	539.53	23.10	11.22	10.10	3.95		
9	12.38	522.67	239.77	71.16	137.74	776.02	3708.62	881.86	22.36	10.65	11.79	3.57		
10	10.65	522.67	161.90	66.72	225.23	1022.19	1239.51	457.19	21.63	10.65	11.79	3.57		
11	9.02	565.20	126.48	71.16	174.83	306.54	919.38	259.67	20.91	10.65	10.65	3.57		
12	7.99	274.98	192.61	66.72	153.49	2057.97	539.53	179.21	20.19	10.65	10.65	3.57		
13	7.99	126.48	153.49	58.16	230.04	14319.77	350.54	143.50	19.49	10.65	9.02	4.35		
14	8.50	170.48	166.17	58.16	906.81	26673.66	264.74	123.72	18.80	10.10	9.02	14.20		
15	14.20	118.27	264.74	58.16	322.78	17093.98	225.23	105.04	18.80	10.10	8.50	26.92		
16	26.14	73.42	548.04	58.16	183.64	8273.74	201.74	94.87	18.80	10.10	8.50	14.83		
17	27.71	54.05	264.74	58.16	120.98	3653.42	311.92	87.50	18.11	10.10	8.50	8.50		
18	19.49	46.16	295.88	58.16	92.39	7017.11	220.45	87.50	18.11	9.55	7.99	7.99		
19	11.22	50.05	264.74	78.01	78.01	18966.32	161.90	85.09	17.44	9.55	7.99	7.49		
20	9.02	99.91	600.09	280.15	565.20	6086.64	140.61	82.70	17.44	7.99	7.49	7.01		
21	8.50	402.57	390.78	225.23	785.73	3521.43	170.48	82.70	16.77	7.01	7.01	13.58		
22	7.49	531.08	166.17	118.27	384.93	2913.10	211.02	80.34	16.77	7.01	6.53	24.60		
23	18.11	211.02	211.02	230.04	269.84	1239.51	230.04	80.34	16.77	7.01	5.62	12.98		
24	26.14	201.74	134.89	146.42	143.50	795.49	244.69	80.34	19.49	6.53	5.18	10.10		
25	23.84	166.17	123.72	322.78	99.91	506.00	497.74	78.01	19.49	5.62	4.76	12.98		
26	21.63	137.74	87.50	465.20	97.38	322.78	379.12	78.01	19.49	5.62	4.35	14.83		
27	17.44	132.07	78.01	225.23	80.34	254.64	285.36	78.01	19.49	5.62	4.35	30.96		
28	13.58	115.58	64.54	153.49	71.16	970.29	280.15	78.01	19.49	5.18	4.35	36.95		
29	16.77	102.46	66.72	134.89	97.38	844.92	215.72	78.01	19.49	5.18		15.47		
30	31.79	82.70	73.42	174.83	80.34	681.37	157.68	75.70	18.80	5.18		13.58		
31		60.26		132.07	71.16		344.92		18.80	5.18		16.77		
Total	587.50	9833.66	12058.63	4085.75	8979.57	120732.95	30176.84	31089.20	672.73	286.17	232.68	341.97	219077.65	Tonday
Mean	19.58	317.21	401.95	131.80	289.66	4024.43	973.45	1036.31	21.70	9.23	8.31	11.03		Ton/day
Max	56.09	1441.94	3521.43	465.20	2361.03	26673.66	7352.63	8544.16	54.05	12.98	11.79	36.95	26673.66	Ton/day
Min	7.49	46.16	33.48	54.05	71.16	99.91	140.61	75.70	16.77	5.18	4.35	3.57	3.57	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	20
R-Square	0.8550
Remarks	Continued Sediment Station

$$QS = 3.8746\ QW^{1.34890}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	18.60	777.00	146.82	238.41	353.68	367.18	2684.16	5239.28	208.58	64.03	37.68	18.60		
2	91.22	1404.64	208.58	232.36	399.77	601.48	2090.07	11664.40	196.94	66.20	53.48	23.46		
3	333.67	1339.05	220.39	256.79	2074.13	622.77	3380.64	11366.64	220.39	61.88	75.06	23.46		
4	250.62	1248.60	1011.67	380.82	1023.81	409.34	4005.98	6520.95	220.39	61.88	105.70	26.85		
5	125.83	951.52	3233.89	367.18	487.91	538.77	2267.50	4543.54	196.94	57.64	131.00	28.59		
6	72.82	601.48	2644.51	549.10	333.67	1048.21	2526.49	3636.06	214.46	39.58	95.99	32.15		
7	47.39	1378.31	1731.62	307.47	275.52	1185.01	4611.95	2704.04	202.74	37.68	75.06	28.59		
8	45.40	845.70	1551.74	281.83	238.41	1417.86	9980.12	2026.50	131.00	41.50	68.39	26.85		
9	49.40	644.26	1147.27	191.19	262.99	1235.81	9339.97	1994.90	120.71	35.81	57.64	26.85		
10	53.48	380.82	754.43	157.63	438.38	2218.74	4726.55	1716.44	120.71	35.81	49.40	53.48		
11	49.40	497.97	559.47	152.20	340.31	1274.27	2644.51	1248.60	105.70	37.68	43.44	41.50		
12	41.50	1134.77	665.93	146.82	313.97	1792.69	1885.32	915.89	110.65	37.68	41.50	9.87		
13	37.68	497.97	904.09	125.83	360.41	7539.86	1404.64	720.91	110.65	37.68	41.50	18.60		
14	33.97	569.90	904.09	91.22	1035.99	18838.08	1134.77	612.10	95.99	41.50	39.58	18.60		
15	35.81	380.82	975.46	79.59	1072.76	24431.40	904.09	559.47	86.52	37.68	39.58	30.35		
16	51.43	238.41	1134.77	84.20	518.27	19356.57	857.30	477.89	86.52	35.81	39.58	61.88		
17	131.00	174.20	732.04	79.59	373.98	10923.77	999.56	418.96	79.59	28.59	37.68	64.03		
18	110.65	141.50	601.48	84.20	281.83	8229.71	939.60	373.98	77.32	33.97	35.81	55.55		
19	59.75	131.00	644.26	168.63	214.46	14076.53	765.69	327.07	75.06	33.97	30.35	49.40		
20	51.43	81.89	822.63	655.07	467.93	12913.29	601.48	327.07	79.59	33.97	32.15	53.48		
21	37.68	822.63	857.30	1011.67	1023.81	7333.04	951.52	294.58	81.89	30.35	32.15	64.03		
22	55.55	732.04	477.89	487.91	904.09	5429.07	2058.22	275.52	84.20	39.58	30.35	95.99		
23	59.75	438.38	409.34	438.38	857.30	3830.75	2026.50	256.79	79.59	41.50	33.97	79.59		
24	55.55	367.18	367.18	373.98	477.89	2487.46	1551.74	250.62	84.20	33.97	32.15	61.88		
25	70.59	438.38	294.58	590.90	320.50	1671.10	1484.41	250.62	79.59	28.59	23.46	91.22		
26	66.20	999.56	208.58	845.70	250.62	1248.60	1391.46	244.50	79.59	32.15	12.62	146.82		
27	53.48	1235.81	196.94	665.93	269.24	1023.81	1085.09	244.50	77.32	33.97	18.60	208.58		
28	47.39	1185.01	185.48	518.27	238.41	1287.16	1060.47	244.50	81.89	32.15	15.54	294.58		
29	53.48	709.82	163.10	438.38	262.99	2218.74	904.09	244.50	110.65	33.97		100.81		
30	141.50	458.03	146.82	508.09	346.98	3743.90	665.93	220.39	105.70	39.58		64.03		
31		269.24		399.77	327.07		951.52		95.99	43.44		55.55		
Total	2332.22	21075.89	23902.35	10909.11	16147.08	159294.97	71881.34	59921.21	3701.06	1249.79	1329.41	1955.22	373699.65	Tonday
Mean	77.74	679.87	796.75	351.91	520.87	5309.83	2318.75	1997.37	119.39	40.32	47.48	63.07		Ton/day
Max	333.67	1404.64	3233.89	1011.67	2074.13	24431.40	9980.12	11664.40	220.39	66.20	131.00	294.58	24431.40	Ton/day
Min	18.60	81.89	146.82	79.59	214.46	367.18	601.48	220.39	75.06	28.59	12.62	9.87	9.87	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	20
R-Square	0.8574
Remarks	Continued Sediment Station

$$QS = 2.8344\ QW^{1.65400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.29	624.58	23.04	33.48	121.50	68.34	337.82	8420.41	6.17	2.17	0.20	3.57		
2	24.68	134.18	29.83	41.28	5514.90	209.91	488.62	1334.27	4.37	1.96	0.12	2.83		
3	33.48	105.38	236.25	33.48	1334.27	209.91	3820.13	976.65	3.57	2.38	0.06	2.60		
4	21.45	203.52	8069.09	33.48	172.75	144.02	660.60	543.66	2.60	2.60	0.06	2.83		
5	23.04	97.66	1407.17	43.32	97.66	125.67	322.44	543.66	2.38	2.83	0.02	2.60		
6	29.83	70.84	1080.28	86.52	70.84	395.50	1382.70	249.87	1.96	3.57	0.00	2.60		
7	24.68	41.28	920.63	58.73	58.73	299.90	5846.52	222.92	1.57	3.57	0.00	2.60		
8	21.45	37.30	499.44	51.90	70.84	263.80	2537.09	285.24	1.22	4.37	0.00	2.83		
9	21.45	39.27	693.28	47.54	97.66	1310.31	1124.87	236.25	0.90	4.37	0.00	2.83		
10	21.45	51.90	347.18	41.28	149.60	356.64	777.71	172.75	0.76	2.83	0.00	2.60		
11	21.45	125.67	356.64	39.27	121.50	155.26	601.01	109.32	0.62	2.60	0.00	2.60		
12	24.68	78.52	70.84	41.28	149.60	2941.68	395.50	86.52	0.62	2.38	0.00	2.60		
13	35.37	68.34	45.41	37.30	939.16	26813.74	236.25	83.82	0.62	2.38	0.00	2.83		
14	37.30	39.27	45.41	33.48	1557.54	16078.13	184.82	78.52	0.50	2.38	0.00	2.60		
15	45.41	19.91	92.03	35.37	209.91	7248.21	101.49	75.93	0.20	2.38	0.00	2.60		
16	43.32	18.42	589.36	35.37	134.18	4385.59	105.38	73.36	0.20	2.38	0.00	2.38		
17	70.84	14.21	190.97	35.37	83.82	1740.52	113.33	73.36	0.20	2.38	0.00	2.17		
18	39.27	16.96	1170.18	33.48	63.46	28249.73	92.03	73.36	0.20	2.38	0.00	2.38		
19	29.83	29.83	121.50	65.89	117.39	10360.36	89.26	65.89	0.20	2.38	0.00	2.38		
20	31.64	1036.40	256.80	278.02	1634.98	6886.67	75.93	51.90	0.20	2.38	0.00	2.60		
21	54.14	1102.49	197.21	109.32	1687.42	3067.63	70.84	41.28	0.20	2.38	0.00	14.21		
22	61.08	166.84	75.93	589.36	292.54	2268.14	73.36	31.64	0.20	2.38	0.00	5.24		
23	58.73	166.84	63.46	197.21	155.26	337.82	70.84	19.91	0.29	2.17	0.00	3.57		
24	39.27	743.48	61.08	229.55	89.26	270.87	73.36	15.56	0.29	2.17	0.00	2.38		
25	37.30	375.87	63.46	425.67	70.84	209.91	456.72	11.65	0.29	2.17	0.00	0.76		
26	37.30	178.75	56.42	532.47	78.52	178.75	178.75	9.29	0.29	2.17	0.76	1.76		
27	14.21	86.52	39.27	184.82	65.89	172.75	117.39	8.19	0.29	2.17	3.57	41.28		
28	10.44	49.70	31.64	109.32	56.42	330.09	117.39	8.19	0.29	2.17	3.57	18.42		
29	19.91	45.41	28.07	121.50	51.90	488.62	97.66	7.15	0.29	2.17		15.56		
30	31.64	28.07	26.35	285.24	49.70	356.64	105.38	7.15	0.29	2.17		7.15		
31		23.04		109.32	56.42		1036.40		0.29	2.17		3.57		
Total	973.93	5820.45	16888.22	3999.62	15354.46	115925.11	21691.59	13917.67	32.07	78.96	8.36	166.93	194857.37	Tonday
Mean	32.46	187.76	562.94	129.02	495.31	3864.17	699.73	463.92	1.03	2.55	0.30	5.38		Ton/day
Max	70.84	1102.49	8069.09	589.36	5514.90	28249.73	5846.52	8420.41	6.17	4.37	3.57	41.28	28249.73	Ton/day
Min	9.29	14.21	23.04	33.48	49.70	68.34	70.84	7.15	0.20	1.96	0.00	0.76	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	20
R-Square	0.8750
Remarks	Continued Sediment Station

$$QS = 1.0084\ QW^{1.75640}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	39.57	63.75	60.00	305.75	2586.16	314.94	172.78	60.00	0.03	38.04	5.11	9.10		
2	41.14	63.75	56.34	245.50	1104.11	184.63	108.92	67.60	0.54	38.04	5.62	9.10		
3	45.98	75.59	44.34	133.99	472.04	147.36	73.56	97.23	0.36	35.05	6.70	9.10		
4	61.86	60.00	25.56	79.73	314.94	111.33	58.16	116.21	0.36	35.05	7.27	9.10		
5	51.04	54.55	27.59	65.66	722.86	99.53	54.55	69.56	0.36	38.04	7.27	9.10		
6	42.72	45.98	45.98	54.55	595.31	123.70	73.56	41.14	0.36	38.04	8.47	8.47		
7	38.04	42.72	83.97	56.34	392.62	81.84	92.72	25.56	0.22	36.53	8.47	9.75		
8	32.16	41.14	111.33	90.50	273.33	52.79	106.54	19.88	0.22	36.53	8.47	9.10		
9	30.76	45.98	81.84	133.99	193.75	39.57	79.73	15.62	0.22	36.53	8.47	10.42		
10	32.16	215.74	75.59	228.76	169.87	30.76	61.86	12.54	0.22	36.53	8.47	12.54		
11	32.16	423.63	169.87	106.54	184.63	26.57	52.79	9.10	0.22	36.53	7.86	11.11		
12	30.76	206.19	97.23	65.66	248.91	27.59	49.33	9.10	0.36	36.53	7.27	10.42		
13	30.76	47.64	63.75	94.97	746.47	77.65	41.14	15.62	0.36	36.53	7.27	11.11		
14	38.04	61.86	41.14	88.30	357.73	1953.73	35.05	9.10	0.54	35.05	9.10	10.42		
15	44.34	26.57	26.57	79.73	228.76	2470.72	33.59	6.15	0.54	35.05	9.10	10.42		
16	33.59	13.28	20.79	86.12	218.96	1885.07	30.76	5.11	1.51	33.59	8.47	10.42		
17	30.76	12.54	28.63	77.65	184.63	1104.11	27.59	4.16	1.82	33.59	9.10	11.82		
18	33.59	29.69	39.57	94.97	178.67	646.54	25.56	3.71	0.97	32.16	9.10	11.11		
19	32.16	24.57	27.59	118.68	196.83	428.90	25.56	3.29	0.54	30.76	8.47	10.42		
20	32.16	33.59	24.57	328.94	150.10	338.42	23.60	2.89	0.54	25.56	8.47	11.11		
21	33.59	33.59	25.56	269.78	141.95	860.93	21.71	2.51	0.54	25.56	9.10	12.54		
22	32.16	86.12	28.63	150.10	136.62	455.65	19.88	2.15	0.36	24.57	8.47	13.28		
23	38.04	187.65	28.63	203.05	128.80	259.25	18.99	1.82	0.36	25.56	8.47	13.28		
24	45.98	94.97	27.59	152.86	118.68	158.44	17.27	1.51	0.22	24.57	9.10	19.88		
25	45.98	79.73	24.57	161.27	131.39	116.21	15.62	1.23	0.22	15.62	9.10	22.64		
26	45.98	79.73	24.57	136.62	123.70	88.30	15.62	1.23	0.11	21.71	9.10	20.79		
27	45.98	81.84	26.57	99.53	118.68	83.97	14.83	0.97	0.00	22.64	4.16	17.27		
28	38.04	77.65	18.13	111.33	187.65	106.54	12.54	0.97	0.00	25.56	3.71	12.54		
29	39.57	73.56	18.99	128.80	139.27	203.05	11.11	0.74	0.03	27.59		12.54		
30	51.04	73.56	104.18	108.92	108.92	150.10	9.10	0.54	0.22	35.05		11.11		
31		65.66		99.53	88.30		9.10		0.22	32.16		9.75		
Total	1170.11	2522.82	1479.67	4158.12	10944.64	12628.19	1393.12	607.24	12.57	984.32	219.74	369.76	36490.30	Tonday
Mean	39.00	81.38	49.32	134.13	353.05	420.94	44.94	20.24	0.41	31.75	7.85	11.93		Ton/day
Max	61.86	423.63	169.87	328.94	2586.16	2470.72	172.78	116.21	1.82	38.04	9.10	22.64	2586.16	Ton/day
Min	30.76	12.54	18.13	54.55	88.30	26.57	9.10	0.54	0.00	15.62	3.71	8.47	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	20
R-Square	0.8259
Remarks	Continued Sediment Station

$$QS = 2.0563\ QW^{1.37780}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.45	0.36	3.20	8.33	13.89	8.08	67.48	30.26	2.26	1.16	1.16	2.11		
2	2.34	3.30	3.46	8.96	17.14	8.20	64.54	30.26	2.20	1.09	1.09	1.49		
3	1.75	5.94	5.27	8.20	16.48	8.20	41.99	30.26	2.20	1.09	1.16	1.28		
4	1.41	9.73	4.07	6.06	14.75	14.32	21.05	65.13	2.20	1.54	1.21	1.16		
5	1.16	6.40	3.83	5.16	20.57	14.32	21.54	68.07	2.20	1.54	1.67	1.09		
6	0.97	3.56	4.94	4.84	19.20	11.06	102.78	42.45	2.20	1.54	1.97	0.86		
7	0.79	2.80	27.40	9.21	15.64	9.21	88.17	19.88	2.20	1.28	1.54	0.79		
8	0.79	2.80	45.60	18.99	13.70	7.71	58.79	13.08	2.20	1.16	1.21	0.58		
9	0.68	2.64	47.19	34.91	10.12	6.87	35.78	9.21	2.11	1.09	1.02	0.90		
10	0.48	4.34	17.39	37.52	8.08	8.96	22.29	7.35	2.98	1.09	0.90	0.90		
11	0.58	13.27	9.73	33.20	9.47	7.71	16.03	6.06	2.89	1.02	0.90	2.58		
12	0.36	7.83	7.59	17.85	21.05	15.64	13.89	5.16	2.89	0.97	1.09	1.02		
13	0.45	4.17	26.59	10.65	32.35	111.23	11.24	4.62	2.49	0.97	1.28	0.68		
14	2.34	2.49	22.68	10.12	23.83	403.02	9.73	4.27	2.03	0.97	1.49	0.97		
15	1.83	1.89	11.83	12.66	17.60	548.54	8.58	4.07	1.97	1.28	1.16	1.16		
16	1.16	1.54	7.83	9.73	18.99	276.17	7.96	3.90	1.97	1.41	0.97	2.11		
17	0.86	1.21	6.75	9.21	36.65	172.77	7.47	4.27	1.97	1.54	0.97	1.02		
18	0.58	0.90	13.27	20.84	59.36	120.65	6.87	4.17	1.97	1.75	0.97	0.79		
19	0.45	1.16	23.06	37.09	44.01	81.11	6.63	3.40	2.40	1.67	0.97	0.75		
20	0.30	37.96	37.09	42.45	32.35	58.79	7.11	3.30	2.73	1.75	0.97	0.79		
21	0.30	109.46	23.06	53.73	33.62	97.84	6.99	3.20	3.14	1.16	1.21	1.09		
22	0.30	70.45	11.46	40.64	12.47	139.10	7.23	2.89	2.58	1.21	1.89	0.86		
23	0.27	20.15	8.20	18.26	10.65	101.95	6.99	2.80	2.26	1.21	1.67	0.79		
24	0.22	8.45	5.72	11.06	8.83	61.07	6.06	2.80	2.26	1.21	0.97	0.68		
25	0.19	5.60	4.27	8.33	7.59	41.99	6.06	2.98	2.26	1.16	0.97	0.75		
26	0.19	4.45	3.20	6.06	6.99	26.19	5.49	3.20	2.20	1.21	0.97	0.90		
27	0.19	3.63	3.20	12.66	7.23	31.93	5.05	3.56	3.73	1.16	0.97	0.90		
28	0.12	2.98	3.14	14.32	8.45	46.13	5.16	3.20	4.62	1.09	0.97	0.79		
29	0.12	3.40	3.56	11.24	9.47	47.73	4.94	2.73	3.73	1.02		0.75		
30	0.12	2.89	4.62	8.70	9.73	39.74	5.38	2.49	2.98	0.97		0.58		
31		3.46		7.59	9.21		5.49		2.89	0.79		0.54		
Total	25.75	349.21	399.20	538.57	569.47	2526.23	684.76	389.02	78.71	38.10	33.32	31.66	5664.00	Tonday
Mean	0.86	11.26	13.31	17.37	18.37	84.21	22.09	12.97	2.54	1.23	1.19	1.02		Ton/day
Max	4.45	109.46	47.19	53.73	59.36	548.54	102.78	68.07	4.62	1.75	1.97	2.58	548.54	Ton/day
Min	0.12	0.36	3.14	4.84	6.99	6.87	4.94	2.49	1.97	0.79	0.90	0.54	0.12	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	20
R-Square	0.8877
Remarks	Continued Sediment Station

$$QS = 2.4387\ QW^{1.40410}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.04	17.87	51.68	60.97	570.98	123.86	240.90	16.19	24.89	19.53	0.00	0.00		
2	11.57	36.58	51.68	68.27	337.37	99.18	181.15	24.89	24.89	16.19	0.00	0.00		
3	11.57	105.20	63.41	60.97	202.80	81.76	150.04	24.89	23.04	16.19	0.00	0.00		
4	11.57	63.41	81.76	56.27	195.50	99.18	143.36	30.54	23.04	16.19	0.00	0.00		
5	11.57	78.95	102.18	70.69	177.61	123.86	143.36	34.50	23.04	16.19	0.00	0.00		
6	13.04	63.41	76.17	87.46	177.61	163.66	276.55	34.50	23.04	16.19	0.41	0.00		
7	14.62	76.17	146.69	102.18	177.61	195.50	432.21	34.50	21.29	16.19	2.79	0.00		
8	14.62	56.27	195.50	117.54	177.61	177.61	342.19	34.50	21.29	16.19	2.79	0.00		
9	11.57	45.05	199.14	140.05	177.61	191.89	191.89	38.61	21.29	16.19	2.79	0.00		
10	11.57	181.15	156.81	249.68	177.61	130.27	174.09	42.84	19.53	16.19	2.79	0.00		
11	8.73	170.59	111.32	245.28	184.71	105.20	143.36	47.20	19.53	16.19	2.79	0.00		
12	8.73	78.95	93.27	225.13	533.80	468.80	111.32	40.75	17.87	16.19	0.00	0.00		
13	7.38	49.47	99.18	213.88	1025.08	2894.01	84.59	24.89	17.87	16.19	0.00	0.00		
14	10.09	36.58	76.17	177.61	442.58	17816.99	84.59	19.53	17.87	19.53	2.79	0.00		
15	21.29	30.54	81.76	146.69	221.36	13302.04	108.25	23.04	16.19	17.87	1.88	0.00		
16	30.54	26.71	81.76	143.36	442.58	1612.26	84.59	16.19	16.19	16.19	0.00	0.00		
17	34.50	23.04	81.76	188.29	577.24	503.38	81.76	21.29	16.19	16.19	0.00	0.00		
18	30.54	19.53	81.76	153.41	740.04	381.45	81.76	24.89	14.62	16.19	0.00	0.00		
19	21.29	28.64	114.42	210.17	753.56	356.77	81.76	24.89	14.62	16.19	0.00	0.00		
20	19.53	356.77	191.89	299.53	719.90	318.29	68.27	26.71	14.62	16.19	0.00	0.00		
21	19.53	240.90	150.04	249.68	673.53	308.87	68.27	26.71	13.04	16.19	0.00	0.00		
22	10.09	232.73	123.86	156.81	468.80	299.53	58.65	28.64	13.04	14.62	0.00	0.00		
23	4.93	249.68	111.32	174.09	401.54	254.10	56.27	30.54	13.04	14.62	0.00	2.79		
24	3.83	160.22	93.27	294.89	366.59	213.88	40.75	32.54	11.57	14.62	0.00	2.79		
25	4.93	84.59	45.05	323.03	327.79	195.50	54.00	32.54	11.57	13.04	2.79	2.79		
26	7.38	108.25	47.20	272.02	285.68	177.61	17.87	30.54	10.09	13.04	2.79	2.79		
27	13.04	81.76	49.47	240.90	304.19	160.22	16.19	30.54	10.09	11.57	2.79	2.79		
28	10.09	70.69	32.54	294.89	376.48	160.22	16.19	28.64	10.09	11.57	2.79	2.79		
29	10.09	93.27	34.50	299.53	447.79	167.11	28.64	24.89	8.73	11.57		2.79		
30	10.09	102.18	65.78	308.87	453.02	371.52	36.58	24.89	8.73	10.09		2.79		
31		38.61		1623.36	213.88		21.29		8.73	10.09		2.79		
Total	411.36	3007.76	2891.34	7255.50	12332.45	41454.52	3620.69	875.81	509.63	473.18	30.19	25.11	72887.54	Tonday
Mean	13.71	97.02	96.38	234.05	397.82	1381.82	116.80	29.19	16.44	15.26	1.08	0.81		Ton/day
Max	34.50	356.77	199.14	1623.36	1025.08	17816.99	432.21	47.20	24.89	19.53	2.79	2.79	17816.99	Ton/day
Min	3.83	17.87	32.54	56.27	177.61	81.76	16.19	16.19	8.73	10.09	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	20
R-Square	0.8126
Remarks	Continued Sediment Station

$$QS = 3.9493\ QW^{1.34550}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.66	32.87	52.08	230.63	165.38	32.50	402.92	59.63	4.71	4.00	4.43	3.33		
2	16.55	169.55	30.24	163.31	232.89	18.18	506.94	341.97	4.43	4.22	6.15	3.58		
3	19.21	237.45	24.39	175.86	293.78	15.56	280.36	625.53	4.43	4.22	7.43	2.93		
4	20.17	143.59	82.94	377.51	370.33	13.40	150.99	759.65	4.43	3.79	10.17	3.12		
5	18.81	74.46	384.73	531.11	432.46	14.95	108.08	799.28	4.43	3.79	11.62	2.73		
6	25.42	39.53	526.25	540.86	410.25	13.11	94.64	746.55	4.22	2.73	11.90	2.35		
7	33.69	26.89	555.57	492.57	363.19	12.83	102.65	651.03	4.00	2.73	11.90	2.73		
8	32.14	23.63	540.86	399.26	287.05	17.55	139.19	511.75	4.00	2.73	8.77	2.54		
9	26.19	17.55	511.75	328.01	219.37	28.73	277.03	381.12	4.00	2.35	7.18	2.73		
10	22.96	13.70	454.79	253.56	157.12	55.82	341.97	201.67	4.00	2.73	6.39	2.93		
11	20.49	13.11	300.55	173.75	123.39	55.82	280.36	60.59	3.79	2.93	5.62	2.93		
12	18.18	16.24	192.97	106.72	105.36	99.96	192.97	27.23	3.58	3.12	4.93	3.12		
13	14.36	13.40	157.12	92.01	155.07	341.97	124.80	20.49	3.79	2.93	4.93	2.93		
14	18.81	11.34	146.54	90.70	230.63	983.80	93.32	16.85	4.00	2.93	4.93	2.73		
15	98.62	7.43	143.59	85.51	212.69	1332.57	66.45	15.93	4.00	2.73	4.93	2.54		
16	149.50	5.62	161.24	58.67	113.59	1423.37	44.80	13.99	4.00	2.73	4.71	2.54		
17	106.72	4.93	153.03	44.80	52.08	1432.53	31.77	13.99	3.58	2.54	4.43	2.54		
18	55.82	4.00	133.39	45.69	27.58	1386.86	36.11	16.24	3.58	2.54	3.79	2.35		
19	32.50	4.93	131.95	79.59	28.02	1350.60	32.14	14.66	3.58	2.93	3.33	2.54		
20	24.39	23.30	134.84	140.66	133.39	1341.58	29.88	14.36	3.58	3.12	3.12	2.73		
21	20.90	188.65	110.83	142.12	263.82	1314.59	37.81	14.36	3.33	3.12	2.93	2.73		
22	19.85	239.73	77.53	112.21	263.82	1395.97	53.94	9.04	2.93	2.93	2.93	2.35		
23	18.49	153.03	51.15	77.53	203.87	1261.05	57.72	7.68	2.54	2.93	2.93	4.22		
24	21.23	105.36	29.88	55.82	137.74	1190.56	51.15	6.88	2.35	3.12	3.58	8.19		
25	23.30	99.96	20.17	43.02	109.45	1069.76	43.02	6.63	1.64	2.93	3.58	5.91		
26	21.23	116.37	14.36	45.69	109.45	941.95	34.06	6.63	1.47	2.93	3.33	6.88		
27	17.55	108.08	12.83	99.96	113.59	812.61	43.02	5.91	2.54	2.93	3.33	6.39		
28	14.95	134.84	20.17	145.06	92.01	701.18	57.72	5.62	2.54	2.73	3.33	7.18		
29	16.55	139.19	57.72	182.23	76.51	531.11	57.72	5.39	2.54	2.93		6.63		
30	17.55	88.09	190.81	171.65	62.53	384.73	43.91	4.93	2.35	2.93		4.43		
31		67.44		143.59	47.50		33.69		2.54	4.00		3.58		
Total	960.79	2324.26	5404.27	5629.66	5593.91	19575.20	3851.13	5365.58	106.90	95.27	156.60	114.41	49177.98	Tonday
Mean	32.03	74.98	180.14	181.60	180.45	652.51	124.23	178.85	3.45	3.07	5.59	3.69		Ton/day
Max	149.50	239.73	555.57	540.86	432.46	1432.53	506.94	799.28	4.71	4.22	11.90	8.19	1432.53	Ton/day
Min	14.36	4.00	12.83	43.02	27.58	12.83	29.88	4.93	1.47	2.35	2.93	2.35	1.47	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
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 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.00	348.17	362.14	320.84	180.65	4694.52	320.84	1747.58	658.64	49.03	2.04	0.61		
2	4.00	496.38	697.76	376.30	582.86	7513.99	996.08	3251.47	620.33	41.61	1.71	0.61		
3	4.00	243.77	620.33	496.38	1495.93	5079.29	970.16	6726.15	620.33	28.13	1.11	3.57		
4	3.57	496.38	528.23	294.31	4847.13	3139.71	658.64	4269.97	601.49	22.12	0.61	2.04		
5	3.57	761.20	697.76	189.25	2920.42	2478.63	739.30	2812.92	582.86	49.03	0.61	2.04		
6	3.57	528.23	1048.64	128.90	2071.58	4409.89	1102.17	2572.59	546.22	10.86	0.52	2.04		
7	3.57	449.96	1860.86	142.09	1495.93	10681.78	1636.87	2385.93	528.23	2.77	0.52	2.04		
8	2.77	307.47	1600.54	163.89	1899.19	12630.26	2572.59	2159.77	528.23	1.71	0.61	2.04		
9	1.40	225.05	970.16	281.36	1673.48	7409.66	1673.48	2249.26	528.23	1.11	0.61	2.04		
10	2.77	206.87	582.86	225.05	1600.54	3865.86	1304.29	1822.82	512.22	1.11	0.61	2.04		
11	2.40	197.99	348.17	281.36	1822.82	2812.92	2974.71	1564.51	512.22	1.11	0.61	2.04		
12	2.04	334.40	243.77	225.05	2340.05	2715.87	2204.35	1367.12	528.23	1.11	0.61	2.04		
13	2.04	307.47	449.96	155.73	3307.87	2667.80	1184.23	1242.53	512.22	1.11	0.61	2.04		
14	2.77	256.09	897.35	73.78	4269.97	2812.92	639.38	1242.53	496.38	1.11	0.61	2.04		
15	2.77	243.77	897.35	45.26	3251.47	3801.85	419.93	1212.05	496.38	1.11	0.52	1.71		
16	7.13	348.17	620.33	25.06	2204.35	5474.78	243.77	1156.64	496.38	1.11	0.52	1.71		
17	8.31	405.20	496.38	16.65	1431.01	5315.31	281.36	1102.17	465.26	1.11	0.43	2.04		
18	6.01	528.23	390.65	34.63	828.27	3195.41	243.77	1048.64	434.86	1.11	0.61	2.04		
19	4.97	465.26	348.17	52.90	739.30	1102.17	206.87	996.08	390.65	1.11	0.61	2.04		
20	3.16	419.93	243.77	172.20	739.30	851.08	172.20	944.49	376.30	1.11	0.61	1.71		
21	3.16	320.84	82.81	480.73	1184.23	697.76	180.65	944.49	362.14	1.11	0.61	1.71		
22	2.04	281.36	38.06	658.64	2812.92	851.08	28.13	944.49	362.14	1.11	0.61	1.71		
23	2.04	256.09	41.61	620.33	2027.98	678.10	34.63	897.35	334.40	1.11	0.61	2.04		
24	2.77	320.84	45.26	405.20	1156.64	761.20	103.95	874.10	234.34	1.11	0.61	7.13		
25	2.77	348.17	49.03	419.93	1129.29	717.62	98.01	851.08	234.34	1.11	0.61	15.12		
26	8.31	390.65	49.03	256.09	1495.93	678.10	98.01	805.69	268.62	1.11	0.61	15.12		
27	206.87	405.20	180.65	243.77	1367.12	376.30	180.65	761.20	307.47	1.11	0.61	9.56		
28	142.09	334.40	16.65	405.20	2159.77	334.40	2920.42	717.62	362.14	1.11	0.61	8.31		
29	206.87	215.89	92.20	434.86	3549.66	215.89	2204.35	678.10	376.30	1.11		6.01		
30	268.62	148.85	189.25	320.84	5474.78	225.05	1242.53	678.10	256.09	1.11		4.97		
31		148.85		307.47	4269.97		1273.28		73.78	1.11		4.00		
Total	920.36	10741.13	14689.73	8254.05	66330.41	98189.20	28909.60	50027.44	13607.42	230.79	19.57	114.16	292033.86	Tonday
Mean	30.68	346.49	489.66	266.26	2139.69	3272.97	932.57	1667.58	438.95	7.44	0.70	3.68		Ton/day
Max	268.62	761.20	1860.86	658.64	5474.78	12630.26	2974.71	6726.15	658.64	49.03	2.04	15.12	12630.26	Ton/day
Min	1.40	148.85	16.65	16.65	180.65	215.89	28.13	678.10	73.78	1.11	0.43	0.61	0.43	Ton/day

WATER YEAR : 2008

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

Drainge Area	386 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
Number of observation	28
R-Square	0.7436
Remarks	Continued Sediment Station

$$QS = 0.9729\ QW^{2.13470}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.63	44.58	377.95	25.28	92.60	211.44	138.40	111.04	13.26	23.00	11.97	7.48		
2	16.07	30.21	111.04	25.28	73.85	233.04	117.58	117.58	13.26	23.00	11.97	7.48		
3	17.58	25.28	23.00	25.28	201.05	190.95	98.55	82.39	13.26	20.82	11.97	7.48		
4	16.07	497.85	17.58	27.69	78.06	255.76	98.55	69.76	13.26	20.82	11.97	7.48		
5	16.07	73.85	17.58	30.21	82.39	7941.91	117.58	61.96	13.26	19.17	11.97	7.48		
6	16.07	35.60	14.63	32.85	82.39	438.11	78.06	69.76	13.26	19.17	11.97	7.48		
7	16.07	27.69	14.63	27.69	73.85	211.44	73.85	69.76	13.26	19.17	11.97	7.48		
8	16.07	23.00	17.58	38.48	86.85	271.67	69.76	65.80	13.26	19.17	11.97	7.48		
9	16.07	19.17	17.58	153.28	104.69	162.29	61.96	61.96	13.26	17.58	11.97	7.48		
10	16.07	14.63	19.17	98.55	86.85	111.04	98.55	61.96	13.26	16.07	11.97	6.65		
11	16.07	17.58	19.17	38.48	171.57	82.39	1785.86	61.96	13.26	14.63	10.74	5.87		
12	16.07	47.82	19.17	27.69	153.28	51.17	701.65	61.96	0.00	14.63	10.74	5.87		
13	16.07	20.82	467.47	27.69	162.29	44.58	233.04	61.96	13.26	14.63	10.74	5.87		
14	16.07	16.07	131.26	27.69	190.95	162.29	181.12	58.24	14.63	14.63	9.58	5.14		
15	16.07	30.21	32.85	23.00	145.74	92.60	145.74	58.24	14.63	14.63	9.58	4.46		
16	17.58	30.21	27.69	23.00	104.69	78.06	138.40	58.24	14.63	14.63	9.58	5.14		
17	16.07	27.69	27.69	25.28	98.55	78.06	138.40	58.24	14.63	14.63	9.58	5.14		
18	16.07	27.69	25.28	124.32	153.28	78.06	131.26	58.24	14.63	14.63	9.58	5.14		
19	14.63	27.69	14.63	41.47	117.58	69.76	131.26	58.24	14.63	14.63	9.58	5.14		
20	14.63	27.69	14.63	16.07	92.60	69.76	145.74	14.63	14.63	14.63	9.58	5.14		
21	13.26	27.69	14.63	41.47	1620.92	73.85	145.74	14.63	17.58	14.63	9.58	4.46		
22	10.74	25.28	25.28	35.60	1139.09	61.96	131.26	14.63	23.00	13.26	9.58	4.46		
23	11.97	16.07	41.47	38.48	595.12	86.85	181.12	14.63	25.28	13.26	8.50	4.46		
24	10.74	23.00	23.00	44.58	181.12	61.96	171.57	14.63	25.28	13.26	8.50	5.14		
25	10.74	19.17	19.17	30.21	222.10	61.96	145.74	14.63	25.28	13.26	8.50	5.14		
26	32.85	17.58	19.17	27.69	244.26	65.80	117.58	14.63	25.28	13.26	8.50	5.14		
27	14.63	19.17	17.58	44.58	825.02	61.96	305.03	14.63	25.28	13.26	8.50	5.14		
28	32.85	19.17	19.17	35.60	873.64	61.96	98.55	14.63	25.28	13.26	8.50	6.65		
29	20.82	19.17	27.69	78.06	358.94	58.24	65.80	14.63	25.28	13.26		4.46		
30	17.58	20.82	30.21	51.17	244.26	54.64	61.96	14.63	23.00	13.26		3.83		
31		61.96		47.82	201.05		61.96		23.00	13.26		3.25		
Total	496.28	1334.41	1647.95	1334.54	8858.63	11483.56	6171.62	1468.22	525.07	491.50	289.14	179.01	34279.93	Tonday
Mean	16.54	43.05	54.93	43.05	285.76	382.79	199.08	48.94	16.94	15.85	10.33	5.77		Ton/day
Max	32.85	497.85	467.47	153.28	1620.92	7941.91	1785.86	117.58	25.28	23.00	11.97	7.48	7941.91	Ton/day
Min	10.74	14.63	14.63	16.07	73.85	44.58	61.96	14.63	0.00	13.26	8.50	3.25	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	20
R-Square	0.8006
Remarks	Continued Sediment Station

$$QS = 5.5801\ QW^{1.13720}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	421.19	168.33	28.54	0.00	446.94	1665.04	2004.62	161.65	0.00	0.00	0.00		
2	48.53	591.61	135.26	42.81	19.46	446.94	1958.35	3036.62	148.38	0.00	0.00	0.00		
3	48.53	529.64	155.00	66.18	220.91	514.28	1858.29	3720.94	148.38	0.00	0.00	0.00		
4	48.53	408.38	421.19	78.27	485.90	472.87	2073.55	4388.23	135.26	0.00	0.00	0.00		
5	19.46	290.34	607.23	90.60	446.94	395.62	2416.81	4948.41	122.29	0.00	0.00	0.00		
6	0.00	212.03	560.52	78.27	395.62	421.19	2260.48	5481.37	115.86	0.00	0.00	0.00		
7	0.00	115.86	670.18	54.34	335.72	816.71	1843.33	5519.27	103.14	0.00	0.00	0.00		
8	0.00	48.53	825.98	28.54	267.96	893.57	1513.33	4773.20	90.60	0.00	0.00	0.00		
9	0.00	15.10	670.18	23.95	203.20	977.38	1477.08	3916.23	84.41	0.00	0.00	0.00		
10	0.00	0.00	459.88	23.95	141.80	1205.67	1562.08	2733.22	72.20	0.00	0.00	0.00		
11	0.00	0.00	335.72	33.22	128.75	1354.32	1547.43	1873.26	60.22	0.00	0.00	0.00		
12	0.00	0.00	290.34	84.41	135.26	1381.93	1385.88	1385.88	60.22	0.00	0.00	0.00		
13	0.00	10.89	290.34	66.18	141.80	1943.30	1170.77	1109.05	48.53	0.00	0.00	0.00		
14	0.00	48.53	290.34	23.95	238.80	2686.38	960.83	980.69	42.81	0.00	0.00	0.00		
15	0.00	247.81	335.72	6.87	654.38	2941.82	867.86	900.59	33.22	0.00	0.00	0.00		
16	0.00	446.94	279.12	6.87	446.94	2739.92	782.06	865.52	23.95	0.00	0.00	0.00		
17	0.00	335.72	212.03	3.12	290.34	2228.30	514.28	839.91	15.10	0.00	0.00	0.00		
18	0.00	358.70	229.83	3.12	203.20	2148.09	370.26	823.66	6.87	0.00	0.00	0.00		
19	0.00	358.70	408.38	6.87	155.00	2212.23	279.12	782.06	3.12	0.00	0.00	0.00		
20	0.00	370.26	686.04	33.22	148.38	2465.57	220.91	701.93	0.00	0.00	0.00	0.00		
21	0.00	514.28	782.06	48.53	247.81	2914.80	382.92	622.90	0.00	0.00	0.00	0.00		
22	0.00	654.38	638.61	90.60	607.23	3201.33	382.92	576.04	0.00	0.00	0.00	0.00		
23	0.00	798.21	408.38	54.34	686.04	3299.83	370.26	529.64	0.00	0.00	0.00	0.00		
24	0.00	733.86	279.12	23.95	421.19	3193.14	485.90	472.87	0.00	0.00	0.00	0.00		
25	0.00	459.88	168.33	3.12	301.61	2476.43	607.23	370.26	0.00	0.00	0.00	0.00		
26	0.00	312.93	109.48	0.00	229.83	1413.56	686.04	279.12	0.00	0.00	0.00	0.00		
27	0.00	279.12	84.41	0.00	247.81	974.06	701.93	247.81	0.00	0.00	0.00	0.00		
28	0.00	229.83	60.22	0.00	279.12	874.86	867.86	229.83	0.00	0.00	0.00	0.00		
29	0.00	135.26	37.98	0.00	256.85	879.53	937.71	212.03	0.00	0.00		0.00		
30	84.41	122.29	28.54	0.00	395.62	1084.09	1090.80	185.67	0.00	0.00		0.00		
31		148.38		0.00	421.19		1445.28		0.00	0.00		0.00		
Total	249.46	9198.65	10628.74	1003.82	9154.66	49004.66	34686.59	54510.83	1476.21	0.00	0.00	0.00	169913.62	Tonday
Mean	8.32	296.73	354.29	32.38	295.31	1633.49	1118.92	1817.03	47.62	0.00	0.00	0.00		Ton/day
Max	84.41	798.21	825.98	90.60	686.04	3299.83	2416.81	5519.27	161.65	0.00	0.00	0.00	5519.27	Ton/day
Min	0.00	0.00	28.54	0.00	0.00	395.62	220.91	185.67	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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.

Ban Khai **Amphoe** Mueang **Changwat** Chaiyaphum

Drainge 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	1998-2008
Number of observation	176
R-Square	0.8926
Remarks	Continued Sediment Station

$$QS = 5.3117\ QW^{1.20490}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	18.37	131.45	382.54	105.63	104.14	797.08	3009.95	1915.54	440.47	113.12	71.79	70.59		
2	20.76	271.73	382.54	113.12	108.62	754.06	2919.89	2167.31	395.83	113.12	69.40	46.38		
3	50.85	453.52	393.17	122.23	133.00	768.35	2919.89	2615.79	371.97	111.62	64.68	43.07		
4	105.63	479.83	443.73	154.98	332.79	884.29	3009.95	3490.12	343.17	110.12	46.38	41.97		
5	102.66	379.90	595.43	214.14	669.28	918.61	3153.48	7392.00	235.92	110.12	30.28	41.97		
6	99.70	284.28	763.58	262.51	706.75	859.91	3321.07	10271.84	182.17	108.62	29.25	39.80		
7	80.24	199.11	825.98	233.72	479.83	835.65	3672.23	11554.94	169.63	93.83	28.23	39.80		
8	81.46	123.76	869.65	224.98	262.51	992.90	4041.07	11554.94	153.39	90.92	29.25	37.65		
9	81.46	107.12	913.70	249.16	249.16	1106.11	4041.07	11215.31	142.35	88.02	28.23	33.40		
10	82.68	69.40	874.52	274.24	260.28	1227.78	3672.23	10877.41	142.35	86.58	27.38	30.28		
11	92.37	68.22	801.88	246.94	233.72	1400.94	3405.42	10271.84	147.06	85.14	26.53	28.23		
12	86.58	79.02	749.31	279.25	171.71	1599.43	3279.04	8784.76	142.35	83.91	24.86	28.23		
13	77.81	85.14	692.66	314.77	194.85	1734.16	3195.24	6623.27	140.78	75.39	24.03	30.28		
14	76.60	98.23	669.28	294.38	238.12	1863.41	2979.88	4415.73	139.22	56.54	22.39	35.51		
15	76.60	108.62	641.42	260.28	483.13	1994.20	2726.39	3237.09	134.55	51.98	21.57	51.98		
16	74.19	201.24	627.56	227.16	754.06	2138.88	2513.29	2800.54	131.45	50.85	24.86	54.26		
17	75.39	340.57	618.35	211.98	725.61	2353.64	2310.41	2513.29	129.90	51.98	47.49	41.97		
18	81.46	350.99	526.45	161.36	581.74	2726.39	2096.36	2296.03	128.36	53.12	43.07	50.85		
19	77.81	364.08	493.07	156.57	456.80	3040.07	2002.97	2073.39	125.29	54.26	24.03	30.28		
20	79.02	395.83	476.53	171.71	493.07	3672.23	1863.41	1898.14	122.23	54.26	29.25	28.23		
21	80.24	377.25	536.54	207.67	503.05	5375.77	1674.05	1704.06	117.66	62.33	44.17	27.38		
22	75.39	356.21	581.74	224.98	646.05	6623.27	1525.40	1532.77	119.18	90.92	37.65	26.53		
23	67.03	430.72	523.10	214.14	855.05	8201.35	1408.22	1358.11	93.83	71.79	24.03	24.86		
24	67.03	604.58	414.55	173.79	953.16	9374.83	1292.67	1176.29	96.76	56.54	16.80	23.21		
25	69.40	758.82	483.13	134.55	889.18	9971.29	1279.65	1022.88	107.12	53.12	19.16	22.39		
26	69.40	613.75	408.12	126.82	782.69	9672.28	1292.67	889.18	104.14	53.12	40.88	21.57		
27	71.79	387.85	296.92	117.66	622.95	8492.20	1312.24	768.35	116.15	50.85	45.27	22.39		
28	72.99	304.55	211.98	101.18	577.20	6623.27	1344.98	664.63	125.29	50.85	65.85	20.76		
29	77.81	327.63	129.90	105.63	641.42	4605.14	1408.22	568.12	120.70	92.37		20.76		
30	81.46	358.83	107.12	105.63	678.62	3321.07	1554.94	499.72	117.66	96.76		22.39		
31		325.05		105.63	777.91		1704.06		111.62	81.46		47.49		
Total	2254.18	9437.28	16434.45	5896.79	15566.45	103928.56	75930.34	128153.39	5148.55	2403.61	1006.76	1084.46	367244.82	Tonday
Mean	75.14	304.43	547.82	190.22	502.14	3464.29	2449.37	4271.78	166.08	77.54	35.96	34.98		Ton/day
Max	105.63	758.82	913.70	314.77	953.16	9971.29	4041.07	11554.94	440.47	113.12	71.79	70.59	11554.94	Ton/day
Min	18.37	68.22	107.12	101.18	104.14	754.06	1279.65	499.72	93.83	50.85	16.80	20.76	16.80	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	20
R-Square	0.8632
Remarks	Continued Sediment Station

$$QS = 8.1208\ QW^{1.23810}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.18	93.55	1331.16	222.58	307.00	290.91	1378.50	769.26	5.22	0.00	90.35	14.53		
2	10.18	100.03	1307.61	315.10	623.53	274.98	1426.16	1718.35	4.76	0.00	90.35	14.53		
3	10.18	87.16	1319.38	493.84	1110.81	259.24	1156.56	1914.12	3.87	0.00	84.00	14.53		
4	10.18	87.16	1366.64	716.54	1583.13	245.61	801.23	1644.33	3.02	0.00	62.53	26.51		
5	10.18	80.86	1438.12	654.26	1583.13	245.61	529.53	1366.64	2.21	0.00	48.00	53.72		
6	10.18	74.65	1546.63	583.93	1249.09	274.98	565.68	909.55	1.46	0.00	56.63	24.01		
7	10.18	74.65	1681.26	511.63	1191.10	234.04	1402.29	633.74	0.78	0.00	56.63	59.57		
8	10.18	70.06	1821.99	538.52	1065.43	239.81	1390.39	556.60	0.00	0.00	59.57	56.63		
9	10.18	80.86	1848.22	801.23	964.67	274.98	1438.12	331.44	0.00	0.00	65.52	62.53		
10	12.32	176.09	1718.35	1031.63	790.55	234.04	1307.61	222.58	0.00	0.00	71.58	65.52		
11	14.53	149.26	1583.13	1284.14	476.18	145.74	876.78	177.91	0.00	0.00	68.54	62.53		
12	14.53	106.59	1510.29	1378.50	389.81	194.43	547.55	161.67	0.00	0.00	53.72	26.51		
13	14.53	70.06	1730.75	1202.65	998.04	574.79	398.30	156.33	0.00	0.00	45.19	16.81		
14	12.32	70.06	1861.37	964.67	1366.64	1795.83	234.04	140.51	0.00	0.00	39.66	14.53		
15	12.32	61.04	1900.91	623.53	1179.56	2879.14	167.05	114.90	0.00	0.00	34.28	12.32		
16	12.32	52.28	1718.35	511.63	998.04	3474.69	172.46	100.03	0.00	0.00	29.06	10.18		
17	14.53	39.66	1570.95	574.79	779.89	3609.30	194.43	95.17	0.00	0.00	19.16	14.53		
18	16.81	31.65	1693.61	695.66	779.89	2822.04	194.43	95.17	0.00	0.00	10.18	7.62		
19	16.81	1020.41	2127.90	727.03	502.72	1693.61	172.46	87.16	0.00	0.00	6.64	6.16		
20	16.81	1133.64	2666.15	986.90	364.57	1133.64	161.67	80.86	0.00	0.00	5.69	5.69		
21	19.16	1331.16	2836.29	1848.22	372.95	1065.43	145.74	74.65	0.00	0.00	4.76	6.64		
22	19.16	1474.12	2456.39	1681.26	520.56	1307.61	135.31	62.53	0.00	0.00	4.31	7.62		
23	21.56	1656.62	1821.99	1693.61	467.40	1795.83	140.51	53.72	0.00	0.00	4.76	7.62		
24	21.56	1782.78	1133.64	1414.21	364.57	1887.71	151.02	42.41	0.00	5.69	5.22	7.62		
25	24.01	1632.06	583.93	844.24	290.91	1426.16	161.67	34.28	0.00	42.41	6.64	7.62		
26	24.01	1534.50	364.57	538.52	245.61	1122.22	145.74	26.51	0.00	71.58	7.13	7.62		
27	26.51	1462.10	298.93	372.95	239.81	643.99	183.39	21.56	0.00	71.58	8.12	7.62		
28	29.06	1390.39	282.92	298.93	239.81	485.00	251.43	10.18	0.00	77.74	12.32	4.76		
29	31.65	1342.97	282.92	290.91	259.24	415.37	259.24	8.12	0.00	84.00		0.00		
30	56.63	1342.97	251.43	259.24	290.91	511.63	222.58	7.62	0.00	87.16		0.20		
31		1331.16		234.04	307.00		251.43		0.00	90.35		24.01		
Total	522.76	19940.55	44055.78	24294.89	21902.55	31558.36	16563.30	11617.90	21.32	530.51	1050.54	650.29	172708.75	Tonday
Mean	17.43	643.24	1468.53	783.71	706.53	1051.95	534.30	387.26	0.69	17.11	37.52	20.98		Ton/day
Max	56.63	1782.78	2836.29	1848.22	1583.13	3609.30	1438.12	1914.12	5.22	90.35	90.35	65.52	3609.30	Ton/day
Min	10.18	31.65	251.43	222.58	239.81	145.74	135.31	7.62	0.00	0.00	4.31	0.00	0.00	Ton/day

WATER YEAR : 2008

CHI RIVER BASIN

Lam Pao at Ban Tha Hai, Udon Thani (E.65)

Lat 16 - 57 - 02 N Long 103 - 10 - 16 E

Location : on left bank at the bridge on highway.

Ban Tha Hai **Amphoe** Si That **Changwat** Udon Thani

Drainge Area	2,149 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1997,2008-Cont'd
Actual Measurement	1997,2008-Cont'd
Using Rating Curve Water Year	2008
Number of observation	56
R-Square	0.8277
Remarks	Continued Sediment Station

$$QS = 9.9248\ QW^{0.84320}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.79	44.58	5.53	23.29	200.84	300.11	393.07	80.67	43.70	32.21	8.05	0.20		
2	6.90	35.87	5.06	41.14	219.34	289.42	371.86	354.72	42.42	30.59	7.79	0.00		
3	6.45	26.46	15.14	36.46	278.65	271.88	352.56	490.20	41.78	29.36	7.70	0.00		
4	9.08	20.03	27.85	34.95	282.25	256.88	336.99	487.77	40.50	28.13	7.44	0.00		
5	10.76	16.29	40.56	34.28	258.25	255.51	350.41	446.06	39.21	26.88	7.26	0.00		
6	12.38	15.14	69.75	39.40	237.55	252.77	223.57	422.43	37.77	25.63	7.08	0.00		
7	12.38	16.67	90.20	41.72	220.75	241.72	159.83	380.37	36.99	24.36	6.81	0.00		
8	10.76	14.75	226.38	33.95	209.41	241.72	107.13	338.73	35.81	23.08	6.63	0.00		
9	9.50	10.76	291.20	31.27	195.08	250.01	85.74	321.28	35.01	21.78	6.36	0.00		
10	7.79	8.65	240.33	70.92	182.01	226.38	66.83	314.25	34.22	20.47	6.09	0.00		
11	7.35	7.35	196.52	85.18	170.25	207.99	52.44	128.27	33.42	18.25	5.81	0.00		
12	6.90	6.00	199.40	86.30	161.32	189.29	43.70	100.64	32.21	17.20	5.72	0.00		
13	6.45	5.06	234.77	84.62	159.83	174.67	41.78	77.25	31.00	16.60	5.34	0.00		
14	6.00	4.58	215.09	88.53	173.20	213.68	39.21	69.17	30.18	15.99	5.16	0.00		
15	5.53	3.60	180.55	82.93	173.20	310.73	37.38	65.65	28.54	15.37	4.97	0.00		
16	5.06	3.08	149.28	85.18	165.79	373.99	36.20	65.65	26.88	14.44	4.87	0.00		
17	5.06	2.55	128.68	79.53	161.32	426.59	34.62	65.65	25.63	13.81	4.68	0.00		
18	4.58	2.00	126.18	81.23	156.83	679.72	34.62	63.29	23.93	13.18	4.68	0.00		
19	4.10	2.00	127.85	84.62	150.79	754.49	34.22	62.10	21.78	12.54	4.78	0.00		
20	4.10	2.00	116.09	120.32	223.57	727.47	33.82	60.91	20.47	11.90	4.78	0.00		
21	3.60	1.42	102.38	142.68	251.39	780.21	35.01	58.51	19.15	11.25	4.78	0.00		
22	3.60	1.42	89.64	138.59	336.99	727.47	36.60	58.51	17.81	10.76	4.68	0.00		
23	5.53	2.00	82.93	150.79	326.53	655.62	35.81	58.51	17.20	9.92	4.68	0.00		
24	6.45	2.55	75.53	156.83	254.14	589.72	35.01	57.31	16.29	9.76	4.58	0.00		
25	17.05	5.06	66.83	168.76	212.26	530.42	34.22	56.10	15.83	9.50	4.58	0.00		
26	15.53	6.90	55.73	190.74	238.94	482.90	33.82	53.66	15.22	9.25	4.58	0.00		
27	12.38	9.92	42.29	177.62	284.04	448.53	34.22	51.20	14.44	9.17	4.49	0.00		
28	11.17	13.58	32.28	173.20	300.11	463.32	35.81	49.97	13.81	8.91	4.39	0.00		
29	13.18	11.17	26.81	168.76	303.65	448.53	43.70	46.22	13.18	8.65		0.00		
30	16.67	8.22	23.65	162.82	294.77	411.99	62.10	44.33	12.54	8.57		0.00		
31		6.00		165.79	287.63		70.34		12.06	8.31		0.00		
Total	254.08	315.66	3284.48	3062.40	7070.68	12183.73	3292.62	4929.38	828.98	515.82	158.76	0.20	35896.79	Tonday
Mean	8.47	10.18	109.48	98.79	228.09	406.12	106.21	164.31	26.74	16.64	5.67	0.01		Ton/day
Max	17.05	44.58	291.20	190.74	336.99	780.21	393.07	490.20	43.70	32.21	8.05	0.20	780.21	Ton/day
Min	3.60	1.42	5.06	23.29	150.79	174.67	33.82	44.33	12.06	8.31	4.39	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2004-2008
Number of observation	108
R-Square	0.8081
Remarks	Continued Sediment Station

$$QS = 9.2506\ QW^{0.97240}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	547.07	2145.77	2464.35	1531.86	1616.76	1747.13	7394.97	6594.55	6183.59	720.22	415.19	463.56		
2	541.47	2403.84	2264.98	1479.54	1610.23	1806.95	7472.35	6524.36	6123.75	647.77	395.80	502.15		
3	670.09	2423.81	2139.15	1668.94	1893.48	1873.52	7511.02	6442.21	6033.97	487.69	400.65	449.07		
4	759.14	2384.01	2059.56	2072.83	2390.62	1840.24	7540.77	6442.21	5959.11	434.56	382.86	420.04		
5	736.91	2231.89	2059.56	2258.37	2693.74	1806.95	7540.77	6491.50	5854.27	277.19	326.08	405.50		
6	647.77	2013.10	2092.73	2225.27	2747.63	1820.27	7540.77	6540.79	5743.39	262.47	342.33	378.81		
7	731.35	1880.17	2178.91	2046.29	2558.87	1773.64	7540.77	6594.55	5611.44	285.35	313.88	386.90		
8	928.82	1800.29	2245.13	1886.82	2317.91	1766.98	7570.52	6650.53	5443.38	289.43	301.66	458.73		
9	1012.69	1695.02	2284.83	1806.95	2139.15	1786.97	7659.73	6650.53	5205.15	293.51	293.51	434.56		
10	1030.63	1584.12	2331.13	1920.08	1986.53	1966.60	7719.20	6687.84	4936.80	301.66	285.35	382.86		
11	922.82	1584.12	2377.41	1873.52	1866.86	2238.51	7719.20	6687.84	4503.08	350.44	313.88	444.23		
12	748.03	1584.12	2558.87	1753.65	1740.62	2477.86	7778.64	6743.80	4043.57	410.35	322.01	478.04		
13	709.09	1499.17	2707.22	1708.05	1649.38	2789.56	7808.36	6743.80	3592.21	420.04	334.21	444.23		
14	709.09	1314.78	2817.71	1610.23	1727.60	3292.00	7838.08	6743.80	3120.10	453.90	338.27	453.90		
15	681.24	1114.26	2944.27	1512.25	2046.29	3842.07	7838.08	6762.45	2909.13	458.73	330.14	487.69		
16	664.51	1030.63	3042.60	1453.37	1986.53	4223.23	7867.79	6762.45	2599.36	468.39	374.76	591.89		
17	631.02	1048.57	2944.27	1414.70	1571.06	4572.11	7867.79	6781.10	2331.13	473.22	468.39	647.77		
18	558.29	1030.63	2817.71	1402.22	1078.45	4887.11	7867.79	6762.45	2119.26	390.95	478.04	608.67		
19	458.73	976.77	2754.37	1623.29	759.14	5233.10	7838.08	6762.45	1886.82	420.04	478.04	535.85		
20	458.73	964.79	2873.98	1966.60	809.10	5539.43	7808.36	6762.45	1780.30	405.50	468.39	516.61		
21	478.04	1048.57	3000.47	2317.91	1327.28	5743.39	7778.64	6762.45	1760.31	382.86	482.87	575.09		
22	463.56	1164.48	3007.49	2747.63	1813.61	5989.06	7689.47	6762.45	1701.54	400.65	492.51	591.89		
23	463.56	1773.64	2866.95	2859.91	2178.91	6228.46	7540.77	6743.80	1649.38	370.71	511.79	608.67		
24	434.56	1993.17	2653.30	2852.88	2271.60	6442.21	7433.66	6725.15	1518.78	358.55	521.42	631.02		
25	803.56	2185.53	2298.06	2707.22	2238.51	6650.53	7336.93	6650.53	1308.53	358.55	458.73	614.26		
26	850.75	2626.33	2079.47	2397.23	2066.20	6781.10	7259.51	6594.55	1102.33	322.01	322.01	675.66		
27	720.22	2986.42	1953.31	2019.74	1866.86	6892.96	7104.61	6507.93	1036.61	338.27	322.01	736.91		
28	709.09	3084.72	1840.24	1721.08	1727.60	7027.13	6988.38	6425.77	1000.72	386.90	326.08	725.78		
29	770.25	3070.68	1773.64	1800.29	1695.02	7143.35	6855.68	6310.70	958.80	378.81		770.25		
30	1479.54	2951.30	1649.38	1681.98	1727.60	7259.51	6762.45	6277.81	994.73	366.66		736.91		
31		2673.52		1695.02	1747.13		6687.84		1090.39	350.44		647.77		
Total	21320.62	58268.22	73081.05	60015.72	57850.27	123441.93	233160.98	198892.80	100101.93	12265.82	10800.86	16805.27	966005.47	Tonday
Mean	710.69	1879.62	2436.04	1935.99	1866.14	4114.73	7521.32	6629.76	3229.09	395.67	385.75	542.11		Ton/day
Max	1479.54	3084.72	3042.60	2859.91	2747.63	7259.51	7867.79	6781.10	6183.59	720.22	521.42	770.25	7867.79	Ton/day
Min	434.56	964.79	1649.38	1402.22	759.14	1747.13	6687.84	6277.81	958.80	262.47	285.35	378.81	262.47	Ton/day

WATER YEAR : 2008

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

Drainge 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	2007-2008
Number of observation	44
R-Square	0.7301
Remarks	Continued Sediment Station

$$QS = 5.0364\ QW^{1.30340}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.91	30.38	3.58	3.77	12.43	8.69	15.34	395.52	6.67	4.78	5.04	3.05		
2	14.91	23.59	2.87	3.77	23.59	8.40	16.63	581.01	6.67	4.52	4.78	3.05		
3	14.91	19.72	4.52	3.77	27.62	7.81	18.47	233.00	6.67	4.26	4.78	3.05		
4	14.49	14.07	7.23	3.77	17.85	6.95	17.24	93.43	6.67	4.26	4.78	2.87		
5	14.07	10.84	29.68	3.77	12.43	7.23	15.76	88.41	6.39	4.01	4.52	2.70		
6	13.66	6.95	39.76	3.77	10.21	7.52	14.91	77.45	6.39	4.01	4.52	2.70		
7	13.25	4.26	16.19	3.77	9.29	7.52	14.07	75.72	6.39	4.01	4.52	2.53		
8	11.79	3.40	12.43	3.77	8.40	8.69	13.25	62.68	6.39	4.01	4.26	2.37		
9	9.60	3.22	9.90	3.58	8.10	28.30	12.84	48.12	6.11	4.01	4.26	2.37		
10	7.52	3.22	9.29	3.58	7.52	39.76	12.84	35.36	6.11	4.01	4.01	2.37		
11	5.30	4.01	8.10	3.40	8.99	44.27	14.07	24.92	5.84	4.01	4.01	2.37		
12	3.22	4.26	7.52	6.11	9.60	41.25	16.19	17.24	5.84	4.01	4.01	2.37		
13	3.05	5.30	17.85	6.95	22.29	79.57	14.49	14.49	5.84	4.01	3.77	2.37		
14	2.87	6.11	4.52	7.81	75.72	75.72	13.66	13.66	5.57	4.01	3.77	2.37		
15	2.70	7.23	4.26	6.67	33.92	28.99	13.25	13.25	5.57	4.01	3.58	2.37		
16	2.53	9.90	10.52	5.30	19.09	23.59	12.84	12.84	5.57	4.01	3.58	2.37		
17	2.37	18.47	11.15	6.39	11.15	19.09	10.52	10.84	5.30	4.01	3.40	2.37		
18	2.20	17.24	11.15	9.60	8.69	18.47	9.60	9.90	5.30	3.77	3.40	2.37		
19	2.04	14.49	51.25	22.29	7.81	34.63	8.40	9.60	5.30	3.77	3.22	2.53		
20	1.88	12.43	42.00	18.47	14.91	33.20	8.10	9.29	5.04	3.77	3.22	2.87		
21	1.73	11.79	25.59	14.91	77.70	76.21	8.10	8.99	5.04	3.77	3.22	5.84		
22	1.58	24.92	16.63	11.47	35.36	52.95	7.81	8.69	5.04	3.58	3.05	5.04		
23	1.43	19.09	10.84	7.52	16.63	28.30	7.81	8.40	5.04	3.58	3.05	3.58		
24	1.28	16.63	7.52	6.11	14.07	17.24	8.10	8.40	5.04	3.58	3.05	2.87		
25	1.14	12.43	6.11	5.30	9.90	15.76	8.69	8.10	5.04	3.58	3.05	2.37		
26	1.00	14.07	5.57	4.78	7.52	14.07	11.15	7.52	5.30	3.58	2.87	3.05		
27	1.58	10.52	5.04	7.52	6.95	11.79	17.85	7.23	5.30	3.58	2.87	7.52		
28	2.20	7.52	4.26	14.07	7.23	10.21	14.07	7.23	5.57	3.58	2.87	7.81		
29	11.79	6.11	3.77	9.29	7.81	9.90	13.66	7.23	5.57	4.01		4.52		
30	28.30	9.60	4.01	8.99	8.99	10.52	17.85	6.95	5.57	5.04		3.40		
31		7.52		8.69	8.40		81.19		5.57	5.04		3.22		
Total	209.30	359.29	393.11	228.96	550.17	776.60	468.75	1905.47	177.71	124.18	105.46	100.64	5399.64	Tonday
Mean	6.98	11.59	13.10	7.39	17.75	25.89	15.12	63.52	5.73	4.01	3.77	3.25		Ton/day
Max	28.30	30.38	51.25	22.29	77.70	79.57	81.19	581.01	6.67	5.04	5.04	7.81	581.01	Ton/day
Min	1.00	3.22	2.87	3.40	6.95	6.95	7.81	6.95	5.04	3.58	2.87	2.37	1.00	Ton/day

WATER YEAR : 2008

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

Drainge Area	744 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	2008
Number of observation	20
R-Square	0.8624
Remarks	Continued Sediment Station

$$QS = 9.4081\ QW^{1.16340}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.68	25.04	89.91	45.83	35.35	151.83	484.40	700.42	101.73	7.26	3.24	4.20		
2	9.19	51.62	77.41	40.14	64.33	197.85	491.26	1476.71	96.25	7.26	3.24	4.01		
3	8.11	54.13	114.69	36.14	128.80	147.96	567.59	1419.86	94.43	7.05	3.24	3.81		
4	7.26	54.13	123.13	33.25	121.25	125.02	729.38	1310.64	88.11	6.84	3.24	3.43		
5	5.80	34.56	130.70	34.56	98.99	135.46	851.31	1125.17	82.73	6.63	3.24	3.24		
6	4.79	26.05	137.38	36.14	80.96	136.42	793.89	831.15	79.18	6.42	3.24	3.05		
7	3.62	20.10	118.43	32.21	73.89	150.86	726.96	739.06	74.77	6.21	3.24	2.87		
8	3.24	15.31	90.81	29.62	68.66	193.32	702.83	688.40	72.14	6.01	3.05	2.68		
9	3.05	10.73	78.30	28.59	62.62	405.40	686.00	628.77	69.52	5.80	3.05	2.50		
10	3.05	7.47	69.52	46.65	59.20	495.84	676.42	539.65	66.06	5.60	3.05	2.50		
11	2.87	13.45	66.92	49.13	54.97	423.28	674.02	443.52	61.76	5.39	3.05	2.50		
12	2.68	54.97	64.33	40.95	52.46	1083.27	662.07	372.18	57.50	5.19	3.05	2.32		
13	2.50	39.34	67.79	34.56	220.69	1523.12	551.27	335.74	54.97	4.99	3.05	2.32		
14	2.32	149.90	60.91	30.14	222.23	1310.64	423.28	311.99	51.62	4.99	3.05	2.50		
15	2.32	151.83	56.66	27.06	139.29	1065.39	366.68	281.60	49.13	4.79	2.87	2.87		
16	2.32	110.04	70.39	25.04	119.37	985.43	332.13	253.23	45.83	4.59	2.87	2.50		
17	2.14	95.34	125.96	24.04	108.18	874.44	302.35	236.11	44.19	4.59	2.87	2.14		
18	2.14	88.11	119.37	22.06	89.91	1077.31	283.19	217.62	41.75	4.40	2.68	2.50		
19	2.14	100.82	113.76	22.06	103.57	1152.22	257.93	197.85	37.73	4.20	2.68	2.50		
20	2.14	122.19	107.26	25.04	245.43	1338.71	243.87	182.82	34.56	4.20	2.50	3.05		
21	2.14	163.54	101.73	27.06	234.56	1505.24	231.47	168.46	33.77	4.01	2.50	3.81		
22	2.14	205.42	95.34	30.14	219.16	1398.63	220.69	160.60	32.73	3.81	2.32	3.43		
23	1.96	168.46	86.31	25.04	199.36	1038.64	231.47	149.90	31.69	3.62	2.14	3.24		
24	1.79	143.14	78.30	22.55	153.78	736.64	262.64	141.21	30.65	3.62	1.96	3.05		
25	1.62	136.42	76.53	20.58	138.33	569.93	275.26	137.38	29.62	3.62	1.96	2.87		
26	1.62	147.96	80.07	18.16	139.29	477.55	245.43	131.65	28.59	3.62	1.79	2.68		
27	1.45	127.85	73.02	17.20	166.49	443.52	253.23	125.96	28.08	3.43	1.79	3.05		
28	2.32	107.26	64.33	15.78	141.21	493.55	240.76	119.37	27.57	3.43	1.79	4.01		
29	3.43	120.31	57.50	16.73	153.78	484.40	222.23	113.76	27.06	3.43		4.79		
30	14.38	126.91	51.62	18.16	146.03	472.99	220.69	110.04	26.56	3.43		5.39		
31		114.69		18.16	141.21		273.68		26.05	3.43		5.39		
Total	107.21	2787.09	2648.38	892.77	3983.35	20594.86	13484.38	13650.82	1626.33	151.86	76.75	99.20	60103.00	Tonday
Mean	3.57	89.91	88.28	28.80	128.50	686.50	434.98	455.03	52.46	4.90	2.74	3.20		Ton/day
Max	14.38	205.42	137.38	49.13	245.43	1523.12	851.31	1476.71	101.73	7.26	3.24	5.39	1523.12	Ton/day
Min	1.45	7.47	51.62	15.78	35.35	125.02	220.69	110.04	26.05	3.43	1.79	2.14	1.45	Ton/day

WATER YEAR : 2008

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

Drainge 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	2004-2008
Number of observation	92
R-Square	0.7715
Remarks	Continued Sediment Station

$$QS = 3.0395\ QW^{1.50030}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.20	92.74	35.64	11.09	46.04	46.04	68.95	276.61	19.74	4.20	3.90	3.32		
2	5.14	52.51	31.58	13.12	513.77	40.73	152.23	1462.38	18.39	4.20	3.60	3.32		
3	17.73	33.19	106.16	13.12	748.24	29.22	244.43	903.31	16.44	4.20	3.60	3.32		
4	6.15	46.04	58.51	13.12	251.35	26.93	244.43	477.13	17.08	3.90	3.60	3.32		
5	3.90	26.93	50.63	12.60	138.32	27.68	218.14	487.50	16.44	3.90	3.60	3.32		
6	3.60	13.12	46.95	12.09	78.72	35.64	157.47	290.68	15.80	3.90	3.60	3.04		
7	3.60	7.40	48.78	11.09	61.97	43.36	171.80	192.14	15.25	3.90	3.60	3.04		
8	70.11	5.81	64.23	10.12	50.63	52.51	213.79	197.99	15.25	3.90	3.60	3.04		
9	37.32	5.14	37.32	12.60	42.48	95.32	180.98	173.55	14.71	3.90	3.60	3.04		
10	5.81	8.73	32.38	20.42	36.48	88.78	164.50	121.73	14.17	3.60	3.60	3.04		
11	3.60	14.17	47.86	15.25	31.58	67.79	143.57	86.26	13.64	3.60	3.32	3.04		
12	3.04	10.12	90.19	10.60	36.48	231.16	125.02	71.42	13.12	3.60	3.32	2.81		
13	3.04	6.56	64.23	9.65	179.20	1326.88	95.32	63.09	12.60	3.60	3.32	2.81		
14	3.04	14.17	54.40	8.73	195.97	719.82	78.72	55.36	12.09	3.32	3.32	2.81		
15	3.04	26.93	43.36	8.28	92.74	298.02	66.64	51.57	11.09	3.32	3.32	2.81		
16	7.40	23.24	46.95	10.12	64.23	188.52	58.51	48.78	10.60	3.32	3.32	2.81		
17	10.12	24.69	78.72	13.12	48.78	233.29	53.45	45.14	10.12	3.32	3.04	2.81		
18	4.20	18.39	73.78	15.80	39.87	286.10	47.86	42.48	9.65	3.32	3.04	2.81		
19	3.90	34.00	81.16	19.74	35.64	484.03	44.25	38.16	9.19	3.32	2.81	3.04		
20	3.32	37.32	60.85	63.09	61.97	460.00	42.48	32.38	8.28	3.32	2.81	6.98		
21	3.04	244.43	49.70	49.70	215.87	355.48	39.87	30.00	7.84	3.32	2.81	9.19		
22	3.04	171.80	37.32	28.45	81.16	235.62	38.16	29.22	7.40	3.32	2.60	5.81		
23	3.60	70.11	29.22	21.82	48.78	145.22	39.01	29.22	7.40	3.32	2.60	4.82		
24	5.81	61.97	24.69	16.44	36.48	106.16	43.36	29.22	7.40	3.32	2.38	21.82		
25	5.47	53.45	21.12	12.60	33.19	87.52	46.04	28.45	7.40	3.32	2.38	40.73		
26	5.14	35.64	17.73	11.09	34.82	70.11	42.48	27.68	7.40	3.32	2.17	14.71		
27	3.90	27.68	15.25	10.60	47.86	60.85	41.60	26.17	7.40	3.32	2.17	4.82		
28	4.82	21.82	14.17	14.17	40.73	55.36	40.73	24.69	7.40	3.60	1.97	3.90		
29	41.60	17.73	12.60	27.68	47.86	52.51	40.73	23.24	7.40	3.60		3.60		
30	106.16	46.95	12.09	15.80	43.36	50.63	48.78	22.52	6.98	3.90		3.32		
31		43.36		11.09	39.01		81.16		6.98	4.20		3.32		
Total	384.84	1296.14	1387.57	523.19	3423.58	6001.28	3074.46	5388.07	354.65	112.18	87.00	180.57	22213.53	Tonday
Mean	12.83	41.81	46.25	16.88	110.44	200.04	99.18	179.60	11.44	3.62	3.11	5.82		Ton/day
Max	106.16	244.43	106.16	63.09	748.24	1326.88	244.43	1462.38	19.74	4.20	3.90	40.73	1462.38	Ton/day
Min	3.04	5.14	12.09	8.28	31.58	26.93	38.16	22.52	6.98	3.32	1.97	2.81	1.97	Ton/day

WATER YEAR : 2008

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

Drainge 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
Number of observation	20
R-Square	0.8587
Remarks	Continued Sediment Station

$$QS = 6.4754\ QW^{1.16480}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.50	5.36	5.73	19.71	62.47	74.79	27.86	18.83	0.11	0.07	4.85		
2	0.00	0.66	13.68	4.99	88.60	24.19	53.72	41.03	17.95	0.11	0.03	4.85		
3	0.00	0.99	8.01	6.10	25.10	11.20	45.18	30.76	17.95	0.11	0.03	4.85		
4	0.00	24.19	6.10	15.37	12.01	7.24	38.89	30.76	17.08	0.11	0.03	4.85		
5	0.00	4.63	23.28	23.28	67.48	52.60	38.89	38.89	10.22	0.11	0.03	4.85		
6	0.00	2.10	8.01	37.14	26.02	17.08	62.47	30.76	10.22	0.11	0.03	4.85		
7	0.00	1.29	17.95	38.30	15.37	17.08	45.18	34.84	9.98	0.11	0.03	4.85		
8	0.00	1.23	38.30	29.72	11.20	6.10	41.03	26.94	9.98	0.11	0.03	4.85		
9	0.00	1.23	23.28	26.94	5.73	4.27	114.87	26.02	9.98	0.15	0.03	4.85		
10	0.00	1.23	5.36	17.08	4.63	2.89	51.59	25.10	9.98	0.11	0.03	4.85		
11	0.00	1.23	3.57	6.48	3.57	2.75	38.89	25.10	9.74	0.11	0.00	4.85		
12	0.00	1.17	56.27	3.92	24.19	8.01	38.89	24.19	9.74	0.11	0.00	4.85		
13	0.00	1.11	20.59	6.10	18.83	479.18	36.85	24.19	9.74	0.11	0.00	4.85		
14	0.00	0.99	3.92	28.79	6.48	862.09	34.84	23.28	9.50	0.11	0.00	4.78		
15	0.00	0.99	2.89	17.08	4.63	410.58	30.76	22.38	9.50	0.11	0.00	4.78		
16	0.00	0.99	2.10	5.73	3.92	274.90	27.86	21.48	9.50	0.07	0.00	4.78		
17	0.00	1.11	2.55	4.63	2.89	121.02	26.94	20.59	9.26	0.07	0.00	4.78		
18	0.00	1.17	25.10	18.83	2.55	111.82	26.94	22.38	9.26	0.07	0.00	4.70		
19	0.00	1.29	16.22	38.30	2.55	78.10	26.94	21.48	9.26	0.11	0.00	4.70		
20	0.03	14.52	16.22	103.96	2.55	62.47	26.94	21.48	9.03	0.11	0.00	4.70		
21	0.11	8.01	14.52	17.08	6.48	62.47	26.02	20.59	9.03	0.11	0.00	4.70		
22	0.15	12.84	7.24	6.48	9.58	49.47	28.79	19.71	9.03	0.11	0.00	4.63		
23	0.20	6.48	7.24	5.73	3.92	45.18	28.79	18.83	9.03	0.11	0.00	4.56		
24	0.20	3.57	2.75	6.48	2.75	26.94	27.86	18.83	9.03	0.11	0.00	4.56		
25	0.24	4.63	2.10	95.19	3.57	24.19	26.94	18.83	9.03	0.11	0.00	4.56		
26	0.29	21.48	2.23	17.08	20.59	20.59	26.02	18.83	9.03	0.11	0.00	4.56		
27	0.34	2.75	15.37	8.79	35.99	19.71	25.10	18.83	9.03	0.07	0.00	4.56		
28	0.39	1.29	3.23	6.10	26.02	24.19	24.19	18.83	9.03	0.07	0.00	4.56		
29	0.39	1.23	16.22	5.73	8.79	23.28	24.19	18.83	9.03	0.07		4.56		
30	0.39	1.47	8.79	8.01	24.19	36.85	24.19	18.83	9.03	0.07		4.56		
31		2.10		13.68	6.10		27.86		9.03	0.07		4.56		
Total	2.73	128.47	378.45	628.82	495.99	2948.91	1172.41	730.45	326.03	3.13	0.34	146.64	6962.37	Tonday
Mean	0.09	4.14	12.62	20.28	16.00	98.30	37.82	24.35	10.52	0.10	0.01	4.73		Ton/day
Max	0.39	24.19	56.27	103.96	88.60	862.09	114.87	41.03	18.83	0.15	0.07	4.85	862.09	Ton/day
Min	0.00	0.50	2.10	3.92	2.55	2.75	24.19	18.83	9.03	0.07	0.00	4.56	0.00	Ton/day

WATER YEAR : 2008

CHI RIVER BASIN

Huai Mun at Ban Khok Sung , Kalasin (E.88)

Lat 16 - 49 - 56 N Long 103 - 22 - 09 E

Location : on right bank at Ban Khok Sung.

Ban Khok Sung **Amphoe** Tha Khantho **Changwat** Kalasin

Drainge Area	91 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
Number of observation	20
R-Square	0.8642
Remarks	Continued Sediment Station

$$QS = 7.5252\ QW^{2.05770}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.81	11.72	104.41	15.94	1.52	5.78	139.30	15.94	0.33	0.10	0.04	0.00		
2	1.81	7.53	515.44	19.29	2.45	8.48	29.11	500.60	0.22	0.13	0.04	0.00		
3	1.81	2.81	241.86	15.94	6.63	7.53	17.57	165.44	0.13	0.10	0.04	0.00		
4	1.52	1.52	99.09	31.33	14.38	77.20	11.72	85.62	0.07	0.13	0.04	0.00		
5	1.52	0.82	36.01	58.09	11.72	81.35	8.48	115.47	0.05	0.17	0.04	0.00		
6	1.52	0.82	24.94	85.62	8.48	77.20	31.33	61.69	0.04	0.13	0.04	0.00		
7	1.52	0.63	38.47	81.35	7.53	127.10	22.97	12.91	0.04	0.10	0.04	0.00		
8	1.26	0.63	41.02	104.41	5.78	216.76	14.38	11.72	0.04	0.07	0.03	0.00		
9	1.26	1.03	24.94	104.41	5.00	26.98	9.50	10.58	0.04	0.05	0.03	0.00		
10	1.26	17.57	8.48	85.62	4.28	11.72	8.48	9.50	0.03	0.05	0.03	0.00		
11	1.03	9.50	7.53	158.69	3.20	9.50	8.48	8.48	0.03	0.05	0.03	0.00		
12	1.03	2.45	15.94	216.76	3.61	24.94	7.53	8.48	0.03	0.05	0.03	0.00		
13	1.03	1.52	10.58	487.29	5.00	272.28	6.63	7.53	0.03	0.05	0.03	0.00		
14	0.82	1.52	9.50	666.86	5.00	2920.32	5.78	6.63	0.03	0.05	0.03	0.00		
15	0.82	1.26	8.48	893.38	4.28	325.66	5.00	5.78	0.02	0.05	0.03	0.00		
16	0.82	1.03	5.78	472.87	11.72	282.16	3.61	5.00	0.02	0.05	0.03	0.00		
17	0.82	0.82	15.94	529.13	19.29	1922.92	3.20	4.28	0.02	0.04	0.03	0.00		
18	0.63	0.82	99.09	383.97	3.20	974.58	3.61	3.61	0.02	0.04	0.03	0.00		
19	0.63	1.03	36.01	588.65	2.45	313.96	4.28	3.20	0.02	0.04	0.03	0.00		
20	0.63	1.26	17.57	766.67	3.61	1075.22	4.28	2.45	0.02	0.04	0.03	0.00		
21	0.51	1.26	11.72	152.08	10.58	6916.02	4.28	2.12	0.02	0.04	0.02	0.01		
22	0.51	4.28	21.09	73.15	7.53	618.14	4.28	1.81	0.02	0.04	0.02	0.01		
23	0.63	15.94	26.98	58.09	41.02	99.09	4.28	1.52	0.02	0.04	0.02	0.01		
24	0.63	133.13	22.97	55.04	19.29	38.47	3.61	1.26	0.02	0.04	0.02	0.01		
25	0.63	24.94	22.97	36.01	10.58	15.94	3.61	1.03	0.02	0.04	0.02	0.01		
26	0.63	73.15	21.09	33.63	58.09	12.91	3.61	0.82	0.02	0.04	0.02	0.01		
27	0.63	558.48	19.29	41.02	43.66	22.97	3.20	0.63	0.02	0.04	0.02	0.01		
28	0.63	52.07	26.98	55.04	22.97	9.50	3.20	0.55	0.01	0.04	0.02	0.00		
29	1.52	22.97	19.29	38.47	17.57	8.48	3.20	0.47	0.01	0.04		0.00		
30	9.50	11.72	10.58	3.61	11.72	193.90	2.81	0.47	0.01	0.04		0.00		
31		9.50		0.63	5.78		2.81		0.01	0.04		0.00		
Total	39.37	973.73	1564.04	6313.04	377.92	16697.06	384.13	1055.59	1.41	1.93	0.83	0.07	27409.12	Tonday
Mean	1.31	31.41	52.13	203.65	12.19	556.57	12.39	35.19	0.05	0.06	0.03	0.00		Ton/day
Max	9.50	558.48	515.44	893.38	58.09	6916.02	139.30	500.60	0.33	0.17	0.04	0.01	6916.02	Ton/day
Min	0.51	0.63	5.78	0.63	1.52	5.78	2.81	0.47	0.01	0.04	0.02	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge Area	167 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
Number of observation	20
R-Square	0.7699
Remarks	Continued Sediment Station

$$QS = 5.7895\ QW^{1.12440}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	7.44	0.39	16.95	32.99	6.12	10.58	9.13	0.11	1.84	0.00	0.00		
2	0.00	7.44	12.55	47.01	30.63	6.44	12.55	39.20	0.24	1.50	0.00	0.00		
3	0.00	7.78	29.85	59.65	32.20	5.27	14.05	40.17	0.39	1.00	0.53	0.00		
4	2.01	10.10	41.14	53.95	32.20	4.25	13.55	32.20	0.53	0.39	0.24	0.00		
5	1.33	12.55	51.96	40.17	25.21	7.44	14.05	27.52	0.53	0.00	0.00	0.00		
6	0.53	14.05	46.02	32.20	13.05	18.72	16.37	24.44	0.69	0.00	0.00	0.00		
7	0.39	17.54	39.20	25.21	6.12	28.29	16.37	20.66	0.84	0.00	0.00	0.00		
8	0.69	18.72	51.96	29.07	4.50	46.02	15.78	16.95	0.69	0.00	0.00	0.00		
9	0.69	11.56	46.02	46.02	2.36	65.58	16.37	9.61	0.69	0.00	0.00	0.00		
10	0.69	18.13	38.24	84.77	1.50	70.88	14.05	3.75	0.39	0.00	0.00	0.00		
11	0.69	9.13	39.20	84.77	2.36	66.78	12.55	2.01	0.00	0.00	0.00	0.00		
12	0.69	6.77	50.96	62.02	2.54	60.83	9.13	1.84	0.00	0.00	0.00	0.00		
13	0.69	6.44	43.09	40.17	4.00	62.02	6.77	1.66	0.00	0.11	0.00	0.00		
14	0.69	6.44	31.41	30.63	3.51	88.98	6.12	1.66	0.00	0.84	0.00	0.00		
15	0.69	8.11	24.44	18.13	2.18	94.64	7.44	1.66	0.00	0.53	0.00	0.00		
16	0.69	12.06	19.32	22.92	1.16	100.69	7.44	1.50	0.00	0.00	0.00	0.00		
17	0.53	13.05	31.41	22.92	0.69	127.94	6.12	1.50	0.00	0.00	0.00	0.00		
18	0.53	18.13	76.40	22.16	0.53	207.10	5.79	1.33	0.00	0.00	0.00	0.00		
19	0.53	24.44	64.39	34.57	0.00	188.34	3.75	1.16	0.00	0.00	0.00	0.00		
20	0.53	26.74	33.78	99.17	0.00	154.91	2.90	1.16	0.11	0.00	0.00	0.00		
21	0.53	25.97	26.74	60.83	1.33	109.84	2.90	1.00	0.24	0.00	0.00	0.00		
22	0.53	23.68	18.13	41.14	2.36	77.79	3.08	0.84	0.39	0.00	0.00	0.00		
23	0.53	23.68	11.56	42.11	10.58	58.47	4.76	0.69	0.53	0.00	0.00	0.00		
24	0.53	26.74	11.07	25.97	48.98	44.06	6.77	0.53	0.53	0.00	0.00	0.00		
25	0.53	58.47	8.11	14.63	46.02	29.07	5.27	0.39	0.39	0.00	0.00	0.00		
26	0.53	91.81	7.44	10.10	32.99	14.05	4.25	0.39	0.39	0.00	0.00	0.00		
27	0.53	75.02	13.55	13.55	21.41	10.10	4.50	0.24	0.24	0.00	0.00	0.00		
28	0.69	39.20	14.05	19.32	12.55	18.13	5.01	0.11	0.24	0.00	0.00	0.00		
29	5.79	19.32	17.54	24.44	7.11	12.55	5.27	0.00	0.11	0.00		0.00		
30	8.11	5.27	23.68	28.29	7.11	19.32	5.27	0.00	0.00	0.00		0.00		
31		2.18		29.85	8.79		5.01		0.00	0.00		0.00		
Total	30.89	647.96	923.60	1182.69	396.96	1804.62	263.82	243.30	8.27	6.21	0.77	0.00	5509.09	Tonday
Mean	1.03	20.90	30.79	38.15	12.81	60.15	8.51	8.11	0.27	0.20	0.03	0.00		Ton/day
Max	8.11	91.81	76.40	99.17	48.98	207.10	16.37	40.17	0.84	1.84	0.53	0.00	207.10	Ton/day
Min	0.00	2.18	0.39	10.10	0.00	4.25	2.90	0.00	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

CHI RIVER BASIN

Huai Sang Kiab at Ban Nong Yang Tai , Kalasin (E.90)

Lat 16 - 46 - 28 N Long 103 - 38 - 41 E

Location : on right bank at Ban Nong Yang Tai.

Ban Nong Yang Tai **Amphoe** Kham Muang **Changwat** Kalasin

Drainge Area	321 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
Number of observation	20
R-Square	0.8401
Remarks	Continued Sediment Station

$$QS = 12.2370\ QW^{1.16870}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.34	73.56	5.96	153.76	467.97	46.26	173.73	107.90	58.25	25.27	11.24	0.00		
2	7.93	97.79	7.93	146.37	151.29	30.10	31.41	140.25	54.68	19.81	10.82	0.00		
3	7.93	82.53	18.74	44.19	58.96	17.83	19.81	317.59	54.68	17.68	10.82	0.00		
4	9.15	36.04	14.70	31.08	43.16	21.50	23.06	72.82	51.85	16.63	9.98	0.00		
5	8.74	16.03	20.58	14.70	28.15	31.08	50.44	72.82	46.26	15.29	9.98	0.00		
6	9.15	8.74	12.96	8.74	70.60	18.74	143.10	78.40	44.88	13.10	9.57	0.00		
7	9.15	5.19	8.74	23.38	67.67	13.82	72.82	85.93	43.50	11.81	9.57	0.00		
8	8.74	2.65	11.24	123.52	50.44	11.67	60.04	91.64	39.41	10.54	9.57	0.00		
9	8.74	1.03	14.70	1010.55	33.05	9.15	51.85	91.64	34.04	8.88	9.57	0.00		
10	8.74	9.57	13.39	550.27	21.50	8.34	46.26	96.25	30.10	7.80	9.57	0.00		
11	8.34	45.22	10.40	212.05	16.03	7.93	40.76	91.64	27.51	40.08	9.57	0.00		
12	8.34	14.26	7.93	88.59	48.34	7.93	39.41	91.64	25.27	38.05	9.57	0.00		
13	10.82	7.13	31.08	45.22	93.17	16.03	36.71	91.64	23.06	33.05	10.40	0.00		
14	11.24	2.31	19.65	29.12	64.75	694.96	34.04	96.25	18.74	30.10	11.67	0.00		
15	10.40	1.33	13.39	40.08	40.08	887.55	31.41	93.94	16.63	29.12	10.82	0.00		
16	8.74	0.46	8.34	56.10	24.32	232.91	28.80	91.64	14.85	27.19	10.82	0.00		
17	7.93	0.00	9.15	127.93	15.14	238.17	27.51	89.73	13.10	24.32	10.82	0.00		
18	7.53	0.00	12.09	134.57	18.74	163.70	25.27	89.73	10.96	22.44	10.40	0.00		
19	7.13	0.00	16.03	116.96	19.65	106.33	23.06	89.73	9.70	19.65	10.40	0.00		
20	7.13	4.81	23.38	411.38	44.19	251.39	21.97	87.83	8.47	18.74	10.40	0.00		
21	6.74	3.00	14.26	219.84	36.04	356.36	21.97	85.93	7.00	16.93	10.40	1.03		
22	6.74	1.03	8.74	127.93	31.08	273.21	24.16	85.93	5.96	14.70	10.40	0.46		
23	7.93	1.03	5.96	132.35	15.14	341.28	26.39	84.04	5.19	12.96	10.40	0.00		
24	93.17	9.15	4.07	67.67	9.98	201.72	23.06	82.15	4.81	12.52	10.40	0.00		
25	64.75	9.98	1.33	61.84	11.67	115.18	21.97	78.40	4.07	12.09	10.40	0.00		
26	21.50	29.12	0.20	43.16	15.14	81.02	20.89	74.67	3.47	12.09	10.40	0.00		
27	13.82	178.77	3.35	30.10	49.39	73.56	39.41	72.82	3.11	12.09	9.57	0.00		
28	12.09	88.59	4.44	22.44	35.04	61.84	38.05	69.13	2.88	11.67	8.74	0.20		
29	66.20	49.39	9.98	16.93	31.08	52.56	27.51	67.30	2.20	11.67		0.00		
30	136.80	24.32	14.70	11.24	21.50	106.33	25.27	63.66	1.87	11.67		0.00		
31		10.82		16.93	17.83		28.80		1.44	11.24		2.65		
Total	603.95	813.85	347.41	4118.99	1651.09	4478.45	1278.94	2833.04	667.94	569.18	286.27	4.34	17653.45	Tonday
Mean	20.13	26.25	11.58	132.87	53.26	149.28	41.26	94.43	21.55	18.36	10.22	0.14		Ton/day
Max	136.80	178.77	31.08	1010.55	467.97	887.55	173.73	317.59	58.25	40.08	11.67	2.65	1010.55	Ton/day
Min	6.74	0.00	0.20	8.74	9.98	7.93	19.81	63.66	1.44	7.80	8.74	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge Area	29,265 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	2008
Number of observation	20
R-Square	0.9518
Remarks	Continued Sediment Station

$$QS = 19.2810\ QW^{0.88500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	833.25	2331.47	2532.70	1934.08	1643.07	2078.25	7623.61	5256.45	5361.54	801.80	425.61	722.43		
2	924.46	2313.07	2429.31	2220.76	1831.71	2109.34	7662.82	5547.38	5256.45	796.54	448.36	796.54		
3	982.02	2263.90	2392.68	2514.49	2288.50	2053.62	7721.59	5967.73	5115.41	520.21	425.61	801.80		
4	822.78	2041.70	2411.00	2581.16	2532.70	2041.70	7800.65	6283.01	4981.32	488.94	470.96	743.70		
5	764.89	1892.01	2514.49	2386.57	2478.03	2072.02	7881.94	6523.12	4816.80	470.96	475.47	690.37		
6	878.08	1922.07	2563.00	2214.59	2319.21	2005.91	8005.23	6768.31	4558.23	416.47	416.47	717.10		
7	1022.06	1873.95	2544.82	2115.55	2189.89	1928.07	8114.28	6976.64	4154.25	461.94	452.89	764.89		
8	1078.90	1873.95	2496.27	2096.91	2084.47	1952.07	8251.09	7160.45	3641.82	430.17	407.30	738.39		
9	1027.76	1825.66	2575.11	2041.70	2047.66	2152.76	8375.21	7299.48	3430.12	448.36	443.83	754.30		
10	1027.76	1843.79	2697.23	1987.98	1987.98	2502.35	8449.56	7334.18	3045.06	592.96	388.88	828.02		
11	754.30	1855.86	2754.53	1922.07	1837.75	2490.19	8477.43	7386.20	2647.61	636.49	388.88	759.60		
12	807.05	1746.85	2830.69	1855.86	1807.52	2641.58	8533.11	7421.64	2404.90	577.63	511.30	764.89		
13	685.00	1587.79	2944.44	1831.71	1867.92	3113.99	8533.11	7403.53	2282.35	598.43	733.07	759.60		
14	674.26	1476.45	3057.61	1831.71	2343.73	3417.24	8477.43	7368.87	2263.90	625.65	663.50	812.30		
15	592.96	1414.13	3019.95	1855.86	2158.95	3686.52	8424.79	7351.53	2134.16	679.64	695.72	930.24		
16	582.02	1470.24	2887.64	1752.93	1581.63	4334.40	8350.40	7334.18	1928.07	647.31	833.25	959.05		
17	631.07	1526.07	2792.65	1734.68	1231.29	5107.97	8275.93	7264.75	1819.62	733.07	764.89	947.54		
18	573.24	1538.44	2786.30	1904.04	1078.90	6392.46	8179.61	7212.63	1795.40	631.07	796.54	936.01		
19	614.78	1544.62	3088.95	1958.06	1124.09	7386.20	8070.68	7125.64	1970.04	701.07	780.73	860.60		
20	636.49	1740.76	3288.57	2251.59	1704.22	8027.06	7942.84	6992.51	2011.88	722.43	647.31	889.70		
21	685.00	1867.92	3220.14	2818.02	2059.57	8699.90	7741.17	6825.64	1898.03	674.26	614.78	775.46		
22	711.76	2189.89	2988.51	2887.64	2380.45	8932.39	7512.10	6618.30	1825.66	727.75	641.90	866.43		
23	828.02	2263.90	2779.95	2830.69	2459.77	8932.39	7230.01	6392.46	1698.11	690.37	551.22	907.10		
24	1090.22	2392.68	2502.35	2617.43	2441.50	8873.96	6811.31	6201.85	1581.63	685.00	603.88	833.25		
25	1010.64	2697.23	2380.45	2392.68	2220.76	8727.65	6405.30	6069.67	1464.02	706.42	685.00	872.26		
26	987.76	2963.34	2355.98	2140.36	1993.96	8449.56	6110.38	5947.32	1445.34	711.76	658.11	976.29		
27	970.55	3139.01	2276.21	1993.96	1867.92	8114.28	5855.34	5855.34	1376.57	690.37	551.22	947.54		
28	982.02	3188.97	2245.43	2158.95	1892.01	7922.54	5660.55	5722.16	1395.37	738.39	520.21	964.80		
29	1855.86	3013.66	2189.89	2053.62	1976.02	7780.31	5485.52	5619.43	1407.88	690.37		924.46		
30	2343.73	2735.45	1964.05	1916.06	2011.88	7603.99	5402.91	5485.52	1476.45	636.49		936.01		
31		2599.31		1740.76	2005.91		5967.73		1879.97	520.21		854.76		
Total	27378.69	65134.14	79510.90	66542.47	61448.97	151530.67	233333.63	198715.92	83067.96	19452.53	15996.89	26035.43	1028148.20	Tonday
Mean	912.62	2101.10	2650.36	2146.53	1982.22	5051.02	7526.89	6623.86	2679.61	627.50	571.32	839.85		Ton/day
Max	2343.73	3188.97	3288.57	2887.64	2532.70	8932.39	8533.11	7421.64	5361.54	801.80	833.25	976.29	8932.39	Ton/day
Min	573.24	1414.13	1964.05	1734.68	1078.90	1928.07	5402.91	5256.45	1376.57	416.47	388.88	690.37	388.88	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	20
R-Square	0.8513
Remarks	Continued Sediment Station

$$QS = 4.6021\ QW^{1.05210}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	129.20	61.76	0.00	42.11	65.06	577.62	486.35	22.92	1.76	29.25	27.66		
2	0.00	168.30	43.73	0.00	60.11	61.76	533.42	526.07	10.55	0.00	30.85	65.06		
3	1.76	203.19	43.73	0.00	75.04	68.38	513.83	580.08	30.85	0.00	38.87	95.17		
4	0.00	217.23	60.11	0.00	86.20	70.60	555.49	618.90	27.66	0.00	35.65	95.17		
5	0.00	205.52	61.76	32.44	108.72	75.04	594.85	666.51	15.65	0.00	40.49	122.35		
6	0.85	184.54	63.41	35.65	122.35	81.72	646.70	692.55	19.79	0.00	17.71	106.46		
7	7.55	147.53	83.96	19.79	126.91	108.72	700.00	711.19	19.79	0.00	34.05	75.04		
8	11.56	108.72	92.93	18.75	110.99	165.99	775.34	703.73	18.75	0.00	40.49	61.76		
9	6.56	66.72	97.43	21.35	95.17	198.52	868.60	707.46	8.54	0.00	35.65	50.25		
10	11.56	48.62	88.44	29.25	56.81	226.61	954.16	714.92	13.60	0.00	32.44	38.87		
11	5.58	48.62	75.04	27.66	60.11	259.61	988.24	714.92	13.60	0.00	27.66	27.66		
12	4.60	77.26	60.11	21.35	50.25	379.04	993.92	711.19	13.60	0.00	14.62	30.85		
13	5.58	217.23	45.36	27.66	51.89	460.77	971.19	700.00	7.55	0.00	0.00	26.08		
14	0.00	311.88	42.11	21.35	53.53	535.87	908.81	643.61	10.55	0.00	11.56	27.66		
15	0.00	382.05	32.44	26.08	63.41	600.40	805.95	504.05	15.65	0.00	4.60	27.66		
16	0.00	386.87	21.35	17.71	75.04	670.23	673.95	389.28	11.56	0.00	0.00	37.26		
17	0.00	387.47	19.79	19.79	66.72	744.78	431.62	276.19	14.62	0.00	0.00	30.85		
18	1.76	384.46	40.49	12.58	46.99	863.58	316.66	212.54	7.55	0.00	0.00	34.05		
19	0.00	379.04	34.05	13.60	35.65	1010.99	261.98	170.62	8.54	0.00	0.00	43.73		
20	0.00	359.78	35.65	15.65	79.49	1085.11	252.52	142.94	7.55	0.00	0.00	51.89		
21	0.00	278.56	37.26	10.55	110.99	1085.11	231.31	133.77	6.56	0.00	0.00	61.76		
22	0.00	203.19	38.87	14.62	97.43	1062.28	207.86	113.26	9.54	0.00	0.00	60.11		
23	0.00	189.19	30.85	19.79	77.26	1033.77	205.52	97.43	2.69	0.00	13.60	77.26		
24	4.60	191.52	10.55	18.75	81.72	1033.77	243.09	68.38	1.76	0.00	11.56	97.43		
25	50.25	168.30	3.64	24.50	63.41	1028.07	288.07	40.49	2.69	0.00	10.55	83.96		
26	70.60	147.53	2.69	19.79	46.99	1033.77	354.98	29.25	7.55	0.00	11.56	66.72		
27	65.06	115.53	0.00	42.11	37.26	1005.30	387.47	24.50	8.54	22.92	13.60	50.25		
28	40.49	88.44	0.00	58.46	32.44	965.51	424.95	21.35	0.00	27.66	12.58	22.92		
29	43.73	58.46	0.00	58.46	34.05	863.58	427.98	17.71	2.69	24.50		24.50		
30	77.26	56.81	0.00	51.89	30.85	688.83	435.26	14.62	4.60	22.92		26.08		
31		58.46		38.87	29.25		438.90		6.56	29.25		37.26		
Total	409.35	5970.22	1227.51	718.45	2109.14	17532.77	16970.24	11433.86	352.05	129.01	467.34	1683.73	59003.67	Tonday
Mean	13.65	192.59	40.92	23.18	68.04	584.43	547.43	381.13	11.36	4.16	16.69	54.31		Ton/day
Max	77.26	387.47	97.43	58.46	126.91	1085.11	993.92	714.92	30.85	29.25	40.49	122.35	1085.11	Ton/day
Min	0.00	48.62	0.00	0.00	29.25	61.76	205.52	14.62	0.00	0.00	0.00	22.92	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	27
R-Square	0.9086
Remarks	Continued Sediment Station

$$QS = 13.1230\ QW^{0.77930}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.04	6.43	941.07	417.48	347.21	806.32	3487.25	3213.09	3267.24	51.98	36.76	19.84		
2	7.04	8.24	931.63	407.65	204.42	947.35	3614.13	3160.20	3177.71	51.98	34.84	19.84		
3	7.04	10.49	922.17	404.37	22.52	947.35	3779.31	3127.04	3085.51	55.08	36.76	19.84		
4	12.61	18.00	919.01	397.77	95.98	877.63	3953.44	3100.97	2964.57	45.64	36.76	19.84		
5	9.94	19.84	909.51	391.13	223.90	787.04	4090.87	3080.50	2892.71	40.53	36.76	18.93		
6	8.81	21.64	903.16	384.47	220.68	576.38	4208.06	3075.48	2794.39	45.64	34.84	18.93		
7	9.38	22.52	887.23	374.41	217.46	565.84	4315.43	3085.51	2711.36	55.08	34.84	18.93		
8	9.38	19.84	868.01	367.67	267.18	593.83	4377.71	3111.40	2570.19	58.12	34.84	18.93		
9	9.94	16.10	855.13	357.48	333.38	655.48	4413.18	3137.46	2440.77	66.99	30.89	18.93		
10	9.94	17.06	702.31	374.41	459.32	600.76	4439.74	3177.71	2330.40	72.72	20.75	18.93		
11	9.94	19.84	527.18	384.47	459.32	503.53	4470.17	3237.19	2121.53	82.92	20.75	18.93		
12	10.49	20.75	520.45	387.81	291.28	527.18	4480.95	3291.22	1786.72	89.52	19.84	18.00		
13	15.13	21.64	510.32	381.13	183.43	774.18	4480.95	3362.88	1642.88	89.52	19.84	18.00		
14	17.06	18.93	506.91	374.41	186.33	919.01	4459.38	3451.84	1446.88	66.99	19.84	18.00		
15	16.10	15.13	500.10	367.67	217.46	956.74	4430.89	3522.55	1178.56	48.84	19.84	18.00		
16	15.13	16.10	493.27	360.88	214.22	1113.38	4386.58	3557.75	1213.47	48.84	19.84	18.00		
17	12.09	20.75	486.41	469.15	210.97	1360.69	4342.15	3620.37	1213.47	45.64	19.84	18.00		
18	11.03	22.52	482.98	541.03	207.70	1676.77	4288.66	3671.29	1178.56	42.37	19.84	18.00		
19	8.24	21.64	517.09	523.83	555.25	1877.62	4270.79	3740.17	1130.21	40.53	22.52	18.00		
20	7.04	21.64	692.35	513.69	641.92	2004.32	4145.08	3771.49	1028.86	40.53	28.87	18.00		
21	6.43	24.69	777.40	527.18	472.60	2190.98	4058.65	3794.93	648.71	40.53	28.87	18.00		
22	6.43	64.07	783.83	562.32	513.69	2380.15	3977.79	3794.93	611.13	51.98	28.87	17.06		
23	8.81	174.65	777.40	562.32	611.13	2505.72	3897.27	3787.12	600.76	64.07	28.87	17.06		
24	10.49	500.10	761.26	544.60	780.62	2620.53	3802.74	3748.00	456.14	76.16	26.80	17.06		
25	11.56	851.90	682.35	631.71	825.94	2729.42	3716.63	3708.77	357.48	66.99	26.80	17.06		
26	12.09	994.35	520.45	665.59	851.90	2836.64	3627.66	3642.22	301.64	48.84	26.80	17.06		
27	11.03	1052.72	506.91	668.95	994.35	2954.43	3557.75	3582.84	267.18	42.37	22.52	17.06		
28	10.49	994.35	449.76	618.01	975.57	3085.51	3499.03	3522.55	263.69	40.53	18.93	17.06		
29	11.03	981.84	440.15	520.45	919.01	3231.17	3422.26	3451.84	201.12	38.66		17.06		
30	9.94	972.42	430.47	472.60	829.20	3362.88	3362.88	3356.92	128.58	36.76		15.13		
31		972.42		423.99	806.32		3291.22		72.72	36.76		14.13		
Total	311.67	7942.61	20206.27	14378.63	14140.26	46968.83	124648.60	102886.23	46085.14	1683.11	757.52	557.61	380566.48	Tonday
Mean	10.39	256.21	673.54	463.83	456.14	1565.63	4020.92	3429.54	1486.62	54.29	27.05	17.99		Ton/day
Max	17.06	1052.72	941.07	668.95	994.35	3362.88	4480.95	3794.93	3267.24	89.52	36.76	19.84	4480.95	Ton/day
Min	6.43	6.43	430.47	357.48	22.52	503.53	3291.22	3075.48	72.72	36.76	18.93	14.13	6.43	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	37
R-Square	0.8936
Remarks	Continued Sediment Station

$$QS = 9.1749\ QW^{0.77930}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	338.76	170.45	77.67	334.12	1956.99	1262.49	1051.66	126.55	22.71	9.17		
2	0.00	0.00	347.98	200.97	86.51	340.30	1942.10	1271.35	1016.01	111.32	21.60	9.17		
3	0.00	0.00	357.14	241.90	102.76	347.98	1927.16	1289.00	980.01	104.20	21.04	8.45		
4	0.00	0.00	366.24	278.50	115.53	355.62	1901.97	1332.85	953.24	96.94	20.47	7.71		
5	0.00	0.00	372.26	302.69	108.48	360.18	1863.96	1436.48	918.51	107.06	19.90	6.95		
6	0.00	0.00	382.74	315.37	81.16	364.73	1825.75	1507.76	881.44	133.30	19.32	6.95		
7	0.00	0.00	388.70	331.01	61.96	367.75	1812.96	1589.74	844.12	109.90	18.74	6.95		
8	0.00	0.00	397.58	346.45	49.07	367.75	1774.44	1659.07	810.55	82.31	18.15	6.95		
9	0.00	0.00	407.87	357.14	39.46	367.75	1735.69	1722.71	781.67	68.12	18.15	6.95		
10	0.00	0.00	415.17	361.70	36.59	366.24	1722.71	1812.96	744.87	56.91	17.56	6.95		
11	0.00	0.00	420.99	358.66	56.91	369.25	1696.69	1876.65	713.81	49.07	17.56	6.16		
12	0.00	0.00	419.54	320.08	59.45	367.75	1647.57	1956.99	678.13	45.02	17.56	6.95		
13	0.00	0.00	418.08	323.22	86.51	370.76	1612.94	2001.46	643.42	39.46	16.96	6.95		
14	0.00	0.00	412.25	346.45	142.59	373.76	1578.11	2045.66	607.74	36.59	16.96	7.71		
15	0.00	64.45	402.00	363.21	172.01	379.76	1554.76	2030.96	579.64	33.65	16.96	9.17		
16	0.00	168.89	388.70	363.21	173.57	397.58	1519.55	1986.66	545.77	31.15	15.75	10.58		
17	0.00	184.36	375.27	378.26	142.59	423.89	1495.95	1914.58	509.45	30.14	15.13	10.58		
18	0.00	194.97	355.62	390.18	154.29	452.83	1472.24	1851.25	461.11	30.14	14.51	9.88		
19	0.00	205.43	340.30	400.52	160.68	518.60	1436.48	1774.44	431.12	30.14	13.87	9.17		
20	0.00	215.73	335.67	402.00	182.83	602.50	1398.73	1696.69	393.14	28.07	13.23	8.45		
21	0.00	224.45	321.65	399.05	228.78	711.72	1351.15	1612.94	343.38	29.11	12.58	7.71		
22	0.00	224.45	310.63	390.18	257.05	769.46	1324.12	1554.76	313.79	31.15	11.93	7.71		
23	0.00	218.65	305.87	361.70	263.70	814.97	1280.18	1507.76	265.36	31.15	11.26	8.45		
24	0.00	225.90	286.63	318.51	270.31	846.70	1244.73	1436.48	205.43	32.16	10.58	7.71		
25	0.00	246.98	248.67	288.25	288.25	881.44	1217.95	1398.73	154.29	31.15	9.88	9.17		
26	0.00	260.38	212.80	238.78	286.63	926.26	1200.00	1324.12	158.14	27.03	9.88	9.88		
27	0.00	270.31	224.45	181.30	275.24	1016.01	1191.00	1262.49	158.14	27.03	9.88	13.23		
28	0.00	280.13	233.08	154.29	289.86	1244.73	1191.00	1208.99	149.12	27.03	9.88	16.96		
29	0.00	293.08	208.38	149.12	305.87	1761.55	1181.98	1149.34	150.42	25.97		18.15		
30	0.00	305.87	163.22	109.90	318.51	1876.65	1200.00	1090.66	161.95	24.90		17.56		
31		327.90		93.99	326.34		1235.82		151.71	22.71		16.36		
Total	0.00	3911.93	10158.24	9237.04	5201.16	18678.59	47494.68	47566.02	16757.14	1659.43	442.00	294.69	161400.92	Tonday
Mean	0.00	126.19	338.61	297.97	167.78	622.62	1532.09	1585.53	540.55	53.53	15.79	9.51		Ton/day
Max	0.00	327.90	420.99	402.00	326.34	1876.65	1956.99	2045.66	1051.66	133.30	22.71	18.15	2045.66	Ton/day
Min	0.00	0.00	163.22	93.99	36.59	334.12	1181.98	1090.66	149.12	22.71	9.88	6.16	0.00	Ton/day

WATER YEAR : 2008

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.

Ban Nongyaplong **Amphoe** Mueang **Changwat** Si Sa Ket

Drainge 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	2008
Number of observation	28
R-Square	0.8928
Remarks	Continued Sediment Station

$$QS = 3.2063\ QW^{1.08490}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.18	0.24	88.27	1.58	1.25	14.82	1290.73	129.78	103.98	0.24	0.29	0.24		
2	0.24	0.50	72.61	1.38	0.96	19.18	1262.00	126.30	96.69	0.21	0.32	0.21		
3	0.24	0.44	58.86	1.58	0.81	25.66	1264.61	125.61	88.54	0.24	0.29	0.21		
4	0.24	0.24	29.77	1.25	0.71	25.25	1264.61	126.30	80.90	0.59	0.26	0.18		
5	2.25	0.24	25.25	1.38	0.74	17.98	1256.78	127.69	72.61	0.71	0.26	0.15		
6	2.65	0.29	22.40	1.15	1.06	9.99	1238.53	129.78	65.89	0.26	0.26	0.15		
7	1.03	0.32	27.30	0.59	1.22	6.80	1220.30	129.09	58.86	0.15	0.26	0.26		
8	0.41	0.41	27.30	0.62	1.22	10.56	1183.90	131.88	51.56	0.18	0.26	0.74		
9	0.38	0.32	24.84	0.59	2.11	10.18	1157.96	132.57	44.34	0.41	0.26	0.32		
10	0.56	0.24	22.40	0.56	3.28	9.99	1134.65	133.97	37.30	0.26	0.26	0.24		
11	0.41	0.24	14.43	0.81	4.44	10.56	1124.30	132.57	30.02	0.35	0.26	0.21		
12	0.29	0.18	6.80	0.84	6.29	22.40	944.85	131.18	17.03	0.12	0.26	0.15		
13	0.24	0.74	4.12	0.71	5.70	70.13	650.65	133.97	8.51	0.53	0.26	0.15		
14	0.24	0.32	3.59	0.62	5.70	114.75	496.70	133.97	6.10	0.10	0.26	0.12		
15	0.24	0.24	3.49	0.50	5.56	170.19	442.74	133.27	4.40	0.07	0.26	0.10		
16	0.24	0.24	4.44	0.47	5.41	296.06	403.24	133.97	3.84	0.07	0.26	0.12		
17	0.24	0.24	5.99	0.93	4.98	462.98	359.00	135.37	3.70	0.07	0.26	0.12		
18	0.24	0.38	9.23	1.41	4.98	626.44	324.92	137.47	3.49	0.12	0.24	0.12		
19	0.26	0.26	14.04	1.48	10.56	697.28	304.00	140.97	3.17	0.10	0.26	0.10		
20	0.29	3.91	29.77	1.71	12.09	766.44	281.22	143.08	2.86	0.59	0.50	0.10		
21	0.44	8.10	35.19	2.01	10.94	867.86	259.57	143.78	2.08	0.77	0.35	0.10		
22	0.41	36.03	34.36	1.94	8.48	991.18	238.05	145.19	1.19	0.26	0.32	0.26		
23	0.41	68.36	27.71	2.86	8.10	1089.79	220.56	145.89	0.81	0.15	0.59	0.21		
24	0.32	148.94	23.21	2.04	21.19	1150.19	208.48	145.19	0.62	0.15	0.38	0.18		
25	0.24	165.21	18.78	3.17	29.36	1178.71	195.59	142.38	0.50	0.15	0.56	0.15		
26	0.21	154.59	8.29	4.23	24.43	1191.69	185.24	138.17	0.44	0.15	0.32	0.15		
27	0.21	145.42	4.33	4.44	24.84	1191.69	172.38	133.97	0.35	0.29	0.26	0.12		
28	0.24	146.13	3.38	4.33	30.19	1220.30	161.29	127.00	0.32	0.35	0.24	0.12		
29	0.24	140.51	2.65	5.56	28.95	1251.56	150.82	118.21	0.32	0.32		0.12		
30	0.24	130.02	2.01	2.45	21.19	1290.73	143.08	111.30	0.29	0.29		0.12		
31		107.18		1.64	15.21		134.67		0.26	0.29		0.10		
Total	13.83	1260.48	654.81	54.83	301.95	14811.34	19675.42	3999.87	790.97	8.54	8.56	5.62	41586.22	Tonday
Mean	0.46	40.66	21.83	1.77	9.74	493.71	634.69	133.33	25.52	0.28	0.31	0.18		Ton/day
Max	2.65	165.21	88.27	5.56	30.19	1290.73	1290.73	145.89	103.98	0.77	0.59	0.74	1290.73	Ton/day
Min	0.18	0.18	2.01	0.47	0.71	6.80	134.67	111.30	0.26	0.07	0.24	0.10	0.07	Ton/day

WATER YEAR : 2008

MUN RIVER BASIN

Lam Chi at Ban Kho Kho, Surin (M.26)

Lat 14 - 54 - 08 N Long 103 - 24 - 12 E

Location : on left bank at railway bridge.

Ban Kho Kho **Amphoe** Mueang **Changwat** Surin

Drainge Area	3,058 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	2008
Number of observation	30
R-Square	0.8643
Remarks	Continued Sediment Station

$$QS = 6.3534\ QW^{0.78140}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	46.89	26.20	82.20	134.44	531.91	269.96	27.66	0.00	0.00	0.00		
2	0.00	0.00	39.33	23.59	83.07	99.68	518.77	290.55	23.21	0.00	0.00	0.00		
3	0.00	0.00	36.69	31.57	79.13	76.02	516.88	309.35	17.70	0.00	0.00	0.00		
4	0.00	0.00	44.81	33.64	73.78	66.14	515.00	330.56	18.11	0.00	0.00	0.00		
5	0.00	0.00	39.66	37.68	71.07	54.91	503.64	364.96	17.29	0.00	0.00	0.00		
6	0.00	0.00	32.95	39.66	75.57	53.52	478.78	407.84	17.29	0.00	0.00	0.00		
7	0.00	0.00	31.91	35.00	75.57	56.29	447.97	440.41	17.29	0.00	0.00	0.00		
8	0.00	0.00	29.10	32.61	71.52	62.16	434.33	486.46	21.29	0.00	0.00	0.00		
9	0.00	0.00	24.72	29.81	68.78	69.24	419.41	524.41	24.35	0.00	0.00	0.00		
10	0.00	0.00	25.83	34.66	71.97	71.52	402.01	560.18	18.51	0.00	0.00	0.00		
11	0.00	0.00	26.93	59.47	65.70	94.40	374.52	579.07	16.87	0.00	0.00	0.00		
12	0.00	0.00	26.20	76.91	61.27	143.24	342.38	581.26	15.61	0.00	0.00	0.00		
13	0.00	0.00	23.59	86.97	62.61	189.57	307.23	564.29	14.76	0.00	0.00	0.00		
14	0.00	0.00	31.91	91.28	71.52	235.54	278.78	528.16	14.32	0.00	0.00	0.00		
15	0.00	0.00	32.61	86.54	86.54	280.38	258.29	488.38	10.49	0.00	0.00	0.00		
16	0.00	0.00	37.35	71.07	102.72	348.07	233.96	440.41	5.54	0.00	0.00	0.00		
17	0.00	0.00	33.98	57.66	122.15	417.10	199.73	405.51	7.33	0.00	0.00	0.00		
18	0.00	0.00	36.35	46.89	144.90	476.85	162.81	360.96	13.00	0.00	0.00	0.00		
19	0.00	0.00	41.29	50.23	174.03	535.93	140.74	295.31	10.71	0.00	0.00	0.00		
20	0.00	33.64	39.99	49.29	202.28	585.63	133.17	229.75	5.95	0.00	0.00	0.00		
21	0.00	44.49	40.64	47.85	223.93	638.94	129.11	173.54	10.06	0.00	0.00	0.00		
22	0.00	51.65	45.12	44.17	243.36	738.01	129.11	137.39	15.61	0.00	0.00	0.00		
23	0.00	59.47	48.81	37.02	263.39	838.92	133.60	110.86	10.49	0.00	0.00	0.00		
24	0.00	65.26	45.92	32.26	282.51	861.88	129.51	88.25	6.15	0.00	0.00	0.00		
25	0.00	74.68	45.92	31.57	300.05	838.92	129.11	68.78	0.00	0.00	0.00	0.00		
26	0.00	80.45	38.35	33.30	314.26	784.08	140.33	53.05	0.00	0.00	0.00	0.00		
27	0.00	88.25	25.83	25.09	316.36	726.96	157.18	46.41	0.00	0.00	0.00	0.00		
28	0.00	89.96	21.29	38.02	304.41	663.01	176.97	38.68	0.00	0.00	0.00	0.00		
29	0.00	80.01	22.07	53.05	277.71	602.29	198.71	33.98	0.00	0.00		0.00		
30	0.00	59.92	13.00	68.32	236.06	560.18	220.88	29.81	0.00	0.00		0.00		
31		53.98		77.80	181.36		244.40		0.00	0.00		0.00		
Total	0.00	781.76	1029.04	1489.18	4789.78	11303.82	8989.22	9238.53	359.59	0.00	0.00	0.00	37980.92	Tonday
Mean	0.00	25.22	34.30	48.04	154.51	376.79	289.97	307.95	11.60	0.00	0.00	0.00		Ton/day
Max	0.00	89.96	48.81	91.28	316.36	861.88	531.91	581.26	27.66	0.00	0.00	0.00	861.88	Ton/day
Min	0.00	0.00	13.00	23.59	61.27	53.52	129.11	29.81	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	21
R-Square	0.8450
Remarks	Continued Sediment Station

$$QS = 1.3328\ QW^{1.42090}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	17.81	13.12	17.81	34.13	1165.75	60.14	3.32	0.00	0.00	0.00		
2	0.00	0.00	20.31	15.41	22.90	34.13	1087.67	82.26	3.32	0.00	0.00	0.00		
3	0.00	0.00	22.90	20.31	40.22	34.13	982.98	110.49	3.32	0.00	0.00	0.00		
4	0.00	0.00	25.58	22.90	49.89	43.38	722.73	351.72	3.32	0.00	0.00	0.00		
5	0.00	0.00	25.58	20.31	43.38	46.60	450.19	614.07	3.32	0.00	0.00	0.00		
6	0.00	0.00	28.35	15.41	37.14	46.60	310.97	605.93	3.32	0.00	0.00	0.00		
7	0.00	0.00	31.20	15.41	34.13	43.38	322.46	480.23	3.32	0.00	0.00	0.00		
8	0.00	0.00	34.13	22.90	28.35	34.13	450.19	293.97	3.32	0.00	0.00	0.00		
9	0.00	0.00	28.35	28.35	25.58	28.35	526.35	104.93	3.07	0.00	0.00	0.00		
10	0.00	0.00	25.58	37.14	22.90	20.31	450.19	63.69	2.83	0.00	0.00	0.00		
11	0.00	0.00	22.90	34.13	28.35	22.90	273.58	49.89	2.83	0.00	0.00	0.00		
12	0.00	0.00	28.35	28.35	46.60	43.38	82.26	37.14	2.60	0.00	0.00	0.00		
13	0.00	0.00	63.69	25.58	63.69	345.81	63.69	28.35	2.15	0.00	0.00	0.00		
14	0.00	0.00	90.07	22.90	70.95	918.02	53.24	22.90	1.93	0.00	0.00	0.00		
15	0.00	0.00	99.45	20.31	60.14	1678.60	43.38	20.31	1.33	0.00	0.00	0.00		
16	0.00	0.00	116.14	17.81	46.60	2027.41	37.14	20.31	1.15	0.00	0.00	0.00		
17	0.00	0.00	230.65	15.41	37.14	2147.92	37.14	17.81	0.64	0.00	0.00	0.00		
18	0.00	0.00	244.72	15.41	40.22	2134.43	37.14	15.41	0.24	0.00	0.00	0.00		
19	0.00	0.00	164.18	15.41	60.14	1882.95	34.13	13.12	0.00	0.00	0.00	0.00		
20	0.00	0.00	145.59	15.41	90.07	1469.28	34.13	10.94	0.00	0.00	0.00	0.00		
21	0.00	31.20	127.69	15.41	90.07	1291.63	34.13	10.94	0.00	0.00	0.00	0.00		
22	0.00	67.29	86.14	13.12	74.66	1154.50	34.13	8.88	0.00	0.00	0.00	0.00		
23	0.00	53.24	56.66	13.12	60.14	1068.41	37.14	8.88	0.00	0.00	0.00	0.00		
24	0.00	164.18	37.14	13.12	53.24	927.22	40.22	8.88	0.00	0.00	0.00	0.00		
25	0.00	78.44	22.90	15.41	49.89	748.53	37.14	6.96	0.00	0.00	0.00	0.00		
26	0.00	176.93	17.81	15.41	46.60	487.83	34.13	6.96	0.00	0.00	0.00	0.00		
27	0.00	74.66	15.41	15.41	40.22	299.61	34.13	5.18	0.00	0.00	0.00	0.00		
28	0.00	31.20	13.12	15.41	40.22	145.59	40.22	3.57	0.00	0.00	0.00	0.00		
29	0.00	25.58	13.12	15.41	40.22	121.87	46.60	3.57	0.00	0.00		0.00		
30	0.00	22.90	13.12	15.41	37.14	351.72	56.66	3.32	0.00	0.00		0.00		
31		20.31		17.81	37.14		53.24		0.00	0.00		0.00		
Total	0.00	745.93	1868.64	587.02	1435.74	19632.75	7613.05	3070.75	45.33	0.00	0.00	0.00	34999.21	Tonday
Mean	0.00	24.06	62.29	18.94	46.31	654.43	245.58	102.36	1.46	0.00	0.00	0.00		Ton/day
Max	0.00	176.93	244.72	37.14	90.07	2147.92	1165.75	614.07	3.32	0.00	0.00	0.00	2147.92	Ton/day
Min	0.00	0.00	13.12	13.12	17.81	20.31	34.13	3.32	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	1997-2008
Number of observation	224
R-Square	0.8659
Remarks	Continued Sediment Station

$$QS = 3.9328\ QW^{0.98240}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	338.78	10.81	9.29	34.42	926.85	177.60	13.84	0.00	0.00	0.00		
2	0.00	0.00	306.47	11.57	23.24	35.54	892.71	190.05	13.09	0.00	0.00	0.00		
3	0.00	0.00	251.16	13.09	17.61	36.65	908.70	210.93	13.09	0.00	0.00	0.00		
4	0.00	0.00	188.96	16.48	14.60	36.65	880.72	228.91	11.57	0.00	0.00	0.00		
5	0.00	0.00	158.28	20.99	24.36	32.19	848.73	248.29	11.57	0.00	0.00	0.00		
6	0.00	0.00	135.83	20.99	42.21	28.84	804.71	264.78	10.81	0.00	0.00	0.00		
7	0.00	0.00	36.65	19.87	37.77	31.08	784.68	273.38	10.05	0.00	0.00	0.00		
8	0.00	0.00	28.84	18.74	29.96	36.65	760.64	280.25	10.05	0.00	0.00	0.00		
9	0.00	0.00	26.60	19.87	27.72	37.77	728.56	273.38	9.29	0.00	0.00	0.00		
10	0.00	0.00	22.12	23.24	26.60	42.21	703.57	267.36	8.53	0.00	0.00	0.00		
11	0.00	0.00	18.74	22.12	25.48	81.94	674.41	263.06	0.00	0.00	0.00	0.00		
12	0.00	0.00	25.48	25.48	32.19	147.42	638.74	263.06	0.00	0.00	0.00	0.00		
13	0.00	7.01	33.31	29.96	36.65	182.47	590.03	263.92	0.00	0.00	0.00	0.00		
14	0.00	10.81	35.54	32.19	43.69	205.89	541.01	262.20	0.00	0.00	0.00	0.00		
15	0.00	12.33	40.73	32.19	80.11	246.14	496.05	252.74	0.00	0.00	0.00	0.00		
16	0.00	13.84	42.21	27.72	137.28	360.17	448.00	231.78	0.00	0.00	0.00	0.00		
17	0.00	13.09	110.40	22.12	147.06	609.52	363.02	197.25	0.00	0.00	0.00	0.00		
18	0.00	13.09	140.18	23.24	150.32	844.73	278.53	160.81	0.00	0.00	0.00	0.00		
19	0.00	12.33	152.49	20.99	160.09	1013.13	213.09	128.21	0.00	0.00	0.00	0.00		
20	0.00	13.84	152.13	23.24	173.81	1119.37	174.36	35.54	0.00	0.00	0.00	0.00		
21	0.00	42.21	128.57	23.24	190.59	1196.84	157.56	31.08	0.00	0.00	0.00	0.00		
22	0.00	140.18	126.03	17.61	206.61	1224.73	149.23	25.48	0.00	0.00	0.00	0.00		
23	0.00	218.12	138.00	13.84	210.21	1196.84	145.97	23.24	0.00	0.00	0.00	0.00		
24	0.00	287.98	146.70	12.33	201.57	1164.57	145.97	19.87	0.00	0.00	0.00	0.00		
25	0.00	345.91	149.23	10.05	188.96	1183.93	148.51	18.74	0.00	0.00	0.00	0.00		
26	0.00	388.48	147.42	8.53	176.52	1177.48	159.72	17.61	0.00	0.00	0.00	0.00		
27	0.00	420.30	139.82	10.05	163.70	1138.75	167.31	16.48	0.00	0.00	0.00	0.00		
28	0.00	443.74	83.77	9.29	149.96	1074.14	168.40	15.35	0.00	0.00	0.00	0.00		
29	0.00	448.00	26.60	8.53	136.19	1013.13	168.76	14.60	0.00	0.00		0.00		
30	0.00	414.08	18.74	7.77	72.78	952.24	169.48	14.60	0.00	0.00		0.00		
31		375.66		7.77	34.42		169.84		0.00	0.00		0.00		
Total	0.00	3621.00	3349.78	563.91	2971.55	16485.43	14407.86	4670.55	111.89	0.00	0.00	0.00	46181.97	Tonday
Mean	0.00	116.81	111.66	18.19	95.86	549.51	464.77	155.69	3.61	0.00	0.00	0.00		Ton/day
Max	0.00	448.00	338.78	32.19	210.21	1224.73	926.85	280.25	13.84	0.00	0.00	0.00	1224.73	Ton/day
Min	0.00	0.00	18.74	7.77	9.29	28.84	145.97	14.60	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

MUN RIVER BASIN

Huai Khayung at Ban Wang Chom Pu, Si Sa Ket (M.66)

Lat 14 - 38 - 27 N Long 104 - 39 - 50 E

Location : on right bank about 50 meters upstream from the bridge of Kantharalak - Det Udom Road.

Ban Wang Chom Pu **Amphoe** Kantharalak **Changwat** Si Sa Ket

Drainge Area	562 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	2008
Number of observation	25
R-Square	0.9537
Remarks	Continued Sediment Station

$$QS = 1.6388\ QW^{1.41550}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	10.64	4.13	6.90	33.89	66.96	134.44	3.77	2.12	0.00	0.00		
2	0.00	0.00	18.54	2.38	14.43	28.93	58.51	117.03	3.77	1.88	0.00	0.00		
3	0.00	0.00	13.78	4.87	24.71	24.71	386.58	94.20	3.47	1.64	0.00	0.00		
4	0.00	0.00	15.09	6.48	31.11	21.68	239.17	88.54	3.19	1.41	0.00	0.00		
5	0.00	0.45	14.43	6.90	35.31	19.97	194.91	98.03	3.19	1.19	0.00	0.00		
6	0.00	0.87	5.26	6.06	65.24	19.97	102.69	94.20	3.19	1.03	0.00	0.00		
7	0.00	3.19	4.87	5.66	150.35	30.01	134.44	90.41	2.91	0.87	0.00	0.00		
8	0.00	3.19	4.13	4.87	61.85	23.69	94.20	81.15	2.91	0.58	0.00	0.00		
9	0.00	2.12	18.54	5.26	56.86	41.16	342.94	70.43	2.91	0.33	0.00	0.00		
10	0.00	2.12	17.83	6.48	47.26	75.73	136.99	63.54	2.91	0.22	0.00	0.00		
11	0.00	0.45	16.45	7.76	50.40	73.95	75.73	60.17	2.91	0.05	0.00	0.00		
12	0.00	0.58	19.25	9.46	63.54	98.03	60.17	53.60	2.91	0.00	0.00	0.00		
13	0.00	246.21	20.70	8.88	406.91	239.17	56.86	47.26	2.91	0.00	0.00	0.00		
14	0.00	382.55	79.33	6.90	678.44	191.61	58.51	41.16	2.91	0.00	0.00	0.00		
15	0.00	297.13	75.73	6.48	821.95	194.91	53.60	32.49	2.91	0.00	0.00	0.00		
16	0.00	119.48	58.51	6.48	327.46	304.63	50.40	27.86	2.64	0.00	0.00	0.00		
17	0.00	73.95	50.40	6.90	218.41	297.13	92.30	19.25	2.64	0.00	0.00	0.00		
18	0.00	25.75	42.66	6.90	198.22	486.90	700.30	15.09	2.64	0.00	0.00	0.00		
19	0.00	9.46	45.71	6.06	362.59	551.65	491.22	10.64	2.64	0.00	0.00	0.00		
20	0.00	4.50	38.20	6.48	366.55	473.99	456.94	7.32	2.64	0.00	0.00	0.00		
21	0.00	6.06	84.82	4.50	274.97	593.05	211.62	6.48	2.64	0.00	0.00	0.00		
22	0.00	4.87	77.53	2.38	282.30	593.05	256.89	6.48	2.64	0.00	0.00	0.00		
23	0.00	4.50	77.53	3.47	144.70	358.63	131.91	6.06	2.64	0.00	0.00	0.00		
24	0.00	11.25	75.73	5.66	82.98	256.89	48.82	5.66	2.64	0.00	0.00	0.00		
25	0.00	9.46	47.26	6.90	47.26	172.21	185.08	5.66	2.64	0.00	0.00	0.00		
26	0.00	9.46	11.25	7.76	48.82	105.04	156.51	5.26	2.64	0.00	0.00	0.00		
27	0.00	1.19	8.32	8.32	42.66	72.18	107.41	4.87	2.38	0.00	0.00	0.00		
28	0.00	0.12	7.76	9.46	41.16	58.51	75.73	4.50	2.38	0.00	0.00	0.00		
29	0.00	2.91	6.06	10.05	38.20	81.15	66.96	3.77	2.38	0.00		0.00		
30	0.00	7.32	5.66	10.64	36.75	105.04	201.54	3.19	2.38	0.00		0.00		
31		20.70		11.25	35.31		201.54		2.38	0.00		0.00		
Total	0.00	1249.84	971.97	205.78	5063.60	5627.46	5497.43	1298.74	87.71	11.32	0.00	0.00	20013.85	Tonday
Mean	0.00	40.32	32.40	6.64	163.34	187.58	177.34	43.29	2.83	0.37	0.00	0.00		Ton/day
Max	0.00	382.55	84.82	11.25	821.95	593.05	700.30	134.44	3.77	2.12	0.00	0.00	821.95	Ton/day
Min	0.00	0.00	4.13	2.38	6.90	19.97	48.82	3.19	2.38	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	24
R-Square	0.8344
Remarks	Continued Sediment Station

$$QS = 1.4775\ QW^{1.69320}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.74	34.24	47.87	11.73	4.38	16.78	75.39	770.40	15.45	9.49	5.61	4.38		
2	1.74	14.17	27.31	12.93	9.49	19.58	349.81	1303.08	15.45	9.49	5.61	4.38		
3	1.74	9.49	75.39	11.73	6.51	37.94	332.40	321.00	15.45	9.49	5.61	4.38		
4	1.74	39.85	30.70	11.73	6.51	34.24	803.09	186.22	15.45	9.49	5.61	4.38		
5	2.30	37.94	21.04	11.73	6.51	54.26	827.97	179.03	15.45	9.49	5.61	4.38		
6	2.30	12.93	119.66	11.73	6.51	43.78	206.59	148.12	15.45	8.45	5.61	4.38		
7	2.61	7.45	939.34	11.73	5.61	54.26	271.71	104.93	15.45	8.45	5.61	4.38		
8	3.27	4.38	128.87	11.73	6.51	70.45	475.00	99.27	15.45	8.45	5.61	4.38		
9	3.27	3.27	85.67	9.49	6.51	45.81	1060.08	99.27	15.45	8.45	5.61	4.38		
10	2.30	5.61	41.80	9.49	8.45	58.71	578.93	75.39	15.45	8.45	5.61	4.38		
11	2.01	15.45	39.85	10.59	7.45	762.32	122.70	58.71	15.45	8.45	5.61	4.38		
12	2.01	175.48	80.46	10.59	11.73	7065.88	99.27	52.10	14.17	8.45	5.61	4.38		
13	2.01	416.73	54.26	9.49	22.54	7521.37	77.91	45.81	14.17	8.45	5.61	4.38		
14	1.74	225.85	54.26	9.49	41.80	1918.96	68.03	39.85	14.17	8.45	5.61	4.38		
15	1.74	116.65	99.27	8.45	102.08	983.69	49.96	36.07	11.73	8.45	5.61	4.38		
16	1.74	56.47	63.30	7.45	72.90	1093.54	45.81	36.07	10.59	8.45	5.61	4.38		
17	1.74	52.10	54.26	6.51	39.85	1476.32	36.07	32.45	10.59	8.45	4.78	4.38		
18	1.74	25.68	45.81	6.51	32.45	1255.22	32.45	30.70	10.59	8.45	4.78	4.38		
19	1.74	19.58	30.70	6.51	30.70	939.34	24.09	27.31	10.59	8.45	4.78	4.38		
20	1.74	19.58	25.68	6.51	28.98	637.76	28.98	25.68	10.59	8.45	4.78	4.38		
21	1.74	37.94	15.45	6.51	25.68	578.93	24.09	24.09	9.49	8.45	4.38	8.45		
22	4.38	19.58	14.17	5.61	22.54	349.81	45.81	22.54	9.49	8.45	4.38	4.78		
23	8.45	14.17	21.04	5.61	27.31	230.77	27.31	21.04	9.49	8.45	4.38	5.61		
24	4.38	11.73	14.17	5.61	18.16	144.84	25.68	21.04	9.49	8.45	4.38	5.61		
25	14.17	14.17	12.93	5.61	14.17	93.73	30.70	19.58	9.49	8.45	4.38	4.78		
26	10.59	11.73	11.73	5.61	12.93	72.90	141.58	18.16	9.49	8.45	4.38	4.78		
27	6.51	7.45	30.70	6.51	12.93	47.87	148.12	18.16	9.49	8.45	4.38	4.38		
28	4.38	4.78	24.09	6.51	25.68	30.70	113.67	16.78	9.49	8.45	4.78	4.38		
29	28.98	22.54	14.17	5.61	60.99	28.98	68.03	16.78	9.49	8.45		5.61		
30	125.77	144.84	11.73	5.61	32.45	39.85	63.30	16.78	9.49	7.45		4.78		
31		65.65		4.78	18.16		135.17		9.49	5.61		27.31		
Total	250.57	1647.48	2235.68	259.70	728.47	25708.59	6389.70	3866.41	381.53	263.31	144.32	168.07	42043.83	Tonday
Mean	8.35	53.14	74.52	8.38	23.50	856.95	206.12	128.88	12.31	8.49	5.15	5.42		Ton/day
Max	125.77	416.73	939.34	12.93	102.08	7521.37	1060.08	1303.08	15.45	9.49	5.61	27.31	7521.37	Ton/day
Min	1.74	3.27	11.73	4.78	4.38	16.78	24.09	16.78	9.49	5.61	4.38	4.38	1.74	Ton/day

WATER YEAR : 2008

MUN RIVER BASIN

Huai Samran at Ban Thai Thaworn, Si Sa Ket (M.91)

Lat 14 - 29 - 40 N Long 104 - 03 - 34 E

Location : on right bank about 15 kilometers, the highway at Ban Thai Thaworn.

Ban Thai Thaworn **Amphoe** Phu Sing **Changwat** Si Sa Ket

Drainge Area	141 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1986 - 1991,2002 - Cont'd
Actual Measurement	1986 - 1991,2002 - Cont'd
Using Rating Curve Water Year	2008
Number of observation	32
R-Square	0.7551
Remarks	Continued Sediment Station

$$QS = 3.5273\ QW^{1.22960}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.16	2.44	4.19	3.27	1.36	3.79	29.47	23.90	2.93	1.81	1.92	0.87		
2	2.04	2.60	4.19	3.61	1.69	4.19	34.70	36.44	2.93	1.81	1.81	0.94		
3	1.81	2.60	4.41	3.97	1.81	3.79	35.84	29.98	2.76	1.81	1.92	0.94		
4	1.69	2.60	4.19	2.60	1.69	3.61	27.93	21.44	2.60	1.81	1.81	0.74		
5	1.36	2.60	4.19	2.04	1.58	3.79	20.48	19.04	2.60	1.81	1.58	0.74		
6	1.25	2.60	4.19	1.81	2.04	3.61	15.77	16.69	2.60	1.81	1.36	1.47		
7	1.25	2.60	4.19	1.69	2.04	3.44	12.57	15.31	2.60	1.81	1.36	2.16		
8	1.25	2.76	4.19	1.92	1.81	6.05	16.23	14.52	2.60	1.81	1.25	2.60		
9	1.14	2.60	4.19	2.04	1.69	9.56	14.52	12.95	2.60	1.58	1.14	2.93		
10	1.07	2.60	4.87	1.81	1.58	6.53	11.80	9.82	2.60	1.47	1.07	2.04		
11	1.00	2.60	5.33	1.81	1.92	8.78	10.88	8.27	2.60	1.36	1.00	2.44		
12	1.07	5.81	5.57	1.58	3.44	19.04	10.09	7.52	2.60	1.36	0.94	2.44		
13	1.14	10.88	4.64	1.36	32.07	16.23	10.09	6.53	2.60	1.36	0.94	2.44		
14	1.07	7.02	3.97	1.25	5.33	10.62	8.78	5.81	2.60	1.25	0.94	2.93		
15	1.00	5.33	3.44	1.25	3.97	33.12	8.53	5.57	2.60	1.25	0.94	2.44		
16	0.94	4.41	3.44	1.14	3.10	28.95	3.97	5.10	2.60	1.25	0.87	2.44		
17	0.80	4.41	6.05	1.14	2.76	25.40	3.61	4.87	2.44	1.14	0.80	2.27		
18	0.74	4.64	5.33	1.14	2.76	57.94	4.19	4.64	2.44	1.14	0.80	2.44		
19	0.67	4.19	4.64	1.25	4.64	105.85	4.41	4.41	2.04	1.14	0.80	2.44		
20	0.61	3.97	4.19	1.25	3.79	122.62	5.10	4.19	1.81	1.69	0.80	2.44		
21	0.61	3.79	3.79	1.25	3.79	127.26	5.57	3.97	1.81	1.92	0.74	2.44		
22	0.55	3.79	3.61	1.14	3.44	115.75	8.02	3.79	1.81	1.81	0.74	2.44		
23	0.49	3.97	3.61	1.14	3.27	65.94	9.82	3.61	1.81	1.81	0.67	2.44		
24	0.55	3.79	3.61	1.14	3.44	44.44	10.35	3.61	1.92	1.81	0.67	2.44		
25	0.55	4.64	3.44	1.00	3.44	30.50	9.04	3.44	1.92	1.81	0.67	2.76		
26	1.25	4.64	3.44	0.87	3.61	22.42	7.77	3.27	1.92	1.81	0.67	2.76		
27	2.16	4.41	3.27	0.94	3.61	17.62	6.77	3.27	1.92	1.92	0.74	2.60		
28	2.27	4.41	3.27	1.92	3.61	25.90	7.77	2.93	1.81	1.92	0.74	2.60		
29	3.27	4.41	3.27	1.81	3.27	43.19	7.27	2.93	1.81	1.92		2.60		
30	2.60	4.41	3.27	1.58	3.27	32.07	8.02	2.93	1.81	1.92		2.60		
31		4.19		1.36	3.61		16.23		1.81	1.92		2.60		
Total	38.36	125.71	123.98	52.08	119.43	1002.00	385.59	290.75	71.50	51.04	29.69	68.43	2358.56	Tonday
Mean	1.28	4.06	4.13	1.68	3.85	33.40	12.44	9.69	2.31	1.65	1.06	2.21		Ton/day
Max	3.27	10.88	6.05	3.97	32.07	127.26	35.84	36.44	2.93	1.92	1.92	2.93	127.26	Ton/day
Min	0.49	2.44	3.27	0.87	1.36	3.44	3.61	2.93	1.81	1.14	0.67	0.74	0.49	Ton/day

WATER YEAR : 2008

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

Drainge Area	570 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	2008
Number of observation	22
R-Square	0.9405
Remarks	Continued Sediment Station

$$QS = 1.7819\ QW^{1.26370}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	28.63	3.41	9.95	10.27	21.59	336.09	155.82	11.59	2.15	0.93	0.19	0.10		
2	6.93	3.00	10.27	10.27	41.18	1701.56	107.27	48.23	1.76	0.93	0.19	0.10		
3	4.88	2.36	309.43	9.63	61.11	469.94	90.61	76.54	1.47	0.86	0.19	0.10		
4	3.54	2.24	68.73	8.99	242.40	193.32	57.36	63.00	1.56	0.76	0.19	0.10		
5	2.87	2.03	98.87	7.14	522.41	86.54	34.78	103.05	1.47	0.69	0.19	0.10		
6	2.36	1.94	53.67	7.14	649.13	53.67	25.06	74.57	1.37	0.61	0.19	0.10		
7	2.24	1.85	50.03	6.08	293.67	42.92	23.89	32.29	1.47	0.61	0.19	0.10		
8	2.24	6.08	44.68	600.94	188.54	57.36	17.15	21.59	1.56	0.52	0.19	0.10		
9	2.15	2.87	26.24	1152.65	94.72	36.04	14.31	10.27	1.65	0.52	0.19	0.10		
10	1.85	2.24	12.26	783.65	82.51	21.59	13.62	7.75	1.65	0.52	0.19	0.10		
11	1.76	53.67	12.26	390.72	621.50	20.46	11.59	6.49	1.65	0.46	0.19	0.10		
12	1.76	12.94	10.27	142.21	560.27	21.59	9.95	6.08	1.56	0.46	0.19	0.10		
13	1.65	6.28	44.68	59.23	534.23	41.18	9.63	5.44	1.56	0.46	0.19	0.10		
14	1.65	4.28	57.36	70.67	298.90	2312.74	9.31	5.44	1.47	0.46	0.19	0.29		
15	1.56	3.69	137.74	31.06	128.87	747.74	9.31	4.72	1.47	0.46	0.19	0.23		
16	1.56	3.28	44.68	21.59	61.11	642.20	9.31	4.41	1.47	0.46	0.19	0.19		
17	1.56	2.75	352.29	14.31	37.31	510.65	8.99	4.28	1.47	0.46	0.19	0.15		
18	1.56	2.75	179.06	82.51	29.84	304.16	8.99	4.28	1.47	0.46	0.19	0.10		
19	1.56	3.54	120.13	64.90	25.06	155.82	8.68	4.12	1.47	0.46	0.19	0.06		
20	1.56	34.78	193.32	29.84	19.34	115.81	8.68	3.82	1.37	0.46	0.19	0.06		
21	2.24	26.24	74.57	15.72	15.01	4096.94	8.37	3.69	1.20	0.52	0.19	0.06		
22	2.24	25.06	46.45	10.93	17.15	5697.12	8.06	3.69	1.20	0.46	0.19	0.06		
23	2.24	18.24	22.74	9.63	12.94	812.63	6.69	3.54	1.20	0.34	0.19	0.06		
24	2.24	12.94	14.31	9.31	11.59	352.29	31.06	3.28	1.09	0.34	0.19	0.02		
25	2.24	15.01	9.95	8.68	26.24	179.06	13.62	3.13	1.09	0.34	0.15	0.02		
26	1.94	8.06	9.95	7.44	15.01	94.72	9.95	3.00	1.09	0.29	0.15	0.02		
27	1.65	5.64	10.93	15.01	528.32	61.11	15.01	2.87	1.01	0.29	0.10	0.02		
28	1.56	4.72	10.93	76.54	298.90	413.04	9.63	2.75	1.01	0.23	0.10	0.02		
29	1.47	8.06	25.06	36.04	146.72	252.49	9.31	2.63	1.01	0.23		0.02		
30	1.28	42.92	17.15	22.74	124.49	142.21	9.31	2.15	1.01	0.19		0.02		
31		29.84		23.89	103.05		10.93		1.01	0.19		0.02		
Total	92.97	352.71	2077.96	3739.73	5813.11	19972.99	766.25	528.69	42.99	14.97	5.06	2.72	33410.15	Tonday
Mean	3.10	11.38	69.27	120.64	187.52	665.77	24.72	17.62	1.39	0.48	0.18	0.09		Ton/day
Max	28.63	53.67	352.29	1152.65	649.13	5697.12	155.82	103.05	2.15	0.93	0.19	0.29	5697.12	Ton/day
Min	1.28	1.85	9.95	6.08	11.59	20.46	6.69	2.15	1.01	0.19	0.10	0.02	0.02	Ton/day

WATER YEAR : 2008

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

Drainge 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	1997-2008
Number of observation	235
R-Square	0.8985
Remarks	Continued Sediment Station

$$QS = 7.0472\ QW^{1.21560}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	5.78	16.37	40.33	8.80	30.08	183.40	45.05	4.57	1.63	1.00	0.00		
2	0.00	4.17	17.37	59.71	54.74	32.31	143.04	143.04	4.57	1.63	0.70	0.00		
3	0.00	3.03	20.43	35.71	104.62	33.44	108.78	268.87	4.57	1.63	0.70	0.00		
4	0.00	3.03	33.44	26.79	67.30	38.01	96.38	298.57	4.57	1.63	0.70	0.00		
5	0.00	2.67	82.93	19.40	62.22	25.71	75.04	303.57	4.57	1.63	0.70	0.00		
6	0.00	2.67	77.66	15.38	108.78	24.64	308.59	283.65	4.57	1.63	0.43	0.00		
7	0.00	2.67	40.33	12.48	80.29	22.51	215.95	169.75	4.17	1.97	0.43	0.00		
8	0.00	2.67	32.31	21.47	67.30	20.43	104.62	96.38	4.17	1.97	0.43	0.00		
9	0.00	2.67	27.88	34.57	49.85	18.38	67.30	59.71	3.79	1.63	0.43	0.00		
10	0.00	3.41	19.40	57.22	42.68	14.40	34.57	35.71	3.79	1.63	0.43	0.00		
11	0.00	4.57	17.37	38.01	92.31	11.54	31.19	27.88	3.79	1.31	0.43	0.00		
12	0.00	4.17	28.98	28.98	187.99	19.40	31.19	21.47	3.79	1.31	0.18	0.00		
13	0.00	4.17	38.01	22.51	283.65	138.67	28.98	20.43	3.79	1.31	0.00	0.00		
14	0.00	3.03	33.44	16.37	156.29	1262.91	26.79	16.37	3.79	1.31	0.00	0.00		
15	0.00	2.67	32.31	13.43	82.93	2373.94	26.79	12.48	3.79	1.00	0.00	0.00		
16	0.00	14.40	30.08	10.61	57.22	1896.25	24.64	11.54	3.79	1.00	0.00	0.00		
17	0.00	7.91	36.86	7.05	35.71	969.64	23.57	10.61	3.79	1.00	0.00	0.00		
18	0.00	6.20	47.44	7.05	27.88	382.71	23.57	7.91	3.79	1.00	0.00	0.00		
19	0.00	5.78	42.68	7.05	82.93	244.56	22.51	7.05	3.79	1.00	0.00	0.00		
20	0.00	45.05	49.85	6.62	85.59	225.42	21.47	7.05	3.41	1.00	0.00	0.00		
21	0.00	80.29	40.33	5.78	64.75	849.57	21.47	7.05	3.41	1.00	0.00	0.00		
22	1.00	72.45	28.98	4.57	52.29	1271.52	22.51	5.78	3.41	1.00	0.00	0.00		
23	10.61	80.29	21.47	4.57	38.01	842.16	25.71	5.78	3.41	1.00	0.00	0.00		
24	4.97	82.93	15.38	4.57	31.19	639.64	26.79	5.78	3.41	1.00	0.00	0.00		
25	3.41	45.05	10.61	3.79	27.88	318.66	25.71	4.97	3.03	1.00	0.00	0.00		
26	3.03	30.08	8.80	3.79	25.71	174.28	23.57	4.97	3.03	1.00	0.00	0.00		
27	4.17	22.51	9.69	3.79	25.71	134.32	30.08	4.17	2.67	1.00	0.00	0.00		
28	4.57	17.37	8.80	3.79	57.22	112.97	28.98	5.78	2.31	1.00	0.00	0.00		
29	5.37	16.37	7.91	3.79	80.29	130.00	26.79	5.37	2.31	1.00		0.00		
30	6.20	18.38	8.80	4.17	47.44	211.24	23.57	4.57	1.63	1.00		0.00		
31		16.37		10.61	33.44		24.64		1.63	1.00		0.00		
Total	43.33	612.81	885.91	533.96	2223.01	12469.31	1878.19	1901.31	111.11	39.22	6.56	0.00	20704.72	Tonday
Mean	1.44	19.77	29.53	17.22	71.71	415.64	60.59	63.38	3.58	1.27	0.23	0.00		Ton/day
Max	10.61	82.93	82.93	59.71	283.65	2373.94	308.59	303.57	4.57	1.97	1.00	0.00	2373.94	Ton/day
Min	0.00	2.67	7.91	3.79	8.80	11.54	21.47	4.17	1.63	1.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

MUN RIVER BASIN

Lam Dom Yai at Ban Kut Chiang Mun, Ubon Ratchathani (M.153)

Lat 14 - 26 - 41 N Long 105 - 07 - 30 E

Location : on right bank at the bridge on road.

Ban Kut Chiang Mun **Amphoe** Nam Yuen **Changwat** Ubon Ratchathani

Drainge Area	373 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	2008
Number of observation	52
R-Square	0.8621
Remarks	Continued Sediment Station

$$QS = 1.2928\ QW^{1.19330}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.05	0.32	5.37	3.67	23.71	21.14	56.21	38.00	4.23	0.15	0.05	0.03		
2	0.05	0.15	5.57	3.67	22.24	15.81	33.25	46.69	3.67	0.15	0.05	0.03		
3	0.04	1.02	4.42	6.16	52.26	15.81	304.00	61.36	3.49	0.15	0.05	0.03		
4	0.04	1.20	4.04	7.78	45.04	16.15	125.46	80.24	3.49	0.15	0.05	0.03		
5	0.03	1.77	3.13	6.76	102.99	14.31	84.47	55.64	3.31	0.15	0.05	0.03		
6	0.04	0.43	1.77	7.57	291.72	19.34	66.59	56.21	2.44	0.15	0.05	0.03		
7	0.03	1.02	0.84	8.40	94.89	20.78	52.26	39.07	2.44	0.11	0.05	0.03		
8	0.03	0.51	1.11	7.57	64.26	31.69	46.69	70.70	2.10	0.08	0.05	0.03		
9	0.03	0.18	2.27	31.69	62.52	64.26	41.23	42.85	2.10	0.08	0.05	0.03		
10	0.03	0.93	2.78	20.78	42.85	66.01	61.94	30.14	1.77	0.07	0.04	0.02		
11	0.03	6.36	2.27	15.00	82.65	131.15	38.54	24.09	1.20	0.07	0.04	0.02		
12	0.03	14.09	3.13	12.29	183.14	86.30	28.99	20.78	1.02	0.06	0.04	0.02		
13	0.04	60.79	4.99	10.75	236.95	112.46	26.33	17.91	0.93	0.06	0.04	0.02		
14	0.04	27.09	8.61	9.46	93.04	94.27	23.71	15.46	0.76	0.06	0.04	0.02		
15	0.03	16.50	21.14	8.40	61.94	100.49	21.51	14.77	0.59	0.06	0.04	0.02		
16	0.03	28.61	12.07	9.25	48.35	94.89	20.06	13.63	0.59	0.06	0.04	0.02		
17	0.03	14.31	8.61	14.54	40.15	358.16	16.50	12.73	0.59	0.06	0.04	0.02		
18	0.03	12.96	20.78	29.38	40.69	219.83	33.25	11.85	0.43	0.05	0.04	0.02		
19	0.03	11.85	20.42	37.47	58.49	325.42	28.99	11.19	0.39	0.05	0.04	0.00		
20	0.03	20.06	13.63	24.83	38.00	142.64	32.73	10.10	0.36	0.05	0.03	0.02		
21	0.03	12.96	10.75	18.26	31.17	155.95	24.46	9.03	0.36	0.05	0.03	0.02		
22	0.03	26.33	9.03	14.77	24.46	161.84	18.98	8.40	0.32	0.05	0.03	0.03		
23	0.03	21.51	8.82	12.29	31.17	97.99	18.26	7.99	0.32	0.05	0.03	0.07		
24	0.03	13.18	7.57	13.86	24.09	72.47	19.34	7.17	0.28	0.05	0.03	0.05		
25	0.03	10.97	6.36	12.96	19.70	57.92	18.26	6.56	0.25	0.05	0.03	0.25		
26	0.03	7.78	5.57	11.19	22.97	46.14	14.54	6.16	0.21	0.05	0.03	14.09		
27	0.03	5.76	3.86	10.32	22.97	48.35	13.86	5.96	0.21	0.05	0.03	2.10		
28	0.03	3.86	5.57	12.96	42.85	41.77	13.18	5.37	0.21	0.05	0.03	0.39		
29	0.04	5.96	5.37	32.21	27.85	44.49	14.31	4.80	0.18	0.05		0.18		
30	0.05	6.76	5.37	18.62	22.24	38.00	26.33	4.23	0.18	0.05		0.07		
31		5.96		39.61	21.14		18.62		0.15	0.05		0.06		
Total	1.02	341.18	215.22	472.47	1976.49	2715.83	1342.85	739.08	38.57	2.37	1.12	17.78	7863.98	Tonday
Mean	0.03	11.01	7.17	15.24	63.76	90.53	43.32	24.64	1.24	0.08	0.04	0.57		Ton/day
Max	0.05	60.79	21.14	39.61	291.72	358.16	304.00	80.24	4.23	0.15	0.05	14.09	358.16	Ton/day
Min	0.03	0.15	0.84	3.67	19.70	14.31	13.18	4.23	0.15	0.05	0.03	0.00	0.00	Ton/day

WATER YEAR : 2008

MUN RIVER BASIN

Huai Luang at Ban Na Chaluai, Ubon Ratchathani (M.154)

Lat 14 - 27 - 06 N Long 105 - 11 - 34 E

Location : on left bank at the bridge on road.

Ban Na Chaluai **Amphoe** Na Chaluai **Changwat** Ubon Ratchathani

Drainge Area	210 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	2008
Number of observation	44
R-Square	0.9371
Remarks	Continued Sediment Station

$$QS = 2.1160\ QW^{1.15400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.35	3.12	4.71	2.36	20.32	51.59	31.21	6.52	1.15	0.26	0.13		
2	0.10	1.64	2.66	4.71	2.66	14.69	43.05	36.02	5.67	1.08	0.26	0.13		
3	0.10	2.21	2.74	4.17	2.44	13.15	115.26	27.06	4.98	1.02	0.26	0.13		
4	0.10	1.15	3.22	4.17	2.66	28.71	109.62	31.49	4.30	0.95	0.26	0.13		
5	0.10	0.74	3.85	3.74	2.44	25.69	101.59	28.99	3.85	0.91	0.26	0.13		
6	0.10	0.86	3.12	3.64	21.64	22.71	83.21	28.43	3.53	0.86	0.26	0.13		
7	0.10	0.27	4.84	3.85	13.81	18.48	71.25	27.88	3.22	0.82	0.26	0.13		
8	0.10	0.53	5.95	4.84	12.50	45.87	53.24	26.78	2.89	0.78	0.24	0.13		
9	0.10	0.47	4.98	4.44	12.93	73.13	49.95	24.87	2.66	0.74	0.24	0.13		
10	0.10	0.47	4.06	4.17	12.50	56.97	39.75	22.98	2.44	0.69	0.24	0.13		
11	0.10	0.69	3.12	4.17	53.24	72.66	35.16	20.58	2.29	0.65	0.24	0.13		
12	0.10	4.17	2.74	3.85	85.80	67.98	25.69	16.92	2.14	0.61	0.22	0.13		
13	0.10	21.64	2.36	3.22	95.76	74.54	24.87	14.91	2.07	0.57	0.22	0.11		
14	0.10	7.29	3.74	2.97	82.69	69.85	24.33	13.59	1.99	0.53	0.22	0.11		
15	0.10	4.84	5.12	2.59	39.17	58.64	24.06	12.28	1.92	0.47	0.22	0.11		
16	0.10	9.10	4.17	2.51	31.77	67.09	23.79	10.36	1.85	0.45	0.22	0.11		
17	0.10	14.91	3.85	2.36	26.78	127.84	23.25	9.10	1.85	0.43	0.22	0.11		
18	0.10	11.42	13.15	2.59	41.78	119.01	23.25	8.33	1.78	0.41	0.20	0.13		
19	0.10	10.78	10.57	2.97	80.22	115.26	22.71	7.98	1.71	0.37	0.18	0.13		
20	0.10	9.31	9.52	2.74	62.43	121.53	22.98	10.57	1.64	0.35	0.18	0.13		
21	0.10	8.33	8.69	2.51	47.90	108.00	22.45	10.36	1.57	0.33	0.17	0.13		
22	0.10	15.90	8.51	2.36	36.87	95.23	21.91	10.15	1.49	0.33	0.17	0.13		
23	0.10	16.67	7.29	2.36	30.65	63.27	23.79	9.94	1.43	0.33	0.17	0.13		
24	0.08	19.53	6.80	2.51	24.60	41.20	23.25	9.10	1.43	0.33	0.17	0.13		
25	0.08	21.64	6.23	2.51	22.45	45.07	21.38	8.51	1.36	0.29	0.15	5.95		
26	0.08	12.28	5.81	2.74	22.98	36.30	20.32	7.98	1.29	0.29	0.15	2.14		
27	0.10	7.81	5.39	2.97	27.06	34.88	16.67	7.63	1.29	0.29	0.13	0.78		
28	0.10	4.84	4.98	2.97	29.82	33.18	15.90	7.29	1.22	0.27	0.13	0.47		
29	0.10	6.37	4.71	2.74	24.06	29.54	17.18	6.94	1.22	0.27		0.37		
30	0.10	3.96	4.71	2.59	22.71	28.16	25.14	6.94	1.15	0.27		0.33		
31		3.85		2.44	19.53		22.98		1.15	0.27		0.24		
Total	2.94	224.02	160.00	101.11	994.21	1728.95	1199.57	495.17	73.90	17.11	5.90	13.30	5016.18	Tonday
Mean	0.10	7.23	5.33	3.26	32.07	57.63	38.70	16.51	2.38	0.55	0.21	0.43		Ton/day
Max	0.10	21.64	13.15	4.84	95.76	127.84	115.26	36.02	6.52	1.15	0.26	5.95	127.84	Ton/day
Min	0.08	0.27	2.36	2.36	2.36	13.15	15.90	6.94	1.15	0.27	0.13	0.11	0.08	Ton/day

WATER YEAR : 2008

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

Drainge Area	4,806 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	2008
Number of observation	28
R-Square	0.8321
Remarks	Continued Sediment Station

$$QS = 7.2812\ QW^{0.82470}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	5.17	115.68	70.54	71.65	273.26	1287.83	539.44	368.38	0.00	0.00	0.00		
2	0.00	5.17	136.32	68.31	91.07	230.70	1217.06	574.07	343.43	0.00	0.00	0.00		
3	0.00	5.30	149.72	66.07	110.66	227.67	1139.04	598.88	329.47	0.00	0.00	0.00		
4	0.00	5.43	159.60	80.41	113.68	222.61	1080.66	634.43	318.21	0.00	0.00	0.00		
5	0.00	5.55	161.77	86.84	116.68	219.55	1054.46	672.91	298.31	0.00	0.00	0.00		
6	0.00	5.68	159.60	94.22	112.67	216.49	1016.36	735.45	287.77	0.00	0.00	0.00		
7	0.00	5.68	155.22	101.48	108.63	212.40	972.43	788.63	279.08	0.00	0.00	0.00		
8	0.00	5.81	138.25	106.60	103.53	207.25	909.19	839.75	270.34	0.00	0.00	0.00		
9	0.00	5.93	126.58	109.64	99.42	195.84	862.44	874.61	264.47	0.00	0.00	0.00		
10	0.00	5.93	112.67	114.68	104.56	160.69	839.75	895.61	260.55	0.00	0.00	0.00		
11	0.00	5.93	106.60	121.65	109.64	149.72	771.51	953.30	255.63	0.00	0.00	0.00		
12	0.00	5.93	110.66	131.47	115.68	186.40	705.24	985.15	233.72	0.00	0.00	0.00		
13	0.00	6.43	110.66	142.10	120.66	198.97	672.91	1000.36	216.49	0.00	0.00	0.00		
14	0.00	7.04	109.64	151.92	130.50	208.28	615.50	1013.41	203.12	0.00	0.00	0.00		
15	0.00	12.36	109.64	153.03	141.14	245.72	596.52	977.52	191.65	0.00	0.00	0.00		
16	0.00	24.25	110.66	144.17	159.60	325.73	583.55	921.23	171.50	0.00	0.00	0.00		
17	0.00	38.78	109.64	138.25	184.28	529.80	562.18	887.83	155.22	0.00	0.00	0.00		
18	0.00	49.83	110.66	133.42	203.12	748.03	533.42	818.02	142.10	0.00	0.00	0.00		
19	0.00	64.94	109.64	129.52	218.53	830.98	504.32	733.87	130.50	0.00	0.00	0.00		
20	0.00	81.49	108.63	124.62	225.65	931.94	482.26	659.90	121.65	0.00	0.00	0.00		
21	0.00	90.02	108.63	120.66	234.73	1025.18	469.91	596.52	88.96	0.00	0.00	0.00		
22	0.00	99.42	107.62	115.68	339.72	1109.21	459.99	566.94	82.56	0.00	0.00	0.00		
23	0.00	113.68	106.60	112.67	344.35	1193.34	458.74	524.97	78.24	0.00	0.00	0.00		
24	0.00	128.54	106.60	110.66	347.13	1409.75	452.51	496.99	74.96	0.00	0.00	0.00		
25	0.00	133.42	104.56	101.48	379.82	1657.45	441.25	472.39	71.65	0.00	0.00	0.00		
26	0.00	138.25	101.48	93.17	396.33	1728.73	433.08	452.51	67.19	0.00	0.00	0.00		
27	0.00	158.50	97.35	71.65	398.38	1697.13	429.67	434.21	42.53	0.00	0.00	0.00		
28	0.00	178.98	92.13	49.83	399.41	1571.73	437.61	417.14	19.98	0.00	0.00	0.00		
29	0.00	172.57	74.96	60.38	394.27	1479.96	451.26	393.24	0.00	0.00		0.00		
30	0.00	143.05	70.54	67.19	363.16	1393.26	471.15	383.96	0.00	0.00		0.00		
31		104.56		70.54	326.66		503.10		0.00	0.00		0.00		
Total	0.00	1813.62	3482.31	3242.85	6565.31	20787.77	21414.90	20843.24	5367.66	0.00	0.00	0.00	83517.66	Tonday
Mean	0.00	58.50	116.08	104.61	211.78	692.93	690.80	694.77	173.15	0.00	0.00	0.00		Ton/day
Max	0.00	178.98	161.77	153.03	399.41	1728.73	1287.83	1013.41	368.38	0.00	0.00	0.00	1728.73	Ton/day
Min	0.00	5.17	70.54	49.83	71.65	149.72	429.67	383.96	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	22
R-Square	0.8747
Remarks	Continued Sediment Station

$$QS = 3.2952\ QW^{1.29280}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.77	82.74	0.00	21.72	8.07	29.86	95.32	182.38	0.00	9.40	40.78	62.17		
2	8.07	95.32	0.00	23.70	34.13	31.98	92.14	195.16	0.00	10.77	34.13	59.70		
3	12.19	110.17	18.20	52.41	23.70	47.68	70.58	186.62	0.28	13.64	31.98	52.41		
4	31.98	178.16	18.20	47.68	25.71	110.17	73.58	133.32	38.53	21.72	34.13	29.86		
5	19.78	173.96	21.72	36.32	25.71	76.60	79.66	98.99	38.53	40.78	27.77	18.20		
6	43.05	92.14	27.77	4.17	19.78	73.58	82.74	173.96	36.32	43.05	23.70	21.72		
7	34.13	62.17	40.78	34.13	18.20	95.32	76.60	308.65	34.13	38.53	3.51	13.64		
8	70.58	57.24	38.53	23.70	21.72	64.67	79.66	344.84	29.86	36.32	9.40	8.07		
9	25.71	15.12	54.82	25.71	19.78	50.03	54.82	285.03	27.77	34.13	36.32	8.07		
10	27.77	4.17	59.70	15.12	15.12	62.17	45.35	190.88	31.98	27.77	45.35	4.86		
11	10.77	36.32	23.70	70.58	10.77	88.98	47.68	149.28	36.32	25.71	47.68	0.00		
12	21.72	59.70	45.35	57.24	13.64	62.17	45.35	157.41	29.86	25.71	0.69	1.70		
13	21.72	110.17	43.05	29.86	12.19	36.32	45.35	157.41	19.78	25.71	2.88	1.17		
14	19.78	208.14	29.86	59.70	15.12	34.13	47.68	106.41	18.20	12.19	12.19	0.00		
15	2.88	252.72	31.98	25.71	9.40	43.05	52.41	95.32	21.72	0.00	13.64	0.00		
16	12.19	261.86	16.64	52.41	38.53	161.51	47.68	62.17	19.78	47.68	21.72	3.51		
17	36.32	285.03	2.27	19.78	40.78	137.27	29.86	50.03	21.72	43.05	36.32	0.00		
18	16.64	400.76	1.17	23.70	47.68	308.65	36.32	27.77	23.70	40.78	18.20	38.53		
19	13.64	314.61	0.00	40.78	57.24	314.61	54.82	13.64	21.72	40.78	10.77	38.53		
20	10.77	186.62	0.00	62.17	43.05	484.74	21.72	9.40	21.72	38.53	12.19	45.35		
21	4.86	98.99	0.69	67.61	73.58	572.16	36.32	29.86	21.72	27.77	15.12	70.58		
22	0.00	57.24	0.00	59.70	92.14	445.53	36.32	21.72	19.78	15.12	21.72	88.98		
23	0.00	54.82	2.27	57.24	59.70	257.28	13.64	0.00	19.78	12.19	50.03	82.74		
24	34.13	10.77	8.07	62.17	21.72	110.17	0.00	0.69	18.20	0.00	45.35	79.66		
25	52.41	4.86	13.64	54.82	23.70	67.61	0.00	3.51	21.72	0.00	25.71	36.32		
26	38.53	8.07	13.64	54.82	34.13	19.78	85.85	2.88	21.72	23.70	1.70	29.86		
27	0.00	8.07	15.12	47.68	23.70	2.27	95.32	3.51	18.20	8.07	1.70	43.05		
28	64.67	36.32	13.64	13.64	23.70	3.51	102.68	0.69	16.64	1.70	34.13	38.53		
29	64.67	2.27	10.77	21.72	29.86	0.00	129.39	0.00	15.12	2.88		45.35		
30	106.41	0.00	5.57	36.32	50.03	59.70	125.49	0.00	16.64	10.77		59.70		
31		0.00		25.71	45.35		129.39		15.12	25.71		43.05		
Total	816.14	3268.53	557.15	1228.02	977.93	3851.50	1933.72	2991.53	676.56	704.16	658.81	1025.31	18689.36	Tonday
Mean	27.20	105.44	18.57	39.61	31.55	128.38	62.38	99.72	21.82	22.71	23.53	33.07		Ton/day
Max	106.41	400.76	59.70	70.58	92.14	572.16	129.39	344.84	38.53	47.68	50.03	88.98	572.16	Ton/day
Min	0.00	0.00	0.00	4.17	8.07	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	44
R-Square	0.9689
Remarks	Continued Sediment Station

$$QS = 2.2794\ QW^{1.20350}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.47	0.41	68.48	31.78	63.63	226.74	666.37	387.98	51.33	15.24	2.61	1.33		
2	0.47	0.47	66.54	25.35	88.43	203.66	751.44	452.59	50.40	14.60	2.61	1.33		
3	0.47	0.47	76.36	21.20	114.21	186.20	683.25	518.80	48.56	13.97	2.61	1.33		
4	0.41	4.07	83.36	21.20	148.21	181.01	803.28	616.19	43.99	13.34	2.61	1.23		
5	0.41	21.20	73.39	21.20	155.19	194.89	951.12	848.68	38.62	12.71	2.47	1.23		
6	0.41	13.34	68.48	21.20	290.82	194.89	1016.55	855.70	37.74	12.09	2.47	1.23		
7	0.41	11.47	70.44	21.20	564.67	350.06	908.67	717.21	35.98	11.47	2.47	1.23		
8	0.41	11.47	63.63	31.78	600.18	303.94	673.12	532.22	34.24	10.86	2.47	1.23		
9	0.35	26.76	65.57	48.56	418.78	266.70	497.45	439.53	32.51	10.26	2.36	1.23		
10	0.35	45.81	63.63	63.63	303.94	342.55	413.62	400.77	31.78	9.66	2.36	1.23		
11	0.35	42.19	56.01	76.36	325.15	444.75	380.34	350.06	29.61	9.07	2.36	1.13		
12	0.35	61.71	49.48	58.85	626.17	639.53	362.62	266.70	28.89	8.48	2.36	1.13		
13	0.35	181.01	56.01	45.81	1060.57	683.25	307.71	221.37	27.46	7.90	2.25	1.13		
14	0.35	367.67	76.36	37.74	1285.19	710.39	257.52	186.20	26.76	7.33	2.25	1.13		
15	0.35	375.27	86.40	28.18	1280.63	785.94	242.95	156.59	26.05	6.77	2.25	1.13		
16	0.35	257.52	94.58	22.57	1185.46	873.30	294.56	137.17	25.35	6.21	2.14	1.04		
17	0.29	248.40	88.43	21.20	751.44	1047.33	294.56	124.93	23.95	5.86	2.14	1.04		
18	0.29	270.39	107.60	35.98	478.89	1473.31	248.40	115.54	22.57	5.47	2.14	1.04		
19	0.29	248.40	200.14	73.39	559.24	1600.80	266.70	104.97	21.20	5.12	2.01	1.04		
20	0.29	198.39	200.14	120.89	803.28	1693.06	313.38	94.58	21.20	5.12	2.01	0.92		
21	0.29	194.89	162.21	120.89	761.76	1891.24	367.67	85.39	20.53	5.12	1.90	0.92		
22	0.29	266.70	124.93	104.97	581.01	2177.61	320.20	83.36	19.85	4.75	1.80	0.92		
23	0.29	452.59	94.58	75.37	413.62	2251.35	275.94	82.36	19.85	4.75	1.66	0.92		
24	0.29	559.24	70.44	60.76	365.15	2245.19	375.27	77.35	19.18	4.41	1.56	0.92		
25	0.29	478.89	60.76	46.72	294.56	2128.69	460.45	72.40	18.51	4.07	1.46	0.92		
26	0.29	272.24	51.33	44.90	257.52	1969.28	350.06	66.54	17.85	3.71	1.46	2.01		
27	0.29	177.57	42.19	44.90	221.37	1557.69	266.70	60.76	17.19	3.39	1.33	5.86		
28	0.29	98.45	35.98	42.19	212.48	990.29	207.18	57.90	17.19	3.04	1.33	12.09		
29	0.35	63.63	35.98	44.90	272.24	659.65	248.40	54.13	16.54	2.73		18.51		
30	0.29	68.48	35.11	69.46	239.33	626.17	294.56	51.33	16.54	2.73		9.07		
31		74.38		73.39	216.03		313.38		15.89	2.61		6.21		
Total	10.38	5093.48	2428.54	1556.52	14939.15	28899.46	13813.42	8219.30	857.31	232.84	59.45	81.68	76191.53	Tonday
Mean	0.35	164.31	80.95	50.21	481.91	963.32	445.59	273.98	27.66	7.51	2.12	2.63		Ton/day
Max	0.47	559.24	200.14	120.89	1285.19	2251.35	1016.55	855.70	51.33	15.24	2.61	18.51	2251.35	Ton/day
Min	0.29	0.41	35.11	21.20	63.63	181.01	207.18	51.33	15.89	2.61	1.33	0.92	0.29	Ton/day

WATER YEAR : 2008

MUN RIVER BASIN

Lam Ta Khong at Ban Non Sawang, Nakhon Ratchasima (M.177)

Lat 14 - 50 - 57 N Long 101 - 37 - 12 E

Location : on right bank at the bridge.

Ban Non Sawang **Amphoe** Si Khiu **Changwat** Nakhon Ratchasima

Drainge Area	1,519 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	2008
Number of observation	21
R-Square	0.7472
Remarks	Continued Sediment Station

$$QS = 3.3340\ QW^{1.41410}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	59.78	5.37	5.92	113.54	118.61	74.53	64.22	48.07	106.45	197.07	184.73	190.87		
2	63.10	3.05	12.88	113.54	99.50	108.80	85.29	56.62	91.44	197.07	184.73	178.65		
3	46.02	2.52	43.50	113.54	97.21	111.16	106.45	38.10	72.20	197.07	184.73	137.82		
4	54.69	33.11	30.91	115.93	132.24	104.12	53.73	74.53	72.20	197.07	181.69	137.82		
5	69.89	9.14	31.46	115.93	129.48	63.10	28.23	45.01	72.20	197.07	181.69	137.82		
6	59.78	8.88	32.83	118.61	115.93	75.71	31.73	39.56	72.20	197.07	181.69	135.02		
7	12.88	8.63	32.55	118.61	99.50	160.77	111.16	32.83	72.20	197.07	184.73	135.02		
8	66.47	8.51	22.60	124.01	99.50	108.80	91.44	30.91	72.20	197.07	181.69	140.63		
9	13.87	8.51	2.96	129.48	99.50	18.27	38.59	27.71	72.20	197.07	181.69	154.94		
10	34.31	11.09	2.01	135.02	99.50	13.30	40.04	26.40	72.20	197.07	181.69	157.85		
11	33.85	90.20	1.54	135.02	99.50	218.57	54.69	45.52	72.20	197.07	184.73	193.97		
12	33.38	88.97	5.47	135.02	99.50	152.04	97.21	59.78	72.20	197.07	190.87	187.80		
13	32.55	90.20	2.35	132.24	99.50	51.82	97.21	55.65	72.20	197.07	190.87	184.73		
14	32.00	175.63	1.39	126.74	99.50	36.67	84.07	52.77	72.20	197.07	190.87	184.73		
15	32.00	52.77	6.94	126.74	99.50	30.64	84.07	45.01	72.20	193.97	190.87	146.30		
16	27.18	40.04	7.30	126.74	99.50	190.87	78.07	38.59	72.20	187.80	190.87	143.46		
17	6.60	20.64	7.18	126.74	99.50	101.80	71.05	40.04	72.20	126.74	190.87	140.63		
18	34.78	8.14	43.00	126.74	99.50	58.68	64.22	40.53	72.20	113.54	193.97	160.77		
19	55.65	7.18	44.51	126.74	101.80	42.51	49.94	40.04	72.20	97.21	190.87	160.77		
20	52.77	6.48	44.51	126.74	76.89	34.78	48.07	38.10	72.20	87.74	190.87	157.85		
21	52.77	5.37	45.01	126.74	68.75	31.73	49.00	36.19	72.20	87.74	193.97	99.50		
22	56.62	4.62	45.52	126.74	43.00	29.56	76.89	35.72	72.20	87.74	193.97	94.94		
23	108.80	4.21	45.52	126.74	44.51	26.66	87.74	34.78	73.37	87.74	197.07	92.69		
24	21.61	3.91	45.52	126.74	63.10	24.35	104.12	33.38	73.37	87.74	193.97	99.50		
25	13.72	3.33	46.02	126.74	61.99	22.60	106.45	33.11	73.37	88.97	193.97	132.24		
26	3.52	3.15	47.04	126.74	63.10	20.88	223.73	36.19	73.37	92.69	190.87	135.02		
27	42.51	3.24	48.07	126.74	64.22	25.63	51.82	34.78	73.37	126.74	190.87	143.46		
28	25.63	2.96	69.89	126.74	12.74	41.52	37.62	33.38	73.37	149.17	190.87	113.54		
29	38.59	2.87	91.44	126.74	41.02	71.05	40.53	52.77	80.46	160.77		106.45		
30	8.63	3.62	108.80	143.46	78.07	59.78	53.73	53.73	126.74	172.63		111.16		
31		6.14		163.71	69.89		115.93		197.07	184.73		118.61		
Total	1193.95	722.48	974.64	3935.50	2676.05	2110.70	2327.04	1259.80	2486.38	4892.64	5280.28	4414.56	32274.02	Tonday
Mean	39.80	23.31	32.49	126.95	86.32	70.36	75.07	41.99	80.21	157.83	188.58	142.41		Ton/day
Max	108.80	175.63	108.80	163.71	132.24	218.57	223.73	74.53	197.07	197.07	197.07	193.97	223.73	Ton/day
Min	3.52	2.52	1.39	113.54	12.74	13.30	28.23	26.40	72.20	87.74	181.69	92.69	1.39	Ton/day

WATER YEAR : 2008

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

Drainge Area	250 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	2008
Number of observation	21
R-Square	0.9288
Remarks	Continued Sediment Station

$$QS = 7.7416\ QW^{1.53150}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.30	8.96	0.61	0.30	0.30	0.71	348.01	79.61	0.51	0.34	0.26	0.19		
2	0.30	0.71	0.61	0.56	0.30	14.70	59.33	51.81	0.51	0.34	0.26	0.19		
3	0.30	0.71	0.61	2.52	0.30	2.52	136.08	37.88	0.51	0.34	0.26	0.19		
4	0.30	0.71	0.61	0.71	0.30	0.71	178.15	12.68	0.51	0.34	0.26	0.19		
5	0.51	0.71	0.61	0.71	0.30	0.71	41.22	73.31	0.51	0.30	0.26	0.19		
6	0.51	0.71	0.61	0.30	0.30	8.96	308.85	79.61	0.51	0.30	0.26	0.19		
7	0.51	0.71	0.61	0.30	0.30	136.08	365.94	19.04	0.47	0.30	0.26	0.19		
8	0.51	0.71	0.61	0.30	0.30	160.86	2495.20	8.96	0.47	0.30	0.26	0.19		
9	0.51	0.51	31.50	0.30	0.30	16.82	283.65	14.70	0.47	0.30	0.26	0.19		
10	0.51	0.51	0.71	0.30	0.30	41.22	41.22	12.68	0.47	0.30	0.26	0.19		
11	0.51	0.71	37.88	0.30	0.30	1170.93	12.68	7.86	0.42	0.30	0.26	0.19		
12	0.51	48.19	121.00	0.30	0.30	3941.71	8.96	6.81	0.42	0.30	0.26	0.19		
13	0.51	48.19	41.22	0.30	0.30	23.77	7.86	2.52	0.38	0.30	0.26	0.19		
14	0.51	48.19	8.96	0.30	0.30	0.71	5.82	0.71	0.38	0.30	0.26	0.19		
15	0.51	48.19	7.86	0.30	0.30	0.71	4.10	0.71	0.34	0.26	0.26	0.19		
16	0.51	8.96	4.88	0.30	0.30	3028.94	4.10	0.61	0.34	0.26	0.26	0.19		
17	0.51	0.71	1.83	0.30	0.30	3709.04	4.10	0.51	0.34	0.26	0.23	0.19		
18	0.51	0.71	0.71	0.30	0.30	160.86	4.10	0.51	0.34	0.26	0.23	0.19		
19	0.51	0.71	0.66	0.30	0.30	23.77	4.10	0.51	0.34	0.26	0.23	23.77		
20	0.51	0.71	0.51	0.30	0.30	99.55	8.96	0.51	0.34	0.26	0.23	12.68		
21	0.71	0.71	0.30	0.30	14.70	86.08	8.96	0.51	0.34	0.26	0.19	48.19		
22	0.71	0.51	0.30	0.30	8.96	12.68	14.70	0.51	0.34	0.26	0.19	23.77		
23	0.71	0.38	0.30	0.30	0.71	26.26	8.96	0.51	0.34	0.26	0.19	1.83		
24	0.71	0.30	0.30	0.30	0.30	1.83	6.81	0.51	0.34	0.26	0.19	2.52		
25	564.14	0.30	0.30	0.30	0.30	0.71	6.81	0.51	0.34	0.26	0.19	1.22		
26	23.77	0.30	0.26	0.30	0.30	5.82	79.61	0.51	0.34	0.26	0.19	0.51		
27	0.71	0.30	0.26	0.30	0.71	5.82	37.88	0.51	0.34	0.26	0.19	0.30		
28	0.71	0.30	0.26	0.30	67.19	4.10	12.68	0.51	0.34	0.26	0.19	0.30		
29	0.71	0.71	0.26	0.30	178.15	37.88	8.96	0.51	0.34	0.26		2.52		
30	0.71	0.71	0.30	0.30	2.52	8.96	8.96	0.51	0.30	0.26		0.51		
31		0.71		0.30	0.71		41.22		0.30	0.26		0.51		
Total	602.95	225.45	265.44	12.60	280.55	12733.42	4557.98	416.64	12.24	8.78	6.60	122.05	19244.70	Tonday
Mean	20.10	7.27	8.85	0.41	9.05	424.45	147.03	13.89	0.39	0.28	0.24	3.94		Ton/day
Max	564.14	48.19	121.00	2.52	178.15	3941.71	2495.20	79.61	0.51	0.34	0.26	48.19	3941.71	Ton/day
Min	0.30	0.30	0.26	0.30	0.30	0.71	4.10	0.51	0.30	0.26	0.19	0.19	0.19	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	31
R-Square	1.3382
Remarks	Continued Sediment Station

$$QS = 2.5185\ QW^{1.33820}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	169.21	465.25	350.77	153.78	322.89	1875.38	598.10	804.79	238.69	109.86	27.70	37.34		
2	169.21	350.77	309.18	217.64	465.25	2049.44	860.26	1811.13	228.10	102.92	27.70	37.34		
3	161.45	282.21	260.22	187.01	1747.45	1189.08	1016.71	2049.44	217.64	102.92	30.83	34.04		
4	161.45	379.21	228.10	207.30	1437.99	860.26	696.72	1189.08	197.09	76.35	46.24	37.34		
5	197.09	777.40	336.76	282.21	804.79	575.38	670.33	860.26	187.01	76.35	63.86	40.71		
6	197.09	486.80	598.10	282.21	486.80	916.66	916.66	832.41	187.01	57.83	57.83	40.71		
7	177.07	249.39	723.36	249.39	336.76	2909.88	860.26	750.26	187.01	57.83	46.24	63.86		
8	187.01	197.09	696.72	228.10	309.18	3377.50	949.72	670.33	187.01	57.83	46.24	116.92		
9	187.01	249.39	575.38	217.64	860.26	2687.75	804.79	530.62	187.01	57.83	46.24	177.07		
10	187.01	238.69	393.64	260.22	949.72	2347.95	860.26	443.95	187.01	57.83	46.24	187.01		
11	177.07	271.15	295.61	309.18	696.72	2197.41	983.07	408.21	177.07	57.83	30.83	177.07		
12	169.21	443.95	282.21	282.21	723.36	2167.61	777.40	379.21	177.07	51.95	30.83	187.01		
13	161.45	379.21	228.10	217.64	1154.07	1990.99	670.33	443.95	169.21	57.83	30.83	197.09		
14	153.78	271.15	169.21	153.78	1437.99	2470.17	575.38	465.25	169.21	76.35	34.04	169.21		
15	146.21	260.22	138.73	153.78	2108.32	3103.77	364.92	350.77	161.45	70.03	34.04	138.73		
16	138.73	364.92	177.07	146.21	1684.35	2782.40	336.76	364.92	161.45	76.35	30.83	102.92		
17	124.09	598.10	161.45	138.73	983.07	2347.95	295.61	379.21	131.36	76.35	30.83	102.92		
18	89.38	443.95	153.78	146.21	888.35	1875.38	282.21	379.21	116.92	89.38	57.83	89.38		
19	76.35	322.89	146.21	177.07	949.72	1437.99	260.22	364.92	82.80	82.80	57.83	89.38		
20	70.03	271.15	177.07	207.30	888.35	1224.36	295.61	350.77	70.03	76.35	63.86	96.09		
21	70.03	322.89	228.10	364.92	832.41	1189.08	465.25	336.76	63.86	70.03	57.83	89.38		
22	51.95	228.10	169.21	465.25	1259.90	1318.60	465.25	350.77	82.80	63.86	57.83	138.73		
23	51.95	228.10	138.73	393.64	1318.60	1377.97	983.07	350.77	102.92	70.03	37.34	187.01		
24	70.03	228.10	153.78	465.25	1154.07	1189.08	1189.08	322.89	102.92	63.86	34.04	177.07		
25	146.21	228.10	153.78	486.80	1119.32	916.66	1016.71	271.15	109.86	70.03	27.70	197.09		
26	260.22	271.15	138.73	465.25	1016.71	670.33	1154.07	260.22	96.09	57.83	37.34	207.30		
27	364.92	465.25	131.36	309.18	696.72	621.04	1498.65	249.39	89.38	46.24	89.38	238.69		
28	271.15	408.21	82.80	322.89	949.72	530.62	2167.61	249.39	89.38	40.71	46.24	238.69		
29	295.61	393.64	102.92	379.21	1189.08	508.59	2167.61	249.39	96.09	34.04		207.30		
30	379.21	443.95	96.09	364.92	1050.64	644.20	1224.36	249.39	102.92	34.04		153.78		
31		552.89		350.77	750.26		888.35		70.03	30.83		153.78		
Total	5061.18	11073.27	7797.17	8585.69	30572.82	49353.48	26295.33	16718.81	4426.40	2054.27	1228.57	4110.96	167277.95	Tonday
Mean	168.71	357.20	259.91	276.96	986.22	1645.12	848.24	557.29	142.79	66.27	43.88	132.61		Ton/day
Max	379.21	777.40	723.36	486.80	2108.32	3377.50	2167.61	2049.44	238.69	109.86	89.38	238.69	3377.50	Ton/day
Min	51.95	197.09	82.80	138.73	309.18	508.59	260.22	249.39	63.86	30.83	27.70	34.04	27.70	Ton/day

WATER YEAR : 2008

PING RIVER BASIN

Nam 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

Drainge Area	1,930 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.DH-59
Period of Available Records	1992 - Cont'd
Actual Measurement	1992 - Cont'd
Using Rating Curve Water Year	2008
Number of observation	24
R-Square	0.9571
Remarks	Continued Sediment Station

$$QS = 2.8073\ QW^{1.65280}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.75	204.72	142.23	9.57	13.62	303.37	285.88	977.23	161.30	1.94	2.81	0.89		
2	4.90	136.81	142.23	10.33	26.62	558.76	558.76	1745.20	115.95	1.94	2.81	0.89		
3	4.90	235.90	82.82	10.33	1516.07	499.98	767.14	1544.01	96.48	1.94	2.81	0.89		
4	4.90	908.01	142.23	11.12	818.86	161.30	390.32	1171.49	96.48	1.94	2.81	0.89		
5	4.06	1326.17	377.37	11.12	147.74	58.04	403.43	889.89	96.48	1.94	2.81	0.89		
6	4.90	364.60	416.72	10.33	31.88	352.00	573.86	818.86	96.48	1.94	2.81	0.89		
7	5.79	227.94	364.60	10.33	16.31	4988.02	1097.02	767.14	96.48	1.94	2.81	0.89		
8	6.75	197.20	364.60	10.33	24.95	2970.47	543.82	733.40	96.48	1.94	2.81	0.89		
9	5.79	175.32	252.14	10.33	1715.86	2449.12	443.81	635.82	96.48	1.94	2.81	0.89		
10	3.29	161.30	121.04	11.93	403.43	1247.88	390.32	430.18	96.48	1.94	2.81	0.89		
11	4.06	147.74	49.84	14.50	260.42	733.40	161.30	182.50	96.48	1.94	2.81	0.89		
12	4.90	121.04	33.72	15.39	499.98	651.70	161.30	147.74	96.48	1.94	2.81	0.89		
13	5.79	91.83	23.32	12.76	573.86	683.92	110.95	182.50	87.28	1.94	6.10	0.89		
14	4.06	82.82	37.52	11.93	1326.17	2231.04	91.83	189.80	87.28	1.94	7.76	0.89		
15	4.06	110.95	136.81	9.57	1572.15	3372.79	69.99	285.88	78.45	1.94	7.76	0.89		
16	4.06	543.82	82.82	9.57	529.05	4182.51	41.47	377.37	39.48	1.94	7.76	0.89		
17	4.90	767.14	52.03	10.33	197.20	1406.32	43.51	529.05	23.32	1.94	7.76	0.89		
18	5.79	589.11	54.25	11.12	168.25	1247.88	35.60	416.72	6.75	1.94	7.76	0.89		
19	4.90	303.37	41.47	11.12	175.32	977.23	33.72	416.72	3.79	1.94	7.76	0.89		
20	4.90	277.29	35.60	11.93	227.94	818.86	33.72	252.14	3.79	1.94	4.90	0.89		
21	2.58	260.42	28.33	11.12	620.09	908.01	74.17	529.05	4.33	1.94	0.89	0.89		
22	1.94	243.97	26.62	12.76	543.82	871.91	74.17	430.18	4.33	1.94	0.89	0.89		
23	4.06	235.90	12.76	13.62	443.81	767.14	589.11	457.60	3.79	2.81	0.89	0.89		
24	1.38	339.57	11.12	17.25	364.60	651.70	836.40	268.80	4.33	2.81	0.89	0.89		
25	6.75	154.46	11.12	30.09	252.14	430.18	871.91	197.20	2.81	2.81	0.89	0.89		
26	315.26	377.37	10.33	21.74	82.82	227.94	1171.49	189.80	2.81	2.81	0.89	0.89		
27	69.99	339.57	9.57	16.31	65.91	168.25	1544.01	168.25	2.81	2.81	0.89	0.89		
28	54.25	175.32	10.33	106.04	700.26	136.81	2636.93	182.50	2.81	2.81	0.89	0.89		
29	52.03	142.23	11.12	61.93	620.09	154.46	1686.73	197.20	2.81	2.81		0.89		
30	47.69	121.04	9.57	14.50	154.46	126.21	1352.68	189.80	2.81	2.81		0.89		
31		106.04		13.62	78.45		1273.77		2.81	2.81		0.89		
Total	655.38	9468.97	3094.23	542.92	14172.13	34337.20	18349.12	15504.02	1608.64	67.97	98.40	27.59	97926.57	Tonday
Mean	21.85	305.45	103.14	17.51	457.17	1144.57	591.91	516.80	51.89	2.19	3.51	0.89		Ton/day
Max	315.26	1326.17	416.72	106.04	1715.86	4988.02	2636.93	1745.20	161.30	2.81	7.76	0.89	4988.02	Ton/day
Min	1.38	82.82	9.57	9.57	13.62	58.04	33.72	147.74	2.81	1.94	0.89	0.89	0.89	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	25
R-Square	0.7738
Remarks	Continued Sediment Station

$$QS = 2.6327\ QW^{1.02430}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.12	7.28	8.39	7.28	16.22	29.84	26.42	103.40	8.94	0.25	15.37	10.33		
2	0.22	7.28	8.94	7.28	37.29	112.24	34.99	145.65	8.94	0.25	13.69	8.94		
3	3.99	8.94	11.17	7.28	55.76	141.80	44.19	199.79	9.50	0.22	12.01	10.33		
4	7.28	9.50	10.33	8.94	55.76	103.40	46.50	197.46	8.39	0.17	11.17	8.94		
5	7.28	12.85	14.53	8.94	58.08	71.90	46.50	160.80	8.94	0.20	14.53	8.39		
6	7.28	14.53	21.30	9.50	74.67	58.08	55.76	144.76	7.83	3.23	12.85	7.83		
7	6.18	14.53	23.00	8.94	63.60	51.13	127.00	156.34	8.39	7.28	14.53	8.39		
8	3.99	14.53	15.37	8.39	51.13	80.23	146.54	171.87	8.39	3.23	14.53	8.94		
9	6.18	13.69	12.85	8.39	48.81	85.79	127.00	159.01	8.94	3.23	14.53	7.83		
10	5.08	12.01	9.50	9.50	46.50	74.67	112.24	121.09	8.39	0.22	14.53	7.83		
11	5.08	8.94	8.94	14.53	53.44	85.79	91.65	80.23	8.94	0.25	14.53	2.09		
12	5.08	10.33	8.94	10.33	66.36	149.21	69.13	53.44	7.83	3.23	13.69	0.22		
13	5.08	12.01	8.94	9.50	63.60	166.06	53.44	44.19	7.83	0.12	12.85	0.12		
14	5.63	12.85	9.50	10.33	112.24	168.38	37.29	37.29	7.83	0.07	12.85	0.02		
15	5.63	12.01	12.85	12.01	88.72	166.06	34.99	28.13	7.83	0.05	9.50	0.02		
16	5.63	15.37	12.01	11.17	71.90	158.12	29.84	21.30	5.08	0.15	12.85	0.02		
17	5.08	17.06	12.01	11.17	55.76	132.91	24.71	19.60	7.28	0.10	14.53	0.02		
18	3.99	14.53	11.17	11.17	53.44	97.52	24.71	17.91	6.18	0.20	13.69	0.02		
19	5.63	23.00	12.85	11.17	48.81	63.60	21.30	15.37	3.23	0.61	13.69	0.02		
20	5.63	41.89	12.85	12.85	41.89	48.81	19.60	15.37	0.20	1.72	12.01	0.05		
21	6.73	24.71	12.85	21.30	37.29	53.44	88.72	15.37	7.83	0.98	12.85	5.08		
22	5.63	17.91	8.94	29.84	33.27	51.13	115.18	14.53	8.94	5.63	13.69	8.94		
23	6.18	14.53	7.83	26.42	34.99	46.50	261.31	13.69	8.39	8.94	13.69	9.50		
24	7.83	12.85	7.28	19.60	44.19	41.89	243.28	11.17	7.28	11.17	14.53	9.50		
25	7.83	10.33	7.28	24.71	71.90	33.27	189.31	12.85	0.98	12.85	12.85	6.73		
26	8.94	10.33	7.28	24.71	127.00	28.13	159.91	12.85	0.25	12.01	12.01	6.73		
27	8.39	8.94	7.28	23.00	109.29	21.30	155.45	12.85	1.72	13.69	11.17	0.22		
28	7.28	8.94	7.28	21.30	63.60	24.71	173.03	12.01	5.08	12.01	11.17	0.05		
29	9.50	9.50	6.73	19.60	46.50	19.60	170.70	9.50	8.94	12.85		0.02		
30	8.39	8.94	7.28	17.91	31.56	21.30	150.10	10.33	4.53	11.17		0.02		
31		8.39		16.22	24.71		124.04		3.61	14.53		0.02		
Total	176.76	418.50	325.47	443.28	1788.28	2386.81	3004.83	2018.15	206.43	140.61	369.89	137.16	11416.17	Tonday
Mean	5.89	13.50	10.85	14.30	57.69	79.56	96.93	67.27	6.66	4.54	13.21	4.42		Ton/day
Max	9.50	41.89	23.00	29.84	127.00	168.38	261.31	199.79	9.50	14.53	15.37	10.33	261.31	Ton/day
Min	0.12	7.28	6.73	7.28	16.22	19.60	19.60	9.50	0.20	0.05	9.50	0.02	0.02	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	27
R-Square	0.9540
Remarks	Continued Sediment Station

$$QS = 5.3270\ QW^{1.55900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.86	42.69	22.23	22.23	89.75	707.00	87.02	176.68	46.25	22.23	16.94	3.19		
2	12.86	16.94	23.63	31.08	231.86	538.73	109.68	398.78	42.69	22.23	16.94	3.19		
3	8.60	13.78	35.90	20.86	189.97	301.71	98.11	263.10	42.69	22.23	15.70	3.19		
4	6.36	100.96	100.96	15.70	236.70	273.94	84.77	163.74	42.69	19.52	15.70	5.66		
5	5.00	143.78	118.65	14.73	131.00	172.32	121.69	124.77	42.69	19.52	15.70	8.60		
6	4.36	55.57	124.77	13.78	87.02	436.47	199.02	118.65	42.69	20.86	15.70	2.16		
7	3.76	28.01	189.97	12.86	67.54	1260.03	185.50	131.00	39.24	19.52	12.86	1.08		
8	3.19	14.73	143.78	11.08	31.08	843.11	163.74	134.15	39.24	16.94	9.41	7.83		
9	3.76	11.08	98.11	9.41	92.51	336.28	118.65	109.68	39.24	16.94	7.08	2.66		
10	3.19	8.60	75.98	8.60	69.62	257.74	112.64	92.51	37.56	16.94	7.08	2.66		
11	2.66	23.63	61.45	8.60	73.84	247.14	92.51	87.02	34.26	16.94	7.83	2.16		
12	2.16	82.54	55.57	8.60	73.84	641.98	84.77	80.33	34.26	19.52	9.41	1.70		
13	1.70	63.46	42.69	7.83	459.67	436.47	75.98	75.98	34.26	26.52	9.41	1.70		
14	1.28	35.90	35.90	7.08	421.25	719.01	57.51	71.72	31.08	28.01	7.83	1.28		
15	0.90	31.08	25.06	7.08	960.73	990.85	46.25	69.62	29.53	28.01	8.60	1.08		
16	0.73	80.33	22.23	6.36	290.48	406.22	46.25	67.54	22.23	28.01	8.60	1.28		
17	0.58	181.07	19.52	6.36	159.50	212.87	46.25	65.49	25.06	32.66	8.60	1.70		
18	0.58	103.84	18.21	6.36	227.06	212.87	42.69	63.46	25.06	35.90	7.83	4.36		
19	0.58	65.49	15.70	8.60	227.06	140.54	42.69	61.45	23.63	29.53	6.36	7.83		
20	0.58	73.84	14.73	11.08	203.60	127.87	42.69	59.47	23.63	26.52	6.36	7.83		
21	0.73	51.77	13.78	42.69	134.15	134.15	155.31	59.47	22.23	26.52	6.36	7.08		
22	0.58	34.26	10.23	217.57	421.25	436.47	168.01	57.51	23.63	26.52	7.08	5.00		
23	15.70	32.66	7.08	124.77	189.97	538.73	284.93	57.51	19.52	25.06	6.36	3.76		
24	11.08	28.01	6.36	100.96	168.01	194.47	247.14	55.57	22.23	25.06	5.66	10.23		
25	16.94	22.23	5.00	134.15	176.68	112.64	313.08	53.66	22.23	25.06	7.83	23.63		
26	16.94	26.52	5.00	159.50	106.74	82.54	330.43	51.77	23.63	23.63	7.83	9.41		
27	18.21	40.96	3.76	118.65	78.15	87.02	599.90	49.90	29.53	23.63	3.76	28.01		
28	9.41	26.52	2.16	106.74	100.96	78.15	805.14	48.06	29.53	22.23	3.19	20.86		
29	8.60	19.52	2.66	98.11	131.00	89.75	413.71	46.25	25.06	20.86		16.94		
30	29.53	15.70	3.19	106.74	159.50	71.72	212.87	48.06	23.63	19.52		13.78		
31		13.78		100.96	103.84		151.15		23.63	16.94		9.41		
Total	203.41	1489.25	1304.26	1549.12	6094.33	11088.79	5540.08	2942.90	962.83	723.58	262.01	219.25	32379.81	Tonday
Mean	6.78	48.04	43.48	49.97	196.59	369.63	178.71	98.10	31.06	23.34	9.36	7.07		Ton/day
Max	29.53	181.07	189.97	217.57	960.73	1260.03	805.14	398.78	46.25	35.90	16.94	28.01	1260.03	Ton/day
Min	0.58	8.60	2.16	6.36	31.08	71.72	42.69	46.25	19.52	16.94	3.19	1.08	0.58	Ton/day

WATER YEAR : 2008

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

Drainge 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	1997-2008
Number of observation	25
R-Square	0.7531
Remarks	Continued Sediment Station

$$QS = 9.9339\ QW^{1.04950}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	21.64	80.59	87.51	41.44	124.22	246.79	110.16	87.51	51.53	20.56	15.74	7.14		
2	20.56	60.58	85.78	36.99	282.45	179.10	120.70	125.98	47.04	19.81	25.99	9.41		
3	20.56	111.92	57.18	40.33	412.10	117.18	113.67	99.68	42.56	25.99	12.56	9.41		
4	18.95	89.24	51.53	36.99	153.50	104.91	99.68	77.14	42.56	21.64	12.56	8.69		
5	18.95	84.05	332.33	32.57	82.32	203.31	111.92	71.98	42.56	21.64	14.14	7.86		
6	19.81	82.32	249.58	33.67	65.13	630.69	155.51	68.55	42.56	19.81	12.56	8.69		
7	19.81	53.79	138.94	33.67	60.58	434.50	129.51	131.27	39.21	19.81	14.99	7.86		
8	19.81	44.79	75.42	36.99	101.42	252.25	133.04	84.05	35.88	24.90	12.56	7.14		
9	18.95	36.99	51.53	62.85	145.20	192.50	187.11	73.70	31.47	25.99	12.56	7.14		
10	18.95	36.99	41.44	99.68	127.74	163.83	124.22	65.13	33.67	21.64	13.40	7.14		
11	18.95	39.21	42.56	80.59	106.66	149.35	110.16	62.85	31.47	20.56	10.98	7.14		
12	18.95	44.79	41.44	53.79	97.93	141.07	90.98	59.45	29.27	19.81	10.98	7.14		
13	18.95	41.44	35.88	41.44	101.42	157.65	84.05	61.72	29.27	19.81	8.69	6.32		
14	18.95	41.44	35.88	36.99	219.57	295.28	73.70	60.58	27.08	19.81	8.69	5.61		
15	18.95	40.33	29.27	34.78	163.83	257.72	63.99	59.45	25.99	18.95	8.69	4.80		
16	18.95	38.10	27.08	32.57	115.42	192.50	62.85	59.45	21.64	18.19	8.69	5.61		
17	18.95	36.99	27.08	25.99	84.05	155.51	60.58	58.31	23.81	18.19	7.86	6.32		
18	18.95	36.99	25.99	25.99	115.42	592.70	58.31	57.18	23.81	18.19	8.69	7.14		
19	18.95	35.88	20.56	45.91	115.42	252.25	56.05	57.18	20.56	18.19	8.69	7.86		
20	18.95	34.78	20.56	117.18	96.19	203.31	60.58	57.18	22.72	15.74	7.86	7.14		
21	18.95	35.88	20.56	181.73	274.15	378.61	63.99	57.18	22.72	16.59	8.69	7.14		
22	18.95	32.57	20.56	238.67	216.91	187.11	71.98	56.05	22.72	18.95	7.86	7.14		
23	18.95	32.57	17.34	122.46	124.22	176.35	125.98	56.05	23.81	17.34	9.41	6.32		
24	18.95	49.28	16.59	124.22	101.42	174.32	96.19	53.79	22.72	17.34	10.25	9.41		
25	20.56	49.28	14.14	104.91	117.18	131.27	92.72	51.53	22.72	18.19	9.41	14.99		
26	19.81	47.04	14.14	68.55	94.45	120.70	85.78	51.53	22.72	18.19	7.14	15.74		
27	18.95	38.10	14.14	61.72	133.04	115.42	84.05	51.53	23.81	17.34	7.14	12.03		
28	77.14	30.37	13.40	61.72	441.98	108.41	115.42	49.28	24.90	15.74	8.69	12.03		
29	75.42	29.27	21.64	51.53	279.64	92.72	94.45	49.28	23.81	14.99		12.03		
30	77.14	29.27	34.78	47.04	151.36	65.13	90.98	49.28	22.72	15.74		4.80		
31		29.27		47.04	106.66		87.51		21.64	14.99		8.38		
Total	752.31	1474.11	1664.83	2060.00	4811.58	6472.44	3015.82	2003.84	918.95	594.63	305.47	255.57	24329.55	Tonday
Mean	25.08	47.55	55.49	66.45	155.21	215.75	97.28	66.79	29.64	19.18	10.91	8.24		Ton/day
Max	77.14	111.92	332.33	238.67	441.98	630.69	187.11	131.27	51.53	25.99	25.99	15.74	630.69	Ton/day
Min	18.95	29.27	13.40	25.99	60.58	65.13	56.05	49.28	20.56	14.99	7.14	4.80	4.80	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	27
R-Square	0.8243
Remarks	Continued Sediment Station

$$QS = 3.1053\ QW^{1.46000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	731.66	1225.19	286.93	278.48	354.30	2476.11	650.77	2658.64	343.26	1180.73	47.75	64.66		
2	731.66	966.40	286.93	278.48	603.70	1776.91	1370.89	3465.34	343.26	1180.73	47.75	61.15		
3	731.66	781.60	278.48	278.48	2232.60	1136.79	1343.18	3329.68	332.34	1180.73	41.45	61.15		
4	731.66	867.10	278.48	278.48	1598.86	764.84	884.54	2440.84	295.46	1180.73	44.57	64.66		
5	731.66	1569.76	321.52	278.48	832.57	588.26	798.48	1370.89	295.46	1180.73	54.32	73.08		
6	731.66	1270.17	588.26	278.48	507.32	1426.84	1071.88	1315.65	295.46	1180.73	54.32	77.41		
7	731.66	867.10	731.66	278.48	365.45	5449.04	1868.13	1270.17	286.93	1180.73	54.32	104.98		
8	731.66	815.46	731.66	278.48	365.45	6401.39	1628.12	1270.17	286.93	1180.73	54.32	77.41		
9	731.66	798.48	619.27	278.48	1370.89	4578.11	925.18	1270.17	286.93	1180.73	47.75	77.41		
10	731.66	764.84	446.43	278.48	1158.70	3754.46	1292.85	1270.17	278.48	1180.73	51.00	77.41		
11	731.66	731.66	343.26	278.48	781.60	3087.44	1029.27	1270.17	278.48	1180.73	47.75	77.41		
12	731.66	698.95	295.46	278.48	1093.38	2232.60	884.54	1270.17	270.11	1180.73	47.75	77.41		
13	731.66	682.77	278.48	278.48	1225.19	1931.46	698.95	1247.62	261.82	1180.73	47.75	77.41		
14	731.66	650.77	278.48	278.48	1964.23	4100.83	545.00	1270.17	253.61	1180.73	51.00	77.41		
15	731.66	619.27	278.48	278.48	2335.99	5036.66	470.49	1247.62	253.61	1180.73	51.00	77.41		
16	731.66	588.26	278.48	278.48	1898.85	5330.18	422.78	1270.17	261.82	1180.73	47.75	77.41		
17	731.66	572.94	278.48	278.48	1158.70	3465.34	399.53	1247.62	206.13	1180.73	54.32	77.41		
18	731.66	545.00	278.48	278.48	1158.70	2582.88	354.30	1247.62	161.88	1180.73	61.15	77.41		
19	731.66	519.78	278.48	278.48	1202.90	2198.46	332.34	1247.62	109.83	1180.73	61.15	77.41		
20	731.66	494.95	278.48	278.48	1050.51	1931.46	434.55	1247.62	104.98	1180.73	64.66	77.41		
21	731.66	482.67	278.48	278.48	1136.79	1868.13	446.43	1247.62	95.50	1180.73	57.70	77.41		
22	731.66	458.41	278.48	278.48	1931.46	1931.46	545.00	1247.62	169.02	1180.73	57.70	77.41		
23	731.66	434.55	278.48	278.48	1837.56	1598.86	1071.88	1247.62	176.26	1180.73	57.70	77.41		
24	731.66	422.78	278.48	321.52	1598.86	1687.14	1455.08	1247.62	191.01	1180.73	51.00	77.41		
25	731.66	399.53	278.48	321.52	1270.17	1225.19	1455.08	1247.62	198.53	1180.73	47.75	77.41		
26	731.66	376.70	278.48	304.07	1270.17	849.78	1512.08	1247.62	169.02	1158.70	86.31	81.82		
27	867.10	354.30	278.48	278.48	884.54	781.60	1455.08	1247.62	161.88	1158.70	109.83	77.41		
28	764.84	343.26	278.48	278.48	1837.56	634.96	2851.04	1247.62	169.02	1158.70	64.66	77.41		
29	849.78	321.52	278.48	278.48	1716.90	572.94	3087.44	1247.62	213.83	1158.70		77.41		
30	1093.38	304.07	278.48	278.48	1225.19	1008.18	1657.55	1225.19	206.13	1158.70		77.41		
31		286.93		278.48	884.54		1270.17		198.53	44.57		169.02		
Total	22598.26	20215.17	10220.98	8744.55	38853.63	72408.30	34212.60	44681.89	7155.51	35356.32	1564.48	2460.95	298472.64	Tonday
Mean	753.28	652.10	340.70	282.08	1253.34	2413.61	1103.63	1489.40	230.82	1140.53	55.87	79.39		Ton/day
Max	1093.38	1569.76	731.66	321.52	2335.99	6401.39	3087.44	3465.34	343.26	1180.73	109.83	169.02	6401.39	Ton/day
Min	731.66	286.93	278.48	278.48	354.30	572.94	332.34	1225.19	95.50	44.57	41.45	61.15	41.45	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	24
R-Square	0.7028
Remarks	Continued Sediment Station

$$QS = 0.4529\ QW^{1.87140}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	86.96	125.56	30.00	99.09	71.93	775.68	341.88	360.66	54.25	20.15	36.57	57.03		
2	86.96	103.30	19.17	75.57	160.08	516.27	505.09	688.48	51.52	20.15	38.90	51.52		
3	51.52	48.87	20.15	75.57	314.59	379.91	450.92	553.96	51.52	20.15	46.28	54.25		
4	48.87	90.92	21.16	83.08	271.47	288.36	379.91	341.88	51.52	19.17	46.28	54.25		
5	46.28	160.08	51.52	86.96	154.91	288.36	351.21	231.32	48.87	19.17	41.29	57.03		
6	43.75	57.03	62.80	27.94	107.59	472.24	351.21	216.10	46.28	18.21	38.90	99.09		
7	43.75	27.94	75.57	41.29	79.28	1678.92	553.96	255.05	46.28	16.37	36.57	116.41		
8	43.75	27.94	57.03	30.00	111.96	1951.08	660.49	208.67	46.28	15.48	38.90	103.30		
9	46.28	22.18	41.29	43.75	231.32	1624.85	646.69	180.17	43.75	18.21	41.29	107.59		
10	46.28	17.28	27.94	75.57	208.67	2014.15	688.48	194.18	46.28	16.37	43.75	103.30		
11	46.28	22.18	21.16	86.96	149.82	1271.34	646.69	271.47	41.29	17.28	43.75	99.09		
12	48.87	30.00	24.04	54.25	173.35	775.68	483.08	341.88	38.90	22.18	41.29	99.09		
13	48.87	22.18	21.16	41.29	216.10	882.07	399.62	409.65	36.57	30.00	38.90	107.59		
14	48.87	21.16	17.28	34.32	231.32	1316.14	351.21	139.87	34.32	25.95	34.32	107.59		
15	48.87	20.15	19.17	34.32	370.23	1678.92	314.59	125.56	34.32	21.16	36.57	111.96		
16	51.52	34.32	20.15	25.95	528.69	2046.03	288.36	120.94	34.32	20.15	38.90	111.96		
17	51.52	43.75	19.17	22.18	379.91	1205.50	271.47	107.59	30.00	21.16	68.83	111.96		
18	46.28	38.90	15.48	24.04	409.65	958.52	255.05	99.09	27.94	21.16	59.88	103.30		
19	48.87	25.95	14.61	34.32	440.43	717.01	247.02	94.97	30.00	22.18	59.88	107.59		
20	46.28	25.95	21.16	51.52	399.62	660.49	263.20	90.92	25.95	41.29	57.03	107.59		
21	41.29	18.21	17.28	62.80	516.27	553.96	271.47	83.08	25.95	38.90	57.03	111.96		
22	36.57	14.61	14.61	57.03	808.59	494.03	351.21	83.08	27.94	36.57	59.88	116.41		
23	43.75	14.61	13.77	59.88	717.01	516.27	305.73	79.28	25.95	36.57	54.25	116.41		
24	54.25	16.37	17.28	86.96	541.26	553.96	389.70	75.57	25.95	36.57	48.87	120.94		
25	59.88	17.28	15.48	99.09	566.80	440.43	440.43	68.83	24.04	38.90	65.78	120.94		
26	90.92	19.17	12.15	68.83	579.77	370.23	450.92	65.78	24.04	38.90	107.59	107.59		
27	68.83	20.15	16.37	51.52	633.04	341.88	409.65	62.80	25.95	36.57	59.88	120.94		
28	75.57	16.37	15.48	68.83	790.69	314.59	1058.22	59.88	25.95	34.32	57.03	201.36		
29	99.09	15.48	17.28	57.03	731.47	351.21	900.90	57.03	24.04	34.32		187.11		
30	111.96	14.61	27.94	65.78	633.04	341.88	472.24	54.25	22.18	34.32		187.11		
31		14.61		57.03	541.26		379.91		20.15	32.12		86.96		
Total	1712.74	1147.11	767.65	1782.75	12070.12	25779.96	13880.51	5721.99	1092.30	824.00	1398.39	3349.22	69526.74	Tonday
Mean	57.09	37.00	25.59	57.51	389.36	859.33	447.76	190.73	35.24	26.58	49.94	108.04		Ton/day
Max	111.96	160.08	75.57	99.09	808.59	2046.03	1058.22	688.48	54.25	41.29	107.59	201.36	2046.03	Ton/day
Min	36.57	14.61	12.15	22.18	71.93	288.36	247.02	54.25	20.15	15.48	34.32	51.52	12.15	Ton/day

WATER YEAR : 2008

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

Drainge Area	550 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	2008
Number of observation	27
R-Square	0.8817
Remarks	Continued Sediment Station

$$QS = 3.0290\ QW^{1.15880}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.34	1.05	0.90	3.38	2.34	11.66	39.64	75.00	5.03	3.38	3.13	1.61		
2	0.34	1.05	0.47	3.13	3.13	255.92	33.71	178.76	5.03	4.22	3.13	1.61		
3	0.34	1.20	0.00	2.85	10.82	73.10	31.77	174.16	5.03	3.38	3.13	1.61		
4	0.34	2.61	0.00	3.13	9.17	56.28	16.86	76.91	3.67	3.92	3.13	1.61		
5	0.34	2.10	1.05	3.13	5.91	36.66	13.36	86.28	2.61	2.85	3.13	1.36		
6	0.34	2.10	1.84	2.85	5.91	38.64	9.17	61.82	2.85	2.61	3.13	1.36		
7	0.34	0.75	38.64	2.85	5.60	30.80	61.82	63.68	2.85	2.61	3.13	1.36		
8	0.34	0.47	32.74	2.61	5.03	135.07	26.03	61.82	3.13	2.85	3.13	1.36		
9	0.34	0.34	29.84	2.10	5.03	63.68	86.28	37.65	2.85	2.85	2.34	1.36		
10	0.21	0.21	26.03	2.10	5.03	42.65	47.22	31.77	2.61	2.61	2.10	1.20		
11	0.21	1.05	23.23	1.61	5.03	36.66	49.02	26.98	2.61	2.61	2.10	1.20		
12	0.21	0.61	26.03	1.36	7.55	108.87	33.71	25.09	2.85	2.61	2.10	1.20		
13	0.21	1.20	58.12	1.20	8.35	132.12	28.88	19.56	2.61	2.61	2.10	1.20		
14	0.21	2.10	13.36	1.05	80.75	201.97	24.16	18.65	2.10	2.61	2.10	1.20		
15	0.21	1.20	8.35	1.05	43.66	120.42	18.65	16.86	1.36	2.61	2.10	1.20		
16	0.21	5.34	5.91	1.05	43.66	91.86	13.36	15.10	1.05	2.61	2.10	1.20		
17	0.21	3.92	5.34	1.05	17.75	211.36	11.66	11.66	1.05	2.61	2.10	1.20		
18	0.21	1.84	5.34	1.05	9.17	100.31	9.17	11.66	1.05	2.61	2.10	1.20		
19	0.21	8.35	4.47	1.05	6.49	86.28	6.49	10.82	1.05	2.61	2.10	1.20		
20	0.21	32.74	3.38	1.05	3.92	76.91	6.76	10.82	0.90	2.61	2.10	1.20		
21	0.21	17.75	2.85	4.22	4.22	361.68	581.48	10.82	0.34	2.85	2.10	1.20		
22	0.21	3.38	2.34	4.22	6.49	108.87	160.48	9.99	1.20	2.61	2.10	1.20		
23	4.77	3.13	2.10	3.67	5.34	65.55	106.01	11.66	1.36	2.61	2.10	1.20		
24	3.92	1.84	3.13	15.98	4.47	40.64	50.82	9.17	3.67	2.61	2.34	1.20		
25	3.67	1.61	3.38	6.18	3.92	31.77	52.63	7.55	3.92	2.34	2.34	1.20		
26	3.13	1.20	3.92	5.91	4.77	21.38	35.67	7.55	3.67	2.34	2.34	1.20		
27	2.85	1.20	3.92	4.77	86.28	16.86	47.22	7.55	3.38	2.10	2.34	1.84		
28	2.61	0.90	3.67	5.34	35.67	11.66	129.18	7.55	4.22	2.10	2.34	1.84		
29	4.77	0.61	3.38	4.47	26.03	10.82	75.00	6.49	2.61	2.10		1.61		
30	1.61	0.61	3.38	3.13	15.98	8.35	43.66	5.60	2.85	2.10		1.61		
31		0.61		3.13	9.99		38.64		2.61	2.10		1.61		
Total	33.12	103.07	317.11	100.67	487.46	2588.80	1888.51	1098.98	82.12	83.24	68.48	42.15	6893.71	Tonday
Mean	1.10	3.32	10.57	3.25	15.72	86.29	60.92	36.63	2.65	2.69	2.45	1.36		Ton/day
Max	4.77	32.74	58.12	15.98	86.28	361.68	581.48	178.76	5.03	4.22	3.13	1.84	581.48	Ton/day
Min	0.21	0.21	0.00	1.05	2.34	8.35	6.49	5.60	0.34	2.10	2.10	1.20	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2002-2008
Number of observation	57
R-Square	0.9597
Remarks	Continued Sediment Station

$$QS = 12.1190\ QW^{1.09850}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.55	0.55	161.25	74.91	324.32	155.39	202.83	2121.23	80.89	2.07	7.55	0.55		
2	0.55	0.55	193.94	101.95	552.72	170.17	344.40	2254.87	69.13	4.19	7.17	0.55		
3	0.55	0.55	308.27	308.27	1024.35	138.74	747.09	1782.16	65.25	6.79	6.79	0.55		
4	0.55	0.55	340.44	268.82	620.01	216.58	1063.06	1305.35	61.39	9.48	6.41	0.55		
5	0.55	0.55	489.68	184.91	526.90	336.32	822.55	1082.37	57.56	12.65	6.03	0.55		
6	0.55	0.55	494.32	118.99	258.30	466.54	693.33	1030.70	54.04	13.46	5.66	0.55		
7	0.55	0.55	332.37	90.73	173.04	503.61	625.32	1043.59	52.52	14.27	5.29	0.55		
8	0.55	0.55	368.73	152.54	161.25	656.67	489.68	934.55	49.50	15.08	4.92	0.55		
9	0.55	0.55	457.32	90.73	133.77	471.16	348.53	896.29	46.48	15.89	4.55	0.55		
10	0.55	0.55	752.87	84.85	133.77	284.33	422.05	1206.46	43.49	16.71	4.19	0.55		
11	0.55	149.54	709.23	88.82	109.22	206.26	512.91	1030.70	39.03	17.54	3.82	0.55		
12	0.55	2999.67	588.83	74.91	78.84	568.12	578.46	614.90	34.62	18.37	3.47	0.55		
13	0.55	2611.42	793.45	59.40	52.52	1192.39	719.78	508.26	30.26	19.20	3.11	0.55		
14	0.55	3317.54	877.12	43.49	63.24	1715.63	547.47	438.91	25.10	20.03	2.76	0.55		
15	0.55	2747.51	667.16	36.08	121.44	1185.36	320.21	393.22	19.20	20.87	2.41	0.55		
16	0.55	2475.96	438.91	69.13	552.72	864.42	276.39	360.61	15.08	20.03	2.07	0.55		
17	0.55	2187.95	280.27	78.84	426.07	741.31	609.60	312.19	11.85	20.03	1.84	0.55		
18	0.55	1941.06	196.84	73.03	247.81	816.73	609.60	308.27	11.06	19.20	1.62	0.55		
19	0.55	1707.33	146.71	101.95	182.02	1136.26	348.53	288.22	10.27	18.37	1.40	0.55		
20	0.55	1490.78	348.53	356.64	123.90	1082.37	304.18	280.27	8.71	17.54	1.18	0.55		
21	0.55	1298.27	547.47	640.89	136.25	1369.29	237.36	272.34	7.55	16.71	0.97	1.84		
22	0.55	1115.27	426.07	324.32	258.30	953.63	223.49	251.30	6.41	15.08	0.76	6.79		
23	0.55	940.84	466.54	240.84	397.40	517.57	348.53	206.26	5.66	13.46	0.55	11.85		
24	0.55	776.04	272.34	143.71	557.79	360.61	405.60	164.28	4.55	12.65	0.55	23.40		
25	0.55	620.01	471.16	92.80	268.82	268.82	508.26	128.83	4.19	11.06	0.55	30.26		
26	0.55	480.41	426.07	422.05	126.36	209.70	2054.68	136.25	3.11	10.27	0.55	37.56		
27	0.55	372.90	485.04	397.40	88.82	161.25	3032.42	158.40	2.41	9.48	0.55	16.71		
28	0.55	360.61	292.29	542.42	116.54	199.92	3185.66	128.83	1.84	9.09	0.55	67.11		
29	0.55	304.18	155.39	522.23	116.54	389.22	2901.61	123.90	1.40	8.71		36.08		
30	0.55	247.81	99.54	304.18	170.17	300.27	2321.96	114.10	0.97	8.32		19.20		
31		182.02		240.84	244.32		2064.18		0.76	7.93		15.08		
Total	16.50	28332.62	12588.15	6330.67	8347.52	17638.64	27869.72	19877.61	824.28	424.53	87.27	276.88	122614.39	Tonday
Mean	0.55	913.96	419.61	204.22	269.27	587.95	899.02	662.59	26.59	13.69	3.12	8.93		Ton/day
Max	0.55	3317.54	877.12	640.89	1024.35	1715.63	3185.66	2254.87	80.89	20.87	7.55	67.11	3317.54	Ton/day
Min	0.55	0.55	99.54	36.08	52.52	138.74	202.83	114.10	0.76	2.07	0.55	0.55	0.55	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	30
R-Square	0.9530
Remarks	Continued Sediment Station

$$QS = 6.6050\ QW^{1.09680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.53	3.43	3.22	3.22	11.36	51.98	27.90	19.63	10.68	10.00	7.33	3.50		
2	0.76	2.29	2.95	3.43	11.36	20.43	23.98	30.88	10.68	10.00	7.33	3.50		
3	0.65	10.00	3.22	3.84	12.05	15.68	23.98	23.01	10.68	10.00	5.17	3.50		
4	0.65	12.05	3.22	5.74	12.74	13.43	27.90	21.23	10.68	10.00	5.17	3.50		
5	0.53	7.33	4.61	5.74	11.36	29.88	46.45	23.98	10.68	10.00	5.17	3.50		
6	0.53	3.22	14.13	4.61	11.36	73.53	29.88	22.04	15.68	9.33	5.17	2.95		
7	1.38	2.75	6.97	7.99	11.36	42.50	28.89	20.43	13.43	9.33	5.17	2.95		
8	0.76	2.29	3.84	5.38	13.43	27.90	30.88	23.01	11.36	10.68	5.17	2.95		
9	0.65	1.83	3.43	5.74	14.90	28.89	29.88	20.43	10.68	14.13	5.17	2.95		
10	1.01	2.02	2.95	26.92	13.43	23.01	27.90	18.84	10.68	14.13	5.17	2.95		
11	0.89	2.48	2.75	18.84	13.43	22.04	24.96	18.04	11.36	14.13	5.17	2.95		
12	0.76	2.02	3.22	18.04	16.47	47.83	35.39	18.04	12.05	14.13	4.61	2.95		
13	0.65	1.83	2.48	16.47	18.04	40.12	25.93	18.04	12.05	14.13	4.61	2.95		
14	0.65	2.02	2.75	7.99	23.01	56.17	23.01	17.25	11.36	14.13	4.61	2.95		
15	0.65	2.02	3.84	7.99	18.84	49.21	23.98	16.47	11.36	14.13	4.61	2.95		
16	0.65	2.29	2.95	6.53	16.47	30.88	22.04	16.47	11.36	14.13	4.61	2.95		
17	0.53	2.75	3.22	6.17	13.43	37.75	20.43	16.47	11.36	14.13	4.05	2.95		
18	0.53	2.29	3.43	6.17	17.25	30.88	19.63	15.68	11.36	14.13	4.05	2.95		
19	0.53	1.83	5.74	5.74	13.43	24.96	18.84	15.68	11.36	13.43	4.05	2.95		
20	0.41	1.57	3.43	22.04	14.13	21.23	22.04	15.68	11.36	13.43	4.05	2.95		
21	0.41	1.57	2.75	17.25	22.04	43.70	20.43	14.90	10.68	13.43	4.05	2.95		
22	0.41	1.38	4.96	14.13	19.63	34.21	19.63	14.90	10.68	13.43	4.05	2.95		
23	2.02	4.19	4.61	13.43	18.04	37.75	22.04	14.90	10.68	13.43	4.05	2.95		
24	1.57	3.22	3.43	18.84	17.25	28.89	23.01	14.90	10.68	13.43	4.05	2.95		
25	1.13	2.29	3.43	18.84	16.47	24.96	20.43	14.90	10.68	13.43	4.05	2.95		
26	0.89	1.83	3.43	17.25	14.13	23.98	18.84	14.13	11.36	13.43	4.05	2.95		
27	0.76	1.57	3.84	13.43	23.98	23.01	23.98	14.13	12.05	12.74	3.50	2.95		
28	8.66	1.38	3.43	16.47	19.63	22.04	24.96	14.13	10.68	10.68	2.95	2.95		
29	2.48	1.38	4.96	12.05	19.63	22.04	20.43	14.13	10.68	7.99		2.95		
30	4.19	1.38	4.61	10.68	14.90	21.23	19.63	14.13	10.68	7.99		2.95		
31		2.29		10.68	12.74		18.84		10.00	7.33		2.95		
Total	36.22	90.79	121.80	351.64	486.29	970.11	766.11	536.45	349.06	374.81	131.19	94.20	4308.67	Tonday
Mean	1.21	2.93	4.06	11.34	15.69	32.34	24.71	17.88	11.26	12.09	4.69	3.04		Ton/day
Max	8.66	12.05	14.13	26.92	23.98	73.53	46.45	30.88	15.68	14.13	7.33	3.50	73.53	Ton/day
Min	0.41	1.38	2.48	3.22	11.36	13.43	18.84	14.13	10.00	7.33	2.95	2.95	0.41	Ton/day

WATER YEAR : 2008

PING RIVER BASIN

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

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

Location : on left bank at Ban Mae Win.

Ban Mae Win **Amphoe** Mae Wang **Changwat** Chiang Mai

Drainge 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	2008
Number of observation	36
R-Square	0.7344
Remarks	Continued Sediment Station

$$QS = 1.0196\ QW^{1.97210}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.27	40.89	18.94	8.32	30.47	111.29	462.91	391.97	119.56	61.58	16.48	4.00		
2	10.11	12.06	21.57	8.32	61.58	119.56	155.58	733.54	103.30	67.80	16.48	3.62		
3	6.71	175.34	27.34	12.06	27.34	175.34	95.62	3360.98	111.29	74.31	16.48	3.62		
4	4.00	539.67	48.66	10.11	18.94	74.31	88.22	622.22	103.30	57.11	16.48	3.25		
5	3.62	103.30	81.12	6.71	10.11	48.66	146.14	444.63	103.30	57.11	14.18	3.25		
6	4.00	52.80	37.25	5.27	6.71	103.30	119.56	622.22	103.30	52.80	14.18	3.25		
7	4.00	37.25	37.25	5.27	3.62	146.14	119.56	462.91	95.62	57.11	16.48	3.25		
8	4.00	18.94	44.69	6.71	4.00	74.31	185.66	346.12	103.30	48.66	16.48	2.90		
9	5.27	12.06	24.37	5.27	21.57	81.12	103.30	291.54	81.12	52.80	12.06	2.90		
10	6.71	27.34	37.25	4.00	40.89	103.30	103.30	229.82	81.12	52.80	14.18	2.90		
11	3.62	30.47	33.78	4.00	24.37	67.80	103.30	241.59	95.62	48.66	12.06	2.90		
12	2.58	241.59	24.37	3.62	30.47	426.71	81.12	207.16	88.22	48.66	18.94	2.90		
13	2.90	360.49	21.57	2.90	61.58	165.32	61.58	207.16	88.22	48.66	21.57	2.90		
14	2.58	229.82	27.34	2.90	67.80	146.14	57.11	207.16	88.22	48.66	18.94	2.58		
15	2.58	265.99	27.34	2.90	37.25	165.32	48.66	196.26	88.22	48.66	18.94	2.58		
16	2.58	622.22	30.47	2.90	27.34	128.13	52.80	185.66	81.12	48.66	16.48	2.90		
17	2.27	175.34	37.25	2.58	30.47	95.62	48.66	196.26	74.31	57.11	16.48	2.90		
18	1.98	95.62	33.78	2.58	61.58	81.12	44.69	175.34	74.31	37.25	16.48	21.57		
19	2.90	81.12	18.94	2.90	111.29	57.11	57.11	165.32	67.80	27.34	16.48	12.06		
20	2.90	128.13	14.18	3.25	128.13	52.80	57.11	165.32	81.12	27.34	14.18	6.71		
21	1.98	81.12	14.18	4.00	146.14	74.31	265.99	155.58	67.80	27.34	16.48	5.27		
22	1.98	48.66	10.11	3.62	196.26	207.16	119.56	136.99	67.80	24.37	16.48	4.00		
23	1.98	61.58	10.11	3.62	155.58	95.62	834.57	128.13	74.31	24.37	12.06	4.00		
24	1.98	74.31	8.32	6.71	67.80	44.69	155.58	136.99	74.31	21.57	10.11	6.71		
25	3.25	119.56	6.71	10.11	52.80	18.94	207.16	136.99	67.80	21.57	8.32	10.11		
26	3.25	136.99	4.00	27.34	40.89	16.48	426.71	128.13	61.58	21.57	10.11	10.11		
27	3.25	88.22	4.00	44.69	52.80	12.06	1508.31	136.99	57.11	18.94	8.32	8.32		
28	2.58	48.66	3.25	37.25	57.11	10.11	1228.65	119.56	81.12	18.94	6.71	6.71		
29	52.80	37.25	4.00	14.18	61.58	33.78	462.91	111.29	61.58	18.94		3.62		
30	57.11	27.34	4.00	6.71	37.25	48.66	229.82	119.56	67.80	16.48		2.90		
31		21.57		4.00	48.66		165.32		67.80	16.48		2.58		
Total	210.74	3995.70	716.14	264.80	1722.38	2985.21	7796.57	10763.39	2581.38	1253.65	412.62	157.27	32859.85	Tonday
Mean	7.02	128.89	23.87	8.54	55.56	99.51	251.50	358.78	83.27	40.44	14.74	5.07		Ton/day
Max	57.11	622.22	81.12	44.69	196.26	426.71	1508.31	3360.98	119.56	74.31	21.57	21.57	3360.98	Ton/day
Min	1.98	12.06	3.25	2.58	3.62	10.11	44.69	111.29	57.11	16.48	6.71	2.58	1.98	Ton/day

WATER YEAR : 2008

PING RIVER BASIN

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

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

Location : on left bank at Ban Mae Chaem.

Ban Mae Chaem **Amphoe** Mae Wang **Changwat** Chiang Mai

Drainge 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	2008
Number of observation	29
R-Square	0.7821
Remarks	Continued Sediment Station

$$QS = 4.7245\ QW^{1.22480}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.51	18.89	20.39	10.37	11.04	53.47	149.66	94.68	77.73	21.15	5.61	5.31		
2	10.37	13.81	18.89	9.38	44.58	58.94	101.95	132.40	77.73	19.64	5.31	4.44		
3	7.13	35.00	16.67	11.04	27.80	68.73	68.73	645.37	77.73	20.39	5.91	4.15		
4	7.13	77.73	21.15	9.71	21.15	52.12	63.10	145.31	76.09	18.89	8.08	3.87		
5	6.82	73.01	35.00	8.40	15.23	40.25	91.08	145.31	76.09	18.14	7.76	3.87		
6	7.76	61.71	22.68	7.76	11.72	48.10	84.36	205.34	74.45	14.51	7.76	5.91		
7	10.37	56.19	21.15	9.38	10.04	71.58	89.39	154.04	82.69	11.72	7.45	6.21		
8	11.72	48.10	22.68	7.45	9.71	50.77	94.68	86.03	82.69	11.04	7.45	5.02		
9	7.45	45.72	20.39	8.72	18.14	50.77	64.50	84.36	76.09	11.04	6.82	4.44		
10	8.08	53.47	17.41	8.08	32.93	50.77	54.83	70.16	74.45	11.04	7.13	4.15		
11	6.82	54.83	27.80	7.76	23.46	45.72	53.47	57.56	76.09	10.04	6.51	3.87		
12	6.51	101.95	19.64	7.45	24.24	123.91	49.43	53.47	74.45	10.37	5.91	3.59		
13	6.51	89.39	17.41	7.76	44.58	73.01	48.10	57.56	76.09	10.71	5.31	3.32		
14	6.51	73.01	21.15	9.71	57.56	63.10	45.72	54.83	74.45	9.05	4.72	3.32		
15	6.51	76.09	20.39	9.38	41.37	73.01	46.77	49.43	73.01	8.72	4.15	3.32		
16	6.21	113.46	21.15	10.71	33.92	67.32	42.41	46.77	74.45	8.72	3.87	3.05		
17	6.51	64.50	23.46	9.38	30.87	65.91	41.37	50.77	73.01	9.05	3.87	3.05		
18	6.82	52.12	26.84	6.82	38.12	57.56	37.10	49.43	73.01	9.38	3.87	6.21		
19	7.13	29.81	19.64	7.13	40.25	52.12	36.01	46.77	73.01	8.40	3.87	8.40		
20	7.13	24.24	16.67	7.76	29.81	46.77	38.12	45.72	73.01	8.40	3.87	6.51		
21	7.13	19.64	18.14	10.04	23.46	50.77	86.03	44.58	73.01	8.40	3.87	5.31		
22	7.13	15.23	16.67	10.04	36.01	91.08	54.83	44.58	71.58	8.40	3.87	4.72		
23	7.13	13.10	15.95	8.72	29.81	57.56	289.00	44.58	71.58	8.72	3.87	4.15		
24	7.13	14.51	15.23	9.71	25.81	53.47	73.01	43.53	71.58	8.72	3.87	3.87		
25	7.45	18.89	12.41	12.41	21.91	42.41	86.03	40.25	71.58	8.72	3.87	3.87		
26	7.45	20.39	9.38	20.39	18.14	43.53	285.92	40.25	68.73	8.72	3.59	4.15		
27	7.45	15.23	8.08	28.84	19.64	41.37	310.69	40.25	60.32	8.08	7.13	5.02		
28	7.45	10.71	9.38	33.92	27.80	36.01	323.21	38.12	63.10	5.91	5.91	5.31		
29	17.41	9.71	9.71	22.68	31.85	46.77	151.85	36.01	61.71	5.91		4.72		
30	18.14	8.72	8.40	17.41	21.15	48.10	115.54	35.00	63.10	5.91		4.15		
31		8.08		10.71	21.91		100.13		61.71	5.91		3.59		
Total	251.87	1317.24	553.91	359.02	844.01	1725.00	3177.02	2682.46	2254.32	333.80	151.21	140.87	13790.73	Tonday
Mean	8.40	42.49	18.46	11.58	27.23	57.50	102.48	89.42	72.72	10.77	5.40	4.54		Ton/day
Max	18.14	113.46	35.00	33.92	57.56	123.91	323.21	645.37	82.69	21.15	8.08	8.40	645.37	Ton/day
Min	6.21	8.08	8.08	6.82	9.71	36.01	36.01	35.00	60.32	5.91	3.59	3.05	3.05	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	30
R-Square	0.8976
Remarks	Continued Sediment Station

$$QS = 1.5238\ QW^{1.49680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.69	15.45	4.30	413.93	11.51	51.46	130.37	281.52	15.01	2.41	43.88	37.24		
2	3.55	5.10	3.20	422.31	9.68	85.58	73.96	703.87	15.01	7.50	25.10	34.06		
3	2.34	3.55	2.15	142.23	26.03	51.46	1115.64	1329.65	13.71	25.10	20.57	25.10		
4	1.48	2.85	1.48	11.51	26.03	24.41	263.15	1875.03	12.46	22.05	17.72	43.88		
5	1.64	2.15	1.48	5.93	16.85	24.41	118.86	405.61	11.24	20.57	16.34	47.33		
6	1.81	2.15	1.03	3.92	13.43	32.98	146.26	212.71	11.24	1.09	15.01	58.20		
7	4.69	1.81	0.89	3.55	34.89	73.96	223.37	191.92	11.24	0.21	13.71	27.99		
8	53.82	1.98	1.17	2.34	36.85	101.22	343.13	281.52	11.24	10.45	12.46	27.99		
9	98.02	2.15	1.17	2.15	36.85	202.23	245.21	300.29	9.68	11.24	13.71	25.10		
10	68.73	1.81	1.32	2.34	36.85	257.13	207.45	405.61	12.46	10.45	40.52	17.72		
11	257.13	1.81	1.32	3.55	45.00	263.15	187.17	559.35	15.01	9.68	58.20	20.57		
12	313.82	1.64	1.32	7.97	73.96	350.59	173.16	817.15	8.94	8.94	27.99	23.56		
13	275.35	1.81	1.32	9.68	58.66	187.17	159.52	736.62	7.50	15.01	22.05	25.10		
14	98.02	2.15	1.48	16.85	36.85	168.57	130.37	549.66	6.15	19.12	22.05	30.97		
15	7.97	2.15	1.48	49.27	34.89	234.21	693.06	559.35	10.45	10.45	23.56	34.06		
16	5.93	2.34	1.48	34.89	29.38	579.22	660.97	549.66	8.94	9.68	22.05	30.97		
17	5.93	1.98	1.32	22.82	40.85	439.24	191.92	549.66	8.94	10.45	0.49	37.24		
18	3.55	1.98	1.32	22.82	47.12	228.77	85.58	511.47	7.50	10.45	0.15	30.97		
19	2.34	1.98	1.32	18.29	36.85	474.21	79.57	817.15	3.80	0.48	16.34	0.59		
20	1.64	2.34	1.48	11.51	31.10	389.13	91.73	91.73	3.55	92.44	30.97	34.06		
21	0.00	1.64	2.15	8.81	24.41	725.65	223.37	45.00	3.31	47.33	27.99	40.52		
22	1.64	1.17	2.34	10.58	16.85	793.40	159.52	58.66	3.08	43.88	27.99	40.52		
23	1.98	1.17	1.81	9.68	13.43	1731.75	122.66	68.73	2.41	34.06	1.17	34.06		
24	2.52	0.89	5.10	11.51	5.93	1875.03	49.27	56.22	2.41	23.56	0.52	43.88		
25	1.98	1.32	3.55	8.81	5.51	263.15	173.16	36.85	3.08	23.56	22.05	50.87		
26	1.32	1.64	4.30	7.97	9.68	202.23	122.66	0.30	2.85	23.56	27.99	22.05		
27	1.48	1.03	5.10	11.51	10.58	405.61	130.37	22.05	5.51	30.97	30.97	2.20		
28	1.32	0.89	68.73	14.43	14.43	182.46	269.23	22.05	7.50	43.88	30.97	40.52		
29	4.69	1.17	328.37	15.45	29.38	269.23	142.23	19.12	4.89	50.87		40.52		
30	19.76	1.32	413.93	12.46	32.98	758.73	82.56	17.72	3.08	50.87		40.52		
31		3.92		16.85	24.41		257.13		2.00	50.87		37.24		
Total	1249.14	75.34	867.41	1335.92	871.22	11426.34	7052.61	12076.23	244.19	721.18	612.52	1005.60	37537.70	Tonday
Mean	41.64	2.43	28.91	43.09	28.10	380.88	227.50	402.54	7.88	23.26	21.88	32.44		Ton/day
Max	313.82	15.45	413.93	422.31	73.96	1875.03	1115.64	1875.03	15.01	92.44	58.20	58.20	1875.03	Ton/day
Min	0.00	0.89	0.89	2.15	5.51	24.41	49.27	0.30	2.00	0.21	0.15	0.59	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	29
R-Square	0.8582
Remarks	Continued Sediment Station

$$QS = 0.6282\ QW^{1.70480}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	12.39	1.81	8.95	0.24	12.39	31.83	578.59	5116.25	49.79	57.88	85.08	27.11		
2	24.13	3.52	4.69	0.81	12.39	53.77	578.59	5562.76	45.94	44.06	70.94	33.48		
3	17.33	16.29	21.30	0.26	8.95	107.34	1143.02	8117.59	42.21	47.85	75.53	42.21		
4	16.29	13.33	133.65	0.22	5.98	209.51	1756.01	11531.98	40.40	45.94	42.21	31.83		
5	7.40	13.33	101.14	8.95	21.30	133.65	2490.18	7337.30	38.62	53.77	30.22	22.70		
6	2.05	8.95	66.46	8.16	45.94	95.09	2424.73	3990.27	35.16	53.77	24.13	30.22		
7	4.09	7.40	35.16	3.52	66.46	113.69	2556.36	2490.18	33.48	57.88	21.30	33.48		
8	1.37	5.32	33.48	2.05	33.48	261.59	5749.86	1519.51	31.83	101.14	19.94	38.62		
9	2.50	4.09	62.11	0.65	28.65	456.71	2793.60	1079.38	30.22	38.62	27.11	25.60		
10	2.05	5.32	44.06	0.20	28.65	445.34	1810.47	1121.64	28.65	31.83	22.70	22.70		
11	0.98	9.77	25.60	0.26	30.22	338.29	1675.61	976.67	25.60	33.48	8.95	21.30		
12	1.17	6.68	21.30	0.13	36.87	794.43	1868.54	714.11	28.65	40.40	45.94	16.29		
13	2.05	4.69	24.13	0.09	57.88	1957.06	956.65	551.85	30.22	45.94	47.85	18.62		
14	18.62	7.40	18.62	0.14	147.69	1622.87	1017.25	479.79	27.11	47.85	36.87	21.30		
15	19.94	11.49	49.79	0.14	226.34	2108.34	682.98	379.65	24.13	62.11	42.21	25.60		
16	19.94	47.85	25.60	0.65	234.96	1675.61	445.34	289.40	21.30	66.46	42.21	0.00		
17	19.94	27.11	19.94	9.77	185.29	2457.36	379.65	243.70	31.83	49.79	53.77	42.21		
18	14.29	25.60	12.39	16.29	113.69	2017.02	318.36	209.51	31.83	62.11	40.40	40.40		
19	11.49	18.62	8.16	10.61	66.46	1468.89	261.59	177.49	31.83	80.25	57.88	38.62		
20	8.16	42.21	4.09	24.13	49.79	2490.18	226.34	270.73	33.48	177.49	30.22	62.11		
21	17.33	21.30	2.50	18.62	57.88	1868.54	479.79	318.36	24.13	75.53	18.62	28.65		
22	14.29	15.27	2.05	16.29	44.06	2077.71	551.85	217.86	24.13	113.69	24.13	28.65		
23	6.68	9.77	1.58	13.33	42.21	3394.23	1143.02	177.49	25.60	47.85	22.70	47.85		
24	2.50	7.40	1.17	14.29	38.62	2232.70	1230.21	185.29	28.65	38.62	21.30	75.53		
25	2.05	8.16	0.81	27.11	24.13	3946.38	729.89	169.83	25.60	38.62	42.21	35.16		
26	1.58	44.06	0.51	53.77	21.30	1468.89	917.10	154.93	27.11	35.16	22.70	24.13		
27	0.81	107.34	0.16	70.94	18.62	682.98	1100.42	113.69	36.87	36.87	18.62	33.48		
28	1.37	38.62	0.14	38.62	13.33	578.59	1649.15	53.77	44.06	33.48	21.30	57.88		
29	5.98	11.49	0.13	28.65	25.60	551.85	3353.19	62.11	75.53	42.21		44.06		
30	4.09	17.33	0.18	21.30	21.30	390.30	2589.72	53.77	113.69	62.11		40.40		
31		17.33		11.49	19.94		1519.51		113.69	75.53		42.21		
Total	262.86	578.85	729.85	401.68	1740.37	36030.74	44977.57	53666.86	1201.34	1798.29	1017.04	1052.40	143457.85	Tonday
Mean	8.76	18.67	24.33	12.96	56.14	1201.02	1450.89	1788.90	38.75	58.01	36.32	33.95		Ton/day
Max	24.13	107.34	133.65	70.94	234.96	3946.38	5749.86	11531.98	113.69	177.49	85.08	75.53	11531.98	Ton/day
Min	0.81	1.81	0.13	0.09	5.98	31.83	226.34	53.77	21.30	31.83	8.95	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	1989-2008
Number of observation	374
R-Square	0.9114
Remarks	Continued Sediment Station

$$QS = 1.8062\ QW^{1.43540}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.12	7.52	34.46	1.08	27.11	89.78	440.04	2970.64	97.51	89.78	53.52	11.36		
2	4.88	7.52	27.11	1.08	18.20	162.19	510.28	7071.86	89.78	87.25	37.02	15.15		
3	7.12	8.33	21.41	1.08	28.30	89.78	722.81	6477.18	87.25	53.52	53.52	20.33		
4	7.92	7.12	37.02	1.20	23.64	97.51	1751.04	5836.87	77.34	49.22	52.07	39.64		
5	7.92	21.41	92.34	1.20	17.16	151.65	2716.75	6218.02	67.81	49.22	46.42	9.59		
6	8.74	17.16	155.14	0.97	18.20	165.76	3039.50	4880.46	65.48	49.22	29.50	18.20		
7	10.46	11.36	100.13	0.67	37.02	172.95	2970.64	3444.54	58.66	49.22	22.52	18.20		
8	5.97	10.46	79.78	0.67	60.91	183.91	2970.64	2437.48	53.52	50.64	18.20	24.78		
9	2.07	8.33	58.66	0.77	65.48	286.94	3390.85	1688.76	49.22	60.91	13.21	27.11		
10	2.63	7.12	54.97	1.68	56.44	583.60	2783.78	1180.84	47.82	50.64	13.21	25.94		
11	1.31	8.74	56.44	1.20	45.04	591.09	1726.05	1387.88	47.82	37.02	20.33	18.20		
12	1.20	13.21	74.92	0.77	43.67	349.76	1482.20	991.30	45.04	29.50	14.17	19.25		
13	0.97	60.91	56.44	0.32	52.07	553.92	1458.44	779.32	40.97	28.30	14.17	31.95		
14	1.08	65.48	43.67	0.12	63.18	613.75	1242.44	621.36	42.31	27.11	19.25	16.15		
15	1.08	70.15	31.95	0.12	105.43	561.29	947.68	488.88	35.73	29.50	27.11	15.15		
16	1.20	63.18	29.50	0.00	148.18	812.19	714.84	418.23	31.95	29.50	34.46	19.25		
17	1.20	108.56	56.44	0.00	172.95	722.81	446.92	334.49	31.95	31.95	38.32	22.52		
18	3.87	111.71	43.67	0.00	144.74	1542.10	330.08	291.17	29.50	30.72	42.31	30.72		
19	4.88	97.51	31.95	0.18	114.90	1506.08	303.98	221.89	30.72	25.94	40.97	35.73		
20	5.97	79.78	21.41	6.73	92.34	1120.19	270.21	233.70	35.73	30.72	34.46	38.32		
21	5.60	79.78	13.21	13.21	77.34	1221.80	257.86	245.69	35.73	39.64	33.20	45.04		
22	2.63	87.25	8.33	27.11	65.48	1273.60	360.05	303.98	33.20	60.91	6.73	27.11		
23	2.35	58.66	6.73	27.11	52.07	1201.27	503.12	245.69	29.50	49.22	7.12	45.04		
24	6.35	45.04	5.24	29.50	53.52	1726.05	803.93	206.44	24.78	53.52	9.59	29.50		
25	46.42	27.11	3.87	18.20	47.82	1494.12	896.13	198.85	24.78	49.22	8.74	45.04		
26	14.17	21.41	1.31	21.41	45.04	1864.87	904.66	191.34	23.64	29.50	8.74	50.64		
27	4.88	22.52	1.81	42.31	54.97	1252.80	913.22	180.24	30.72	25.94	13.21	37.02		
28	4.88	50.64	1.68	74.92	52.07	606.17	1651.72	151.65	35.73	22.52	13.21	39.64		
29	4.88	87.25	1.43	63.18	35.73	396.77	2617.14	114.90	40.97	21.41		37.02		
30	4.54	54.97	1.20	47.82	37.02	510.28	2584.18	97.51	50.64	21.41		47.82		
31		46.42		37.02	49.22		2600.64		63.18	27.11		38.32		
Total	184.29	1366.61	1152.22	421.63	1905.24	21904.98	44311.82	49911.16	1458.98	1290.28	725.28	899.73	125532.22	Tonday
Mean	6.14	44.08	38.41	13.60	61.46	730.17	1429.41	1663.71	47.06	41.62	25.90	29.02		Ton/day
Max	46.42	111.71	155.14	74.92	172.95	1864.87	3390.85	7071.86	97.51	89.78	53.52	50.64	7071.86	Ton/day
Min	0.97	7.12	1.20	0.00	17.16	89.78	257.86	97.51	23.64	21.41	6.73	9.59	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	25
R-Square	0.9122
Remarks	Continued Sediment Station

$$QS = 2.1010\ QW^{1.76210}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.68	82.71	56.56	0.53	16.31	980.49	187.95	324.04	64.80	38.38	18.63	0.76		
2	1.68	197.62	45.12	0.53	14.47	1098.55	169.24	656.92	60.62	60.62	18.63	0.96		
3	1.68	93.90	60.62	1.12	197.62	284.88	187.95	479.65	56.56	38.38	18.63	0.76		
4	1.68	128.86	78.06	1.36	64.80	114.30	136.42	284.88	60.62	35.19	29.17	0.96		
5	1.42	78.06	100.51	1.36	41.69	187.95	227.88	249.08	60.62	29.17	23.64	0.96		
6	1.42	38.38	217.59	1.12	32.12	925.20	1337.93	259.99	56.56	26.34	21.07	0.96		
7	1.42	18.63	197.62	1.12	32.12	1373.78	871.30	238.38	52.62	26.34	18.63	0.42		
8	1.42	12.73	87.48	2.49	26.34	515.89	534.43	324.04	56.56	26.34	21.07	0.42		
9	1.42	9.54	56.56	2.49	35.19	272.31	365.36	249.08	56.56	26.34	21.07	0.58		
10	1.42	9.54	35.19	73.52	38.38	169.24	272.31	217.59	60.62	29.17	21.07	0.42		
11	1.42	16.31	32.12	64.80	48.81	337.57	351.35	187.95	56.56	29.17	21.07	0.40		
12	1.42	18.63	35.19	18.63	56.56	1373.78	207.50	160.21	52.62	32.12	21.07	0.42		
13	1.42	14.47	35.19	5.52	178.49	793.08	297.69	160.21	48.81	29.17	18.63	0.42		
14	1.42	8.09	45.12	5.52	259.99	980.49	169.24	152.09	45.12	32.12	16.31	1.96		
15	1.42	9.54	29.17	2.18	152.09	925.20	107.31	144.16	45.12	29.17	0.58	0.76		
16	1.42	9.54	3.38	2.18	64.80	572.37	136.42	136.42	38.38	32.12	2.57	0.58		
17	1.18	35.19	8.09	1.36	41.69	310.74	87.48	136.42	41.69	29.17	2.25	0.58		
18	1.18	32.12	5.52	1.88	38.38	394.09	52.62	128.86	41.69	29.17	1.68	1.42		
19	1.18	29.17	8.09	5.52	29.17	227.88	52.62	107.31	41.69	26.34	1.42	9.61		
20	1.18	26.34	6.75	69.10	35.19	227.88	56.56	93.90	38.38	26.34	1.68	2.90		
21	1.18	16.31	2.18	178.49	87.48	217.59	310.74	93.90	26.34	23.64	2.25	2.57		
22	1.18	8.09	2.49	45.12	187.95	553.26	160.21	93.90	29.17	23.64	1.68	2.25		
23	1.18	18.63	1.88	26.34	93.90	379.61	1098.55	93.90	29.17	23.64	1.18	1.68		
24	1.18	26.34	1.36	32.12	64.80	297.69	553.26	87.48	32.12	23.64	0.96	1.68		
25	1.18	38.38	0.90	26.34	82.71	197.62	365.36	87.48	29.17	21.07	0.96	1.18		
26	1.42	41.69	0.90	21.07	52.62	144.16	238.38	82.71	38.38	21.07	0.96	1.42		
27	1.42	23.64	0.90	12.73	41.69	128.86	187.95	78.06	60.62	21.07	0.96	1.18		
28	93.90	12.73	0.90	12.73	69.10	152.09	444.55	64.80	52.62	21.07	0.96	1.68		
29	310.74	23.64	0.90	14.47	56.56	144.16	259.99	64.80	52.62	21.07		1.68		
30	178.49	18.63	0.53	26.34	52.62	197.62	207.50	64.80	45.12	21.07		2.57		
31		52.62		23.64	35.19		187.95		21.07	21.07		1.18		
Total	620.35	1150.07	1156.87	681.72	2228.83	14478.33	9824.00	5503.01	1452.60	873.21	308.78	45.32	38323.09	Tonday
Mean	20.68	37.10	38.56	21.99	71.90	482.61	316.90	183.43	46.86	28.17	11.03	1.46		Ton/day
Max	310.74	197.62	217.59	178.49	259.99	1373.78	1337.93	656.92	64.80	60.62	29.17	9.61	1373.78	Ton/day
Min	1.18	8.09	0.53	0.53	14.47	114.30	52.62	64.80	21.07	21.07	0.58	0.40	0.40	Ton/day

WATER YEAR : 2008

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

Drainge Area	3,367 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	2008
Number of observation	27
R-Square	0.9079
Remarks	Continued Sediment Station

$$QS = 2.7394\ QW^{1.30190}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	6.32	38.08	12.35	52.20	28.85	123.49	214.64	318.16	24.14	47.86	80.51	50.02		
2	4.25	13.17	5.05	41.93	19.64	169.48	139.24	665.88	22.61	50.02	38.08	38.08		
3	3.10	5.05	3.85	18.19	61.12	111.22	1057.39	1139.71	28.85	50.02	32.47	18.19		
4	5.89	6.32	3.47	6.32	38.08	52.20	337.52	1422.20	25.69	52.20	30.64	65.70		
5	6.32	3.85	2.74	3.47	24.14	61.12	202.95	438.68	27.26	50.02	19.64	65.70		
6	4.25	1.98	2.18	1.79	18.19	61.12	238.57	362.23	24.14	58.86	21.11	85.71		
7	6.32	1.79	1.79	2.39	75.40	132.89	318.16	234.46	24.14	45.86	19.64	38.08		
8	9.98	1.41	1.41	1.23	61.12	162.27	480.79	214.64	22.61	16.76	21.11	38.08		
9	15.36	1.23	1.59	1.23	68.02	111.22	313.44	285.48	43.89	9.98	19.64	28.85		
10	21.11	1.05	1.59	1.79	77.95	214.64	272.04	362.23	45.86	10.76	61.12	16.76		
11	50.02	1.41	1.41	6.32	93.64	120.40	276.30	347.36	45.86	11.55	111.22	19.64		
12	14.00	1.59	1.23	21.11	142.44	294.74	267.80	202.95	22.61	14.00	52.20	25.69		
13	19.64	5.47	1.23	36.18	111.22	290.10	255.18	184.10	21.11	36.18	52.20	32.47		
14	28.85	6.32	1.23	45.86	83.10	290.10	234.46	83.10	21.11	28.85	52.20	43.89		
15	38.08	6.32	1.05	96.31	77.95	347.36	214.64	96.31	41.93	18.19	52.20	52.20		
16	38.08	9.22	1.05	68.02	61.12	730.32	214.64	85.71	50.02	19.64	58.86	39.99		
17	28.85	9.98	0.89	50.02	90.98	470.18	158.70	77.95	52.20	25.69	47.86	58.86		
18	13.17	4.25	1.05	45.86	111.22	367.22	158.70	77.95	43.89	38.08	32.47	77.95		
19	6.32	5.47	1.05	32.47	85.71	540.72	152.15	234.46	21.11	47.86	24.14	32.47		
20	7.02	6.32	0.89	13.17	80.51	529.21	158.70	169.48	21.11	90.98	21.11	47.86		
21	2.18	4.25	0.72	9.22	61.12	829.49	214.64	93.64	21.11	61.12	21.11	63.40		
22	1.98	4.25	0.89	8.47	34.31	769.64	234.46	123.49	21.11	58.86	21.11	52.20		
23	6.32	4.25	2.39	7.02	34.31	1394.90	173.10	120.40	16.76	54.40	63.40	52.20		
24	7.74	2.39	21.11	7.74	7.74	1282.93	105.20	117.32	21.11	36.18	56.62	68.02		
25	3.10	2.39	9.22	6.32	7.74	342.43	230.46	83.10	28.85	38.08	19.64	83.10		
26	3.47	1.79	11.55	9.22	12.35	299.39	206.83	39.99	56.62	38.08	22.61	58.86		
27	1.23	1.79	24.14	21.11	15.36	377.25	202.95	34.31	63.40	47.86	38.08	132.89		
28	1.05	2.18	30.64	27.26	30.64	263.58	322.90	30.64	80.51	68.02	38.08	58.86		
29	7.74	1.98	43.89	39.99	65.70	206.83	214.64	28.85	63.40	77.95		58.86		
30	50.02	1.41	45.86	32.47	61.12	199.09	145.66	28.85	52.20	75.40		58.86		
31		14.00		34.31	45.86		263.58		43.89	77.95		58.86		
Total	411.76	170.96	237.51	748.99	1786.65	11145.53	7980.43	7703.63	1099.10	1357.26	1129.07	1622.30	35393.19	Tonday
Mean	13.73	5.51	7.92	24.16	57.63	371.52	257.43	256.79	35.45	43.78	40.32	52.33		Ton/day
Max	50.02	38.08	45.86	96.31	142.44	1394.90	1057.39	1422.20	80.51	90.98	111.22	132.89	1422.20	Ton/day
Min	1.05	1.05	0.72	1.23	7.74	52.20	105.20	28.85	16.76	9.98	19.64	16.76	0.72	Ton/day

WATER YEAR : 2008

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	2001-2008
Number of observation	152
R-Square	0.9395
Remarks	Continued Sediment Station

$$QS = 0.9078\ QW^{1.58410}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	24.22	22.56	54.09	9.66	47.43	247.77	393.50	6112.10	136.23	157.33	43.18	25.94		
2	16.34	14.90	45.29	10.89	51.83	174.99	620.68	10573.78	104.87	124.12	104.87	39.07		
3	29.49	19.36	54.09	10.89	54.09	153.02	909.26	6639.53	104.87	101.17	108.63	86.85		
4	31.32	45.29	124.12	10.89	43.18	227.06	1463.42	7500.39	108.63	93.91	104.87	10.89		
5	27.69	39.07	232.03	8.49	39.07	253.48	2025.73	6677.81	97.52	86.85	65.88	35.12		
6	37.07	39.07	184.09	20.93	68.34	253.48	2682.76	5256.53	93.91	86.85	51.83	31.32		
7	16.34	33.20	148.75	22.56	63.45	227.06	2552.52	2488.29	73.36	86.85	41.10	45.29		
8	16.34	29.49	112.43	17.82	136.23	319.42	2905.09	1658.69	68.34	101.17	35.12	54.09		
9	9.66	22.56	93.91	13.51	93.91	639.94	3469.33	1127.25	63.45	112.43	29.49	56.38		
10	7.37	19.36	140.36	8.49	90.36	611.13	2042.30	860.51	61.06	54.09	39.07	37.07		
11	6.31	27.69	108.63	6.31	83.40	454.50	1419.64	1100.72	58.70	47.43	35.12	33.20		
12	5.31	58.70	70.83	4.38	90.36	518.68	1249.52	789.26	56.38	47.43	25.94	80.00		
13	5.31	83.40	68.34	4.38	101.17	1113.96	1194.61	689.04	61.06	51.83	80.00	29.49		
14	4.38	86.85	68.34	5.31	144.53	1582.52	909.26	536.72	61.06	54.09	76.65	27.69		
15	6.31	70.83	56.38	4.38	202.77	1814.95	812.76	510.49	54.09	51.83	65.88	33.20		
16	17.82	112.43	101.17	5.31	247.77	1567.44	592.19	438.95	45.29	58.70	73.36	41.10		
17	17.82	166.07	68.34	6.31	247.77	1478.12	386.11	344.76	41.10	56.38	80.00	51.83		
18	24.22	116.28	58.70	20.93	212.36	1705.02	237.05	193.35	58.70	47.43	83.40	61.06		
19	19.36	86.85	45.29	33.20	179.52	1235.71	198.04	161.68	58.70	51.83	70.83	68.34		
20	16.34	112.43	37.07	33.20	148.75	1048.35	153.02	104.87	61.06	61.06	80.00	61.06		
21	13.51	148.75	33.20	56.38	157.33	1419.64	166.07	270.91	58.70	132.15	12.18	86.85		
22	12.18	108.63	25.94	54.09	128.11	1127.25	502.34	247.77	47.43	90.36	14.90	49.61		
23	19.36	73.36	24.22	43.18	120.18	1434.18	777.61	232.03	45.29	116.28	31.32	47.43		
24	76.65	56.38	20.93	39.07	108.63	1628.06	812.76	237.05	45.29	65.88	27.69	68.34		
25	45.29	45.29	16.34	39.07	76.65	1720.57	884.76	237.05	51.83	51.83	25.94	101.17		
26	24.22	47.43	13.51	68.34	76.65	1736.17	743.04	227.06	47.43	47.43	51.83	58.70		
27	16.34	144.53	12.18	148.75	108.63	766.02	984.22	212.36	54.09	43.18	27.69	76.65		
28	12.18	153.02	10.89	148.75	70.83	494.25	2092.29	170.51	70.83	41.10	19.36	58.70		
29	13.51	101.17	10.89	108.63	61.06	478.20	2214.50	144.53	90.36	37.07		83.40		
30	10.89	68.34	9.66	83.40	93.91	423.60	2595.66	144.53	124.12	49.61		68.34		
31		58.70		65.88	128.11		1878.89		161.68	144.53		58.70		
Total	583.15	2211.99	2050.01	1113.38	3476.38	26854.54	39868.93	55888.52	2265.43	2352.20	1506.13	1666.88	139837.54	Tonday
Mean	19.44	71.35	68.33	35.92	112.14	895.15	1286.09	1862.95	73.08	75.88	53.79	53.77		Ton/day
Max	76.65	166.07	232.03	148.75	247.77	1814.95	3469.33	10573.78	161.68	157.33	108.63	101.17	10573.78	Ton/day
Min	4.38	14.90	9.66	4.38	39.07	153.02	153.02	104.87	41.10	37.07	12.18	10.89	4.38	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	16
R-Square	0.9053
Remarks	Continued Sediment Station

$$QS = 0.6236\ QW^{1.52950}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.3	94.3	199.6	75.5	1306.5	2625.4	1762.0	1727.8	151.6	160.0	51.9	35.3		
2	13.3	65.7	213.5	87.8	1233.2	2203.7	1936.6	1762.0	139.7	151.6	51.9	35.3		
3	15.3	97.5	248.2	218.2	1161.3	1901.2	2102.2	10737.3	125.0	143.4	51.9	33.4		
4	24.1	248.2	428.5	660.4	1104.9	1744.9	1831.2	7320.7	114.4	139.7	49.7	30.2		
5	29.0	314.6	450.7	895.2	1021.6	2203.7	1813.8	4227.8	97.5	139.7	49.7	27.7		
6	30.2	308.9	357.5	951.9	906.5	3233.9	1918.9	3327.8	94.3	136.0	47.5	25.3		
7	33.4	297.5	237.7	177.2	850.7	3118.0	1901.2	2801.0	94.3	132.3	47.5	25.3		
8	39.2	286.3	222.9	195.1	2823.3	2801.0	1954.4	1990.1	94.3	132.3	47.5	24.1		
9	65.7	264.3	213.5	264.3	5177.4	3351.3	2668.9	1678.3	91.0	128.6	47.5	21.8		
10	65.7	242.9	357.5	242.9	7014.9	6049.2	2668.9	1442.2	91.0	117.9	45.4	19.5		
11	58.6	164.3	680.8	496.7	11787.4	6049.2	3210.5	1321.4	91.0	100.8	45.4	19.5		
12	39.2	227.7	701.3	529.8	7512.3	5346.5	3527.7	1218.7	87.8	94.3	45.4	20.6		
13	37.3	222.9	691.0	504.9	7368.5	5976.1	3351.3	1045.2	87.8	91.0	43.3	19.5		
14	33.4	222.9	651.4	521.4	3813.6	6122.6	3304.2	701.3	87.8	78.5	43.3	19.5		
15	31.5	218.2	607.0	488.5	3656.7	6702.9	3118.0	615.8	87.8	68.1	43.3	18.4		
16	30.2	213.5	280.7	480.9	3451.1	11840.8	2102.2	572.2	87.8	63.3	43.3	17.4		
17	31.5	208.8	303.2	546.6	3840.0	17605.3	1262.3	538.2	87.8	56.3	43.3	16.3		
18	37.3	208.8	303.2	572.2	4714.3	11680.9	1057.0	488.5	87.8	56.3	43.3	16.3		
19	43.3	204.2	280.7	670.6	4584.7	6012.6	975.0	450.7	84.7	56.3	41.3	15.3		
20	47.5	213.5	253.5	774.7	4398.9	5794.7	884.0	385.4	84.7	56.3	39.2	15.3		
21	49.7	204.2	147.5	1092.9	4227.8	6531.7	807.0	297.5	84.7	56.3	30.2	14.3		
22	49.7	204.2	132.3	1488.4	4003.5	5380.5	1009.8	258.9	84.7	56.3	29.0	13.3		
23	51.9	155.8	111.0	4284.6	3892.9	4171.4	2411.3	222.9	84.7	56.3	27.7	12.4		
24	63.3	132.3	104.2	4714.3	3280.7	3787.3	2582.1	164.3	84.7	56.3	26.5	12.4		
25	65.7	121.5	94.3	4087.1	2867.9	3892.9	2668.9	164.3	84.7	56.3	30.2	9.7		
26	63.3	114.4	91.0	3579.1	2369.3	2801.0	2890.4	164.3	81.6	54.1	31.5	30.2		
27	63.3	117.9	84.7	2474.8	2142.7	2734.7	3094.9	160.0	81.6	51.9	31.5	30.2		
28	63.3	136.0	75.5	2265.3	2560.5	4031.3	3210.5	155.8	78.5	51.9	35.3	41.3		
29	70.5	172.9	65.7	1762.0	3425.7	3708.7	3118.0	155.8	78.5	51.9		58.6		
30	78.5	199.6	56.3	1442.2	3527.7	1366.2	1972.2	155.8	75.5	51.9		68.1		
31		208.8		1381.3	2913.0		1744.9		75.5	51.9		39.2		
Total	1338.0	6092.5	8644.7	37926.8	112939.1	150769.4	68860.3	46251.8	2862.5	2697.7	1163.6	785.7	440331.9	Tonday
Mean	44.6	196.5	288.2	1223.4	3643.2	5025.7	2221.3	1541.7	92.3	87.0	41.6	25.3		Ton/day
Max	78.5	314.6	701.3	4714.3	11787.4	17605.3	3527.7	10737.3	151.6	160.0	51.9	68.1	17605.3	Ton/day
Min	13.3	65.7	56.3	75.5	850.7	1366.2	807.0	155.8	75.5	51.9	26.5	9.7	9.7	Ton/day

WATER YEAR : 2008

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

Drainge 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	1997-2008
Number of observation	239
R-Square	0.7388
Remarks	Continued Sediment Station

$$QS = 2.4418\ QW^{1.10270}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.81	1.19	1.09	3.96	0.79	1.29	2.99	138.73	2.17	10.03	10.49	10.18		
2	3.68	1.19	1.09	3.96	0.79	1.54	2.71	1000.56	2.17	10.03	10.49	10.18		
3	3.68	2.39	1.39	3.96	0.79	1.24	9.72	418.28	2.12	10.03	10.64	10.18		
4	4.38	1.44	1.65	3.82	1.44	1.19	1.91	171.42	2.12	9.87	10.64	10.18		
5	4.24	0.89	1.70	3.82	0.89	1.14	1.49	72.31	2.12	9.72	10.64	10.18		
6	4.24	0.79	1.70	3.82	0.94	1.24	3.12	39.91	2.07	9.72	10.49	10.18		
7	4.24	0.74	2.12	0.99	0.94	1.19	9.87	30.59	2.07	9.72	10.33	10.18		
8	4.10	0.74	2.17	0.99	0.89	2.07	2.17	27.03	2.23	9.72	10.33	10.33		
9	4.10	0.74	2.17	0.99	0.84	2.01	3.68	23.02	2.44	9.72	10.49	10.33		
10	0.21	0.74	2.12	0.94	0.84	1.39	1.75	20.55	2.44	9.72	10.49	10.33		
11	0.21	0.79	2.39	0.94	1.09	1.19	1.75	12.67	2.44	9.72	10.64	10.18		
12	0.21	0.94	4.38	0.84	1.09	1.60	4.67	8.20	2.33	10.03	10.64	10.18		
13	0.21	0.94	4.38	0.84	1.04	2.01	2.07	5.53	2.33	10.03	10.64	10.18		
14	0.94	0.89	4.38	0.84	0.99	1.54	1.86	4.81	2.39	10.03	10.64	10.18		
15	0.89	0.84	4.96	0.84	0.94	1.44	1.54	4.10	2.39	10.18	10.64	10.18		
16	0.84	3.96	4.53	0.84	0.84	1.60	1.49	3.54	2.39	10.18	10.49	10.18		
17	0.79	1.65	4.38	0.84	0.84	2.99	1.49	3.26	2.58	10.18	10.49	10.18		
18	1.24	1.29	4.38	0.84	0.84	1.80	1.44	2.99	2.58	10.18	10.49	10.18		
19	1.24	1.09	4.24	0.84	0.84	1.60	1.44	2.71	2.44	10.33	10.49	10.18		
20	0.70	1.29	3.54	0.84	0.84	1.80	1.44	2.58	2.44	10.33	10.49	10.33		
21	0.60	1.24	2.33	0.94	0.99	1.75	2.12	2.44	2.44	10.33	10.49	10.33		
22	0.60	1.19	2.28	0.94	0.94	1.49	1.65	2.39	2.71	10.33	10.49	10.18		
23	1.60	1.24	2.23	0.94	0.89	1.44	1.60	2.39	3.82	10.49	10.33	10.18		
24	0.89	1.24	2.39	0.89	0.89	1.39	1.54	2.23	5.68	10.49	10.33	10.33		
25	0.99	1.24	3.96	0.89	0.84	1.39	1.91	1.91	5.83	10.18	10.18	7.30		
26	0.89	1.24	3.96	0.89	0.84	1.39	3.54	1.80	5.83	10.18	10.18	7.15		
27	0.99	1.24	3.96	0.89	0.99	1.39	2.12	1.80	5.97	10.33	10.33	7.00		
28	0.84	1.19	3.96	0.89	2.58	1.44	1.91	1.80	6.85	10.33	10.33	3.54		
29	0.84	1.19	3.96	0.89	6.12	1.44	1.19	2.33	10.18	10.33		3.26		
30	1.34	1.19	3.96	0.89	4.10	1.39	0.99	2.12	10.18	10.49		3.26		
31		1.19		0.89	2.23		11.73		10.03	10.49		3.26		
Total	54.53	37.92	91.75	45.69	39.91	46.38	88.90	2014.00	115.78	313.44	293.34	279.99	3421.63	Tonday
Mean	1.82	1.22	3.06	1.47	1.29	1.55	2.87	67.13	3.73	10.11	10.48	9.03		Ton/day
Max	4.81	3.96	4.96	3.96	6.12	2.99	11.73	1000.56	10.18	10.49	10.64	10.33	1000.56	Ton/day
Min	0.21	0.74	1.09	0.84	0.79	1.14	0.99	1.80	2.07	9.72	10.18	3.26	0.21	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	26
R-Square	0.9760
Remarks	Continued Sediment Station

$$QS = 0.1270\ QW^{1.98160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	7.82	312.07	382.38	2189.97	50278.33	14818.56	3050.01	1134.67	219.12	99.02	18.94	3.93		
2	9.34	552.92	738.73	1478.75	27207.98	22560.03	2745.33	1190.05	219.12	92.99	18.94	3.31		
3	12.78	219.12	673.84	4054.93	25104.29	16380.09	2363.81	1617.02	209.43	87.14	16.76	3.31		
4	16.76	155.88	1989.44	15736.11	21431.19	11804.12	2272.85	2745.33	199.97	81.47	14.70	3.93		
5	12.78	155.88	9794.29	8698.84	29912.20	10954.06	2946.69	2149.10	199.97	70.72	14.70	3.93		
6	11.00	132.03	8912.78	9794.29	55664.11	25710.54	4736.85	1652.54	190.71	60.93	18.94	3.31		
7	70.72	240.84	6504.72	6679.17	86209.21	22180.56	4449.70	1411.92	181.68	56.30	16.76	2.74		
8	47.60	312.07	3496.84	5829.80	202471.13	14382.06	7034.93	1251.53	172.86	51.86	16.76	2.74		
9	21.26	209.43	1950.48	12565.29	130076.44	11314.52	4589.89	1190.05	172.86	43.52	14.70	2.74		
10	12.78	229.85	1282.84	9238.52	78330.87	9020.72	3678.32	1107.47	164.26	43.52	12.78	2.22		
11	7.82	429.64	853.46	6855.91	57753.74	7399.84	4589.89	806.58	164.26	43.52	11.00	2.22		
12	7.82	976.37	1346.61	4811.19	77478.58	6162.68	4886.11	738.73	155.88	39.62	11.00	2.22		
13	7.82	515.25	25305.58	5037.66	135871.23	5912.16	3050.01	673.84	155.88	39.62	9.34	1.76		
14	11.00	263.56	44656.38	31099.91	84870.19	9129.30	2409.96	632.22	147.71	39.62	9.34	1.76		
15	9.34	181.68	21431.19	25914.22	57753.74	13668.92	2068.51	591.91	139.76	35.90	6.94	1.76		
16	47.60	118.26	8912.78	11073.57	37304.63	9238.52	1911.90	552.92	118.26	35.90	6.94	1.76		
17	56.30	92.99	4886.11	7773.88	25305.58	7034.93	1724.74	533.92	132.03	35.90	6.94	1.76		
18	51.86	87.14	2745.33	17875.80	30375.24	6855.91	1478.75	496.90	125.05	35.90	6.11	2.22		
19	29.01	155.88	2409.96	86657.86	59881.51	7216.24	1445.15	479.63	118.26	32.37	6.11	3.31		
20	18.94	312.07	2551.04	142389.97	30375.24	10954.06	1445.15	446.00	111.66	32.37	6.94	5.33		
21	26.30	139.76	3261.95	122173.96	28996.69	9570.05	1761.40	413.58	105.25	32.37	6.94	3.31		
22	51.86	118.26	2895.69	65741.91	24505.21	10482.44	2845.13	382.38	99.02	32.37	6.94	2.74		
23	51.86	496.90	2998.13	46145.20	19259.64	9348.39	2318.11	367.23	87.14	32.37	6.94	3.31		
24	51.86	1873.71	1798.46	34132.43	15418.92	6591.66	2108.61	337.84	81.47	32.37	6.94	2.74		
25	35.90	533.92	1379.07	46747.50	16871.46	4961.60	2189.97	324.83	87.14	26.30	5.33	2.74		
26	29.01	352.38	1080.60	33106.06	38943.08	4184.50	1873.71	299.56	81.47	26.30	3.93	2.22		
27	47.60	337.84	806.58	24109.80	53612.64	3678.32	1478.75	275.31	155.88	23.71	3.31	2.22		
28	229.85	429.64	783.64	17706.41	54292.22	3261.95	1346.61	263.56	275.31	23.71	3.93	2.74		
29	515.25	312.07	1724.74	26551.76	28996.69	3261.95	1314.53	252.07	172.86	23.71		3.31		
30	252.07	219.12	3739.83	44656.38	18216.97	3864.35	1220.60	229.85	132.03	21.26		2.74		
31		229.85		42037.47	13249.67		1251.53		111.66	21.26		1.76		
Total	1761.91	10696.38	171293.47	918864.52	1616018.62	301903.03	82587.50	24548.54	4687.96	1353.92	288.90	86.09	3134090.84	Tonday
Mean	58.73	345.04	5709.78	29640.79	52129.63	10063.43	2664.11	818.28	151.22	43.67	10.32	2.78		Ton/day
Max	515.25	1873.71	44656.38	142389.97	202471.13	25710.54	7034.93	2745.33	275.31	99.02	18.94	5.33	202471.13	Ton/day
Min	7.82	87.14	382.38	1478.75	13249.67	3261.95	1220.60	229.85	81.47	21.26	3.31	1.76	1.76	Ton/day

WATER YEAR : 2008

NAN RIVER BASIN

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

Lat 17 - 01 - 56 N Long 100 - 22 - 20 E

Location : on left bank about 1 kilometer downstream from District Forestry Office.

Ban Yang **Amphoe** Wat Bot **Changwat** Phitsanulok

Drainge Area	4,764 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1963 - 1971,1997 - Cont'd
Actual Measurement	1963 - 1971,1997 - Cont'd
Using Rating Curve Water Year	2008
Number of observation	18
R-Square	0.8861
Remarks	Continued Sediment Station

$$QS = 3.2330\ QW^{1.30820}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	25.85	109.30	286.98	76.69	726.51	539.76	2384.38	69.20	2.74	2.14	463.44	937.46		
2	25.17	189.90	165.45	131.61	1415.84	659.12	2263.87	111.73	2.61	2.03	923.01	865.75		
3	23.13	522.87	119.09	170.82	1761.67	774.59	2263.87	74.47	56.44	1.95	901.44	774.59		
4	23.80	573.90	81.18	227.14	1771.01	726.51	2087.37	35.17	16.65	1.95	1084.78	665.79		
5	71.82	473.00	102.09	699.37	1817.86	809.37	1925.75	90.33	3.66	1.84	988.44	384.10		
6	109.30	370.47	147.00	477.79	1799.08	645.83	1771.01	83.44	2.94	1.77	1025.24	16.65		
7	60.20	121.57	823.38	334.71	1771.01	568.17	1678.17	65.31	2.61	1.66	1077.29	40.84		
8	73.14	85.72	706.13	237.56	1724.44	858.65	1641.37	31.87	12.43	1.66	1077.29	38.55		
9	69.20	66.60	726.51	216.83	1595.64	1213.85	1550.22	32.96	3.23	1.59	1047.48	19.83		
10	70.51	65.31	506.81	253.39	1322.64	1260.20	1595.64	32.96	2.82	1.48	1114.84	16.03		
11	67.89	88.02	230.60	216.83	830.41	1213.85	1595.64	27.59	2.53	1.66	1167.90	14.20		
12	65.31	183.31	216.83	162.78	747.03	1122.38	1577.43	22.46	2.61	1.77	1160.29	10.16		
13	64.02	189.90	230.60	157.48	1084.78	1213.85	1299.14	17.27	2.53	1.77	1152.68	8.53		
14	58.94	213.42	199.90	152.22	1236.97	995.78	699.37	13.61	2.41	1.59	1129.94	18.54		
15	57.69	147.00	223.69	152.22	1532.14	2006.18	522.87	10.16	2.34	1.31	1137.51	19.83		
16	53.97	102.09	308.46	147.00	1724.44	2075.73	733.34	8.01	2.41	1.24	1152.68	22.46		
17	51.52	74.47	497.10	139.25	1846.11	2228.30	685.89	6.98	2.14	0.91	1183.17	23.80		
18	50.30	61.47	339.13	139.25	1925.75	2608.21	632.60	6.47	2.14	0.67	1213.85	27.59		
19	49.09	67.89	522.87	157.48	1925.75	3097.21	591.15	5.50	2.03	0.61	1213.85	26.55		
20	47.89	88.02	261.70	468.21	1874.46	5565.66	620.17	9.07	2.14	0.53	1129.94	10.16		
21	44.33	99.71	241.05	652.47	1883.94	6547.61	706.13	23.13	2.14	0.47	1145.09	2.41		
22	38.55	206.63	223.69	816.37	1865.00	4604.30	568.17	18.54	2.22	0.34	1114.84	10.72		
23	39.69	402.45	203.26	966.51	1994.64	4529.56	733.34	3.23	2.22	0.34	1062.36	2.82		
24	62.74	325.90	165.45	1099.78	1715.16	3152.74	551.08	2.82	2.14	0.27	1010.48	1.48		
25	111.73	230.60	121.57	1291.33	1568.35	2809.55	416.34	22.46	2.03	0.34	930.23	1.48		
26	70.51	203.26	99.71	1283.53	1380.49	4288.68	90.33	43.16	2.14	0.39	937.46	1.24		
27	66.60	223.69	83.44	1152.68	837.45	4473.70	40.84	40.84	2.03	0.82	1114.84	1.48		
28	71.82	291.25	71.82	995.78	719.71	4251.89	56.44	18.54	2.14	1.41	1114.84	7.49		
29	66.60	375.00	67.89	1069.82	699.37	3533.53	45.51	14.20	2.14	2.74		11.86		
30	74.47	375.00	65.31	1003.12	591.15	2742.04	50.30	18.54	2.14	2.82		13.61		
31		334.71		851.57	608.53		64.02		2.14	2.82		12.43		
Total	1765.78	6862.43	8038.69	15901.59	44297.33	71116.80	31441.75	960.02	152.89	42.89	29775.20	4008.43	214363.80	Tonday
Mean	58.86	221.37	267.96	512.95	1428.95	2370.56	1014.25	32.00	4.93	1.38	1063.40	129.30		Ton/day
Max	111.73	573.90	823.38	1291.33	1994.64	6547.61	2384.38	111.73	56.44	2.82	1213.85	937.46	6547.61	Ton/day
Min	23.13	61.47	65.31	76.69	591.15	539.76	40.84	2.82	2.03	0.27	463.44	1.24	0.27	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	16
R-Square	0.9400
Remarks	Continued Sediment Station

$$QS = 1.4854\ QW^{1.60410}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.88	359.00	101.83	267.96	1646.72	521.28	1369.07	441.26	107.15	40.90	20.91	13.18		
2	4.88	495.32	73.66	203.04	2201.75	774.77	1362.84	937.01	101.83	39.25	20.27	12.64		
3	4.88	328.45	116.24	910.15	3077.72	491.08	1444.60	695.90	96.61	37.63	19.64	12.11		
4	5.45	174.26	387.64	1047.65	2574.98	408.18	1369.07	883.32	63.08	36.03	19.64	11.59		
5	6.25	98.34	629.31	953.27	1375.30	426.10	1294.76	846.63	93.19	35.24	19.01	13.18		
6	11.08	60.18	538.71	629.31	846.63	456.61	1192.32	1264.39	89.81	34.46	19.01	12.64		
7	18.39	41.73	592.52	465.92	638.63	624.66	2574.98	2399.84	84.84	33.69	19.01	12.11		
8	11.08	33.69	878.04	486.85	662.17	1093.09	1646.72	2351.91	81.59	32.92	18.39	12.11		
9	7.97	26.31	779.81	336.68	958.71	1030.80	1515.51	1139.53	78.38	32.16	18.39	11.59		
10	27.73	22.22	459.70	273.04	676.45	986.10	1638.38	695.90	75.22	31.40	17.78	11.59		
11	33.69	47.74	312.23	301.58	512.64	695.90	1186.41	491.08	73.66	30.65	17.78	11.08		
12	43.42	280.72	390.55	265.44	456.61	734.94	920.86	408.18	70.57	29.91	17.18	11.08		
13	46.87	118.09	243.13	235.86	754.76	21123.60	720.21	359.00	69.05	29.18	17.18	10.58		
14	21.56	66.04	187.34	260.42	5529.74	16150.78	691.08	331.19	67.54	29.18	16.58	10.08		
15	16.58	44.27	203.04	203.04	2840.36	7390.08	774.77	306.89	63.08	28.45	16.00	10.08		
16	24.91	44.27	465.92	205.32	1824.86	5458.76	534.33	285.88	60.18	28.45	16.00	10.08		
17	15.42	32.92	314.91	165.74	1104.56	7229.09	450.44	265.44	55.91	27.01	15.42	10.58		
18	10.58	27.73	214.55	275.59	725.10	5889.79	408.18	250.48	54.52	26.31	15.42	10.08		
19	8.20	35.24	245.57	671.67	529.97	5987.24	364.66	231.06	51.77	25.61	14.85	10.08		
20	8.42	28.45	387.64	1850.96	450.44	6358.02	336.68	214.55	50.41	25.61	14.28	10.08		
21	7.31	70.57	450.44	2220.41	894.17	7617.72	328.45	198.51	48.63	24.91	14.28	11.59		
22	11.08	135.24	291.08	1680.25	980.60	5388.13	323.01	187.34	47.74	24.91	14.28	11.08		
23	18.39	165.74	205.32	1463.73	686.27	3618.43	624.66	174.26	47.74	24.23	15.42	10.58		
24	43.42	96.61	200.77	841.43	478.44	2525.76	551.93	165.74	46.87	24.23	16.00	12.11		
25	72.11	273.04	145.15	633.96	381.84	1764.83	408.18	155.31	46.00	23.55	15.42	13.18		
26	22.22	205.32	118.09	426.10	810.53	1375.30	314.91	147.16	44.27	22.88	14.28	14.85		
27	28.45	180.75	147.16	565.26	556.36	1127.92	280.72	139.17	43.42	22.88	13.73	27.01		
28	12.64	267.96	107.15	601.64	426.10	1098.82	320.30	129.43	41.73	22.22	13.18	35.24		
29	64.56	331.19	125.60	583.23	695.90	1008.50	333.93	118.09	41.73	21.56		23.55		
30	133.29	267.96	116.24	450.44	402.27	1572.55	280.72	110.75	41.73	21.56		21.56		
31		155.31		378.96	384.74		291.08		40.90	20.91		28.45		
Total	745.71	4514.66	9429.34	19854.90	36085.32	110928.83	25853.76	16325.20	1979.15	887.88	469.33	435.74	227509.82	Tonday
Mean	24.86	145.63	314.31	640.48	1164.04	3697.63	833.99	544.17	63.84	28.64	16.76	14.06		Ton/day
Max	133.29	495.32	878.04	2220.41	5529.74	21123.60	2574.98	2399.84	107.15	40.90	20.91	35.24	21123.60	Ton/day
Min	4.88	22.22	73.66	165.74	381.84	408.18	280.72	110.75	40.90	20.91	13.18	10.08	4.88	Ton/day

WATER YEAR : 2008

NAN RIVER BASIN

Khwae Noi River 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

Drainge 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	2000-2008
Number of observation	132
R-Square	0.7712
Remarks	Continued Sediment Station

$$QS = 5.4793\ QW^{1.34010}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	19.21	527.33	132.10	332.36	1095.11	592.17	3293.19	1267.35	557.26	295.45	39.90	30.49		
2	23.88	1439.72	104.11	561.53	1555.60	898.56	2160.33	1910.82	544.48	271.07	38.69	33.95		
3	24.96	888.93	166.04	649.98	4205.58	1296.67	1888.79	1296.67	531.55	253.82	36.30	35.12		
4	39.90	225.10	1320.25	319.94	4835.13	845.39	1830.79	1874.25	531.55	229.82	35.12	37.49		
5	71.51	115.90	1326.16	472.63	2655.46	672.53	1617.49	2177.08	527.33	206.45	33.95	37.49		
6	84.47	83.00	1617.49	379.80	1673.71	1343.93	1751.96	2669.58	506.15	174.83	39.90	42.35		
7	80.09	78.64	1809.32	241.84	1226.60	1549.44	3003.04	2035.76	489.31	153.09	41.12	39.90		
8	126.05	57.78	1061.45	197.28	1078.25	1163.24	2984.14	1629.94	476.73	136.24	42.35	32.79		
9	63.18	44.84	518.69	166.04	1355.81	1232.40	2553.68	3644.91	464.22	119.90	43.59	26.04		
10	49.92	39.90	292.42	159.62	1273.20	1244.02	1994.65	2768.92	460.15	101.02	38.69	26.04		
11	43.59	672.53	237.05	220.39	962.61	845.39	1766.26	1648.66	447.99	83.00	38.69	21.57		
12	85.95	423.46	232.29	163.95	913.33	708.86	1343.93	1320.25	427.67	72.92	33.95	20.02		
13	67.31	119.90	557.26	134.25	1623.71	1343.93	1157.53	1174.70	411.56	64.55	31.64	21.57		
14	48.63	72.92	452.03	134.25	3969.50	3675.52	1168.97	1095.11	395.59	59.12	28.25	22.30		
15	36.30	61.82	335.49	148.83	5395.27	9319.82	1220.80	1028.05	391.68	56.45	24.96	24.96		
16	126.05	55.13	316.85	157.38	3891.58	15423.56	937.89	952.54	379.80	56.45	23.88	24.96		
17	49.92	68.71	251.49	153.09	2475.42	12418.10	769.28	1500.42	372.07	55.13	26.04	18.51		
18	33.95	84.47	241.84	292.42	1673.71	12054.29	686.00	1273.20	368.00	53.81	33.95	19.21		
19	33.95	72.92	313.77	605.47	1203.46	8670.94	618.59	835.65	356.51	52.51	41.12	20.02		
20	32.79	535.77	326.13	1723.46	983.94	6780.90	557.26	783.47	344.91	51.21	57.78	27.14		
21	32.79	307.63	280.99	2492.76	1648.66	6024.81	527.33	773.91	341.76	49.92	47.36	41.12		
22	33.95	609.83	186.05	2135.27	1543.29	4687.89	518.69	755.40	332.36	48.63	37.49	43.59		
23	39.90	239.35	144.60	3462.64	1157.53	3215.21	1654.92	732.17	332.36	47.36	37.49	35.12		
24	67.31	123.94	115.90	2492.76	816.51	2449.47	1809.32	708.86	335.49	46.10	36.30	35.12		
25	64.55	119.90	96.44	1773.26	672.53	1355.81	1151.82	686.00	332.36	46.10	31.64	32.79		
26	78.64	227.55	90.40	1617.49	764.64	1290.79	788.13	663.34	329.24	44.84	31.64	96.44		
27	84.47	411.56	80.09	1751.96	769.28	1970.09	783.47	640.86	329.24	43.59	30.49	690.76		
28	87.42	443.73	75.77	1673.71	672.53	2068.79	600.87	614.21	329.24	43.59	29.37	256.35		
29	90.40	821.48	128.00	1500.42	879.06	2011.07	755.40	596.52	329.24	42.35		136.24		
30	627.62	544.48	132.10	1180.44	727.34	1986.46	600.87	574.65	332.36	41.12		77.20		
31		195.09		957.71	695.28		614.21		326.13	39.90		67.31		
Total	2348.66	9713.31	12942.57	28252.93	54393.63	109140.05	43109.60	39633.25	12634.29	3040.34	1011.65	2073.96	318294.24	Tonday
Mean	78.29	313.33	431.42	911.38	1754.63	3638.00	1390.63	1321.11	407.56	98.08	36.13	66.90		Ton/day
Max	627.62	1439.72	1809.32	3462.64	5395.27	15423.56	3293.19	3644.91	557.26	295.45	57.78	690.76	15423.56	Ton/day
Min	19.21	39.90	75.77	134.25	672.53	592.17	518.69	574.65	326.13	39.90	23.88	18.51	18.51	Ton/day

WATER YEAR : 2008

NAN RIVER BASIN

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

Lat 17 - 13 - 07 N Long 100 - 21 - 14 E

Location : on left bank about 2 kilometers upstream, Ban Nong Bon.

Ban Nong Bon **Amphoe** Wat Bot **Changwat** Phitsanulok

Drainge Area	4,264 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	2002-2008
Number of observation	229
R-Square	0.7946
Remarks	Continued Sediment Station

$$QS = 3.0445\ QW^{1.38350}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	21.81	160.95	267.36	150.91	927.16	608.05	3440.80	8.22	2.24	2.04	3823.42	1371.23		
2	20.72	244.35	176.32	176.32	1721.55	575.38	3206.54	34.65	3.69	2.04	4334.73	1156.29		
3	21.81	657.98	131.40	270.28	2278.00	597.11	3148.69	8.22	117.27	2.04	4421.65	1069.80		
4	37.16	548.55	105.84	332.72	2491.66	761.02	3048.17	9.93	2.24	2.04	4491.53	778.59		
5	101.36	298.42	208.21	960.21	2863.92	799.23	2877.98	29.79	6.60	2.04	3426.03	166.03		
6	90.41	192.08	537.91	813.07	2821.85	657.98	2669.10	18.60	2.43	2.04	3974.94	63.64		
7	94.75	119.59	1069.80	279.08	2696.70	766.86	2614.15	4.38	2.24	2.04	3589.51	7.40		
8	92.57	94.75	918.95	279.08	2600.46	1289.44	2147.20	4.38	2.24	2.04	2991.14	1.68		
9	92.57	81.90	890.36	267.36	2682.89	1819.92	2173.19	5.09	2.24	2.04	2532.31	1.50		
10	90.41	71.59	495.96	364.06	2278.00	1852.22	2330.92	2.84	2.24	2.04	2948.56	0.71		
11	84.00	126.64	238.69	227.47	1408.03	1548.37	2397.53	2.43	2.24	2.04	3005.37	0.33		
12	67.58	171.16	233.06	202.79	1510.59	1156.29	2451.20	2.43	2.24	2.04	2948.56	0.22		
13	54.07	235.87	244.35	192.08	1721.55	785.45	1897.20	2.63	2.04	2.04	2849.88	0.22		
14	52.21	216.41	233.06	192.08	1908.49	1780.39	511.58	5.09	2.04	2.04	2807.87	0.13		
15	52.21	143.51	261.56	200.10	2304.42	2532.31	437.34	4.38	2.04	2.04	2779.96	0.13		
16	59.76	103.60	321.18	200.10	2696.70	3091.14	630.11	2.84	2.04	2.04	2696.70	0.13		
17	52.21	92.57	602.57	173.73	2738.24	3455.59	591.66	2.63	2.04	2.04	2641.59	0.13		
18	48.54	71.59	372.02	168.59	3062.48	4093.90	537.91	2.43	2.04	2.04	2627.86	0.13		
19	48.54	69.58	731.98	233.06	2934.41	4509.05	501.15	2.84	2.04	2.04	2410.92	0.13		
20	46.73	126.64	276.14	416.61	2934.41	5091.96	475.34	16.55	2.04	2.04	1953.83	46.73		
21	39.71	171.16	267.36	575.38	2849.88	8896.17	506.36	42.30	2.04	2.04	1780.39	48.54		
22	37.16	328.86	261.56	1217.93	2976.93	5032.07	429.02	5.83	2.04	2.04	1770.55	48.54		
23	38.43	380.02	224.69	1653.60	2920.27	6741.46	298.42	2.84	2.04	2.04	1721.55	50.36		
24	105.84	309.74	181.54	1653.60	2478.15	4179.47	6.60	3.04	2.04	2.04	1576.88	59.76		
25	105.84	244.35	158.42	1841.02	2186.22	4231.05	3.69	71.59	2.04	2.04	1173.81	119.59		
26	94.75	230.26	145.97	1800.13	1682.63	6915.58	2.04	94.75	2.04	2.04	1271.46	197.42		
27	94.75	250.05	112.66	1454.40	847.96	6698.39	1.86	5.09	2.04	114.96	1780.39	258.67		
28	90.41	352.22	99.14	1380.41	1010.38	6205.68	1.50	2.43	2.04	559.24	1780.39	305.96		
29	101.36	404.31	94.75	1663.26	927.16	4685.27	1.50	2.24	2.04	2056.93		340.49		
30	117.27	340.49	92.57	1454.40	833.96	3941.13	1.33	2.43	2.04	3806.68		553.88		
31		356.16		993.58	691.86		2.04		2.04	4076.85		669.22		
Total	2054.94	7195.35	9955.38	21787.41	65986.91	95297.93	39342.12	402.89	186.67	10667.70	76111.78	7317.58	336306.66	Tonday
Mean	68.50	232.11	331.85	702.82	2128.61	3176.60	1269.10	13.43	6.02	344.12	2718.28	236.05		Ton/day
Max	117.27	657.98	1069.80	1841.02	3062.48	8896.17	3440.80	94.75	117.27	4076.85	4491.53	1371.23	8896.17	Ton/day
Min	20.72	69.58	92.57	150.91	691.86	575.38	1.33	2.24	2.04	2.04	1173.81	0.13	0.13	Ton/day

WATER YEAR : 2008

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

Drainge Area	971 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1983 - Cont'd,1994 - Cont'd
Actual Measurement	1983 - Cont'd,1994 - Cont'd
Using Rating Curve Water Year	2001-2008
Number of observation	128
R-Square	0.7446
Remarks	Continued Sediment Station

$$QS = 3.4299\ QW^{1.33900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.77	52.76	25.32	41.19	416.07	251.25	186.23	284.18	50.93	25.32	16.62	12.20		
2	10.77	59.28	18.22	40.33	381.33	247.17	182.45	304.03	49.12	24.64	16.62	12.20		
3	81.96	43.79	21.44	52.76	296.47	153.19	245.14	203.47	46.44	23.96	16.14	13.16		
4	28.80	30.23	47.33	271.89	391.96	117.03	143.54	148.29	44.67	22.61	15.60	16.62		
5	20.35	26.70	24.64	114.01	193.84	97.81	112.56	225.05	42.92	20.86	15.60	15.60		
6	19.28	21.95	26.01	77.89	129.31	135.56	301.46	459.97	41.19	20.86	15.60	14.60		
7	16.62	18.71	36.10	54.60	108.02	121.65	291.51	289.11	40.33	20.86	15.60	12.65		
8	21.95	14.60	42.92	47.33	96.31	304.03	241.09	368.06	38.62	20.35	15.60	11.70		
9	19.77	14.14	39.47	38.62	120.07	306.46	253.29	263.58	38.62	20.35	15.13	11.26		
10	14.60	11.70	30.95	36.10	114.01	235.04	237.05	233.03	36.94	20.35	15.13	11.26		
11	13.16	13.62	23.96	49.12	105.07	145.08	231.03	211.25	35.35	19.77	15.13	11.26		
12	12.65	14.60	21.95	37.78	112.56	141.89	167.54	162.03	34.61	19.77	14.60	11.26		
13	11.70	16.14	30.23	29.51	471.11	451.73	207.35	148.29	33.87	19.77	14.60	11.26		
14	11.26	17.17	30.95	43.79	1233.19	799.82	176.82	124.72	33.87	19.77	14.60	11.26		
15	11.26	18.22	69.90	48.22	1302.54	1297.17	173.09	120.07	33.13	19.77	14.14	11.26		
16	13.62	17.17	71.87	46.44	937.00	1815.08	160.20	106.60	32.40	19.28	14.14	10.77		
17	12.65	16.14	85.06	39.47	454.42	1963.53	120.07	112.56	30.23	18.71	14.14	10.77		
18	12.65	33.87	70.88	38.62	291.51	1762.70	97.81	93.44	30.23	18.22	14.14	10.34		
19	12.65	36.94	56.46	213.21	217.14	1434.11	93.44	86.09	29.51	18.22	14.14	10.77		
20	11.70	25.32	42.92	100.72	186.23	1096.84	85.06	80.94	28.80	18.22	13.62	10.34		
21	11.26	30.23	33.87	68.91	221.09	718.56	86.09	75.87	28.80	18.22	14.14	10.34		
22	11.26	65.01	30.95	67.93	368.06	560.96	145.08	72.87	28.10	18.22	14.14	13.16		
23	12.20	45.55	26.01	96.31	180.57	457.27	249.21	69.90	28.10	18.22	14.14	12.20		
24	13.16	30.23	23.28	124.72	143.54	331.78	473.99	65.98	28.10	17.66	13.62	11.26		
25	23.28	22.61	21.95	115.57	153.19	289.11	190.03	64.05	28.10	17.66	13.62	10.77		
26	17.66	23.28	20.86	92.38	156.57	243.11	137.19	60.22	26.70	17.66	13.16	31.67		
27	16.62	76.88	19.28	127.81	126.21	223.07	120.07	56.46	26.70	17.17	12.20	26.01		
28	22.61	70.88	18.22	279.28	114.01	209.30	171.24	52.76	26.70	17.17	12.20	16.14		
29	26.01	37.78	17.17	154.76	106.60	195.76	130.92	51.84	26.70	16.62		14.60		
30	46.44	33.13	15.60	118.60	118.60	227.04	96.31	51.84	26.01	16.62		12.65		
31		27.40		102.13	102.13		106.60		26.01	16.62		11.70		
Total	568.67	966.03	1043.77	2770.00	9348.73	16333.10	5613.46	4646.55	1051.80	603.50	408.11	411.04	43764.76	Tonday
Mean	18.96	31.16	34.79	89.35	301.57	544.44	181.08	154.89	33.93	19.47	14.58	13.26		Ton/day
Max	81.96	76.88	85.06	279.28	1302.54	1963.53	473.99	459.97	50.93	25.32	16.62	31.67	1963.53	Ton/day
Min	10.77	11.70	15.60	29.51	96.31	97.81	85.06	51.84	26.01	16.62	12.20	10.34	10.34	Ton/day

WATER YEAR : 2008

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

Drainge 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	2001-2008
Number of observation	120
R-Square	0.7536
Remarks	Continued Sediment Station

$$QS = 12.9060\ QW^{1.63510}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	2.88	11.46	12.49	0.85	5.60	9.52	96.38	42.07	4.86	1.34	0.85	0.52		
2	2.88	9.89	3.25	0.78	2347.08	9.52	90.91	24.23	4.86	0.93	0.85	0.52		
3	2.88	8.96	1.61	0.78	194.23	8.96	90.91	46.50	4.57	0.93	0.78	0.52		
4	2.88	8.06	40.42	0.64	150.96	8.96	88.22	325.55	4.16	0.93	0.78	0.52		
5	2.88	6.87	28.12	0.64	116.47	8.96	88.22	110.58	4.16	0.93	0.78	0.52		
6	2.88	6.38	1917.90	5.60	96.38	80.35	85.57	46.50	3.50	16.22	0.71	0.52		
7	2.65	5.30	134.85	4.86	88.22	36.23	82.94	30.73	3.25	2.11	0.64	0.52		
8	2.65	4.57	61.56	4.16	82.94	29.27	76.10	21.85	3.25	28.12	0.64	0.52		
9	2.32	4.57	11.46	3.50	74.01	26.70	70.31	17.39	2.88	2.88	0.52	0.52		
10	2.32	10.86	6.87	2.88	70.31	25.59	66.67	15.08	2.32	1.80	0.52	0.52		
11	2.32	8.06	4.86	2.32	66.67	21.85	61.56	12.91	1.80	1.34	0.46	0.52		
12	2.32	5.60	4.16	2.32	63.12	104.81	54.75	12.91	1.80	1.80	0.40	0.52		
13	2.32	4.57	3.50	2.11	670.45	1225.94	49.67	11.87	1.34	0.64	0.40	0.52		
14	2.32	4.16	8.96	2.11	303.66	1667.04	40.42	11.87	1.34	2.11	0.40	0.52		
15	2.32	3.89	8.96	2.11	128.61	2128.28	30.73	9.89	0.93	0.85	0.30	0.52		
16	10.86	3.89	8.06	5.30	54.75	1301.05	24.23	8.96	0.93	0.64	0.30	0.52		
17	10.47	3.89	7.71	37.50	36.23	1765.74	21.85	8.96	0.85	0.64	0.30	0.52		
18	7.71	3.89	7.20	29.27	31.92	631.75	19.57	8.60	0.85	0.58	0.21	0.52		
19	5.60	3.89	5.60	37.50	30.73	325.55	17.39	8.06	0.85	0.58	6.38	1.34		
20	4.86	18.59	4.86	850.09	29.27	303.66	16.22	8.06	0.85	0.58	2.32	0.93		
21	4.16	40.42	3.50	122.49	25.59	199.10	15.08	7.20	0.85	0.52	1.34	0.78		
22	5.30	19.57	2.88	82.94	18.59	142.82	12.91	6.87	0.78	0.40	0.93	0.78		
23	3.25	13.98	2.32	58.12	15.08	122.49	185.24	6.87	0.78	1.34	0.93	0.78		
24	7.71	11.46	2.32	40.42	11.87	116.47	134.85	6.87	0.78	2.88	0.78	0.64		
25	6.87	9.89	2.11	21.85	11.87	110.58	66.67	6.87	0.78	2.32	0.64	0.64		
26	6.06	9.52	1.80	15.08	11.87	104.81	40.42	6.38	0.78	1.80	0.64	0.78		
27	5.30	52.91	1.61	13.98	11.46	99.16	29.27	6.38	0.93	1.34	0.58	6.87		
28	4.86	33.44	1.34	12.91	10.86	93.63	29.27	5.60	1.34	1.34	0.52	3.89		
29	76.10	113.51	1.17	11.87	9.89	88.22	26.70	5.60	1.34	0.93		2.88		
30	58.12	82.94	0.93	8.96	9.89	82.94	24.23	4.86	1.17	0.93		2.65		
31		36.23		7.71	9.52		24.23		1.17	0.93		2.32		
Total	256.05	561.22	2302.38	1391.65	4788.10	10879.95	1761.49	846.07	60.05	80.68	24.90	34.64	22987.18	Tonday
Mean	8.53	18.10	76.75	44.89	154.45	362.66	56.82	28.20	1.94	2.60	0.89	1.12		Ton/day
Max	76.10	113.51	1917.90	850.09	2347.08	2128.28	185.24	325.55	4.86	28.12	6.38	6.87	2347.08	Ton/day
Min	2.32	3.89	0.93	0.64	5.60	8.96	12.91	4.86	0.78	0.40	0.21	0.52	0.21	Ton/day

WATER YEAR : 2008

NAN RIVER BASIN

Lam Nam Khan at Ban Na Pho 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

Drainge 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	2001-2008
Number of observation	123
R-Square	0.7796
Remarks	Continued Sediment Station

$$QS = 8.4697\ QW^{1.33990}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.25	241.81	21.73	209.46	231.51	76.14	245.81	364.74	40.08	20.44	10.33	5.97		
2	1.47	170.76	15.11	375.40	858.23	243.94	205.38	184.01	38.57	20.02	10.10	5.66		
3	2.40	28.91	219.51	77.13	976.65	134.17	235.73	119.29	38.57	18.76	9.86	5.56		
4	3.80	13.81	869.24	50.49	756.56	62.79	176.37	804.47	38.57	18.34	9.62	5.97		
5	34.62	7.57	172.71	87.23	241.81	120.62	132.80	283.84	37.57	17.93	9.39	8.93		
6	10.81	5.25	317.80	41.09	176.37	172.71	152.06	301.12	36.58	17.52	9.16	6.18		
7	2.73	3.89	152.06	33.65	135.54	77.13	908.03	328.09	37.08	16.70	9.16	5.66		
8	41.60	3.26	73.18	25.70	199.54	170.76	416.32	1031.53	36.58	15.90	8.93	5.35		
9	7.14	2.91	49.78	22.16	416.32	184.01	396.93	223.41	35.60	15.63	8.70	5.25		
10	7.14	5.05	36.58	27.07	170.76	143.86	258.42	150.41	34.62	15.11	8.47	4.76		
11	8.70	258.42	34.14	26.61	128.71	80.13	180.31	127.35	33.65	14.84	8.24	4.76		
12	62.04	45.55	36.09	19.59	166.88	92.39	148.53	113.99	32.69	14.32	8.24	4.18		
13	8.24	12.54	91.36	15.90	546.49	487.89	135.54	106.16	31.73	14.32	8.02	4.18		
14	10.33	7.35	66.21	24.81	1108.20	1382.95	131.43	98.48	30.79	14.06	7.35	4.18		
15	4.46	5.66	62.04	17.52	383.43	1443.21	211.52	93.44	29.84	13.81	7.35	6.28		
16	26.16	5.56	40.08	14.58	217.44	1394.95	108.76	91.36	28.45	13.29	7.35	4.76		
17	4.46	15.90	34.62	13.81	145.26	2272.24	103.59	86.21	28.45	13.29	7.14	5.25		
18	2.73	10.57	58.68	95.95	127.35	1836.52	85.19	80.13	27.99	13.04	7.14	4.76		
19	2.48	8.02	39.07	131.43	92.39	1024.63	82.14	74.17	26.61	13.04	7.14	5.05		
20	2.73	213.31	91.36	858.23	97.21	1370.97	77.13	67.17	25.70	12.79	7.14	6.71		
21	5.05	33.65	37.57	182.03	422.12	1359.02	78.13	63.74	25.25	12.79	15.37	8.93		
22	3.53	93.44	27.53	1052.30	112.68	908.03	131.43	60.35	24.81	12.54	9.39	7.80		
23	2.40	24.36	21.73	833.78	79.13	494.24	424.88	58.68	24.36	12.29	9.16	6.92		
24	4.76	14.06	17.11	281.63	75.15	356.81	197.52	55.55	23.92	12.04	7.14	5.35		
25	6.71	67.17	15.11	153.96	63.74	281.63	103.59	53.00	23.03	11.79	6.71	5.25		
26	5.05	46.78	13.55	165.19	176.37	227.58	78.13	50.49	22.60	11.54	6.49	66.21		
27	15.11	34.62	12.79	296.64	87.23	191.74	74.17	48.00	22.16	11.30	6.18	252.23		
28	14.06	178.34	12.79	260.58	85.19	448.32	153.96	45.55	22.16	11.06	5.97	23.92		
29	7.57	388.82	51.02	170.76	110.06	595.03	74.17	43.14	21.73	10.81		12.79		
30	56.10	57.02	15.37	108.76	69.68	930.39	68.90	42.11	20.87	11.06		8.47		
31		31.73		97.21	81.13		74.17		20.44	10.81		26.16		
Total	365.63	2036.09	2705.92	5770.65	8539.13	18564.80	5851.04	5249.98	921.05	441.18	235.24	533.43	51214.14	Tonday
Mean	12.19	65.68	90.20	186.15	275.46	618.83	188.74	175.00	29.71	14.23	8.40	17.21		Ton/day
Max	62.04	388.82	869.24	1052.30	1108.20	2272.24	908.03	1031.53	40.08	20.44	15.37	252.23	2272.24	Ton/day
Min	1.25	2.91	12.79	13.81	63.74	62.79	68.90	42.11	20.44	10.81	5.97	4.18	1.25	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	26
R-Square	0.8766
Remarks	Continued Sediment Station

$$QS = 0.3074\ QW^{1.87850}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	36.41	643.72	677.35	1260.43	25635.78	14803.15	2879.88	976.91	285.88	319.81	75.31	49.46		
2	36.41	406.34	611.10	1060.01	18760.15	18431.87	2626.68	1017.93	274.97	308.30	87.06	44.90		
3	44.90	264.26	579.28	4736.83	18540.99	12169.50	2491.33	1125.01	264.26	285.88	81.08	40.55		
4	36.41	285.88	2111.22	6630.27	15099.59	12169.50	2296.10	1682.89	274.97	264.26	81.08	36.41		
5	32.68	253.74	6343.35	6514.06	25508.77	9133.32	2051.21	1403.01	285.88	264.26	81.08	36.41		
6	69.74	243.43	6456.31	7286.55	34519.75	28237.73	3351.53	1237.36	274.97	253.74	87.06	36.41		
7	99.94	460.51	4688.67	3817.47	60982.52	17145.90	3861.24	1103.14	285.88	194.87	87.06	36.41		
8	54.23	380.44	2264.79	5961.48	132452.71	14026.10	8163.56	1017.93	308.30	204.18	87.06	36.41		
9	36.41	355.50	1378.75	11905.70	57426.57	12349.61	6343.35	839.56	296.99	168.18	81.08	32.68		
10	49.46	296.99	956.69	6233.12	41300.99	8501.84	2993.17	765.46	285.88	151.51	81.08	32.68		
11	54.23	1169.35	877.81	4688.67	32502.21	6069.46	3069.83	643.72	274.97	143.53	81.08	36.41		
12	59.19	1103.14	1962.71	2993.17	56989.11	5538.66	3434.14	563.66	274.97	120.82	75.31	32.68		
13	59.19	460.51	31795.44	6514.06	67263.53	7408.98	2296.10	533.04	274.97	120.82	75.31	32.68		
14	106.69	343.41	21133.78	25129.52	46105.80	13362.28	2051.21	611.10	253.74	113.65	75.31	32.68		
15	128.19	264.26	11075.82	17463.31	33792.68	11905.70	1847.56	563.66	233.31	106.69	69.74	36.41		
16	135.76	213.69	5281.80	9204.79	24254.94	6343.35	1763.33	518.02	223.40	99.94	75.31	36.41		
17	168.18	194.87	3229.39	6288.12	18106.30	5801.22	1736.32	488.78	213.69	93.40	75.31	40.55		
18	106.69	194.87	2558.59	24878.16	33937.51	5748.25	1427.47	460.51	204.18	87.06	75.31	40.55		
19	87.06	223.40	2233.67	81239.03	27839.94	10612.03	1330.83	446.67	194.87	87.06	75.31	36.41		
20	168.18	233.31	1904.73	98707.89	21836.20	9420.75	1191.82	419.58	176.87	87.06	75.31	36.41		
21	185.77	204.18	1933.62	68539.58	23394.87	9420.75	1283.70	367.80	159.69	81.08	75.31	44.90		
22	128.19	176.87	1709.51	41474.54	19873.96	8920.47	2592.53	355.50	204.18	75.31	64.36	44.90		
23	159.69	488.78	2695.60	31095.95	14218.53	7594.42	2264.79	343.41	194.87	75.31	59.19	44.90		
24	143.53	729.61	1763.33	29446.90	10842.77	5332.71	2051.21	355.50	194.87	69.74	59.19	49.46		
25	113.65	380.44	1283.70	33792.68	29855.22	4174.09	2524.85	393.29	176.87	69.74	54.23	49.46		
26	106.69	355.50	1169.35	22072.72	37804.66	3861.24	1763.33	367.80	168.18	75.31	54.23	54.23		
27	176.87	355.50	956.69	17463.31	29041.21	3602.17	1354.69	343.41	204.18	75.31	54.23	54.23		
28	563.66	406.34	729.61	12989.72	38110.20	2993.17	1103.14	331.51	355.50	75.31	49.46	54.23		
29	419.58	296.99	611.10	28104.84	22191.43	2491.33	936.67	319.81	355.50	69.74		59.19		
30	296.99	253.74	2264.79	24627.99	22191.43	5030.64	820.73	308.30	343.41	75.31		59.19		
31		285.88		35995.58	15199.02		765.46		331.51	75.31		59.19		
Total	3864.57	11925.45	123238.55	678116.45	1055579.34	282600.19	74667.76	19904.27	7851.71	4292.49	2052.45	1317.39	2265410.62	Tonday
Mean	128.82	384.69	4107.95	21874.72	34050.95	9420.01	2408.64	663.48	253.28	138.47	73.30	42.50		Ton/day
Max	563.66	1169.35	31795.44	98707.89	132452.71	28237.73	8163.56	1682.89	355.50	319.81	87.06	59.19	132452.71	Ton/day
Min	32.68	176.87	579.28	1060.01	10842.77	2491.33	765.46	308.30	159.69	69.74	49.46	32.68	32.68	Ton/day

WATER YEAR : 2008

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

Drainge Area	621 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	2008
Number of observation	29
R-Square	0.8225
Remarks	Continued Sediment Station

$$QS = 0.3906\ QW^{1.98850}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	17.62	480.43	1781.49	165.70	2140.88	1660.73	249.69	77.14	33.64	31.53	13.68	6.81		
2	14.94	1631.20	1720.59	93.87	1812.34	1245.45	216.91	73.22	33.64	27.53	13.68	6.81		
3	14.94	824.07	1297.39	312.56	1660.73	1148.02	224.89	89.54	33.64	22.04	13.68	7.57		
4	14.94	16.25	2589.48	216.91	1515.72	883.73	216.91	73.22	31.53	22.04	12.48	7.57		
5	13.68	11.34	5319.81	613.38	3245.23	883.73	179.16	66.47	31.53	20.51	12.48	7.57		
6	12.48	53.94	3689.80	522.95	2508.74	945.46	331.81	77.14	31.53	19.04	12.48	7.57		
7	11.34	1100.78	3741.45	193.83	2470.65	1220.72	258.24	77.14	31.53	19.04	12.48	6.81		
8	9.21	14.94	1908.04	266.94	3689.80	863.61	582.44	48.16	29.50	19.04	12.48	6.81		
9	7.57	9.21	1812.34	480.43	2712.98	2925.17	233.01	60.04	29.50	17.62	12.48	6.81		
10	6.09	7.57	1515.72	284.76	2039.46	1459.55	312.56	53.94	29.50	17.62	12.48	6.81		
11	48.16	14.94	1631.20	179.16	1750.91	786.13	453.07	48.16	29.50	17.62	12.48	6.81		
12	42.71	11.34	5451.12	1812.34	3152.10	731.87	293.88	53.94	29.50	17.62	11.34	6.81		
13	56.95	7.57	22367.12	2212.14	2432.85	714.22	179.16	51.01	29.50	17.62	11.34	6.81		
14	1077.53	6.09	2248.20	1660.73	2106.81	2073.00	146.48	48.16	29.50	17.62	11.34	6.81		
15	1148.02	4.17	186.43	767.83	1973.21	804.64	146.48	48.16	27.53	17.62	10.24	6.81		
16	1196.24	2.61	767.83	426.52	1515.72	613.38	128.44	48.16	27.53	16.25	10.24	6.81		
17	1148.02	4.77	731.87	3741.45	1245.45	567.27	122.69	51.01	27.53	16.25	10.24	35.80		
18	966.50	4.77	172.37	12806.78	1601.94	552.30	117.07	48.16	27.53	14.94	10.24	27.53		
19	1172.00	6.09	172.37	36322.10	1487.50	508.58	112.22	45.40	27.53	14.94	10.24	27.53		
20	904.08	4.17	165.70	29833.55	1271.29	552.30	107.48	40.34	27.53	13.68	10.24	16.25		
21	14.94	3.61	134.32	12562.30	924.65	480.43	172.37	40.34	25.64	16.25	9.21	19.04		
22	10.24	11.34	134.32	7315.24	945.46	480.43	134.32	40.34	25.64	16.25	9.21	17.62		
23	1515.72	56.95	128.44	3198.49	883.73	508.58	117.07	38.04	25.64	16.25	8.37	7.57		
24	11.34	60.04	107.48	2754.78	824.07	388.18	413.54	38.04	25.64	14.94	8.37	7.57		
25	9.21	38.04	179.16	2212.14	9420.74	331.81	179.16	35.80	23.80	14.94	8.37	6.81		
26	4.17	53.94	85.30	1875.87	10916.52	303.15	112.22	35.80	35.80	13.68	7.57	6.81		
27	9.21	4.17	69.80	1572.93	8640.83	275.77	102.84	35.80	35.80	13.68	7.57	6.81		
28	1350.39	40.34	241.28	1350.39	2796.90	241.28	93.87	35.80	35.80	13.68	7.57	6.81		
29	1124.27	23.80	275.77	14064.33	1750.91	312.56	85.30	35.80	33.64	13.68		9.21		
30	1631.20	14.94	258.24	2925.17	1377.29	303.15	140.34	35.80	31.53	13.68		6.81		
31		13.68		4756.97	1271.29		89.54		31.53	13.68		6.81		
Total	13563.71	4537.10	60884.43	147502.54	82086.70	24765.20	6253.16	1550.07	929.18	540.88	302.58	320.98	343236.53	Tonday
Mean	452.12	146.36	2029.48	4758.15	2647.96	825.51	201.71	51.67	29.97	17.45	10.81	10.35		Ton/day
Max	1631.20	1631.20	22367.12	36322.10	10916.52	2925.17	582.44	89.54	35.80	31.53	13.68	35.80	36322.10	Ton/day
Min	4.17	2.61	69.80	93.87	824.07	241.28	85.30	35.80	23.80	13.68	7.57	6.81	2.61	Ton/day

WATER YEAR : 2008

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 Khar **Changwat** Uttaradit

Drainge 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	2005-2008
Number of observation	61
R-Square	0.8870
Remarks	Continued Sediment Station

$$QS = 4.8480\ QW^{1.51400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	14.91	7.72	4.49	4.13	14.06	14.91	18.48	199.00	10.83	9.78	7.21	6.71		
2	14.91	8.69	4.13	6.71	52.44	48.54	18.48	564.28	10.25	9.23	9.78	6.71		
3	19.41	7.72	4.49	10.83	43.50	30.64	27.41	891.74	9.23	9.23	8.16	7.72		
4	23.29	8.16	6.23	23.29	320.42	23.29	28.47	308.32	8.69	7.72	4.92	7.72		
5	16.66	7.72	6.23	41.05	118.54	60.55	34.00	351.99	8.69	4.92	9.23	13.22		
6	44.74	5.83	6.23	23.29	38.65	47.26	56.45	1328.30	8.16	7.21	7.21	9.78		
7	31.75	4.92	10.25	9.23	48.54	48.54	375.83	924.70	7.72	4.49	5.37	7.21		
8	21.32	1.96	15.78	8.69	18.48	123.35	160.25	356.71	7.72	4.49	5.37	8.69		
9	20.36	1.96	152.14	4.49	18.48	86.74	253.32	168.75	7.21	9.23	4.92	5.83		
10	14.91	2.64	39.84	3.33	15.78	51.13	168.75	104.50	6.71	12.41	4.49	1.80		
11	11.61	2.64	44.74	10.83	29.55	47.26	93.27	66.17	6.23	8.69	4.13	4.13		
12	9.78	6.71	23.29	7.21	48.54	69.04	120.94	49.83	5.83	6.23	5.83	2.64		
13	11.61	7.72	51.13	7.72	67.60	99.95	74.91	49.83	5.83	4.92	4.13	0.39		
14	14.91	5.83	29.55	42.27	492.13	420.07	60.55	32.87	5.37	5.37	2.64	0.71		
15	20.36	5.37	19.41	21.32	154.75	1532.68	42.27	28.47	5.37	4.49	6.71	0.78		
16	14.06	9.78	20.36	15.78	51.13	1592.65	160.25	22.30	4.92	6.23	19.41	5.83		
17	9.78	20.36	28.47	14.91	28.47	2248.97	141.39	21.32	4.92	4.92	7.21	11.61		
18	8.16	21.32	16.66	16.66	16.66	1520.78	49.83	28.47	4.92	5.37	16.66	8.16		
19	7.72	9.78	10.25	1138.30	11.61	643.17	32.87	26.36	4.49	6.71	15.78	8.69		
20	5.37	15.78	11.61	380.67	10.25	272.40	28.47	17.56	4.49	4.92	9.78	10.25		
21	5.37	9.23	8.69	66.17	529.59	481.60	30.64	16.66	4.13	4.49	7.21	13.22		
22	4.92	7.21	8.69	71.96	165.82	160.25	165.82	15.78	3.72	4.49	6.23	10.83		
23	25.32	6.71	8.69	35.14	118.54	77.91	502.74	14.91	2.95	4.92	11.61	14.06		
24	32.87	5.83	6.23	23.29	48.54	53.77	695.17	15.78	2.29	4.13	8.16	15.78		
25	99.95	13.22	4.13	41.05	32.87	36.30	702.71	16.66	2.29	3.33	8.16	19.41		
26	202.12	31.75	2.95	35.14	128.23	26.36	195.64	15.78	2.29	2.95	9.78	5.83		
27	43.50	17.56	1.96	29.55	73.43	20.36	102.22	14.91	3.33	2.29	9.23	4.92		
28	22.30	18.48	2.29	22.30	38.65	18.48	803.21	14.91	6.23	1.96	8.16	4.49		
29	18.48	9.23	1.70	18.48	32.87	20.36	347.28	14.06	8.69	2.95		4.49		
30	10.83	6.23	1.80	13.22	36.30	19.41	128.23	12.41	8.16	2.64		4.49		
31		5.83		10.25	26.36		165.82		8.16	3.33		4.49		
Total	801.28	293.89	552.41	2157.26	2830.78	9896.72	5785.67	5693.33	189.82	174.04	227.48	230.59	28833.27	Tonday
Mean	26.71	9.48	18.41	69.59	91.32	329.89	186.63	189.78	6.12	5.61	8.12	7.44		Ton/day
Max	202.12	31.75	152.14	1138.30	529.59	2248.97	803.21	1328.30	10.83	12.41	19.41	19.41	2248.97	Ton/day
Min	4.92	1.96	1.70	3.33	10.25	14.91	18.48	12.41	2.29	1.96	2.64	0.39	0.39	Ton/day

WATER YEAR : 2008

CHAO PHRAYA RIVER BASIN

Chao Phraya River at Khai Chira Prawat, 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

Drainge Area	109,973 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1956-Cont'd
Actual Measurement	1956-Cont'd
Using Rating Curve Water Year	2008
Number of observation	26
R-Square	0.7070
Remarks	Continued Sediment Station

$$QS = 0.8007\ QW^{1.36920}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	31.79	42.73	27.52	17.08	61.84	54.97	218.99	308.53	74.28	36.22	32.56	36.75		
2	32.30	46.94	29.51	16.91	56.04	51.44	217.27	314.22	69.69	35.95	34.64	35.95		
3	34.90	56.39	28.26	22.95	57.47	48.31	217.27	338.68	62.58	32.30	35.95	35.16		
4	37.82	60.01	31.53	30.51	70.83	47.63	219.85	359.49	56.04	26.78	35.43	32.82		
5	41.35	56.75	43.56	37.55	80.93	49.35	225.91	363.04	52.49	29.01	35.43	31.53		
6	42.45	52.14	51.79	41.08	86.04	55.68	229.40	357.13	48.66	29.26	35.43	33.59		
7	44.40	49.00	54.61	42.18	86.04	61.47	225.05	348.31	45.58	29.26	38.09	34.38		
8	46.26	38.09	53.55	41.90	80.93	66.30	232.02	345.10	40.25	30.77	38.63	33.07		
9	45.58	25.33	60.01	40.80	73.90	68.93	242.58	335.49	37.02	32.56	39.71	31.28		
10	44.68	19.96	62.58	41.08	67.05	72.36	241.70	324.71	32.82	34.11	38.63	31.02		
11	43.01	17.78	63.69	38.09	60.38	77.39	236.41	317.07	30.51	36.48	35.95	30.77		
12	40.25	19.37	62.58	34.90	56.39	84.17	237.29	307.59	29.26	35.43	35.43	30.77		
13	39.44	44.96	61.11	34.11	55.68	96.52	234.65	294.44	27.03	32.04	36.22	32.56		
14	36.75	70.07	54.25	32.82	63.32	126.59	235.53	286.08	24.37	27.27	36.48	33.33		
15	35.95	89.82	50.74	32.56	67.42	161.82	232.02	275.02	22.71	26.54	36.22	33.59		
16	34.64	121.27	50.04	33.85	73.90	178.48	230.27	261.37	22.25	28.51	36.22	34.90		
17	33.85	125.99	46.60	36.48	80.47	184.37	220.72	245.25	20.87	28.51	36.75	33.59		
18	33.85	117.75	46.26	34.64	82.78	187.34	210.42	231.14	24.61	31.53	35.16	32.56		
19	34.64	106.32	49.00	32.56	85.11	194.06	201.61	217.27	27.52	33.59	35.95	33.07		
20	34.38	89.34	53.19	36.75	80.47	199.34	188.08	205.41	31.02	32.56	38.09	34.90		
21	34.11	70.45	59.28	47.29	74.67	203.13	175.55	191.82	30.01	30.01	39.17	36.75		
22	33.85	55.68	64.43	65.55	68.18	211.28	164.68	177.01	31.79	29.51	39.44	42.18		
23	32.82	47.63	61.84	74.28	63.69	218.13	156.83	161.82	34.38	31.79	39.98	44.96		
24	35.43	39.17	55.32	81.39	61.11	218.13	151.58	147.23	31.79	33.59	39.17	45.58		
25	40.25	31.28	42.73	84.17	60.01	216.41	152.83	135.59	35.69	35.16	37.55	45.25		
26	40.53	26.78	34.11	80.93	60.01	214.70	169.73	122.44	38.09	36.22	36.48	43.56		
27	41.90	21.09	27.27	80.93	58.56	213.84	193.31	107.96	38.90	34.11	36.22	41.08		
28	42.18	18.30	23.42	79.55	57.47	215.55	246.13	97.01	37.82	30.51	37.02	43.29		
29	41.35	17.78	19.37	76.22	58.20	218.13	294.44	87.92	37.02	27.03		42.18		
30	39.71	20.18	17.95	71.21	57.83	219.85	302.88	79.09	34.90	27.27		40.80		
31		25.09		68.18	57.11		312.32		32.82	30.26		40.80		
Total	1150.42	1623.44	1386.10	1488.50	2103.83	4215.67	6817.32	7343.23	1162.77	974.14	1032.00	1132.02	30429.44	100Tonday
Mean	38.35	52.37	46.20	48.02	67.87	140.52	219.91	244.77	37.51	31.42	36.86	36.52		Ton/day
Max	46.26	125.99	64.43	84.17	86.04	219.85	312.32	363.04	74.28	36.48	39.98	45.58	363.04	Ton/day
Min	31.79	17.78	17.95	16.91	55.68	47.63	151.58	79.09	20.87	26.54	32.56	30.77	16.91	Ton/day

WATER YEAR : 2008

SAKAE KRANG RIVER BASIN

Nam Mae Wong 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

Drainge Area	3,207 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	2002-2008
Number of observation	44
R-Square	0.7474
Remarks	Continued Sediment Station

$$QS = 5.9930\ QW^{1.27570}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	663.87	136.64	338.12	671.28	604.21	7041.54	363.91	280.76	0.00	0.00		
2	0.00	0.00	944.51	132.15	610.43	1055.40	836.38	6971.16	323.57	249.55	0.00	0.00		
3	0.00	0.00	890.09	459.21	1452.86	926.30	792.18	7112.07	410.96	246.13	0.00	0.00		
4	0.00	0.00	1027.43	899.11	1870.26	818.64	981.18	6656.37	401.45	242.73	0.00	0.00		
5	0.00	0.00	1728.62	731.19	2062.76	935.40	1267.70	5536.77	401.45	225.84	0.00	0.00		
6	0.00	0.00	2425.84	610.43	1490.53	854.20	1123.65	4103.59	396.72	217.50	0.00	0.00		
7	0.00	0.00	2078.98	459.21	917.22	908.15	1490.53	3706.67	420.52	212.53	0.00	0.00		
8	0.00	0.00	2111.51	319.95	573.30	629.18	2176.90	3904.04	396.72	202.66	0.00	0.00		
9	0.00	0.00	1528.41	132.15	454.33	610.43	2111.51	3487.31	377.90	190.47	0.00	0.00		
10	0.00	0.00	1046.05	81.01	410.96	629.18	1759.88	3560.11	382.58	180.84	0.00	0.00		
11	0.00	0.00	999.62	79.00	360.20	500.60	1195.21	3780.42	401.45	164.24	0.00	0.00		
12	0.00	13.59	693.62	63.35	352.81	738.76	1088.23	3682.15	349.12	152.61	0.00	0.00		
13	0.00	656.48	1528.41	41.41	356.50	2442.64	1207.22	3423.88	323.57	138.90	0.00	0.00		
14	0.00	1949.97	2560.94	50.30	360.20	3487.31	1123.65	1503.14	316.34	123.26	0.00	0.00		
15	0.00	2885.07	2864.75	39.67	391.99	3089.94	999.62	854.20	316.34	114.51	0.00	0.00		
16	0.00	5506.69	1902.06	44.92	459.21	2459.47	761.55	629.18	349.12	101.66	0.00	0.00		
17	0.00	7147.39	935.40	79.00	604.21	1728.62	649.11	536.69	341.78	93.28	0.00	0.00		
18	0.00	5934.40	716.11	101.66	716.11	1195.21	761.55	488.70	319.95	85.06	0.00	0.00		
19	0.00	3904.04	917.22	93.28	598.00	1503.14	663.87	415.73	316.34	81.01	0.00	0.00		
20	0.00	1630.42	1328.81	287.80	449.47	2259.23	554.93	396.72	309.15	71.08	0.00	0.00		
21	0.00	935.40	1159.31	656.48	434.94	3535.81	554.93	396.72	309.15	61.45	0.00	0.00		
22	0.00	872.11	1111.81	776.83	377.90	4053.50	999.62	391.99	316.34	52.13	0.00	0.00		
23	0.00	836.38	1219.27	723.64	439.77	4103.59	1292.07	363.91	316.34	52.13	0.00	0.00		
24	0.00	769.19	1055.40	567.16	524.60	2646.18	1100.01	338.12	319.95	34.57	0.00	0.00		
25	0.00	809.80	518.58	406.20	470.95	1064.75	1018.14	302.00	312.74	18.80	0.00	0.00		
26	0.00	792.18	377.90	202.66	377.90	629.18	1630.42	302.00	309.15	20.28	0.00	0.00		
27	0.00	800.98	434.94	101.66	287.80	459.21	3297.79	319.95	305.57	17.34	0.00	0.00		
28	0.00	663.87	396.72	26.43	229.20	444.61	4974.66	430.12	302.00	13.59	0.00	0.00		
29	0.00	610.43	312.74	12.69	284.28	449.47	6275.96	382.58	294.88	10.92		0.00		
30	0.00	500.60	235.94	55.82	338.12	454.33	7609.97	334.47	302.00	10.05		0.00		
31		567.16		235.94	476.85		7182.75		291.34	0.77		0.00		
Total	0.00	37786.15	35714.86	8606.95	19071.78	45283.71	58085.38	71352.30	10598.40	3666.65	0.00	0.00	290166.18	Tonday
Mean	0.00	1218.91	1190.50	277.64	615.22	1509.46	1873.72	2378.41	341.88	118.28	0.00	0.00		Ton/day
Max	0.00	7147.39	2864.75	899.11	2062.76	4103.59	7609.97	7112.07	420.52	280.76	0.00	0.00	7609.97	Ton/day
Min	0.00	0.00	235.94	12.69	229.20	444.61	554.93	302.00	291.34	0.77	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

SAKAE KRANG RIVER BASIN

Huai Tak Daet at Ban Tak Daet, Uthai Thani (Ct.19)

Lat 15 - 27 - 07 N Long 100 - 02 - 00 E

Location : on left bank near Ban Tak Daet.

Ban Tak Daet **Amphoe** Mueangi **Changwat** Uthai Thani

Drainge Area	3,454 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	1999-2008
Number of observation	111
R-Square	0.8878
Remarks	Continued Sediment Station

$$QS = 1.7440\ QW^{1.30930}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	332.07	12.24	55.23	142.01	135.59	1672.32	37.42	0.00	0.00	0.00		
2	0.00	0.00	461.10	5.55	164.35	160.36	397.40	1575.89	28.29	0.00	0.00	0.00		
3	0.00	0.00	523.44	37.42	420.61	181.60	404.00	1521.39	14.27	0.00	0.00	0.00		
4	0.00	0.00	589.39	232.01	816.11	321.07	447.50	1507.84	9.06	0.00	0.00	0.00		
5	0.00	0.00	738.95	348.74	1006.31	359.96	481.67	1487.57	6.09	0.00	0.00	0.00		
6	0.00	0.00	1308.09	274.18	905.04	377.76	474.79	1467.36	3.96	0.00	0.00	0.00		
7	0.00	0.00	1275.46	221.20	461.10	384.28	498.97	1387.19	2.97	0.00	0.00	0.00		
8	0.00	0.00	1223.66	113.08	191.93	315.60	719.94	1327.76	2.21	0.00	0.00	0.00		
9	0.00	0.00	1185.15	108.21	90.42	143.31	1016.58	1295.02	0.70	0.00	0.00	0.00		
10	0.00	0.00	1262.46	93.91	83.52	142.01	791.81	1288.49	0.00	0.00	0.00	0.00		
11	0.00	0.00	471.36	82.38	75.63	153.75	437.37	1262.46	0.00	0.00	0.00	0.00		
12	0.00	0.00	384.28	71.22	64.71	202.40	478.23	1301.55	0.00	0.00	0.00	0.00		
13	0.00	9.67	485.12	55.23	57.30	950.30	516.42	1281.97	0.00	0.00	0.00	0.00		
14	0.00	404.00	865.25	45.14	50.12	1656.16	474.79	1077.64	0.00	0.00	0.00	0.00		
15	0.00	1197.96	1223.66	35.55	63.64	1778.30	390.82	860.30	0.00	0.00	0.00	0.00		
16	0.00	1656.16	1109.01	12.93	104.59	1607.88	362.78	541.08	0.00	0.00	0.00	0.00		
17	0.00	1770.09	530.48	7.25	186.75	1185.15	280.99	188.47	0.00	0.00	0.00	0.00		
18	0.00	1528.18	306.28	4.98	190.20	865.25	155.06	148.50	0.00	0.00	0.00	0.00		
19	0.00	1354.10	357.15	24.82	195.41	672.01	148.50	124.21	0.00	0.00	0.00	0.00		
20	0.00	985.86	786.96	63.64	197.15	1052.70	148.50	108.21	0.00	0.00	0.00	0.00		
21	0.00	478.23	895.05	171.41	202.40	1664.23	151.12	103.39	0.00	0.00	0.00	0.00		
22	0.00	423.95	626.25	374.51	151.12	1852.55	292.42	92.74	0.00	0.00	0.00	0.00		
23	0.00	413.94	634.52	321.07	108.21	1827.72	467.93	83.52	0.00	0.00	0.00	0.00		
24	0.00	371.26	605.71	294.72	130.51	1656.16	404.00	78.99	0.00	0.00	0.00	0.00		
25	0.00	359.96	417.27	186.75	169.72	1295.02	492.04	71.22	0.00	0.00	0.00	0.00		
26	0.00	343.17	318.33	109.42	133.04	705.76	672.01	61.51	0.00	0.00	0.00	0.00		
27	0.00	357.15	103.39	80.12	74.52	104.59	1494.32	55.23	0.00	0.00	0.00	0.00		
28	0.00	413.94	116.76	58.35	48.11	96.26	3123.29	50.12	0.00	0.00	0.00	0.00		
29	0.00	413.94	82.38	30.07	21.54	85.80	3448.71	48.11	0.00	1.74		0.00		
30	0.00	299.33	22.29	12.93	23.12	75.63	3155.49	36.48	0.00	1.74		0.00		
31		318.33		7.83	61.51		1737.36		0.00	1.74		0.00		
Total	0.00	13099.22	19241.27	3496.86	6503.92	22015.58	24200.40	22106.53	104.97	5.22	0.00	0.00	110773.97	Tonday
Mean	0.00	422.56	641.38	112.80	209.80	733.85	780.66	736.88	3.39	0.17	0.00	0.00		Ton/day
Max	0.00	1770.09	1308.09	374.51	1006.31	1852.55	3448.71	1672.32	37.42	1.74	0.00	0.00	3448.71	Ton/day
Min	0.00	0.00	22.29	4.98	21.54	75.63	135.59	36.48	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

SAKAE KRANG RIVER BASIN

Huai Thap Salao at Ban Saphan Leak, Uthai Thani (Ct.20)

Lat 15 - 26 - 45 N Long 99 - 35 - 22 E

Location : on right bank at Ban Saphan Leak.

Ban Saphan Leak **Amphoe** Lan Sak **Changwat** Uthai Thani

Drainge Area	691 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	2002-2008
Number of observation	70
R-Square	0.8982
Remarks	Continued Sediment Station

$$QS = 11.4520\ QW^{1.40930}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	37.04	10.18	110.65	15.86	51.35	310.59	518.46	6669.83	131.12	13.10	1568.83	151.19		
2	32.58	5.84	206.32	15.86	394.35	298.04	273.39	6385.47	100.80	13.10	1568.83	237.61		
3	23.39	5.84	261.30	15.86	91.22	110.65	166.43	5833.65	95.98	13.10	1568.83	298.04		
4	23.39	0.45	298.04	15.86	48.87	131.12	174.21	3638.66	91.22	13.10	1568.83	567.46		
5	23.39	0.45	182.09	15.86	37.04	237.61	100.80	3373.21	91.22	13.10	1568.83	717.01		
6	15.86	0.45	237.61	15.86	26.63	439.73	95.98	3638.66	91.22	13.10	1568.83	739.11		
7	15.86	0.45	206.32	15.86	18.77	226.02	100.80	3909.86	86.54	5.06	39.33	875.70		
8	0.45	12.10	136.39	15.86	17.30	110.65	57.95	3638.66	86.54	5.06	26.63	979.78		
9	0.45	20.28	143.74	12.10	14.46	143.74	41.66	4193.80	86.54	4.31	25.00	979.78		
10	0.45	68.28	82.79	9.26	13.10	534.65	44.03	4120.49	86.54	4.31	25.00	1006.32		
11	0.45	120.76	82.79	9.26	13.10	617.72	39.33	3130.15	125.91	4.31	23.39	953.44		
12	0.45	110.65	364.90	9.26	13.10	739.11	44.03	2568.10	143.74	4.31	23.39	953.44		
13	0.45	1060.02	237.61	9.26	13.10	829.43	44.03	1753.73	237.61	4.31	21.82	953.44		
14	0.45	1172.91	95.98	11.13	9.26	651.90	44.03	1298.60	350.43	4.31	20.28	953.44		
15	0.45	336.14	75.44	17.30	10.18	651.90	44.03	1142.07	852.47	4.31	15.86	953.44		
16	0.45	143.74	61.34	9.26	32.58	717.01	48.87	783.89	1203.98	3.72	13.10	852.47		
17	0.45	95.98	51.35	9.26	18.77	174.21	46.43	695.11	1235.29	3.72	8.36	409.31		
18	0.45	71.83	68.28	21.82	48.87	125.91	44.03	518.46	1235.29	3.72	5.84	30.42		
19	0.45	48.87	57.95	57.95	91.22	198.14	44.03	518.46	901.40	3.72	5.84	30.42		
20	0.45	32.58	48.87	30.42	91.22	151.19	91.22	394.35	1033.07	3.72	5.84	13.10		
21	0.45	44.03	79.09	18.77	68.28	115.67	470.77	364.90	1298.60	5.06	5.84	13.10		
22	0.45	206.32	95.98	95.98	57.95	95.98	151.19	336.14	1060.02	10.18	7.49	13.10		
23	0.45	273.39	57.95	34.79	57.95	82.79	110.65	323.29	1060.02	518.46	7.49	13.10		
24	0.45	95.98	39.33	23.39	95.98	71.83	455.17	237.61	1060.02	1087.17	7.49	13.10		
25	5.84	95.98	28.30	18.77	91.22	61.34	2315.36	214.59	979.78	1087.17	7.49	13.10		
26	5.84	95.98	32.58	15.86	75.44	57.95	6385.47	166.43	953.44	1087.17	364.90	14.46		
27	5.84	95.98	34.79	17.30	273.39	57.95	5565.18	158.76	953.44	1203.98	298.04	14.46		
28	5.84	115.67	25.00	15.86	214.59	131.12	6107.75	151.19	1914.43	1330.59	237.61	25.00		
29	5.84	125.91	23.39	21.82	57.95	110.65	6015.98	136.39	1871.75	1266.83		20.28		
30	5.84	136.39	21.82	17.30	95.98	82.79	5743.09	136.39	34.79	1568.83		17.30		
31		120.76		17.30	95.98		6107.75		34.79	1568.83		17.30		
Total	214.20	4724.19	3447.99	630.30	2239.20	8267.39	41492.10	60430.90	19487.99	10871.76	10609.01	12829.22	175244.25	Tonday
Mean	7.14	152.39	114.93	20.33	72.23	275.58	1338.45	2014.36	628.64	350.70	378.89	413.85		Ton/day
Max	37.04	1172.91	364.90	95.98	394.35	829.43	6385.47	6669.83	1914.43	1568.83	1568.83	1006.32	6669.83	Ton/day
Min	0.45	0.45	21.82	9.26	9.26	57.95	39.33	136.39	34.79	3.72	5.84	13.10	0.45	Ton/day

WATER YEAR : 2008

PASAK RIVER BASIN

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

Lat 15 - 59 - 50 N Long 101 - 14 - 31 E

Location : on left bank at Ban Tha Lao.

Ban Tha Lao **Amphoe** Nong Phai **Changwat** Phetchabun

Drainge Area	477 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	1996-2008
Number of observation	345
R-Square	0.7732
Remarks	Continued Sediment Station

$$QS = 5.4458\ QW^{1.79000}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.33	24.56	6.04	13.93	22.88	44.91	103.45	2093.64	10.20	2.66	1.15	0.46		
2	4.33	36.17	4.33	38.91	673.29	22.88	181.89	613.24	10.20	2.66	1.15	0.46		
3	4.33	12.63	21.26	300.58	382.19	19.68	206.91	396.95	10.20	2.38	1.15	0.46		
4	11.39	13.93	84.62	41.98	26.29	18.16	76.61	275.31	9.07	2.38	1.01	0.46		
5	6.99	13.93	1187.31	36.17	16.70	555.68	51.28	181.89	9.07	2.38	1.01	0.46		
6	8.00	11.39	174.17	33.30	1034.51	84.62	58.02	166.16	9.07	2.18	1.01	0.46		
7	13.93	5.16	72.59	19.68	198.25	36.17	51.28	198.25	9.07	2.18	1.01	0.46		
8	24.56	5.16	30.75	12.63	411.30	26.29	58.02	97.10	9.07	1.93	1.01	0.33		
9	16.70	5.16	26.29	6.99	97.10	51.28	51.28	76.61	8.00	1.93	1.01	0.33		
10	16.70	8.00	18.16	33.30	44.91	36.17	54.74	61.67	8.00	1.93	1.01	0.33		
11	16.70	92.97	16.70	21.26	41.98	48.18	44.91	51.28	8.00	1.75	0.83	0.33		
12	6.99	13.93	30.75	13.93	41.98	174.17	28.08	41.98	8.00	1.75	0.83	0.33		
13	6.99	9.07	136.59	9.07	313.87	181.89	26.29	38.91	6.99	1.75	0.83	0.33		
14	5.16	174.17	36.17	6.99	143.94	61.67	30.75	33.30	6.99	1.75	0.83	0.33		
15	5.16	24.56	19.68	22.88	65.13	88.58	24.56	30.75	6.99	1.75	0.83	0.33		
16	5.16	21.26	16.70	12.63	38.91	593.78	22.88	28.08	6.04	1.75	0.83	0.33		
17	6.99	19.68	19.68	21.26	26.29	129.79	21.26	26.29	6.04	1.75	0.83	0.33		
18	5.16	15.29	38.91	33.30	24.56	426.54	16.70	26.29	6.04	1.75	0.83	0.33		
19	5.16	11.39	215.23	51.28	21.26	198.25	19.68	24.56	6.04	1.52	0.83	0.33		
20	4.33	36.17	88.58	232.83	24.56	673.29	28.08	21.26	6.04	1.52	0.83	0.33		
21	4.33	61.67	28.08	36.17	30.75	2769.06	19.68	19.68	6.04	1.52	0.83	0.33		
22	3.57	26.29	19.68	30.75	26.29	275.31	16.70	18.16	5.16	1.52	0.83	1.36		
23	6.04	10.20	15.29	24.56	48.18	129.79	19.68	18.16	4.33	1.52	0.71	0.83		
24	6.04	11.39	11.39	18.16	22.88	80.41	24.56	16.70	4.33	1.52	0.71	0.83		
25	4.33	12.63	9.07	13.93	18.16	58.02	22.88	16.70	4.33	1.52	0.71	0.83		
26	4.33	16.70	6.99	10.20	15.29	48.18	21.26	15.29	3.57	1.36	0.71	0.71		
27	6.04	16.70	6.04	6.99	15.29	44.91	41.98	13.93	3.57	1.36	0.71	0.56		
28	15.29	6.99	5.16	16.70	36.17	38.91	41.98	12.63	3.57	1.36	0.71	2.66		
29	109.60	6.99	4.33	51.28	48.18	36.17	38.91	11.39	2.88	1.36		1.15		
30	109.60	13.93	3.57	19.68	36.17	48.18	72.59	11.39	2.88	1.36		0.83		
31		9.07		21.26	16.70		9313.73		2.88	1.36		1.15		
Total	448.23	747.14	2354.11	1212.58	3963.96	7000.92	10790.62	4637.55	202.66	55.41	24.74	18.75	31456.67	Tonday
Mean	14.94	24.10	78.47	39.12	127.87	233.36	348.08	154.59	6.54	1.79	0.88	0.60		Ton/day
Max	109.60	174.17	1187.31	300.58	1034.51	2769.06	9313.73	2093.64	10.20	2.66	1.15	2.66	9313.73	Ton/day
Min	3.57	5.16	3.57	6.99	15.29	18.16	16.70	11.39	2.88	1.36	0.71	0.33	0.33	Ton/day

WATER YEAR : 2008

PASAK RIVER BASIN

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

Lat 15 - 20 - 21 N Long 101 - 22 - 30 E

Location : on left bank near Wat Tha Yiam.

Ban Tha Yiam **Amphoe** Lam Sonthi **Changwat** Lop Buri

Drainge 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	1988-2008
Number of observation	153
R-Square	0.7439
Remarks	Continued Sediment Station

$$QS = 8.5142\ QW^{1.41400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	28.33	12.34	3.75	66.97	39.50	15.11	35.23	2410.64	6.21	3.20	2.58	15.97		
2	132.31	7.22	48.05	316.60	39.50	3.20	32.17	3430.97	5.88	3.20	2.58	15.97		
3	9.74	4.94	491.25	153.75	65.65	3.02	243.05	2171.56	5.56	3.20	5.56	15.97		
4	5.56	3.75	140.45	119.33	186.13	7.57	910.07	692.61	5.25	3.20	51.48	15.97		
5	3.47	3.20	73.22	56.23	39.50	603.19	400.76	345.08	4.94	3.02	76.40	29.36		
6	96.31	3.02	15.11	56.23	50.46	198.12	186.13	288.86	4.63	3.02	99.76	33.24		
7	6.21	2.17	20.94	48.05	20.16	34.32	18.33	183.76	4.63	3.02	101.50	35.23		
8	4.94	2.17	30.23	9.37	15.11	16.70	45.86	130.43	4.63	3.02	101.50	35.23		
9	2.75	1.41	19.24	124.85	10.25	12.34	404.11	132.31	4.63	3.02	101.50	35.23		
10	1.93	1.41	8.27	89.53	10.25	9.74	188.51	74.80	4.33	3.02	119.33	35.23		
11	1.78	13.98	5.56	70.07	63.26	94.60	110.31	51.48	4.04	3.02	119.33	60.89		
12	1.78	23.66	4.04	23.66	607.81	1152.10	63.26	36.33	3.75	3.02	119.33	62.18		
13	1.78	52.71	9.74	20.16	345.08	433.11	44.88	26.46	3.75	3.02	119.33	62.18		
14	1.78	245.62	29.36	19.24	91.21	304.18	41.59	19.24	3.47	3.02	119.33	76.40		
15	1.78	20.16	29.36	18.33	26.46	390.76	36.33	18.33	3.47	2.75	86.19	62.18		
16	1.41	188.51	29.36	18.33	12.34	2855.00	23.66	17.58	4.04	2.75	86.19	7.92		
17	1.20	13.43	29.36	17.58	9.00	3404.50	20.16	17.58	4.04	2.75	86.19	7.92		
18	1.20	6.21	112.10	17.58	8.27	2264.21	19.24	17.58	4.04	2.75	24.64	7.92		
19	1.07	4.63	172.03	17.58	7.22	1272.39	84.53	16.70	3.75	2.75	32.17	7.92		
20	1.07	4.04	245.62	27.31	8.27	775.16	50.46	15.11	3.75	2.75	57.28	7.92		
21	1.07	4.04	186.13	17.58	7.22	2099.95	29.36	10.25	3.47	2.75	68.51	10.76		
22	1.07	6.88	172.03	23.66	6.54	796.90	24.64	10.25	3.47	2.75	68.51	8.27		
23	2.75	12.34	140.45	20.16	6.54	483.37	17.58	10.25	3.47	2.75	59.61	7.92		
24	1.93	8.27	30.23	17.58	5.88	440.73	15.97	9.74	3.47	2.75	39.50	7.22		
25	1.78	7.92	10.25	17.58	4.63	429.31	24.64	9.37	3.47	2.75	34.32	7.22		
26	1.78	7.92	9.37	16.70	3.47	126.70	123.00	7.92	3.47	2.75	18.33	165.11		
27	1.07	6.54	32.17	16.70	16.70	68.51	147.06	7.22	3.47	2.75	15.97	134.20		
28	19.24	3.75	32.17	15.97	27.31	32.17	188.51	7.22	3.47	2.75	15.97	23.66		
29	245.62	3.02	30.23	15.97	20.16	16.70	134.20	6.88	3.47	2.75		7.92		
30	539.67	2.33	32.17	19.24	34.32	22.69	64.56	6.54	3.20	2.75		6.54		
31		5.25		32.17	21.89		2591.77		3.20	2.75		6.54		
Total	1122.38	682.84	2192.24	1504.06	1810.09	18366.35	6319.93	10183.05	126.42	89.75	1832.89	1016.19	45246.19	Tonday
Mean	37.41	22.03	73.07	48.52	58.39	612.21	203.87	339.44	4.08	2.90	65.46	32.78		Ton/day
Max	539.67	245.62	491.25	316.60	607.81	3404.50	2591.77	3430.97	6.21	3.20	119.33	165.11	3430.97	Ton/day
Min	1.07	1.41	3.75	9.37	3.47	3.02	15.97	6.54	3.20	2.75	2.58	6.54	1.07	Ton/day

WATER YEAR : 2008

PASAK RIVER BASIN

Pasak River at Ban Kham Phran, Lop Buri (S.28A)

Lat 14 - 50 - 21 N Long 101 - 04 - 08 E

Location : n left bank at Ban Kam Pran.

Ban Kham Phran **Amphoe** Wang Muang **Changwat** Lop Buri

Drainge Area	12,843 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	2003-2008
Number of observation	73
R-Square	0.7348
Remarks	Continued Sediment Station

$$QS = 2.9073\ QW^{1.00020}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	199.03	26.18	29.38	121.03	395.20	392.87	1321.38	780.32	52.94	97.46	107.94	122.78		
2	196.99	25.45	26.90	241.81	441.77	354.45	1574.83	1254.57	52.94	98.34	114.05	121.91		
3	135.88	25.45	26.18	222.46	518.62	250.98	1599.00	1422.85	52.94	85.24	163.38	121.03		
4	101.83	22.54	26.18	125.69	593.14	206.16	1596.23	1703.67	45.96	56.44	164.40	123.65		
5	100.95	25.45	26.18	122.78	575.09	151.15	1517.18	1646.13	44.22	56.44	163.38	148.10		
6	100.95	25.45	29.38	122.78	545.43	140.97	1399.27	1245.25	44.22	55.56	163.38	176.62		
7	92.23	25.45	26.90	122.78	463.89	120.16	1112.64	637.71	43.34	55.56	163.38	191.90		
8	37.23	25.45	24.00	122.78	292.74	104.45	411.50	555.76	43.34	107.94	162.36	230.61		
9	23.27	25.45	26.90	123.65	229.59	79.13	117.54	526.10	43.34	139.95	161.34	229.59		
10	23.27	25.45	26.90	141.99	117.54	45.96	217.36	538.99	43.34	139.95	161.34	228.57		
11	23.27	22.54	27.63	167.45	64.29	46.83	508.14	527.38	43.34	140.97	160.32	226.53		
12	37.23	25.45	28.50	168.47	120.16	342.81	650.98	564.79	43.34	139.95	160.32	225.51		
13	66.91	29.38	28.50	169.49	158.28	154.21	715.81	615.61	42.47	127.73	159.30	224.49		
14	74.77	32.00	29.38	202.08	256.07	51.20	726.14	699.62	41.60	114.05	159.30	222.46		
15	74.77	34.61	29.38	244.87	394.04	29.38	677.50	732.29	40.72	113.18	159.30	221.44		
16	73.89	26.90	29.38	214.31	476.70	103.57	569.94	735.49	95.72	112.30	159.30	220.42		
17	43.34	26.18	40.72	153.19	480.19	102.70	487.18	738.69	143.01	167.45	157.27	183.75		
18	25.45	26.18	248.94	116.67	476.70	245.88	289.25	733.89	143.01	237.74	157.27	210.23		
19	45.96	26.18	435.95	115.80	527.38	603.44	100.08	653.92	143.01	224.49	156.25	220.42		
20	73.89	26.90	536.40	115.80	593.14	689.29	86.11	597.01	143.01	184.77	162.36	220.42		
21	67.78	26.90	540.28	114.92	538.99	828.35	148.10	509.30	143.01	151.15	162.36	141.99		
22	73.89	26.90	532.56	114.92	367.26	1024.57	175.60	374.24	141.99	149.12	153.19	136.89		
23	75.64	26.90	522.23	114.92	299.73	1214.97	81.75	257.09	109.68	150.14	152.17	121.03		
24	74.77	26.90	520.95	114.05	297.40	1281.79	80.00	201.06	80.88	110.56	152.17	102.70		
25	73.89	26.90	513.96	114.05	236.72	1086.44	148.10	188.84	53.82	110.56	133.84	86.11		
26	61.67	26.90	476.70	96.59	109.68	847.57	369.59	128.75	52.94	109.68	134.86	73.02		
27	32.87	26.18	330.00	75.64	100.95	944.80	504.65	70.40	52.94	109.68	128.75	72.15		
28	24.00	26.18	99.21	87.86	101.83	1162.86	546.74	66.91	53.82	108.81	121.91	45.09		
29	24.72	33.74	52.07	181.71	134.86	1191.68	546.74	53.82	52.94	108.81		44.22		
30	33.74	31.12	64.29	222.46	187.82	1130.11	509.30	52.94	76.51	107.94		44.22		
31		32.00		391.71	284.59		516.29		97.46	107.94		51.20		
Total	2094.08	839.26	5355.93	4764.71	10379.79	14928.73	19304.92	18813.39	2261.80	3779.90	4255.19	4789.05	91566.75	Tonday
Mean	69.80	27.07	178.53	153.70	334.83	497.62	622.74	627.11	72.96	121.93	151.97	154.49		Ton/day
Max	199.03	34.61	540.28	391.71	593.14	1281.79	1599.00	1703.67	143.01	237.74	164.40	230.61	1703.67	Ton/day
Min	23.27	22.54	24.00	75.64	64.29	29.38	80.00	52.94	40.72	55.56	107.94	44.22	22.54	Ton/day

WATER YEAR : 2008

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

Drainge 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	2001-2008
Number of observation	349
R-Square	0.7032
Remarks	Continued Sediment Station

$$QS = 3.8962\ QW^{1.78880}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	23.03	1287.36	3.90	109.34	148.37	274.93	324.57	254.78	35.70	21.53	12.28	6.23		
2	210.41	192.55	50.76	83.57	56492.51	713.09	362.23	192.55	35.70	21.53	12.28	6.23		
3	44.46	71.84	3255.29	241.72	1233.89	148.37	426.24	169.82	32.97	20.07	11.15	6.23		
4	21.53	38.53	14260.35	75.66	494.80	123.36	317.26	138.12	32.97	20.07	11.15	6.23		
5	14.69	11.15	2339.60	175.38	261.42	143.20	288.75	123.36	32.97	20.07	11.15	6.23		
6	12.28	9.03	2671.24	79.57	192.55	153.61	1771.33	158.93	30.34	20.07	11.15	6.23		
7	8.05	64.45	1511.18	47.56	148.37	128.20	1945.80	96.07	30.34	18.65	11.15	5.40		
8	4.62	13.46	385.70	35.70	138.12	118.60	798.42	100.41	30.34	18.65	10.07	5.40		
9	3.90	4.62	175.38	27.80	164.34	434.57	658.59	104.83	30.34	18.65	10.07	5.40		
10	3.90	21.53	153.61	27.80	138.12	109.34	434.57	79.57	27.80	18.65	10.07	5.40		
11	3.90	38.53	198.42	44.46	123.36	79.57	451.42	71.84	27.80	18.65	9.03	5.40		
12	3.55	6.23	169.82	26.17	118.60	362.23	310.02	68.10	27.80	18.65	9.03	4.62		
13	3.55	2.91	123.36	23.03	1892.17	9305.06	274.93	68.10	26.17	17.29	9.03	4.62		
14	3.55	2.61	261.42	21.53	949.97	6318.61	261.42	64.45	26.17	17.29	9.03	4.62		
15	21.53	2.61	813.05	23.03	451.42	7302.56	235.31	64.45	26.17	17.29	9.03	4.62		
16	96.07	2.91	175.38	18.65	235.31	4301.63	198.42	60.89	26.17	17.29	8.05	4.62		
17	15.96	3.23	128.20	23.03	164.34	2892.32	181.03	60.89	26.17	15.96	8.05	4.62		
18	10.07	8.05	377.80	24.58	128.20	16074.77	164.34	57.43	26.17	15.96	8.05	3.90		
19	11.15	71.84	133.12	79.57	302.85	4149.71	153.61	54.05	24.58	15.96	8.05	3.90		
20	10.07	288.75	109.34	401.70	1164.15	1730.13	143.20	50.76	24.58	15.96	8.05	3.90		
21	12.28	60.89	71.84	68.10	658.59	4691.94	138.12	50.76	24.58	15.96	8.05	3.90		
22	5.40	60.89	91.82	91.82	485.99	2548.40	133.12	47.56	23.03	15.96	7.11	3.90		
23	11.15	64.45	44.46	64.45	175.38	1216.29	138.12	47.56	23.03	14.69	7.11	3.90		
24	11.15	35.70	38.53	288.75	153.61	813.05	228.97	44.46	23.03	14.69	7.11	3.90		
25	7.11	11.15	30.34	981.67	138.12	593.16	181.03	44.46	23.03	14.69	7.11	3.90		
26	14.69	47.56	30.34	295.76	175.38	426.24	128.20	41.44	23.03	13.46	6.23	3.90		
27	60.89	35.70	30.34	123.36	104.83	331.96	118.60	41.44	23.03	13.46	6.23	5.40		
28	113.93	113.93	30.34	153.61	100.41	417.99	109.34	38.53	23.03	13.46	6.23	4.62		
29	158.93	20.07	30.34	118.60	91.82	417.99	109.34	38.53	21.53	12.28		4.62		
30	1147.00	9.03	30.34	261.42	113.93	518.65	100.41	38.53	21.53	12.28		3.90		
31		5.40		113.93	75.66		104.83		21.53	12.28		3.90		
Total	2068.80	2606.96	27725.61	4151.32	67216.58	66839.53	11191.54	2472.67	831.63	521.45	251.10	149.64	186026.83	Tonday
Mean	68.96	84.10	924.19	133.91	2168.28	2227.98	361.02	82.42	26.83	16.82	8.97	4.83		Ton/day
Max	1147.00	1287.36	14260.35	981.67	56492.51	16074.77	1945.80	254.78	35.70	21.53	12.28	6.23	56492.51	Ton/day
Min	3.55	2.61	3.90	18.65	75.66	79.57	100.41	38.53	21.53	12.28	6.23	3.90	2.61	Ton/day

WATER YEAR : 2008

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

Drainge Area	2,375 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	2008
Number of observation	53
R-Square	0.9033
Remarks	Continued Sediment Station

$$QS = 5.3207\ QW^{1.33380}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	17.87	33.81	13.59	9.46	7.86	32.68	34.94	1807.27	65.40	13.95	7.86	3.82		
2	56.77	34.94	14.31	8.81	7.55	101.04	40.73	1962.67	62.23	13.23	7.86	3.12		
3	102.97	32.68	30.47	8.49	7.24	144.72	36.08	2042.51	58.06	12.88	8.18	1.89		
4	65.40	24.17	36.08	8.18	7.24	139.88	40.73	1570.63	54.22	12.88	8.18	2.28		
5	50.45	17.87	28.29	7.86	6.64	147.16	45.53	1139.92	30.47	12.17	7.86	3.12		
6	38.39	15.41	45.53	7.86	6.34	142.29	44.32	910.26	44.32	12.17	5.46	3.12		
7	23.24	14.31	24.17	7.86	6.04	211.76	36.08	939.15	43.11	12.17	5.18	3.12		
8	15.41	12.52	28.29	7.86	6.34	336.46	32.68	1221.65	40.73	12.17	5.75	3.82		
9	13.23	12.17	21.41	7.86	6.64	558.42	55.49	1313.79	38.39	12.17	6.34	5.75		
10	10.80	10.80	23.24	7.86	6.34	790.52	58.06	1132.31	36.08	12.17	6.34	7.86		
11	10.13	10.13	34.94	7.24	6.94	435.91	76.80	1493.34	33.81	11.83	6.04	9.79		
12	11.14	10.46	31.57	7.24	7.24	232.88	91.52	1541.53	32.68	10.80	5.75	7.55		
13	10.13	24.17	26.16	7.24	7.55	187.85	62.23	1147.54	29.37	10.46	5.75	6.34		
14	9.14	116.75	26.16	6.64	7.86	285.40	82.24	796.73	26.16	10.13	6.04	5.75		
15	9.14	218.38	27.22	6.64	7.86	336.46	56.77	575.54	24.17	10.13	5.46	3.56		
16	9.14	258.81	22.32	6.34	7.86	273.93	51.70	423.13	29.37	9.79	5.18	2.87		
17	8.18	211.76	16.16	6.04	7.86	196.73	45.53	308.71	29.37	9.46	5.18	2.69		
18	6.94	144.72	18.74	5.75	7.24	152.07	38.39	243.91	30.47	9.46	5.75	2.87		
19	7.24	87.78	15.79	5.46	6.04	114.75	33.81	236.55	29.37	9.46	5.46	9.14		
20	7.55	54.22	16.16	6.64	5.18	95.30	31.57	205.71	46.74	9.46	4.90	6.04		
21	6.64	40.73	17.01	7.55	4.62	87.78	34.94	174.63	20.51	9.46	4.90	6.04		
22	6.34	32.68	15.05	7.86	4.35	112.77	40.73	167.02	12.88	9.14	4.62	5.46		
23	5.75	24.17	13.59	11.48	4.35	99.12	52.95	142.29	13.95	9.14	4.35	5.18		
24	5.75	23.24	13.59	11.48	4.90	67.00	89.65	122.78	15.05	9.14	4.90	4.90		
25	5.75	19.62	11.83	11.14	6.34	56.77	116.75	108.82	15.05	9.14	3.82	4.90		
26	5.75	16.16	11.14	10.46	8.49	55.49	139.88	97.21	14.68	9.14	3.56	6.64		
27	5.75	15.41	10.80	9.79	10.80	49.20	135.07	87.78	14.31	9.14	3.56	7.55		
28	7.86	13.95	10.46	9.14	11.48	46.74	262.57	84.08	13.95	8.81	3.31	10.46		
29	34.94	13.23	10.46	8.18	12.88	41.92	796.73	76.80	13.23	8.49		13.23		
30	36.08	15.79	10.46	7.86	18.74	25.10	997.62	70.23	13.59	8.49		12.88		
31		15.41		7.86	30.47		1180.34		13.95	8.49		10.13		
Total	603.87	1576.25	624.99	250.13	257.28	5558.10	4842.43	22144.49	945.67	325.52	157.54	181.87	37468.14	Tonday
Mean	20.13	50.85	20.83	8.07	8.30	185.27	156.21	738.15	30.51	10.50	5.63	5.87		Ton/day
Max	102.97	258.81	45.53	11.48	30.47	790.52	1180.34	2042.51	65.40	13.95	8.18	13.23	2042.51	Ton/day
Min	5.75	10.13	10.46	5.46	4.35	25.10	31.57	70.23	12.88	8.49	3.31	1.89	1.89	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	22
R-Square	0.8338
Remarks	Continued Sediment Station

$$QS = 3.8828\ QW^{1.52730}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	10.18	32.88	5.13	2.25	5.80	141.28	8.19	787.04	22.07	8.19	2.76	2.25		
2	5.80	30.55	4.49	1.78	5.13	82.55	11.19	513.83	20.16	8.19	2.76	1.35		
3	92.99	32.88	4.49	1.78	8.19	69.32	15.74	393.12	17.00	8.19	2.25	0.96		
4	63.00	92.99	4.49	2.25	2.25	92.99	17.00	323.59	17.00	7.21	1.35	0.62		
5	24.16	112.83	3.31	3.31	2.25	247.84	28.40	299.34	15.74	7.21	1.35	7.21		
6	12.32	72.55	2.25	1.78	2.76	227.23	26.19	315.44	13.40	6.49	1.35	3.88		
7	17.00	48.16	2.25	1.78	2.76	374.58	32.88	254.85	11.19	5.80	1.78	2.25		
8	17.00	35.14	2.25	1.78	10.18	402.50	35.14	254.85	11.19	5.13	1.35	1.78		
9	24.16	28.40	6.49	2.25	85.98	299.34	39.94	759.74	11.19	5.13	1.35	0.96		
10	13.40	26.19	5.13	2.25	53.93	315.44	35.14	460.38	10.18	4.49	1.35	0.78		
11	13.40	24.16	2.76	2.76	30.55	291.40	26.19	340.12	10.18	3.88	1.15	0.78		
12	24.16	24.16	3.31	3.88	28.40	470.91	194.28	261.92	9.13	4.49	0.96	0.78		
13	12.32	24.16	3.31	2.76	30.55	1080.55	1030.04	207.25	9.13	4.49	0.96	0.96		
14	8.19	28.40	3.31	1.78	22.07	949.32	261.92	163.16	8.19	4.49	1.15	1.15		
15	6.49	28.40	5.13	1.35	14.60	450.55	136.38	131.55	7.21	4.49	0.96	7.21		
16	8.19	32.88	11.19	0.96	11.19	283.54	89.46	112.83	11.19	4.49	0.21	1.78		
17	6.49	32.88	10.18	0.96	7.21	200.73	63.00	103.85	8.19	4.49	0.62	2.25		
18	3.88	82.55	7.21	0.78	5.80	146.23	51.02	89.46	4.49	3.88	0.33	1.78		
19	3.88	136.38	5.80	1.15	4.49	108.31	858.25	100.18	5.13	3.31	0.62	1.78		
20	5.80	131.55	4.49	3.88	3.88	92.99	828.60	112.83	5.80	3.31	0.33	1.78		
21	4.49	59.93	3.88	2.25	4.49	85.98	680.23	89.46	6.49	3.31	0.21	13.40		
22	3.31	30.55	3.31	1.15	3.31	75.83	365.43	72.55	8.19	3.31	0.21	37.57		
23	2.25	17.00	2.76	0.96	2.76	56.90	356.92	63.00	7.21	3.31	0.62	24.16		
24	2.25	13.40	3.31	0.96	3.31	42.62	283.54	56.90	8.19	3.31	0.62	10.18		
25	2.25	8.19	2.76	1.15	5.13	32.88	470.91	51.02	9.13	3.88	0.62	8.19		
26	5.13	5.13	2.25	1.35	30.55	26.19	2470.56	48.16	5.80	3.31	0.62	22.07		
27	14.60	5.13	3.88	18.20	11.19	24.16	1697.66	42.62	5.80	2.76	0.62	56.90		
28	82.55	4.49	5.13	37.57	26.19	20.16	996.84	37.57	8.19	3.31	0.96	32.88		
29	48.16	4.49	4.49	22.07	72.55	17.00	980.37	30.55	9.13	3.31		18.20		
30	48.16	4.49	3.31	17.00	108.31	14.60	667.56	26.19	9.13	2.76		10.18		
31		4.49		12.32	122.07		773.35		9.13	2.76		8.19		
Total	585.96	1215.38	132.05	156.45	727.83	6723.92	13532.32	6503.35	314.15	142.68	29.42	284.21	30347.72	Tonday
Mean	19.53	39.21	4.40	5.05	23.48	224.13	436.53	216.78	10.13	4.60	1.05	9.17		Ton/day
Max	92.99	136.38	11.19	37.57	122.07	1080.55	2470.56	787.04	22.07	8.19	2.76	56.90	2470.56	Ton/day
Min	2.25	4.49	2.25	0.78	2.25	14.60	8.19	26.19	4.49	2.76	0.21	0.62	0.21	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	44
R-Square	0.9251
Remarks	Continued Sediment Station

$$QS = 1.4058\ QW^{1.44350}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.22	16.90	32.46	75.54	139.79	190.61	155.04	253.99	42.46	22.37	13.53	8.22		
2	10.40	22.37	29.31	62.14	139.79	391.58	136.46	190.61	42.46	21.43	12.72	8.22		
3	11.16	101.59	30.87	133.16	129.89	242.05	159.36	155.04	40.73	20.49	12.72	8.22		
4	10.40	146.50	39.03	95.60	117.05	201.71	163.72	129.89	39.03	20.49	12.72	8.22		
5	8.93	150.75	29.31	113.91	104.63	168.11	146.50	126.64	39.03	20.49	11.93	8.22		
6	8.22	53.24	24.78	107.70	186.04	146.50	136.46	139.79	37.35	20.49	11.93	7.54		
7	7.54	30.87	26.27	123.42	316.21	159.36	126.64	133.16	37.35	19.58	11.93	7.54		
8	7.54	21.43	22.37	284.57	5788.13	146.50	168.11	129.89	35.70	19.58	11.93	7.54		
9	7.54	16.90	19.58	284.57	3173.50	126.64	133.16	126.64	35.70	18.67	11.16	7.54		
10	8.22	17.78	20.49	260.02	2205.56	120.22	168.11	107.70	34.06	18.67	11.16	6.87		
11	6.87	15.19	20.49	190.61	2078.28	172.54	123.42	95.60	34.06	17.78	11.16	6.87		
12	6.87	20.49	20.49	136.46	2400.78	348.85	201.71	89.72	32.46	17.78	10.40	6.87		
13	6.54	23.33	23.33	139.79	1169.21	643.62	139.79	81.12	32.46	17.78	10.40	6.54		
14	6.21	59.55	55.11	107.70	773.99	681.27	113.91	75.54	30.87	16.90	10.40	6.54		
15	6.21	67.40	201.71	89.72	543.55	634.31	107.70	64.75	30.87	16.90	9.66	6.54		
16	6.21	39.03	177.01	81.12	432.25	457.23	98.58	70.08	29.31	16.90	9.66	6.54		
17	6.54	44.20	224.49	78.32	383.59	355.50	89.72	70.08	29.31	16.90	9.66	6.54		
18	7.54	201.71	218.73	101.59	322.66	284.57	86.83	64.75	27.77	16.90	8.93	6.87		
19	8.93	150.75	155.04	81.12	303.43	260.02	81.12	62.14	27.77	16.90	8.93	8.93		
20	7.54	98.58	133.16	113.91	278.37	242.05	78.32	62.14	27.77	16.90	9.66	15.19		
21	6.54	86.83	126.64	81.12	278.37	218.73	107.70	57.00	27.77	16.04	11.16	17.78		
22	11.16	51.40	98.58	70.08	266.09	201.71	117.05	57.00	26.27	16.04	18.67	12.72		
23	11.16	39.03	83.96	62.14	218.73	181.51	110.79	55.11	24.78	16.04	13.53	10.40		
24	7.54	29.31	75.54	67.40	190.61	177.01	126.64	53.24	24.78	15.19	11.16	10.40		
25	7.54	27.77	75.54	78.32	172.54	163.72	123.42	51.40	24.78	15.19	10.40	10.40		
26	20.49	26.27	75.54	129.89	155.04	224.49	508.48	49.57	24.78	15.19	9.66	8.93		
27	30.87	23.33	67.40	129.89	143.13	224.49	309.80	49.57	23.33	14.35	8.93	17.78		
28	20.49	20.49	57.00	159.36	155.04	242.05	329.15	47.76	23.33	14.35	8.22	20.49		
29	12.72	27.77	55.11	190.61	172.54	190.61	322.66	45.97	23.33	13.53		12.72		
30	16.04	30.87	55.11	177.01	172.54	159.36	230.30	44.20	22.37	13.53		9.66		
31		39.03		139.79	168.11		399.61		22.37	13.53		8.93		
Total	302.18	1700.66	2274.45	3946.58	23079.44	7956.92	5300.26	2740.09	954.41	536.88	312.32	295.77	49399.96	Tonday
Mean	10.07	54.86	75.82	127.31	744.50	265.23	170.98	91.34	30.79	17.32	11.15	9.54		Ton/day
Max	30.87	201.71	224.49	284.57	5788.13	681.27	508.48	253.99	42.46	22.37	18.67	20.49	5788.13	Ton/day
Min	6.21	15.19	19.58	62.14	104.63	120.22	78.32	44.20	22.37	13.53	8.22	6.54	6.21	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	24
R-Square	0.9047
Remarks	Continued Sediment Station

$$QS = 5.6084\ QW^{1.47690}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.95	2.97	0.95	0.77	0.95	115.41	0.95	599.96	1.19	0.37	0.11	0.03		
2	4.49	2.64	0.95	0.77	1.19	120.95	2.01	277.87	0.95	0.31	0.11	0.03		
3	6.98	8.64	1.19	0.86	1.19	54.45	6.46	155.90	0.95	0.31	0.11	0.02		
4	2.97	17.01	1.19	0.86	0.86	36.58	24.58	100.56	0.95	0.31	0.11	0.02		
5	2.01	17.01	0.86	0.86	0.86	36.58	168.17	65.84	0.86	0.31	0.11	0.02		
6	1.72	11.02	0.86	0.95	1.19	22.74	105.23	78.31	0.86	0.31	0.11	0.02		
7	1.45	6.46	0.86	1.45	2.01	298.56	60.06	51.71	0.77	0.31	0.11	0.02		
8	0.95	4.49	0.86	2.01	10.11	149.88	115.41	49.02	0.77	0.24	0.11	0.02		
9	0.95	3.31	0.95	2.97	38.73	168.17	51.71	120.95	0.77	0.24	0.11	0.02		
10	0.95	2.97	1.19	3.31	17.01	82.61	30.39	74.08	0.77	0.24	0.11	0.02		
11	0.86	2.64	2.97	2.64	11.96	78.31	15.96	49.02	0.77	0.24	0.11	0.02		
12	0.86	2.32	4.49	1.72	60.06	247.75	19.19	30.39	0.68	0.24	0.09	0.02		
13	0.77	2.64	4.49	1.45	34.48	257.67	28.41	24.58	0.68	0.19	0.09	0.01		
14	0.86	3.67	3.31	1.19	14.92	247.75	12.93	17.01	0.68	0.19	0.09	0.01		
15	0.95	4.49	2.97	1.19	8.64	267.71	8.64	13.91	0.68	0.19	0.09	0.01		
16	2.64	3.67	2.64	0.95	5.94	138.07	5.94	11.02	0.60	0.19	0.07	0.01		
17	2.01	2.97	2.32	0.77	4.03	82.61	4.96	8.64	0.60	0.19	0.07	0.01		
18	6.46	4.49	2.32	0.77	3.31	54.45	3.31	7.52	0.52	0.19	0.07	0.01		
19	3.67	12.93	2.64	1.19	2.64	34.48	2.32	6.98	0.52	0.19	0.05	0.01		
20	2.32	8.64	2.32	6.46	2.01	18.09	1.72	4.96	0.52	0.19	0.05	0.77		
21	1.45	5.94	1.72	3.31	1.45	9.22	30.39	4.03	0.52	0.19	0.07	0.31		
22	1.19	4.49	1.45	3.31	1.19	6.46	18.09	3.67	0.45	0.19	0.09	0.19		
23	1.72	3.67	1.19	1.72	0.86	4.49	28.41	3.31	0.45	0.19	0.07	0.16		
24	1.72	2.97	0.95	1.72	0.77	3.31	15.96	3.31	0.45	0.19	0.07	0.16		
25	1.72	2.32	0.86	2.01	0.68	2.32	78.31	2.97	0.45	0.19	0.05	0.16		
26	1.72	2.32	0.86	2.32	0.68	3.31	1049.48	2.97	0.37	0.19	0.05	0.16		
27	1.45	2.01	0.77	2.32	0.77	4.03	755.23	2.64	0.37	0.16	0.03	0.16		
28	1.45	1.72	0.77	1.72	2.64	2.97	937.12	2.01	0.37	0.16	0.03	0.13		
29	2.64	1.72	0.77	1.45	60.06	2.01	894.19	1.72	0.37	0.16		0.13		
30	4.49	1.72	0.77	1.19	62.93	1.19	493.19	1.45	0.37	0.16		0.13		
31		1.45		0.95	46.37		523.00		0.37	0.13		0.16		
Total	64.37	155.31	50.44	55.16	400.49	2552.13	5491.72	1776.31	19.63	6.86	2.34	2.95	10577.71	Tonday
Mean	2.15	5.01	1.68	1.78	12.92	85.07	177.15	59.21	0.63	0.22	0.08	0.10		Ton/day
Max	6.98	17.01	4.49	6.46	62.93	298.56	1049.48	599.96	1.19	0.37	0.11	0.77	1049.48	Ton/day
Min	0.77	1.45	0.77	0.77	0.68	1.19	0.95	1.45	0.37	0.13	0.03	0.01	0.01	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	36
R-Square	0.8450
Remarks	Continued Sediment Station

$$QS = 0.0001\ QW^{2.90370}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1846.28	2019.96	767.13	630.08	1356.91	1470.08	1779.65	1812.77	630.08	107.40	717.06	767.13		
2	2562.39	1949.26	565.72	657.12	1356.91	1589.27	1812.77	1275.89	333.55	58.75	578.23	733.50		
3	3389.42	1812.77	351.42	369.91	911.73	2689.81	2019.96	750.19	218.14	66.44	166.98	657.12		
4	2777.03	2438.99	553.39	494.37	767.13	2479.68	1499.31	590.92	268.02	61.24	333.55	590.92		
5	2562.39	1949.26	657.12	351.42	801.76	2242.10	1205.74	1160.41	231.71	69.15	461.02	855.59		
6	2358.93	1651.16	408.79	541.23	1010.59	2204.02	1528.91	1116.22	187.28	63.81	471.97	819.44		
7	2019.96	1846.28	505.82	541.23	1275.89	2280.61	1651.16	1182.94	114.88	38.68	471.97	837.39		
8	1714.62	1779.65	630.08	461.02	1984.40	2129.13	1746.94	1275.89	166.98	51.66	494.37	819.44		
9	2092.32	1138.18	439.63	819.44	10785.33	1914.53	1812.77	1182.94	111.10	40.31	439.63	684.90		
10	2129.13	950.48	360.59	1073.14	13867.05	2280.61	2055.93	1880.20	114.88	38.68	360.59	643.51		
11	1302.53	1094.54	565.72	950.48	6169.37	2319.56	1914.53	1880.20	130.84	41.98	360.59	643.51		
12	874.04	819.44	684.90	590.92	5833.48	2777.03	1746.94	1620.02	103.78	31.19	398.83	784.32		
13	970.25	837.39	733.50	450.24	6169.37	3389.42	1914.53	1329.54	111.10	34.06	408.79	1116.22		
14	819.44	874.04	717.06	565.72	4401.21	4265.54	1880.20	1356.91	114.88	35.56	471.97	950.48		
15	590.92	643.51	657.12	553.39	3289.96	4333.03	1620.02	1138.18	118.74	31.19	408.79	565.72		
16	565.72	684.90	590.92	750.19	2911.29	3769.12	1682.69	784.32	86.90	66.44	351.42	505.82		
17	801.76	471.97	483.08	767.13	2204.02	3542.26	1620.02	784.32	96.79	86.90	283.52	590.92		
18	837.39	483.08	733.50	855.59	1714.62	3003.12	1620.02	684.90	103.78	86.90	342.41	616.85		
19	911.73	529.25	717.06	684.90	2019.96	3049.74	1441.23	553.39	107.40	77.69	517.45	1094.54		
20	1182.94	801.76	429.19	541.23	1880.20	2777.03	1412.75	750.19	103.78	66.44	578.23	670.91		
21	950.48	684.90	291.49	643.51	1499.31	2166.37	1620.02	784.32	96.79	66.44	603.79	874.04		
22	801.76	874.04	418.91	670.91	2479.68	1880.20	1714.62	717.06	111.10	86.90	578.23	911.73		
23	1302.53	784.32	657.12	1182.94	2562.39	2242.10	1812.77	684.90	130.84	71.92	578.23	630.08		
24	1412.75	717.06	316.28	1094.54	1441.23	1812.77	1846.28	630.08	122.69	126.72	450.24	717.06		
25	1384.64	670.91	603.79	767.13	1052.01	1846.28	1949.26	541.23	58.75	517.45	541.23	767.13		
26	1714.62	505.82	565.72	837.39	1031.16	2129.13	5352.49	643.51	58.75	750.19	855.59	801.76		
27	874.04	565.72	643.51	1010.59	1252.22	2204.02	7252.49	855.59	66.44	643.51	767.13	750.19		
28	767.13	483.08	700.86	892.76	1228.84	2055.93	7063.96	874.04	71.92	657.12	717.06	590.92		
29	801.76	494.37	616.85	1052.01	1384.64	1558.90	5916.30	874.04	56.32	717.06		616.85		
30	1228.84	565.72	505.82	1356.91	1714.62	1441.23	3828.64	733.50	51.66	684.90		717.06		
31		603.79		1302.53	1812.77		2438.99		86.90	590.92		657.12		
Total	43547.74	31725.60	16872.09	23459.97	88170.05	73842.62	74761.89	30448.61	4366.77	6067.60	13708.87	22982.17	429953.98	Tonday
Mean	1451.59	1023.41	562.40	756.77	2844.20	2461.42	2411.67	1014.95	140.86	195.73	489.60	741.36		Ton/day
Max	3389.42	2438.99	767.13	1356.91	13867.05	4333.03	7252.49	1880.20	630.08	750.19	855.59	1116.22	13867.05	Ton/day
Min	565.72	471.97	291.49	351.42	767.13	1441.23	1205.74	541.23	51.66	31.19	166.98	505.82	31.19	Ton/day

WATER YEAR : 2008

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

Drainge Area	122 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	2008
Number of observation	24
R-Square	0.8383
Remarks	Continued Sediment Station

$$QS = 5.9143\ QW^{1.49830}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.12	0.79	5.22	10.64	15.47	23.34	16.46	22.37	6.45	3.03	1.91	1.12		
2	0.79	1.12	4.08	8.46	15.47	37.66	17.34	20.33	6.45	3.03	1.91	1.12		
3	0.79	4.64	4.08	9.90	14.63	25.47	17.34	19.27	5.83	3.03	1.67	1.12		
4	0.61	4.64	3.54	9.90	14.63	24.47	15.47	18.36	5.83	3.03	1.67	1.12		
5	0.34	4.08	3.03	9.90	14.63	22.37	14.63	17.34	5.22	3.03	1.67	1.12		
6	0.34	1.67	3.03	10.64	23.34	17.34	13.80	15.47	5.22	3.03	1.67	0.93		
7	0.31	1.12	3.03	13.80	17.34	17.34	12.98	12.98	5.22	3.03	1.50	0.93		
8	0.31	1.12	2.55	14.63	968.15	17.34	16.46	12.18	5.22	2.55	1.50	0.93		
9	0.49	1.50	2.09	17.34	194.45	16.46	14.63	12.18	4.64	2.55	1.50	0.79		
10	0.49	2.55	4.08	21.28	135.86	16.46	13.80	11.40	4.64	2.55	1.50	0.79		
11	0.49	1.67	8.46	16.46	85.15	17.34	13.80	10.64	4.64	2.55	1.50	0.79		
12	0.34	6.45	13.80	16.46	80.25	18.36	12.98	9.90	4.64	2.55	1.50	0.79		
13	0.34	3.54	14.63	12.98	69.13	44.23	12.18	9.90	4.64	2.55	1.50	0.79		
14	0.34	2.09	14.63	12.18	56.69	40.98	11.40	9.17	4.64	2.55	1.50	0.79		
15	0.34	2.55	14.63	14.63	44.23	44.23	10.64	9.17	4.64	2.55	1.50	0.79		
16	0.31	1.67	7.10	16.46	51.33	45.97	10.64	9.17	4.08	2.09	1.50	0.79		
17	0.31	1.67	7.77	18.36	28.41	44.23	10.64	9.17	4.08	2.09	1.50	0.79		
18	0.25	4.08	7.77	17.34	29.91	44.23	10.64	9.17	4.08	2.09	1.50	0.93		
19	0.25	3.54	9.90	23.34	31.29	39.31	10.64	8.46	4.08	2.09	1.50	0.93		
20	0.25	2.09	12.98	20.33	37.66	40.98	9.90	8.46	4.08	2.09	1.50	0.93		
21	0.31	3.03	13.80	20.33	45.97	39.31	9.90	8.46	3.54	2.09	1.50	1.12		
22	0.31	3.03	7.10	17.34	31.29	37.66	10.64	8.46	3.54	2.09	1.50	1.12		
23	0.31	3.03	7.10	15.47	34.42	28.41	9.17	8.46	3.54	2.09	1.50	1.12		
24	0.31	3.03	8.46	12.18	25.47	26.92	9.17	7.77	3.03	2.09	1.50	1.12		
25	0.25	3.03	7.77	12.98	23.34	24.47	34.42	7.77	3.03	1.91	1.50	1.12		
26	0.25	4.64	9.17	12.18	17.34	23.34	31.29	7.77	3.03	1.91	1.50	1.12		
27	0.31	2.09	6.45	12.98	17.34	23.34	16.46	7.77	3.03	1.91	1.28	1.12		
28	0.31	1.67	6.45	14.63	18.36	22.37	56.69	7.10	3.03	1.91	1.28	0.93		
29	0.34	4.08	4.64	15.47	34.42	19.27	28.41	7.10	3.03	1.91		0.93		
30	0.49	18.36	9.17	15.47	24.47	17.34	18.36	6.45	3.03	1.91		0.79		
31		8.46		17.34	24.47		17.34		3.03	1.91		0.79		
Total	12.00	107.03	226.51	461.40	2224.91	860.54	508.22	332.20	133.18	73.79	43.06	29.57	5012.41	Tonday
Mean	0.40	3.45	7.55	14.88	71.77	28.68	16.39	11.07	4.30	2.38	1.54	0.95		Ton/day
Max	1.12	18.36	14.63	23.34	968.15	45.97	56.69	22.37	6.45	3.03	1.91	1.12	968.15	Ton/day
Min	0.25	0.79	2.09	8.46	14.63	16.46	9.17	6.45	3.03	1.91	1.28	0.79	0.25	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	22
R-Square	0.8112
Remarks	Continued Sediment Station

$$QS = 6.1150\ QW^{1.43770}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.24	2.13	1.64	4.84	7.95	4.84	6.11	15.39	1.24	0.52	0.40	0.29		
2	0.83	0.83	1.64	37.49	7.95	4.84	16.56	10.95	1.24	0.52	0.40	0.29		
3	0.52	35.37	2.59	24.56	6.11	6.11	12.02	8.92	1.24	0.52	0.40	0.29		
4	0.44	8.92	1.24	16.56	4.84	6.11	8.92	7.01	1.24	0.52	0.40	0.52		
5	0.44	4.84	1.24	14.24	4.28	7.01	7.01	7.01	0.83	0.52	0.40	0.40		
6	0.44	2.13	5.51	9.92	27.98	3.66	7.95	7.01	0.79	0.44	0.40	0.40		
7	0.40	0.83	3.15	9.92	21.27	3.66	6.11	7.01	0.79	0.44	0.40	0.29		
8	0.33	0.79	16.56	12.02	297.80	3.66	4.84	5.51	0.79	0.44	0.40	0.29		
9	0.33	0.69	6.11	10.95	79.80	13.11	4.84	4.84	0.69	0.44	0.40	0.29		
10	0.33	0.65	13.11	9.92	64.53	15.39	7.01	4.84	0.69	0.44	0.40	0.22		
11	0.29	0.65	4.84	6.11	48.63	9.92	5.51	4.28	0.69	0.52	0.33	0.22		
12	0.29	6.11	12.02	16.56	53.32	8.92	7.01	3.66	0.65	0.44	0.33	0.22		
13	0.22	6.11	6.11	15.39	53.32	22.83	4.84	3.15	0.65	0.44	0.33	0.22		
14	0.22	5.51	13.11	14.24	37.49	18.13	4.84	3.66	0.65	0.44	0.33	0.22		
15	0.22	5.51	33.29	26.18	26.18	14.24	4.28	2.59	0.56	0.52	0.33	0.22		
16	0.22	4.28	13.11	9.92	22.83	16.56	4.28	2.59	0.56	0.44	0.33	0.22		
17	0.22	3.66	7.01	7.95	18.13	22.83	4.28	2.59	0.56	0.44	0.33	0.19		
18	0.22	9.92	5.51	7.95	15.39	15.39	3.66	2.59	0.56	0.44	0.29	0.22		
19	0.22	6.11	6.11	19.62	12.02	16.56	3.15	2.59	0.52	0.44	0.29	0.22		
20	0.22	3.66	6.11	19.62	18.13	13.11	3.66	2.59	0.52	0.44	0.29	0.56		
21	0.22	3.66	4.84	9.92	13.11	12.02	3.66	2.59	0.52	0.44	0.29	3.66		
22	0.22	13.11	3.66	7.95	27.98	10.95	4.28	2.13	0.52	0.44	0.69	0.69		
23	0.19	7.01	3.15	5.51	19.62	8.92	3.66	2.13	0.52	0.44	0.52	0.65		
24	0.22	3.66	2.59	5.51	13.11	8.92	3.15	2.13	0.52	0.44	0.44	0.44		
25	0.33	3.15	2.13	6.11	10.95	8.92	4.28	2.13	0.52	0.44	0.40	0.44		
26	0.40	2.13	6.11	8.92	8.92	8.92	13.11	1.64	0.44	0.44	0.33	0.40		
27	0.40	0.65	3.66	12.02	7.95	7.95	13.11	1.64	0.44	0.44	0.29	0.52		
28	0.44	0.56	2.13	10.95	7.01	7.95	48.63	1.24	0.44	0.44	0.29	0.69		
29	0.52	2.59	2.13	7.01	6.11	6.11	14.24	1.24	0.56	0.40		0.52		
30	0.69	1.64	7.01	6.11	6.11	6.11	8.92	1.24	0.56	0.40		0.40		
31		1.24		7.95	5.51		21.27		0.56	0.40		0.33		
Total	11.27	148.10	197.42	381.92	954.33	313.65	265.19	126.89	21.06	14.08	10.43	14.53	2458.87	Tonday
Mean	0.38	4.78	6.58	12.32	30.78	10.46	8.55	4.23	0.68	0.45	0.37	0.47		Ton/day
Max	1.24	35.37	33.29	37.49	297.80	22.83	48.63	15.39	1.24	0.52	0.69	3.66	297.80	Ton/day
Min	0.19	0.56	1.24	4.84	4.28	3.66	3.15	1.24	0.44	0.40	0.29	0.19	0.19	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	26
R-Square	0.8525
Remarks	Continued Sediment Station

$$QS = 4.8135\ QW^{1.49160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.14	1.51	1.71	5.55	14.66	5.25	5.55	34.71	1.71	0.68	0.57	0.28		
2	0.96	2.83	3.58	5.25	11.76	17.00	71.95	12.64	1.71	0.68	0.57	0.28		
3	1.32	10.07	3.32	40.21	9.25	9.25	10.90	9.25	1.51	0.57	0.57	0.28		
4	1.14	13.54	2.59	9.25	6.96	5.55	7.70	7.70	1.51	0.57	0.57	0.57		
5	1.14	4.96	2.59	18.21	4.96	5.25	23.32	6.24	1.51	0.57	0.47	0.80		
6	1.14	3.07	2.83	18.21	32.26	5.25	12.64	5.55	1.51	0.57	0.47	0.68		
7	0.96	2.36	2.83	13.54	37.35	4.96	9.25	5.25	1.51	0.57	0.47	0.68		
8	0.96	1.51	2.36	19.45	764.08	4.96	11.76	4.96	1.51	0.57	0.47	0.57		
9	0.96	1.32	2.14	34.02	204.55	28.57	7.70	4.67	1.32	0.47	0.47	0.37		
10	0.68	1.14	15.82	32.26	161.71	7.70	6.96	4.39	1.32	0.47	0.47	0.28		
11	0.47	0.80	4.11	22.00	65.06	7.70	5.55	3.84	1.32	0.47	0.47	0.28		
12	0.47	9.25	2.36	10.90	158.30	28.57	9.25	3.84	1.32	0.47	0.47	0.28		
13	0.37	10.90	5.55	8.46	88.08	43.43	6.24	3.32	1.32	0.47	0.47	0.28		
14	0.37	3.84	9.25	43.43	61.37	40.94	4.96	3.32	1.32	0.37	0.47	0.28		
15	0.28	3.84	39.49	10.07	41.66	26.65	4.39	3.32	1.14	0.37	0.47	0.20		
16	0.28	2.83	19.45	11.76	33.47	26.65	4.39	3.07	1.14	0.37	0.47	0.20		
17	0.20	2.59	7.70	13.54	29.22	31.06	4.96	2.83	1.14	0.37	0.47	0.20		
18	0.03	3.58	6.96	11.76	26.40	19.45	4.39	2.83	1.14	0.37	0.47	0.20		
19	0.03	3.84	11.76	28.96	14.66	20.71	4.11	2.59	1.14	0.37	0.57	0.47		
20	0.03	3.07	9.25	34.02	31.59	23.32	3.58	2.36	1.14	0.37	0.57	1.14		
21	0.37	4.11	7.70	10.90	23.32	10.90	3.58	2.36	1.14	0.37	0.47	2.83		
22	0.37	2.83	22.00	9.25	26.02	9.25	3.32	2.36	1.14	0.37	1.51	1.32		
23	0.37	4.67	4.96	5.55	41.66	8.46	4.39	1.92	0.96	0.37	0.80	0.80		
24	0.28	3.32	5.25	5.25	26.02	6.96	3.84	1.92	0.96	0.37	0.80	0.80		
25	0.20	1.51	3.84	4.39	13.54	6.96	3.32	1.92	0.80	0.37	0.68	0.68		
26	0.28	1.92	4.11	14.66	10.90	6.96	35.95	1.71	0.68	0.37	0.57	0.68		
27	0.37	1.51	3.84	42.40	10.07	6.96	62.54	1.71	0.80	0.47	0.47	0.47		
28	0.37	1.32	3.32	35.95	7.70	12.64	62.54	1.71	0.80	0.57	0.47	1.14		
29	0.37	1.92	2.83	14.66	6.96	14.66	20.71	1.71	0.80	0.68		0.80		
30	0.80	2.59	2.59	11.76	6.96	8.46	9.25	1.71	0.80	0.68		0.68		
31		1.92		8.46	6.96		26.40		0.80	0.57		0.68		
Total	16.71	114.47	216.09	554.08	1977.46	454.43	455.39	145.71	36.92	14.91	15.77	19.20	4021.14	Tonday
Mean	0.56	3.69	7.20	17.87	63.79	15.15	14.69	4.86	1.19	0.48	0.56	0.62		Ton/day
Max	1.32	13.54	39.49	43.43	764.08	43.43	71.95	34.71	1.71	0.68	1.51	2.83	764.08	Ton/day
Min	0.03	0.80	1.71	4.39	4.96	4.96	3.32	1.71	0.68	0.37	0.47	0.20	0.03	Ton/day

WATER YEAR : 2008

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

Drainge 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	1998-2008
Number of observation	151
R-Square	0.9420
Remarks	Continued Sediment Station

$$QS = 9.3067\ QW^{1.62840}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.57	5.21	0.85	1.17	0.68	0.57	1.93	289.17	1.53	0.57	0.34	0.15		
2	2.35	3.01	0.85	1.17	0.68	0.57	1.93	155.21	1.31	0.57	0.34	0.15		
3	14.27	37.41	1.68	1.17	0.68	0.57	1.93	80.08	1.31	0.57	0.34	0.15		
4	1.93	122.98	2.54	0.97	0.68	1.93	1.93	46.91	1.31	0.57	0.34	0.15		
5	1.68	37.41	1.93	0.97	0.68	5.83	2.09	37.41	1.31	0.57	0.34	0.15		
6	1.53	11.69	1.31	0.97	0.68	6.47	2.35	31.88	1.31	0.57	0.34	0.15		
7	1.31	4.61	5.21	0.97	0.68	7.14	7.14	33.60	1.17	0.42	0.34	0.15		
8	1.17	2.82	13.04	0.97	0.68	4.05	7.14	39.51	1.17	0.42	0.34	0.15		
9	1.17	2.54	2.82	0.97	0.68	13.04	2.82	44.11	1.17	0.42	0.34	0.15		
10	1.17	2.09	1.93	0.85	0.68	3.52	2.35	28.31	1.17	0.42	0.34	0.07		
11	1.17	2.09	1.53	0.85	0.68	5.21	1.93	17.04	0.97	0.42	0.34	0.07		
12	0.97	2.09	1.53	0.85	0.68	28.31	122.98	11.69	0.97	0.42	0.34	0.07		
13	0.97	2.09	1.53	0.85	0.68	13.04	17.04	9.31	0.97	0.42	0.34	0.07		
14	0.97	2.09	1.53	0.85	0.68	10.55	7.14	7.14	0.85	0.42	0.34	0.07		
15	0.97	2.09	1.53	0.85	0.68	5.83	5.21	5.83	0.85	0.42	0.34	0.07		
16	1.31	1.93	1.53	0.85	0.68	4.61	3.01	5.83	0.85	0.42	0.34	0.15		
17	1.17	1.68	1.53	0.85	0.68	3.52	2.82	4.61	0.85	0.42	0.34	0.07		
18	0.97	1.68	1.53	0.68	0.68	3.01	2.54	3.01	0.68	0.42	0.34	0.07		
19	0.97	2.09	1.53	0.85	0.57	2.82	2.35	3.01	0.68	0.42	0.34	0.07		
20	0.97	2.09	1.53	0.85	0.57	2.82	2.09	3.01	0.68	0.42	0.34	0.07		
21	0.97	1.93	2.09	0.97	0.57	2.82	7.84	2.82	0.68	0.42	0.34	0.07		
22	0.97	1.68	1.53	0.85	0.57	2.54	3.01	2.54	0.68	0.42	0.34	0.07		
23	5.21	1.31	1.53	0.85	0.57	2.54	7.14	2.35	0.57	0.42	0.34	0.07		
24	1.31	1.17	1.31	0.85	0.57	2.35	7.14	2.09	0.57	0.42	0.22	0.07		
25	10.55	1.17	1.31	0.85	0.57	2.35	155.21	2.09	0.57	0.42	0.22	0.07		
26	75.95	1.17	1.31	0.85	0.57	2.09	1124.91	1.93	0.57	0.42	0.22	0.07		
27	13.04	0.97	1.17	0.85	0.57	2.09	351.46	1.93	0.57	0.42	0.15	0.15		
28	18.60	0.97	1.17	0.68	0.57	2.09	1648.98	1.68	0.57	0.42	0.15	0.15		
29	35.62	0.97	1.17	0.85	0.57	2.09	1365.34	1.53	0.57	0.34		0.15		
30	18.60	0.97	1.17	0.68	0.57	1.93	464.01	1.53	0.57	0.42		0.15		
31		0.85		0.68	0.57		239.58		0.57	0.34		0.22		
Total	218.41	262.85	61.22	27.47	19.65	146.30	5573.34	877.16	27.60	13.76	8.78	3.44	7239.98	Tonday
Mean	7.28	8.48	2.04	0.89	0.63	4.88	179.79	29.24	0.89	0.44	0.31	0.11		Ton/day
Max	75.95	122.98	13.04	1.17	0.68	28.31	1648.98	289.17	1.53	0.57	0.34	0.22	1648.98	Ton/day
Min	0.57	0.85	0.85	0.68	0.57	0.57	1.93	1.53	0.57	0.34	0.15	0.07	0.07	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	30
R-Square	0.8370
Remarks	Continued Sediment Station

$$QS = 6.7606\ QW^{1.34720}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	2.03	7.50	12.31	42.29	14.92	13.17	33.77	6.31	4.18	2.44	1.28		
2	7.50	2.44	9.03	11.46	37.97	22.48	23.48	18.60	6.31	4.18	2.44	1.28		
3	3.02	10.64	9.83	43.76	35.16	17.67	16.74	14.92	6.31	4.18	2.24	1.28		
4	2.03	8.26	8.26	19.56	22.48	14.92	17.67	14.04	6.31	3.78	2.24	2.66		
5	1.84	6.31	6.76	15.82	14.92	13.17	19.56	14.04	6.31	3.78	2.24	1.84		
6	1.64	4.59	6.31	21.50	57.99	13.17	14.92	13.17	5.87	3.78	2.24	1.64		
7	1.46	3.40	6.31	15.82	63.28	13.17	14.04	13.17	5.87	3.78	2.24	1.28		
8	1.28	3.02	5.87	18.60	1292.11	13.17	14.04	13.17	5.87	3.78	2.03	1.10		
9	1.28	2.66	5.43	19.56	461.58	23.48	13.17	12.31	5.87	3.78	2.03	1.10		
10	1.10	2.66	5.87	33.77	250.38	15.82	13.17	11.46	5.43	3.78	2.03	0.93		
11	1.10	3.02	13.17	27.06	166.81	14.04	13.17	11.46	5.43	3.78	2.03	0.77		
12	0.93	11.46	19.56	20.52	155.26	17.67	13.17	10.64	5.43	3.78	1.84	0.67		
13	0.93	6.31	9.03	18.60	146.74	35.16	13.17	10.64	5.43	3.78	1.84	0.67		
14	0.93	5.01	8.26	59.74	105.93	27.06	13.17	10.64	5.43	3.78	1.64	0.57		
15	0.77	5.01	16.74	19.56	79.84	20.52	13.17	9.83	5.01	3.40	1.64	0.57		
16	0.77	4.59	14.92	16.74	63.28	32.40	12.31	9.83	5.01	3.40	1.64	0.57		
17	0.77	4.59	13.17	17.67	57.99	63.28	12.31	9.83	5.01	3.40	1.64	0.57		
18	0.77	5.87	21.50	15.82	45.24	33.77	11.46	9.03	5.01	3.40	1.64	0.67		
19	0.77	7.50	17.67	20.52	37.97	49.76	11.46	9.03	5.01	3.40	1.46	1.64		
20	0.77	13.17	14.92	91.75	57.99	35.16	11.46	8.26	4.59	3.40	1.46	2.44		
21	1.10	18.60	18.60	25.77	45.24	24.49	10.64	8.26	4.59	3.02	1.46	2.66		
22	1.28	11.46	22.48	16.74	36.56	20.52	10.64	8.26	4.59	3.02	2.44	2.03		
23	1.28	10.64	12.31	14.92	42.29	17.67	10.64	7.50	4.59	3.02	2.24	1.64		
24	1.10	16.74	10.64	13.17	29.70	15.82	10.64	7.50	4.59	3.02	1.84	1.46		
25	1.10	14.04	10.64	13.17	28.37	15.82	13.17	7.50	4.59	3.02	1.64	1.28		
26	1.10	25.77	11.46	14.92	25.77	15.82	45.24	7.50	4.59	2.66	1.64	1.10		
27	1.84	9.83	12.31	19.56	23.48	15.82	18.60	6.76	4.18	2.66	1.46	1.64		
28	1.46	7.50	12.31	20.52	17.67	22.48	68.69	6.76	4.18	2.44	1.46	2.44		
29	1.46	7.50	10.64	33.77	45.24	18.60	16.74	6.76	4.18	2.44		1.84		
30	1.46	11.46	9.83	17.67	18.60	14.92	14.04	6.76	4.18	2.44		1.28		
31		10.64		23.48	15.82		18.60		4.18	2.44		1.28		
Total	43.94	256.72	351.33	733.83	3523.95	672.75	522.45	331.40	160.26	104.70	53.18	42.18	6796.69	Tonday
Mean	1.46	8.28	11.71	23.67	113.68	22.43	16.85	11.05	5.17	3.38	1.90	1.36		Ton/day
Max	7.50	25.77	22.48	91.75	1292.11	63.28	68.69	33.77	6.31	4.18	2.44	2.66	1292.11	Ton/day
Min	0.77	2.03	5.43	11.46	14.92	13.17	10.64	6.76	4.18	2.44	1.46	0.57	0.57	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	22
R-Square	0.9601
Remarks	Continued Sediment Station

$$QS = 2.3573\ QW^{1.53800}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.33	20.65	2.73	3.12	6.53	85.91	6.53	732.80	13.17	1.30	0.81	0.67		
2	6.53	17.27	2.73	3.53	6.53	69.90	11.36	408.89	12.25	1.30	0.81	0.67		
3	18.37	18.37	2.73	3.53	5.82	46.80	15.13	242.65	9.65	1.30	0.81	0.67		
4	28.02	30.64	2.73	3.53	4.40	41.55	20.65	182.02	9.65	1.30	0.81	0.67		
5	24.23	41.55	2.73	3.53	2.36	106.59	26.74	151.17	8.04	1.30	0.81	0.67		
6	14.10	37.56	2.73	3.53	2.36	151.17	31.99	166.34	7.27	1.13	0.81	1.13		
7	12.25	29.32	2.73	3.53	2.36	211.31	34.74	176.74	5.33	1.13	0.81	0.67		
8	13.17	24.23	2.73	3.53	2.73	279.32	30.64	136.51	5.82	0.97	0.81	0.67		
9	19.50	19.50	2.73	2.36	9.65	310.74	29.32	335.67	5.33	0.97	0.81	0.67		
10	14.10	16.19	3.53	2.36	30.64	279.32	29.32	279.32	4.86	0.97	0.67	0.67		
11	10.49	12.25	3.96	2.36	21.82	302.77	24.23	182.02	4.86	0.97	0.67	0.67		
12	12.25	11.36	3.12	2.36	17.27	390.11	96.06	132.63	4.40	0.97	0.67	0.67		
13	12.25	11.36	3.96	2.36	16.19	946.27	793.02	103.04	3.96	0.97	0.67	0.67		
14	8.83	10.49	3.12	2.36	15.13	1058.29	264.06	79.37	3.96	0.81	0.67	0.67		
15	7.27	11.36	2.73	2.36	12.25	498.53	117.51	63.83	3.53	0.81	0.67	0.81		
16	5.82	12.25	3.53	2.36	9.65	256.54	73.01	52.27	4.40	0.81	0.67	1.13		
17	5.33	15.13	4.40	2.36	7.27	171.51	46.80	44.15	3.53	0.81	0.67	0.67		
18	4.40	24.23	5.33	2.36	4.86	124.99	36.14	39.00	2.36	0.81	0.67	0.67		
19	3.96	55.08	3.53	2.36	3.53	99.53	166.34	37.56	2.73	0.81	0.67	0.67		
20	3.96	44.15	3.96	2.36	2.73	79.37	928.61	49.51	2.73	0.81	0.67	0.81		
21	3.96	44.15	5.33	2.36	2.73	69.90	595.97	39.00	2.73	0.81	0.67	0.97		
22	3.53	24.23	4.86	2.36	2.73	57.95	318.77	31.99	2.36	0.81	0.67	4.40		
23	3.53	16.19	4.40	2.36	2.73	44.15	249.10	29.32	2.00	0.81	0.67	7.27		
24	3.53	12.25	3.96	2.36	2.36	33.35	205.23	25.47	2.73	0.81	0.67	4.40		
25	3.53	8.04	3.12	2.36	2.36	28.02	310.74	23.02	2.00	0.81	0.67	3.53		
26	3.96	5.33	2.73	2.73	5.33	24.23	3340.52	21.82	1.48	0.81	0.67	20.65		
27	7.27	4.86	2.73	3.12	16.19	21.82	2666.86	20.65	1.30	0.81	0.67	21.82		
28	12.25	4.40	2.73	14.10	12.25	20.65	1077.69	18.37	1.30	0.81	0.67	18.37		
29	29.32	4.40	2.73	12.25	34.74	20.65	1116.86	16.19	1.48	0.81		12.25		
30	23.02	3.96	2.73	9.65	60.86	15.13	646.92	14.10	1.48	0.81		5.82		
31		3.12		8.04	82.62		793.02		1.48	0.81		3.53		
Total	324.06	593.87	101.06	117.84	408.98	5846.37	14103.88	3835.42	138.17	29.16	20.02	117.61	25636.44	Tonday
Mean	10.80	19.16	3.37	3.80	13.19	194.88	454.96	127.85	4.46	0.94	0.72	3.79		Ton/day
Max	29.32	55.08	5.33	14.10	82.62	1058.29	3340.52	732.80	13.17	1.30	0.81	21.82	3340.52	Ton/day
Min	3.53	3.12	2.73	2.36	2.36	15.13	6.53	14.10	1.30	0.81	0.67	0.67	0.67	Ton/day

WATER YEAR : 2008

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

Drainge 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	1998-2008
Number of observation	130
R-Square	0.8627
Remarks	Continued Sediment Station

$$QS = 4.3961\ QW^{1.33420}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	107.77	643.88	141.63	134.68	429.38	3270.78	4054.35	76.40	14.93	4.40	1.74		
2	207.90	127.81	411.00	170.30	76.40	429.38	3378.78	4628.25	64.65	14.93	4.40	4.40		
3	2694.49	127.81	322.25	504.85	114.35	447.96	5334.91	3899.44	53.41	14.93	7.55	4.40		
4	2979.14	127.81	945.15	0.00	134.68	215.64	6912.12	4073.82	48.00	14.93	7.55	4.40		
5	1134.18	134.68	790.91	0.00	163.01	215.64	6558.59	7572.08	48.00	11.08	4.40	4.40		
6	170.30	127.81	357.10	0.00	2164.25	504.85	3015.22	7511.47	48.00	11.08	4.40	11.08		
7	127.81	127.81	322.25	64.65	900.38	1101.30	2485.80	1336.38	42.74	11.08	4.40	11.08		
8	134.68	127.81	305.17	114.35	177.67	748.14	357.10	748.14	42.74	11.08	4.40	7.55		
9	127.81	127.81	305.17	790.91	163.01	664.42	322.25	643.88	32.70	7.55	4.40	7.55		
10	11.08	134.68	339.57	990.45	155.80	790.91	643.88	411.00	32.70	7.55	4.40	11.08		
11	1.74	101.28	357.10	1774.72	1405.58	3087.70	305.17	305.17	23.39	7.55	4.40	11.08		
12	23.39	70.46	543.70	1101.30	3409.79	9994.16	215.64	200.23	23.39	4.40	4.40	4.40		
13	23.39	623.51	1268.06	322.25	2065.07	11991.77	192.63	177.67	48.00	4.40	4.40	4.40		
14	23.39	4230.42	790.91	215.64	2907.31	5579.45	170.30	163.01	127.81	4.40	4.40	4.40		
15	23.39	12470.70	339.57	155.80	3015.22	2281.41	141.63	155.80	107.77	4.40	4.40	4.40		
16	23.39	11686.38	215.64	4.40	1618.30	4568.01	134.68	134.68	23.39	4.40	4.40	4.40		
17	23.39	4015.48	215.64	134.68	447.96	10287.93	121.04	141.63	19.04	4.40	4.40	7.55		
18	23.39	1440.51	339.57	121.04	207.90	12742.15	134.68	155.80	14.93	4.40	4.40	7.55		
19	42.74	967.73	322.25	127.81	447.96	18629.59	215.64	141.63	14.93	4.40	4.40	0.00		
20	53.41	967.73	215.64	127.81	1405.58	6051.52	215.64	134.68	14.93	4.40	4.40	0.00		
21	32.70	990.45	207.90	121.04	623.51	3332.38	288.33	127.81	14.93	4.40	4.40	0.00		
22	141.63	1036.28	207.90	127.81	357.10	1582.33	339.57	127.81	14.93	4.40	4.40	0.00		
23	834.27	223.45	207.90	76.40	357.10	748.14	705.97	121.04	14.93	4.40	4.40	11.08		
24	2967.14	223.45	121.04	177.67	200.23	374.86	705.97	107.77	14.93	4.40	4.40	88.62		
25	1440.51	215.64	70.46	148.67	200.23	207.90	790.91	107.77	14.93	4.40	4.40	19.04		
26	2991.15	239.28	94.90	141.63	185.11	170.30	3136.26	107.77	14.93	4.40	4.40	19.04		
27	2835.92	207.90	76.40	141.63	148.67	148.67	9349.08	101.28	14.93	4.40	4.40	19.04		
28	2624.46	231.33	88.62	134.68	223.45	271.72	10386.33	101.28	14.93	4.40	4.40	7.55		
29	192.63	812.52	76.40	127.81	769.45	4230.42	4230.42	101.28	14.93	4.40		7.55		
30	88.62	357.10	76.40	121.04	1101.30	3111.96	3899.44	101.28	14.93	4.40		7.55		
31		664.42		114.35	466.73		6325.52		14.93	4.40		7.55		
Total	21998.04	43047.82	10578.45	8295.32	25747.78	104939.99	74284.28	37694.20	1071.15	214.69	129.50	302.88	328304.10	Tonday
Mean	733.27	1388.64	352.61	267.59	830.57	3498.00	2396.27	1256.47	34.55	6.93	4.63	9.77		Ton/day
Max	2991.15	12470.70	1268.06	1774.72	3409.79	18629.59	10386.33	7572.08	127.81	14.93	7.55	88.62	18629.59	Ton/day
Min	0.00	70.46	70.46	0.00	76.40	148.67	121.04	101.28	14.93	4.40	4.40	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2005-2008
Number of observation	21
R-Square	0.8884
Remarks	Continued Sediment Station

$$QS = 8.9643\ QW^{1.02490}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	3.77	20.11	21.99	6.49	3.33	64.90	524.48	723.06	14.98	2.17	0.00	0.00		
2	3.50	13.58	13.58	6.04	7.59	67.79	874.71	813.15	11.27	2.17	0.00	0.00		
3	2.88	14.05	20.58	5.31	15.91	67.79	1079.60	859.31	9.42	2.17	0.00	0.00		
4	1.99	20.11	19.18	4.41	32.84	71.66	1213.98	797.26	8.51	2.43	0.00	0.00		
5	2.43	26.69	24.81	4.22	45.70	72.62	1434.92	654.15	7.41	3.06	0.00	0.00		
6	1.99	30.47	30.00	4.22	78.43	62.01	1715.64	649.05	6.95	3.33	0.25	0.00		
7	1.72	29.06	29.53	3.50	106.63	62.01	1865.59	661.80	6.22	3.95	0.42	0.00		
8	2.61	21.52	25.28	2.61	73.59	68.76	1758.97	763.98	5.76	4.41	0.42	0.00		
9	3.33	10.81	16.84	2.61	55.28	61.05	1554.56	595.58	5.31	5.13	0.85	0.00		
10	2.88	7.59	11.73	3.33	38.07	68.76	1305.15	411.21	4.86	4.41	0.25	0.00		
11	1.99	13.58	8.96	21.99	33.32	107.60	978.57	290.70	4.86	4.22	0.00	0.00		
12	1.72	16.84	14.51	23.40	41.88	207.04	623.58	223.42	4.68	4.68	0.00	0.00		
13	1.55	19.18	16.84	7.41	123.24	449.56	316.72	174.39	4.86	4.22	0.00	0.00		
14	1.99	31.42	20.58	6.22	161.56	694.97	250.28	152.70	6.49	3.50	0.00	0.00		
15	3.06	59.12	17.31	6.68	170.44	902.44	214.48	126.18	7.41	2.88	0.00	0.00		
16	1.99	182.29	14.51	5.76	158.60	942.54	176.36	101.75	7.41	3.33	0.00	0.00		
17	1.72	306.70	13.12	5.76	135.99	1029.05	158.60	84.25	7.13	3.50	0.00	0.00		
18	2.17	519.41	11.73	5.76	104.67	1450.51	141.88	67.79	7.13	2.88	0.00	0.00		
19	3.50	344.80	13.58	6.68	122.26	1928.37	123.24	57.20	7.59	1.99	0.00	0.00		
20	3.77	118.35	21.05	7.13	250.28	2211.49	110.53	46.65	6.95	1.11	0.00	0.00		
21	3.95	55.28	25.75	5.76	504.20	2412.32	106.63	38.07	6.68	0.00	0.00	0.00		
22	3.77	32.84	20.58	6.68	638.86	2375.48	111.51	34.74	5.76	0.00	0.00	0.00		
23	4.68	27.64	18.24	7.13	643.96	2198.89	113.46	30.95	5.76	0.00	0.00	0.00		
24	5.58	27.64	12.66	6.68	521.94	1909.53	143.84	27.64	6.22	0.00	0.00	0.00		
25	6.22	74.56	8.32	6.04	318.72	1623.84	160.58	24.81	6.68	1.11	0.00	0.00		
26	6.68	120.31	6.22	4.86	211.50	1351.83	175.37	22.93	6.04	1.28	0.00	0.00		
27	7.13	119.33	4.41	3.33	163.53	954.89	202.58	20.58	4.41	0.42	0.00	0.00		
28	8.51	89.10	3.95	1.99	135.01	537.16	275.71	18.24	3.95	0.25	0.00	0.00		
29	16.84	48.57	5.31	1.72	98.83	283.20	383.00	16.37	3.50	0.00		0.00		
30	24.34	28.58	6.22	1.55	73.59	368.92	519.41	15.44	2.88	0.00		0.00		
31		41.88		2.43	61.05		646.50		2.17	0.00		0.00		
Total	138.26	2471.41	477.37	187.70	5130.80	24606.98	19260.43	8503.35	199.25	68.60	2.19	0.00	61046.34	Tonday
Mean	4.61	79.72	15.91	6.05	165.51	820.23	621.30	283.44	6.43	2.21	0.08	0.00		Ton/day
Max	24.34	519.41	30.00	23.40	643.96	2412.32	1865.59	859.31	14.98	5.13	0.85	0.00	2412.32	Ton/day
Min	1.55	7.59	3.95	1.55	3.33	61.05	106.63	15.44	2.17	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	1998-2008
Number of observation	174
R-Square	0.8940
Remarks	Continued Sediment Station

$$QS = 6.1304\ QW^{1.16630}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	1.10	618.43	779.93	102.61	71.33	649.60	4718.97	4645.27	71.33	34.78	31.24	54.01		
2	397.91	377.25	653.08	93.06	170.96	642.66	5239.33	5194.43	53.23	31.24	32.69	51.68		
3	346.55	318.75	552.01	107.43	474.06	587.49	5479.74	5404.44	56.26	32.69	30.61	47.25		
4	115.54	298.75	573.81	115.54	855.34	582.01	5613.74	5149.58	52.45	33.42	27.13	47.25		
5	48.68	200.60	684.49	326.30	1157.00	535.75	5987.93	5562.73	47.92	30.61	23.02	48.68		
6	48.68	86.77	674.00	276.47	1752.83	723.16	6236.71	4123.32	44.96	31.24	26.43	47.92		
7	200.60	83.65	498.07	120.45	2004.31	584.75	6294.33	4123.32	47.25	30.61	23.02	41.28		
8	190.06	85.21	382.40	174.41	1391.08	1202.41	6236.71	4377.71	36.25	30.61	29.18	42.78		
9	160.66	88.34	308.73	271.56	920.75	964.72	5359.34	3600.00	27.84	25.72	31.24	42.78		
10	140.35	88.34	458.15	439.69	571.07	723.16	5359.34	2414.72	24.41	30.61	30.61	29.18		
11	122.09	89.91	632.26	576.54	316.24	1040.14	4718.97	1685.76	22.34	30.61	25.72	33.42		
12	75.92	94.64	452.87	737.29	830.09	2168.48	3758.43	1197.86	21.05	27.13	25.72	32.69		
13	104.22	130.34	571.07	947.10	1854.95	3685.32	2508.86	830.09	25.72	20.37	31.96	25.02		
14	47.25	372.10	769.24	855.34	2175.09	3971.75	1691.33	653.08	27.84	27.84	25.02	23.02		
15	42.78	969.14	554.73	530.34	2181.70	4837.22	1243.49	471.41	38.38	26.43	27.13	21.05		
16	36.25	2208.16	259.32	256.88	2063.20	5000.49	851.73	395.32	29.18	25.72	19.02	50.90		
17	132.00	2671.40	184.82	170.96	1344.71	5647.79	597.78	328.82	25.72	33.42	20.37	37.64		
18	10.30	3106.44	179.61	128.69	964.72	6506.22	476.72	323.78	32.69	32.69	7.36	35.52		
19	6.20	3028.38	354.19	109.05	804.95	7186.90	413.51	377.25	23.72	28.46	9.08	33.42		
20	4.59	1777.68	562.89	145.39	1013.43	7639.33	413.51	326.30	31.24	36.25	21.05	36.99		
21	2.04	1330.84	387.56	118.81	1340.08	8015.98	490.05	266.65	30.61	19.69	25.72	27.84		
22	1.10	787.07	410.90	183.08	2122.33	8355.15	604.65	204.14	21.05	19.69	34.14	35.52		
23	0.72	639.19	244.75	122.09	2307.78	8295.15	364.41	169.23	27.84	21.73	27.13	27.13		
24	0.72	716.10	145.39	104.22	1874.33	7956.34	804.95	155.54	27.13	35.52	29.18	27.84		
25	0.72	804.95	93.06	97.82	1475.11	7324.18	969.14	142.03	25.02	27.84	33.42	72.85		
26	12.72	608.09	79.00	101.01	1363.23	6506.22	977.97	123.73	31.96	27.13	34.14	46.48		
27	37.64	614.98	62.28	132.00	931.71	5224.36	1526.81	112.29	31.24	21.05	31.24	56.26		
28	306.23	405.70	68.30	93.06	584.75	4262.97	2495.38	105.82	27.84	22.34	42.78	51.68		
29	568.35	408.30	71.33	72.85	283.87	3720.96	2950.61	91.48	30.61	25.72		29.18		
30	177.87	614.98	66.79	59.31	649.60	4301.17	3245.89	71.33	27.13	21.73		42.78		
31		719.63		52.45	977.97		3833.52		33.42	30.61		34.78		
Total	3339.84	24344.11	11715.03	7621.80	36828.57	118841.83	91463.85	52627.43	1053.63	873.50	755.35	1234.82	350699.76	Tonday
Mean	111.33	785.29	390.50	245.86	1188.02	3961.39	2950.45	1754.25	33.99	28.18	26.98	39.83		Ton/day
Max	568.35	3106.44	779.93	947.10	2307.78	8355.15	6294.33	5562.73	71.33	36.25	42.78	72.85	8355.15	Ton/day
Min	0.72	83.65	62.28	52.45	71.33	535.75	364.41	71.33	21.05	19.69	7.36	21.05	0.72	Ton/day

WATER YEAR : 2008

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

Drainge 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
Number of observation	26
R-Square	0.7540
Remarks	Continued Sediment Station

$$QS = 5.4526\ QW^{1.30650}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	3.42	2.62	2.03	4.07	4.27	137.09	181.06	3.88	1.76	0.75	0.06		
2	0.00	1.92	2.20	2.03	5.31	5.24	441.84	140.14	3.88	1.65	0.75	0.75		
3	0.00	1.76	2.03	4.55	8.46	4.27	181.06	56.66	3.88	1.65	0.67	0.58		
4	0.00	4.27	2.50	3.55	4.61	4.75	614.49	71.90	3.88	1.54	0.67	0.46		
5	0.00	2.09	2.68	2.98	3.88	4.41	184.31	81.16	3.88	1.54	0.67	0.34		
6	0.00	1.54	3.55	3.88	3.55	4.41	119.17	234.57	3.88	1.54	0.67	0.27		
7	0.00	3.29	4.41	3.29	2.98	4.55	71.90	79.82	3.88	1.49	0.67	0.27		
8	0.00	3.11	3.11	2.80	90.68	5.10	65.44	56.66	3.88	1.28	0.54	0.20		
9	0.00	1.38	2.50	50.57	184.31	7.68	70.59	41.18	3.88	1.28	0.54	0.17		
10	0.00	1.54	2.32	96.23	107.56	6.18	61.64	32.27	3.88	1.28	0.46	0.11		
11	0.00	0.80	2.09	29.07	197.43	122.12	43.49	24.92	3.88	1.28	0.38	0.34		
12	0.00	65.44	1.92	14.37	241.48	3393.97	36.66	20.93	3.88	1.23	0.34	0.27		
13	0.00	313.97	4.07	5.31	429.90	5402.48	29.07	17.11	3.74	1.23	0.34	0.20		
14	0.00	300.22	19.96	4.55	277.62	1753.39	23.91	13.49	3.74	1.23	0.34	0.20		
15	0.00	64.17	42.33	3.88	99.04	346.62	19.96	10.08	3.61	1.13	0.34	0.17		
16	0.00	332.53	30.13	3.55	56.66	251.94	17.11	8.46	3.61	1.13	0.20	0.17		
17	0.00	56.66	101.86	3.23	44.65	756.12	16.19	7.68	3.55	1.03	0.17	0.11		
18	0.00	23.91	47.00	2.92	31.20	801.75	21.91	6.18	3.29	1.03	0.11	0.11		
19	0.00	11.75	48.18	15.27	48.18	1029.07	21.91	5.45	3.11	0.99	0.11	0.11		
20	0.00	6.18	38.91	19.96	75.84	857.32	18.05	5.31	2.98	0.99	0.06	0.17		
21	0.00	10.91	19.00	7.68	42.33	478.13	14.37	5.10	2.92	0.89	0.06	0.17		
22	0.00	6.18	8.46	4.27	36.66	217.51	15.27	4.89	2.68	0.89	0.03	0.20		
23	0.00	4.89	5.10	4.61	40.04	128.06	44.65	4.89	2.62	0.89	0.03	0.17		
24	0.00	4.21	4.21	4.27	50.57	104.70	57.89	4.75	2.50	0.89	0.03	0.11		
25	0.00	16.19	3.42	3.55	17.11	65.44	51.77	4.55	2.38	0.89	0.03	0.11		
26	0.00	4.75	3.23	3.11	10.08	52.99	35.55	4.27	2.38	0.89	0.03	0.06		
27	0.00	5.24	2.98	5.31	5.24	45.82	36.66	4.21	2.32	0.89	0.03	0.06		
28	0.00	3.55	2.62	24.92	4.96	41.18	29.07	4.07	2.32	0.89	0.00	0.06		
29	0.46	5.31	2.50	4.96	4.89	304.79	20.93	3.88	2.20	0.80		0.03		
30	57.89	3.88	2.20	4.07	4.41	313.97	17.11	3.88	2.09	0.80		0.03		
31		3.23		4.27	4.21		295.66		1.92	0.80		0.00		
Total	58.35	1268.29	418.09	345.04	2137.91	16518.23	2814.72	1139.52	100.52	35.80	9.02	6.06	24851.55	Tonday
Mean	1.95	40.91	13.94	11.13	68.96	550.61	90.80	37.98	3.24	1.15	0.32	0.20		Ton/day
Max	57.89	332.53	101.86	96.23	429.90	5402.48	614.49	234.57	3.88	1.76	0.75	0.75	5402.48	Ton/day
Min	0.00	0.80	1.92	2.03	2.98	4.27	14.37	3.88	1.92	0.80	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2005-2008
Number of observation	20
R-Square	0.8753
Remarks	Continued Sediment Station

$$QS = 10.5410\ QW^{1.18050}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	287.45	1285.31	106.61	137.35	1131.18	4795.41	4979.93	32.57	3.79	0.00	0.00		
2	0.00	265.92	960.31	205.90	420.41	660.89	4507.47	5178.66	28.90	2.75	0.00	0.00		
3	0.00	122.74	595.80	965.28	1510.69	760.37	3259.86	5245.16	26.74	2.54	0.00	0.00		
4	0.00	75.49	886.34	803.64	1642.07	760.37	3027.62	3216.85	24.60	2.54	0.00	0.00		
5	1.76	52.56	1357.99	746.03	1696.87	731.73	5311.80	3390.04	23.89	2.35	0.00	0.00		
6	55.75	52.56	847.27	495.71	3139.10	1878.26	5311.80	4861.14	20.41	2.15	0.00	0.00		
7	1285.31	28.90	674.97	272.05	2554.65	2405.52	3699.27	5485.90	14.37	1.96	0.00	0.00		
8	293.65	4.65	411.68	179.71	1188.62	1556.79	3087.73	4132.55	6.92	1.76	0.00	0.00		
9	49.39	2.75	477.82	442.36	665.58	1124.82	2730.71	1759.56	4.65	1.58	0.00	0.00		
10	6.69	11.17	1518.14	2314.73	381.34	866.77	2306.50	1259.42	4.65	1.58	0.00	0.00		
11	1.58	38.56	980.19	3156.35	331.25	1720.44	1533.58	881.44	4.87	1.39	0.00	0.00		
12	0.86	90.84	746.03	2696.98	2119.09	3600.09	955.35	618.92	4.00	1.21	0.00	0.00		
13	0.24	491.23	1456.87	1403.61	3363.88	4953.46	793.99	473.37	7.15	1.03	0.00	0.00		
14	0.00	1000.13	1373.17	651.53	2798.07	5620.20	707.99	328.09	8.34	0.86	0.00	0.00		
15	0.00	3251.19	609.66	536.31	3104.94	5917.79	572.80	272.05	16.34	0.70	0.00	6.92		
16	0.00	4690.28	318.64	331.25	1950.20	5352.10	334.42	229.63	15.68	0.38	0.00	115.53		
17	0.00	4940.07	182.59	229.63	940.50	5459.03	250.70	217.72	4.65	0.24	0.00	6.45		
18	0.00	4966.53	309.23	152.21	656.20	6012.90	200.04	296.76	4.00	0.10	0.00	0.86		
19	0.00	3512.20	750.81	182.59	736.49	6657.33	229.63	220.69	2.35	0.00	0.00	0.53		
20	0.00	2135.34	591.19	152.21	1541.31	6934.36	359.90	211.80	1.39	0.00	0.00	0.38		
21	0.00	2014.22	350.31	133.68	2192.07	6851.21	614.29	188.38	1.96	0.00	0.00	0.38		
22	0.00	1112.12	247.67	139.20	1156.65	6423.16	789.18	155.96	2.54	0.00	0.00	0.53		
23	0.00	1665.52	150.34	111.95	980.19	4624.90	1227.16	131.84	3.79	0.00	0.00	4.00		
24	0.00	1564.54	101.31	115.53	618.92	3139.10	1712.58	103.07	3.79	0.00	0.00	94.31		
25	0.00	1330.83	55.75	133.68	359.90	2306.50	2151.60	90.84	3.57	0.00	0.00	26.74		
26	0.00	1010.12	34.05	191.28	372.74	1603.37	2680.14	78.86	3.79	0.00	0.00	8.34		
27	2.54	586.58	33.31	171.10	281.27	1201.45	3468.69	70.47	4.43	0.00	0.00	6.45		
28	146.61	433.56	135.51	152.21	253.73	1272.36	4377.67	68.81	4.87	0.00	0.00	5.54		
29	905.98	789.18	38.56	73.81	1112.12	2265.71	5271.86	57.36	4.65	0.00		4.87		
30	312.37	1030.15	287.45	43.15	1337.35	3813.25	5539.69	38.56	4.43	0.00		4.43		
31		1137.54		43.15	1712.58		5432.19		4.21	0.00		4.21		
Total	3062.73	38694.92	17768.27	17333.43	41256.13	97605.41	77241.62	44243.83	298.50	28.91	0.00	290.47	337824.22	Tonday
Mean	102.09	1248.22	592.28	559.14	1330.84	3253.51	2491.67	1474.79	9.63	0.93	0.00	9.37		Ton/day
Max	1285.31	4966.53	1518.14	3156.35	3363.88	6934.36	5539.69	5485.90	32.57	3.79	0.00	115.53	6934.36	Ton/day
Min	0.00	2.75	33.31	43.15	137.35	660.89	200.04	38.56	1.39	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	1999-2008
Number of observation	176
R-Square	0.7530
Remarks	Continued Sediment Station

$$QS = 10.3300\ QW^{0.83800}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	23.38	104.65	18.47	11.61	19.62	39.80	187.56	12.04	2.68	0.00	0.00		
2	0.00	19.62	80.73	29.51	25.21	20.38	38.79	258.35	11.61	2.11	0.00	0.00		
3	0.00	16.11	128.23	26.30	22.64	21.51	38.32	156.39	9.72	2.11	0.00	0.00		
4	0.00	16.91	82.88	24.48	24.85	21.51	85.07	91.19	8.84	2.11	0.00	0.00		
5	0.00	27.38	58.39	23.01	28.09	21.51	24.48	71.73	9.46	1.50	0.00	0.00		
6	0.00	26.30	44.28	23.75	24.11	19.24	56.52	57.15	7.66	1.24	0.00	0.00		
7	0.00	22.64	42.32	26.66	25.94	18.85	42.78	50.22	6.73	1.24	0.00	0.00		
8	0.00	20.76	39.80	27.38	25.57	24.85	36.77	48.62	6.54	1.24	0.00	0.00		
9	0.00	18.85	31.13	24.48	23.38	28.81	46.24	17.69	6.54	1.24	0.00	0.00		
10	0.00	16.51	27.02	26.30	22.64	35.75	69.94	23.75	6.07	1.24	0.00	0.00		
11	0.00	18.47	28.45	27.74	23.01	37.31	57.15	27.74	5.29	1.24	0.00	0.00		
12	0.00	48.62	112.88	24.48	63.91	340.79	50.22	31.62	5.29	0.55	0.00	0.00		
13	0.00	55.90	77.05	22.64	123.42	536.68	24.11	15.72	5.29	0.55	0.00	0.00		
14	0.00	47.21	87.20	20.76	115.33	291.40	36.30	20.38	5.29	0.55	0.00	0.00		
15	0.00	62.69	85.07	19.62	85.77	161.49	34.73	25.57	4.08	0.00	0.00	0.00		
16	0.00	43.76	61.47	19.62	116.96	142.96	30.08	20.00	4.08	0.00	0.00	0.00		
17	0.00	31.62	67.54	21.51	101.32	233.25	25.94	23.75	4.08	0.00	0.00	0.00		
18	0.00	25.57	60.85	23.01	69.34	287.31	24.85	20.76	4.08	0.00	0.00	0.00		
19	0.00	23.38	46.69	23.01	75.58	336.16	24.85	19.62	4.08	0.00	0.00	0.00		
20	0.00	26.30	38.79	26.30	41.32	374.38	26.30	15.72	4.08	0.00	0.00	0.00		
21	0.00	53.39	31.62	32.66	32.18	295.48	34.73	18.08	4.08	0.00	0.00	0.00		
22	0.00	38.79	27.02	29.51	32.66	170.60	48.17	17.69	4.08	0.00	0.00	0.00		
23	0.00	28.09	24.48	23.75	49.58	120.20	45.26	15.72	3.77	0.00	0.00	0.00		
24	0.00	38.79	23.01	20.76	48.62	85.77	49.13	15.72	3.77	0.00	0.00	0.00		
25	0.00	26.30	22.26	18.47	41.79	75.58	47.21	18.08	3.77	0.00	0.00	0.00		
26	0.00	21.89	20.38	16.51	35.28	33.70	42.32	11.61	3.23	0.00	0.00	0.00		
27	0.00	18.08	19.62	15.72	33.70	29.16	44.28	11.61	3.01	0.00	0.00	0.00		
28	0.00	15.72	18.85	14.91	30.08	28.81	41.32	16.11	3.01	0.00	0.00	0.00		
29	0.00	18.08	16.91	13.69	32.66	30.08	59.01	18.47	2.68	0.00		0.00		
30	31.13	79.28	16.11	13.69	24.48	42.78	63.91	17.69	2.68	0.00		0.00		
31		124.23		13.69	21.51		89.49		2.68	0.00		0.00		
Total	31.13	1054.62	1525.68	692.39	1432.54	3885.92	1378.07	1344.31	167.61	19.60	0.00	0.00	11531.87	Tonday
Mean	1.04	34.02	50.86	22.34	46.21	129.53	44.45	44.81	5.41	0.63	0.00	0.00		Ton/day
Max	31.13	124.23	128.23	32.66	123.42	536.68	89.49	258.35	12.04	2.68	0.00	0.00	536.68	Ton/day
Min	0.00	15.72	16.11	13.69	11.61	18.85	24.11	11.61	2.68	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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 right bank about 50 meters from the top staff gage.

Ban Cha Om **Amphoe** Kaeng Khoi **Changwat** Saraburi

Drainge 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	1998-2008
Number of observation	171
R-Square	0.8414
Remarks	Continued Sediment Station

$$QS = 2.3229\ QW^{1.15040}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	1.05	27.98	6.36	9.49	4.57	8.85	61.29	2.06	0.36	0.00	0.00		
2	0.00	1.05	91.42	6.36	7.91	5.16	7.91	38.57	2.06	0.16	0.00	0.00		
3	0.00	8.22	28.72	6.36	6.97	6.36	14.46	24.31	2.06	0.00	0.00	0.00		
4	0.00	8.22	21.43	5.45	7.28	6.06	29.47	14.97	2.06	0.00	0.00	0.00		
5	0.00	8.22	17.90	5.16	6.06	5.16	15.99	11.94	1.93	0.00	0.00	0.00		
6	0.00	8.22	15.48	4.57	7.59	5.16	11.45	10.14	1.93	0.00	0.00	0.00		
7	0.00	8.22	14.97	5.75	7.59	9.17	10.14	8.54	1.93	0.00	0.00	0.00		
8	0.00	8.22	6.36	6.67	7.59	6.97	9.49	7.28	1.93	0.00	0.00	0.00		
9	0.00	8.22	5.16	5.16	7.91	8.22	10.14	6.36	1.80	0.00	0.00	0.00		
10	0.00	8.22	4.28	5.75	9.17	8.54	11.45	5.75	1.80	0.00	0.00	0.00		
11	0.00	21.43	64.99	6.67	26.51	30.96	9.82	5.45	1.80	0.00	0.00	0.00		
12	0.00	12.44	32.84	6.36	64.99	526.01	8.22	5.16	1.80	0.00	0.00	0.00		
13	0.00	13.44	63.75	5.45	63.75	56.40	6.97	4.57	1.54	0.00	0.00	0.00		
14	0.00	11.45	40.51	4.57	39.54	66.23	6.06	4.57	1.54	0.00	0.00	0.00		
15	0.00	9.49	34.74	3.70	85.40	45.40	5.16	3.99	1.54	0.00	0.00	0.00		
16	0.00	6.97	30.96	3.70	41.48	174.45	5.16	3.99	1.54	0.00	0.00	0.00		
17	0.00	6.36	26.51	3.70	30.21	155.56	5.16	3.99	1.54	0.00	0.00	0.00		
18	0.00	6.97	23.59	3.70	20.01	161.82	3.99	3.99	1.54	0.00	0.00	0.00		
19	0.00	6.97	23.59	4.28	13.95	255.03	3.42	3.70	1.54	0.00	0.00	0.00		
20	0.00	6.97	20.01	9.82	11.12	163.92	3.70	3.70	1.54	0.00	0.00	0.00		
21	0.00	6.36	16.51	7.59	9.82	48.37	4.86	3.42	1.54	0.00	0.00	0.00		
22	0.00	6.36	16.51	6.06	18.60	38.57	3.99	3.42	1.54	0.00	0.00	0.00		
23	0.00	5.75	16.51	4.86	16.51	29.47	7.91	3.42	1.54	0.00	0.00	0.00		
24	0.00	5.75	13.95	4.28	13.95	20.72	7.28	2.86	1.54	0.00	0.00	0.00		
25	0.00	5.45	11.45	3.70	11.12	14.97	6.06	2.86	1.29	0.00	0.00	0.00		
26	0.00	5.45	9.49	3.70	9.49	11.94	5.16	2.86	1.29	0.00	0.00	0.00		
27	0.00	5.16	4.57	3.70	8.54	10.79	4.86	2.86	1.05	0.00	0.00	0.00		
28	0.00	5.16	5.16	3.70	7.28	9.49	9.82	2.32	1.05	0.00	0.00	0.00		
29	0.00	35.69	6.97	3.70	6.67	12.44	9.82	2.32	0.81	0.00		0.00		
30	0.00	72.48	6.67	3.70	6.06	9.82	11.12	1.42	0.81	0.00		0.00		
31		33.79		4.57	4.86		41.48		0.81	0.00		0.00		
Total	0.00	357.75	702.98	159.10	587.42	1907.73	299.37	260.02	48.75	0.52	0.00	0.00	4323.64	Tonday
Mean	0.00	11.54	23.43	5.13	18.95	63.59	9.66	8.67	1.57	0.02	0.00	0.00		Ton/day
Max	0.00	72.48	91.42	9.82	85.40	526.01	41.48	61.29	2.06	0.36	0.00	0.00	526.01	Ton/day
Min	0.00	1.05	4.28	3.70	4.86	4.57	3.42	1.42	0.81	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

EAST COAST - GULF BASIN

Khlong Prasae at Ban Khao Chik , Rayong (Z.11)

Lat 12 - 51 - 20 N Long 101 - 37 - 09 E

Location : on left bank near the Meteorological Station.

Ban Khao Chik **Amphoe** Klaeng **Changwat** Rayong

Drainge Area	1,236 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	1996-2008
Number of observation	205
R-Square	0.8007
Remarks	Continued Sediment Station

$$QS = 6.1781\ QW^{1.15370}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	52.03	90.56	30.93	81.25	107.16	208.86	798.66	370.51	0.00	0.00	0.00	6.90		
2	52.03	81.25	37.11	300.27	111.97	203.18	809.29	409.01	121.67	0.00	0.00	6.90		
3	52.03	83.56	39.20	507.91	183.45	268.22	809.29	220.30	63.06	0.00	0.00	22.96		
4	52.03	74.36	76.64	322.98	211.72	316.47	798.66	159.26	45.55	0.00	0.00	52.03		
5	52.03	65.30	97.63	391.24	329.51	360.20	531.84	438.18	43.42	0.00	0.00	43.42		
6	56.41	56.41	81.25	356.77	322.98	427.13	684.83	231.81	37.11	0.00	0.00	47.70		
7	63.06	52.03	69.81	332.90	297.04	576.87	767.54	159.26	32.97	0.00	0.00	58.61		
8	60.83	47.70	65.30	319.72	287.39	593.60	754.01	136.41	30.93	0.00	0.00	37.11		
9	58.61	47.70	67.55	468.49	277.78	608.02	848.45	124.11	28.91	0.00	2.40	30.93		
10	58.61	45.55	172.52	791.58	271.40	665.65	484.14	114.38	28.91	0.00	0.00	24.92		
11	58.61	45.55	220.30	1107.94	265.04	916.08	159.26	104.76	24.92	0.00	0.00	17.21		
12	56.41	81.25	332.90	730.40	284.18	1035.83	131.47	97.63	22.96	0.00	0.00	10.17		
13	56.41	69.81	387.78	346.51	336.29	1044.02	116.80	92.91	21.02	0.00	0.00	6.90		
14	56.41	131.47	468.49	194.69	329.51	848.45	107.16	95.26	19.10	0.00	0.00	3.83		
15	56.41	186.25	449.52	214.57	309.97	662.46	111.97	97.63	15.34	0.00	0.00	3.83		
16	54.21	169.85	441.95	336.29	287.39	649.85	111.97	95.26	11.86	0.00	0.00	2.40		
17	54.21	167.20	515.87	346.51	290.60	754.01	100.00	92.91	11.86	0.00	0.00	5.33		
18	54.21	107.16	503.94	339.70	488.09	958.94	97.63	90.56	0.00	0.00	0.00	24.92		
19	54.21	76.64	460.89	313.22	605.13	1270.96	92.91	88.22	24.92	0.00	0.00	85.89		
20	54.21	67.55	423.50	339.70	631.60	1381.72	143.87	69.81	13.59	0.00	0.00	54.21		
21	54.21	63.06	419.87	613.81	441.95	1099.12	186.25	92.91	10.17	0.00	1.08	37.11		
22	52.03	58.61	401.79	476.24	332.90	885.35	141.38	72.08	10.17	0.00	0.00	26.91		
23	47.70	56.41	377.40	409.01	313.22	764.16	258.93	21.02	8.51	0.00	0.00	22.96		
24	43.42	56.41	409.01	360.20	297.04	764.16	151.37	21.02	6.90	0.00	0.00	22.96		
25	43.42	54.21	370.51	329.51	274.59	757.39	194.69	39.20	5.33	0.00	0.00	22.96		
26	43.42	54.21	367.07	313.22	252.85	637.67	258.93	58.61	3.83	0.00	0.00	24.92		
27	58.61	54.21	416.25	293.82	228.93	547.88	593.60	17.21	3.83	0.00	0.00	17.21		
28	60.83	54.21	141.38	284.18	183.45	672.03	394.71	5.33	2.40	0.00	11.86	10.17		
29	92.91	52.03	92.91	293.82	136.41	770.93	237.71	5.33	0.00	0.00		6.90		
30	102.38	49.86	83.56	277.78	102.38	791.58	339.70	0.00	1.08	0.00		5.33		
31		47.70		124.11	313.22		409.01		1.08	0.00		15.34		
Total	1711.90	2348.07	8022.83	11918.34	9105.14	21440.79	11626.03	3620.89	651.40	0.00	15.34	758.94	71219.67	Tonday
Mean	57.06	75.74	267.43	384.46	293.71	714.69	375.03	120.70	21.01	0.00	0.55	24.48		Ton/day
Max	102.38	186.25	515.87	1107.94	631.60	1381.72	848.45	438.18	121.67	0.00	11.86	85.89	1381.72	Ton/day
Min	43.42	45.55	30.93	81.25	102.38	203.18	92.91	0.00	0.00	0.00	0.00	2.40	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	1978-2008
Number of observation	279
R-Square	0.7282
Remarks	Continued Sediment Station

$$QS = 0.7834\ QW^{1.43640}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	11.53	155.62	142.54	179.74	257.48	260.16	195.61	10.27	0.00	0.00	0.00		
2	0.00	12.82	128.32	146.05	284.59	215.97	156.74	185.63	7.91	0.00	0.00	0.00		
3	0.00	21.40	115.81	144.29	665.88	262.86	160.53	177.80	7.91	0.00	0.00	0.00		
4	0.00	34.70	103.69	153.15	559.48	228.73	158.60	156.74	5.74	0.00	0.00	0.00		
5	0.00	46.24	103.69	156.74	394.53	265.56	147.81	94.68	2.12	0.00	0.00	0.00		
6	0.00	46.24	107.68	156.74	346.87	209.79	108.89	99.35	3.80	0.00	0.00	0.00		
7	0.00	34.70	107.68	149.59	304.02	151.37	108.89	112.13	5.74	0.00	0.00	0.00		
8	0.00	34.70	103.69	179.74	292.86	164.28	108.89	306.77	3.80	0.00	0.00	0.00		
9	0.00	34.70	103.69	759.49	209.79	170.02	105.68	306.77	3.80	0.00	0.00	0.00		
10	0.00	34.70	103.69	891.36	179.74	504.01	105.68	295.59	3.80	0.00	0.00	0.00		
11	0.00	21.40	111.72	773.16	162.40	652.82	105.68	295.59	2.12	0.00	0.00	0.00		
12	0.00	60.43	155.62	788.29	187.59	803.50	105.68	284.59	2.12	0.00	0.00	0.00		
13	0.00	107.68	1114.25	727.87	183.68	1103.03	104.08	276.33	0.78	0.00	0.00	0.00		
14	0.00	115.81	403.05	323.83	175.82	563.62	99.35	268.21	0.78	0.00	0.00	0.00		
15	0.00	88.18	907.15	312.45	171.99	727.87	99.35	226.15	0.78	0.00	0.00	0.00		
16	0.00	141.22	744.53	290.07	185.63	1504.12	90.07	1.27	0.29	0.00	0.00	0.00		
17	0.00	128.32	1154.29	183.68	223.57	1475.11	69.56	53.80	0.00	0.00	0.00	0.00		
18	0.00	128.32	529.49	175.82	211.82	1148.11	38.68	162.40	0.00	0.00	0.00	0.00		
19	0.00	128.32	400.58	185.63	394.53	1880.70	32.23	133.87	0.00	0.00	0.00	0.00		
20	0.00	238.65	279.08	160.53	397.51	1704.31	18.39	73.82	0.00	0.00	0.00	0.00		
21	0.00	60.43	205.68	156.74	318.09	631.22	14.84	20.06	0.00	0.00	0.00	0.00		
22	0.00	533.97	179.74	156.74	571.95	329.52	14.16	11.53	0.00	0.00	0.00	0.00		
23	0.00	492.82	164.28	156.74	394.53	276.33	14.16	16.94	0.00	0.00	0.00	0.00		
24	0.00	88.18	125.37	189.62	254.86	205.68	11.53	0.00	0.00	0.00	0.00	1.40		
25	0.00	176.23	110.50	270.93	199.60	189.62	11.53	0.00	0.00	0.00	0.00	1.40		
26	0.00	160.70	99.35	183.68	179.74	146.05	11.53	26.16	0.00	0.00	0.00	1.40		
27	0.00	141.22	122.02	149.59	236.48	132.15	57.50	31.19	0.00	0.00	0.00	1.40		
28	0.00	128.32	97.78	156.74	320.95	281.83	461.24	34.70	0.00	0.00	0.00	1.40		
29	0.00	165.82	93.13	137.32	207.76	287.30	388.43	31.19	0.00	0.00		1.40		
30	7.91	176.23	122.02	118.69	189.62	181.68	388.43	12.82	0.00	0.00		1.40		
31		176.23		118.69	179.74		388.43		0.00	0.00		1.40		
Total	7.91	3770.21	8253.19	8596.50	8765.36	16654.64	3946.72	3891.69	61.76	0.00	0.00	11.20	53959.18	Tonday
Mean	0.26	121.62	275.11	277.31	282.75	555.15	127.31	129.72	1.99	0.00	0.00	0.36		Ton/day
Max	7.91	533.97	1154.29	891.36	665.88	1880.70	461.24	306.77	10.27	0.00	0.00	1.40	1880.70	Ton/day
Min	0.00	11.53	93.13	118.69	162.40	132.15	11.53	0.00	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	1978-2008
Number of observation	265
R-Square	0.8095
Remarks	Continued Sediment Station

$$QS = 1.0149\ QW^{1.43630}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.74	4.59	59.69	75.11	92.02	83.44	289.77	102.16	7.38	2.21	0.00	0.00		
2	3.92	2.47	44.11	89.85	240.40	60.60	185.65	87.70	7.81	2.21	0.00	0.15		
3	3.92	4.23	76.14	97.52	149.98	70.05	114.20	35.32	4.96	2.47	0.00	0.40		
4	3.32	22.99	50.00	71.05	525.62	68.05	105.73	110.54	6.14	1.71	0.00	0.89		
5	3.61	11.20	36.88	70.05	193.86	82.38	82.38	44.11	5.35	1.71	0.00	1.48		
6	3.32	7.81	36.10	83.44	158.83	82.38	71.05	39.24	5.74	1.48	0.00	1.71		
7	4.59	12.24	36.10	72.06	133.00	78.20	71.05	30.79	5.74	1.48	0.00	1.96		
8	3.03	11.71	27.87	85.56	298.42	74.09	77.17	29.32	5.74	0.71	0.00	2.21		
9	3.32	25.05	24.36	635.06	171.15	50.86	63.34	24.36	5.74	0.00	0.00	1.96		
10	1.96	50.00	20.33	539.30	115.42	775.42	57.00	23.67	5.35	0.00	0.00	0.00		
11	1.96	116.65	19.04	267.70	166.39	318.53	50.86	22.32	5.35	0.40	0.00	0.00		
12	1.96	180.78	33.79	139.84	148.51	586.59	48.29	20.33	4.96	0.71	0.00	0.00		
13	1.96	246.17	833.56	105.73	151.44	704.18	44.94	19.68	5.35	0.55	0.00	0.00		
14	0.89	232.76	215.86	84.50	122.86	332.16	40.85	19.04	4.96	0.55	0.00	0.00		
15	2.47	167.97	681.95	70.05	144.16	628.89	37.66	15.53	3.92	0.71	0.00	1.07		
16	2.21	87.70	449.65	62.42	106.92	897.07	36.10	22.32	3.92	0.71	0.00	1.07		
17	1.96	92.02	332.16	57.89	111.76	522.90	32.28	17.85	3.61	0.55	0.00	1.07		
18	1.96	104.53	187.29	51.72	83.44	495.91	33.03	16.67	3.61	0.26	0.00	1.07		
19	3.32	157.34	112.97	50.00	383.57	2222.57	38.45	15.53	3.92	0.55	0.00	1.71		
20	2.75	103.34	82.38	75.11	242.32	788.82	31.53	13.85	4.23	0.71	0.00	0.00		
21	2.21	81.33	61.51	52.59	157.34	454.67	29.32	13.85	3.92	0.71	0.89	1.96		
22	1.96	768.86	50.00	48.29	663.08	287.74	29.32	14.96	4.23	0.55	0.05	3.03		
23	2.47	120.37	44.11	50.00	210.61	214.01	29.32	11.71	3.32	0.40	0.15	2.21		
24	1.96	76.14	50.86	50.00	122.86	207.22	31.53	11.20	3.32	0.71	0.05	1.71		
25	2.75	71.05	48.29	90.94	93.11	187.29	27.16	7.81	3.03	1.27	0.26	1.71		
26	2.75	65.19	50.00	66.12	85.56	234.67	62.42	10.18	3.03	0.15	0.05	1.27		
27	5.74	34.56	74.09	60.60	125.37	248.11	39.24	9.20	3.03	0.15	0.05	2.21		
28	5.35	27.16	73.07	65.19	139.84	242.32	48.29	9.20	3.03	0.15	0.00	2.21		
29	5.35	127.90	77.17	54.34	99.80	253.94	39.24	8.72	3.03	0.15		3.32		
30	6.14	242.32	73.07	61.51	88.77	228.97	36.88	0.26	2.21	0.15		2.47		
31		105.73		64.27	84.50		126.63		2.21	0.15		3.03		
Total	94.85	3362.16	3962.40	3447.81	5610.91	11482.03	2010.68	807.42	138.14	24.22	1.50	41.88	30984.00	Tonday
Mean	3.16	108.46	132.08	111.22	181.00	382.73	64.86	26.91	4.46	0.78	0.05	1.35		Ton/day
Max	6.14	768.86	833.56	635.06	663.08	2222.57	289.77	110.54	7.81	2.47	0.89	3.32	2222.57	Ton/day
Min	0.89	2.47	19.04	48.29	83.44	50.86	27.16	0.26	2.21	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

EAST COAST - GULF BASIN

Khlong Prakaet at Ban Prakaet , Chanthaburi (Z.42)

Lat 12 - 57 - 32 N Long 101 - 51 - 57 E

Location : on left bank at Ban Prakaet, Tambon Sam Phinong.

Ban Prakaet **Amphoe** Kaeng Hang Maeo **Changwat** Chanthaburi

Drainge Area	451 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	1999-2008
Number of observation	95
R-Square	0.8897
Remarks	Continued Sediment Station

$$QS = 1.7129\ QW^{1.59660}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	5.81	8.61	8.61	299.70	93.55	73.70	89.44	3.27	0.00	0.00	0.00		
2	0.00	8.61	13.54	23.45	2218.06	152.99	55.67	73.70	3.27	0.00	0.00	0.00		
3	0.00	10.16	52.29	21.31	855.66	138.32	68.09	52.29	3.27	0.00	0.00	0.00		
4	0.00	7.16	45.97	66.26	1007.53	115.12	138.32	40.49	2.29	0.00	0.00	0.00		
5	0.00	5.18	81.43	163.08	201.69	437.70	115.12	40.49	0.00	0.00	0.00	0.00		
6	0.00	5.18	50.64	64.45	133.56	318.76	87.41	40.49	0.00	0.00	0.00	0.00		
7	0.00	4.00	25.67	69.94	93.55	138.32	57.39	34.01	0.00	0.00	0.00	0.00		
8	0.00	4.77	16.30	89.44	93.55	165.64	91.49	27.97	0.00	0.00	0.00	0.00		
9	0.00	3.27	16.30	99.85	69.94	227.97	55.67	27.97	0.00	0.00	0.00	0.00		
10	0.00	2.93	25.67	270.13	55.67	1007.53	52.29	27.97	0.00	0.00	0.00	0.00		
11	0.00	1.71	23.45	1280.35	66.26	1511.53	40.49	25.67	0.00	0.00	0.00	0.00		
12	0.00	2.60	73.70	190.12	158.01	3952.85	40.49	17.26	0.00	0.00	0.00	0.00		
13	0.00	17.26	36.55	104.13	93.55	1669.67	40.49	17.26	0.00	0.00	0.00	0.00		
14	0.00	214.51	21.31	152.99	93.55	255.78	34.01	12.66	0.00	0.00	0.00	0.00		
15	0.00	330.41	17.26	93.55	101.98	207.90	27.97	8.61	0.00	0.00	0.00	0.00		
16	0.00	81.43	49.00	73.70	119.63	902.97	25.67	8.61	0.00	0.00	0.00	0.00		
17	0.00	43.20	214.51	104.13	354.16	3084.80	17.26	8.61	0.00	0.00	0.00	0.00		
18	0.00	17.26	255.78	155.49	128.85	2358.16	17.26	8.61	0.00	0.00	0.00	0.00		
19	0.00	17.26	138.32	87.41	138.32	2712.38	108.48	8.61	0.00	0.00	0.00	0.00		
20	0.00	12.66	181.61	55.67	115.12	855.66	69.94	5.18	0.00	0.00	0.00	0.00		
21	0.00	4.00	126.52	45.97	93.55	543.12	40.49	5.18	0.00	0.00	0.00	0.00		
22	0.00	5.81	85.40	40.49	187.27	370.34	35.27	5.18	0.00	0.00	0.00	0.00		
23	0.00	5.18	59.12	40.49	85.40	184.43	55.67	4.38	0.00	0.00	0.00	0.00		
24	0.00	6.48	37.85	53.97	52.29	133.56	55.67	4.38	0.00	0.00	0.00	0.00		
25	0.00	5.18	27.97	85.40	40.49	110.68	40.49	4.38	0.00	0.00	0.00	0.00		
26	0.00	2.29	22.37	40.49	27.97	89.44	81.43	4.38	0.00	0.00	0.00	0.00		
27	0.00	3.27	22.37	34.01	135.93	89.44	119.63	4.38	0.00	0.00	0.00	0.00		
28	0.00	3.27	24.55	53.97	135.93	211.20	227.97	4.38	0.00	0.00	0.00	0.00		
29	0.00	3.27	25.67	37.85	81.43	115.12	152.99	4.38	0.00	0.00		0.00		
30	12.66	17.26	22.37	47.38	126.52	93.55	326.51	4.38	0.00	0.00		0.00		
31		22.37		322.63	126.52		140.73		0.00	0.00		0.00		
Total	12.66	873.75	1802.10	3976.71	7491.64	22248.48	2494.06	621.30	12.10	0.00	0.00	0.00	39532.80	Tonday
Mean	0.42	28.19	60.07	128.28	241.67	741.62	80.45	20.71	0.39	0.00	0.00	0.00		Ton/day
Max	12.66	330.41	255.78	1280.35	2218.06	3952.85	326.51	89.44	3.27	0.00	0.00	0.00	3952.85	Ton/day
Min	0.00	1.71	8.61	8.61	27.97	89.44	17.26	4.38	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	22
R-Square	0.8333
Remarks	Continued Sediment Station

$$QS = 1.6014\ QW^{1.12380}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	121.08	82.03	113.14	36.37	108.41	129.08	322.32	16.81	67.74	67.74	7.82	106.83		
2	119.49	82.03	114.73	30.34	109.98	132.30	320.22	9.55	54.30	67.74	8.25	95.89		
3	105.26	83.56	114.73	31.33	137.14	130.69	207.74	3.00	47.85	60.98	16.81	94.34		
4	100.57	97.45	105.26	31.33	254.41	132.30	106.83	1.07	38.53	15.88	20.58	95.89		
5	100.57	91.24	94.34	38.53	248.76	132.30	97.45	0.57	38.53	6.97	21.54	94.34		
6	122.68	103.69	73.20	45.50	244.99	133.91	92.79	0.41	38.53	10.43	21.54	94.34		
7	124.28	88.16	73.20	43.16	244.99	135.52	95.89	0.41	38.53	9.55	21.54	92.79		
8	103.69	89.70	85.09	45.50	140.37	138.75	95.89	5.30	38.53	6.55	37.39	102.13		
9	83.56	102.13	83.56	26.38	130.69	100.57	97.45	6.97	32.33	6.13	51.66	108.41		
10	82.03	111.56	82.03	56.96	129.08	95.89	113.14	29.34	26.38	5.71	51.66	108.41		
11	70.46	114.73	78.98	36.37	133.91	88.16	119.49	89.70	28.35	5.71	51.66	108.41		
12	105.26	114.73	63.67	35.36	135.52	7.82	105.26	70.46	34.34	6.97	50.34	108.41		
13	124.28	116.31	63.67	34.34	135.52	7.82	6.55	65.02	8.25	25.41	50.34	108.41		
14	127.48	116.31	59.64	34.34	135.52	50.34	3.88	38.53	6.97	35.36	95.89	108.41		
15	127.48	114.73	62.32	36.37	135.52	95.89	5.30	38.53	6.13	35.36	125.88	108.41		
16	129.08	114.73	75.94	43.16	135.52	95.89	27.37	59.64	11.32	35.36	124.28	108.41		
17	129.08	114.73	77.46	49.02	135.52	95.89	67.74	92.79	11.32	35.36	124.28	108.41		
18	130.69	114.73	82.03	65.02	137.14	95.89	22.50	83.56	18.68	36.37	122.68	108.41		
19	130.69	116.31	113.14	94.34	204.05	100.57	13.12	65.02	26.38	49.02	122.68	108.41		
20	129.08	114.73	109.98	70.46	145.24	97.45	2.72	54.30	26.38	43.16	122.68	108.41		
21	127.48	116.31	82.03	69.10	130.69	95.89	3.00	52.98	26.38	34.34	122.68	108.41		
22	127.48	117.90	60.98	67.74	94.34	95.89	7.82	54.30	26.38	34.34	121.08	99.00		
23	127.48	116.31	40.84	71.83	91.24	95.89	14.95	54.30	26.38	34.34	122.68	82.03		
24	119.49	106.83	40.84	58.30	89.70	82.03	13.12	54.30	26.38	34.34	117.90	82.03		
25	106.83	105.26	39.69	56.96	89.70	95.89	12.22	54.30	26.38	34.34	111.56	82.03		
26	105.26	106.83	44.33	54.30	122.68	125.88	50.34	54.30	24.43	35.36	106.83	82.03		
27	106.83	106.83	43.16	55.63	127.48	165.80	46.67	54.30	7.39	34.34	106.83	82.03		
28	85.09	99.00	42.00	52.98	129.08	171.21	6.55	71.83	7.39	34.34	106.83	83.56		
29	83.56	99.00	35.36	78.98	130.69	143.62	2.43	86.62	7.39	34.34		88.16		
30	82.03	100.57	43.16	105.26	130.69	180.27	1.87	86.62	22.50	16.81		99.00		
31		102.13		111.56	135.52		4.18		67.74	8.25		99.00		
Total	3338.32	3260.56	2198.50	1666.82	4454.09	3249.40	2086.80	1354.83	868.11	900.90	2165.89	3064.75	28608.97	Tonday
Mean	111.28	105.18	73.28	53.77	143.68	108.31	67.32	45.16	28.00	29.06	77.35	98.86		Ton/day
Max	130.69	117.90	114.73	111.56	254.41	180.27	322.32	92.79	67.74	67.74	125.88	108.41	322.32	Ton/day
Min	70.46	82.03	35.36	26.38	89.70	7.82	1.87	0.41	6.13	5.71	7.82	82.03	0.41	Ton/day

WATER YEAR : 2008

PHETCHABURI RIVER BASIN

Huai Mae Prachan at Ban Sa Yai Non, Phetchaburi (B.6)

Lat 12 - 56 - 00 N Long 99 - 46 - 59 E

Location : on left bank about 250 meters upstream from the bridge of Khuan Phet-Kaeng Krachan Reservoir Road.

Ban Sa Yai Non **Amphoe** Kaeng Krachan **Changwat** Phetchaburi

Drainge Area	1,003 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D-49
Period of Available Records	1983-Cont'd
Actual Measurement	1983-Cont'd
Using Rating Curve Water Year	2008
Number of observation	23
R-Square	0.4841
Remarks	Continued Sediment Station

$$QS = 5.0398\ QW^{1.58680}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.95	16.85	38.47	11.70	22.68	4.88	49.88	546.16	6.20	8.69	4.65	21.57		
2	1.42	14.19	35.80	12.92	22.68	4.88	38.47	565.28	6.20	12.36	4.65	21.57		
3	0.95	28.20	38.47	18.25	24.23	4.88	38.47	760.24	0.25	12.36	2.36	21.57		
4	0.75	35.80	77.56	22.68	24.23	4.88	22.68	626.93	2.01	11.59	1.47	21.57		
5	0.75	28.20	123.82	25.82	22.68	6.20	21.16	436.66	2.24	10.10	1.22	21.57		
6	0.75	24.23	111.52	24.23	41.22	5.53	22.68	318.52	2.24	3.89	1.09	21.57		
7	1.68	28.20	44.04	24.23	99.70	6.91	62.34	279.44	1.79	2.48	1.32	21.57		
8	3.19	25.82	41.22	22.68	99.70	11.70	88.37	156.61	1.79	1.62	1.90	21.57		
9	2.54	24.23	35.80	24.23	88.37	18.25	57.55	49.88	1.68	1.32	2.48	20.22		
10	1.95	25.82	3.19	25.82	88.37	18.25	41.22	44.04	1.62	1.52	2.12	16.36		
11	1.68	25.82	1.18	25.82	77.56	18.25	30.66	49.88	1.47	1.68	2.36	10.10		
12	1.42	24.23	0.95	24.23	62.34	19.69	28.20	105.55	1.52	2.61	2.36	11.59		
13	1.18	25.82	0.75	22.68	77.56	24.23	46.93	99.70	1.52	5.04	2.12	10.84		
14	1.09	24.23	0.75	28.20	77.56	22.68	111.52	52.90	1.52	5.45	2.24	11.59		
15	2.24	24.23	0.75	24.23	52.90	19.69	49.88	18.25	1.62	5.04	1.62	12.36		
16	6.91	14.19	1.18	25.82	22.68	52.90	33.19	15.50	1.62	2.61	1.62	11.59		
17	9.19	4.88	1.09	25.82	18.25	93.97	28.20	10.84	1.52	3.19	1.62	10.84		
18	6.91	3.89	1.95	38.47	14.19	72.35	22.68	10.00	1.62	4.65	1.68	9.39		
19	8.40	1.95	15.50	72.35	16.85	88.37	22.68	8.40	1.90	4.65	1.79	10.10		
20	8.40	0.33	15.50	44.04	22.68	163.51	18.25	7.64	2.48	3.19	1.18	10.84		
21	10.00	0.22	14.19	33.19	19.69	216.69	16.85	6.91	4.65	2.36	0.63	10.84		
22	11.70	0.17	10.84	38.47	19.69	105.55	12.92	6.20	2.73	2.01	0.56	9.39		
23	10.84	1.68	10.00	62.34	19.69	67.28	10.84	6.20	1.22	2.73	0.56	8.69		
24	10.84	49.88	9.19	46.93	15.50	49.88	8.40	6.20	1.68	3.89	0.46	8.69		
25	11.70	35.80	8.40	38.47	15.50	46.93	7.64	6.20	5.04	5.04	0.36	8.69		
26	15.50	123.82	8.40	38.47	12.92	46.93	12.92	6.20	6.73	4.65	1.04	8.69		
27	22.68	236.29	10.84	33.19	6.91	46.93	44.04	6.20	5.86	3.89	9.39	9.39		
28	21.16	57.55	11.70	30.66	4.88	46.93	77.56	6.20	6.73	2.86	10.84	8.69		
29	24.23	72.35	11.70	28.20	4.88	49.88	760.24	6.20	6.73	3.54		8.02		
30	12.92	46.93	11.70	24.23	4.88	49.88	692.40	6.20	6.73	4.26		7.36		
31		46.93		24.23	4.88		331.96		5.86	5.04		7.36		
Total	213.92	1072.73	696.45	942.60	1105.85	1388.88	2810.78	4225.13	96.77	144.31	65.69	414.19	13177.30	Tonday
Mean	7.13	34.60	23.22	30.41	35.67	46.30	90.67	140.84	3.12	4.66	2.35	13.36		Ton/day
Max	24.23	236.29	123.82	72.35	99.70	216.69	760.24	760.24	6.73	12.36	10.84	21.57	760.24	Ton/day
Min	0.75	0.17	0.75	11.70	4.88	4.88	7.64	6.20	0.25	1.32	0.36	7.36	0.17	Ton/day

WATER YEAR : 2008

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

Drainge 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
Number of observation	23
R-Square	0.8435
Remarks	Continued Sediment Station

$$QS = 2.6885\ QW^{1.13670}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	211.30	152.49	185.42	62.84	192.30	206.14	537.37	43.17	109.60	97.04	18.67	162.71		
2	216.47	152.49	196.90	44.24	196.90	206.14	582.09	38.93	79.14	97.04	17.90	152.49		
3	194.60	156.47	196.90	44.24	206.14	206.14	578.01	29.80	71.16	93.75	24.16	144.57		
4	180.85	176.29	187.71	42.11	434.91	206.14	356.66	18.67	51.80	38.93	26.56	144.57		
5	178.57	167.22	164.97	41.05	469.15	226.87	162.71	21.00	49.63	18.67	28.17	146.54		
6	206.14	194.60	113.43	65.52	469.15	208.72	150.50	17.90	48.54	19.44	27.36	144.57		
7	219.07	171.75	126.94	61.50	469.15	213.89	152.49	16.37	48.54	16.37	28.17	144.57		
8	190.00	158.46	128.88	58.84	311.37	216.47	152.49	17.13	48.54	16.37	35.79	150.50		
9	156.47	192.30	128.88	52.90	234.70	178.57	154.48	24.16	44.24	15.61	65.52	167.22		
10	144.57	196.90	144.57	93.75	232.08	239.93	156.47	29.80	32.26	14.86	68.22	164.97		
11	101.99	196.90	150.50	55.09	224.26	237.31	160.46	148.52	30.62	14.86	68.22	167.22		
12	180.85	196.90	121.12	53.99	221.66	79.14	171.75	92.12	45.31	14.86	69.58	164.97		
13	199.21	196.90	117.27	53.99	219.07	33.09	88.85	128.88	21.00	26.56	69.58	167.22		
14	213.89	199.21	113.43	55.09	216.47	55.09	53.99	62.84	16.37	43.17	101.99	167.22		
15	219.07	199.21	123.06	55.09	213.89	164.97	58.84	58.84	14.86	47.46	178.57	167.22		
16	219.07	199.21	158.46	60.17	213.89	160.46	38.93	68.22	15.61	47.46	183.13	167.22		
17	221.66	201.52	154.48	75.94	213.89	160.46	176.29	140.63	16.37	48.54	183.13	167.22		
18	221.66	201.52	156.47	93.75	216.47	156.47	136.70	138.66	17.90	48.54	185.42	167.22		
19	219.07	203.83	142.60	128.88	290.62	167.22	58.84	109.60	28.99	64.18	185.42	167.22		
20	221.66	199.21	160.46	121.12	275.91	171.75	33.91	85.60	30.62	68.22	185.42	167.22		
21	221.66	201.52	144.57	119.19	211.30	158.46	26.56	79.14	30.62	48.54	185.42	167.22		
22	219.07	199.21	103.89	109.60	158.46	154.48	26.56	79.14	30.62	47.46	185.42	162.71		
23	224.26	203.83	85.60	123.06	132.78	152.49	42.11	79.14	31.44	47.46	185.42	128.88		
24	219.07	190.00	68.22	93.75	128.88	126.94	33.09	77.54	31.44	48.54	183.13	126.94		
25	192.30	180.85	66.87	90.48	128.88	146.54	31.44	77.54	31.44	48.54	171.75	126.94		
26	190.00	183.13	72.75	90.48	174.02	178.57	51.80	77.54	31.44	49.63	162.71	126.94		
27	187.71	183.13	62.84	88.85	206.14	242.56	185.42	79.14	17.90	49.63	162.71	126.94		
28	167.22	174.02	58.84	77.54	208.72	275.91	58.84	90.48	14.86	47.46	162.71	126.94		
29	156.47	169.49	57.51	142.60	213.89	245.19	41.05	123.06	16.37	47.46		128.88		
30	154.48	169.49	58.84	167.22	216.47	234.70	28.99	125.00	21.00	33.09		148.52		
31		171.75		190.00	216.47		29.80		87.22	20.22		150.50		
Total	5848.41	5739.80	3752.38	2612.87	7517.99	5410.81	4517.49	2178.56	1165.45	1339.96	3150.25	4714.07	47948.04	Tonday
Mean	194.95	185.15	125.08	84.29	242.52	180.36	145.73	72.62	37.60	43.22	112.51	152.07		Ton/day
Max	224.26	203.83	196.90	190.00	469.15	275.91	582.09	148.52	109.60	97.04	185.42	167.22	582.09	Ton/day
Min	101.99	152.49	57.51	41.05	128.88	33.09	26.56	16.37	14.86	14.86	17.90	126.94	14.86	Ton/day

WATER YEAR : 2008

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

Drainge 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	1997-2008
Number of observation	315
R-Square	0.8571
Remarks	Continued Sediment Station

$$QS = 1.4564\ QW^{1.44230}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	18.38	15.70	27.14	29.49	42.08	33.54	117.49	11.54	6.43	7.10	7.45	8.15		
2	20.71	15.27	36.04	31.90	32.71	34.36	347.30	12.75	6.10	7.10	7.10	12.34		
3	22.63	15.27	65.65	31.90	31.09	32.71	562.94	12.75	6.10	8.15	7.10	12.75		
4	16.58	15.27	103.71	34.36	64.37	30.29	595.86	9.61	6.10	15.27	7.10	9.99		
5	11.15	15.27	105.19	33.54	230.60	31.09	263.54	9.24	6.10	9.24	7.45	8.87		
6	10.37	16.14	128.63	31.90	416.81	40.33	90.46	8.15	5.78	6.43	7.45	8.51		
7	11.94	19.77	44.76	31.09	406.14	50.51	26.37	7.45	5.78	6.43	7.45	8.51		
8	24.11	17.93	55.44	31.90	263.54	70.91	20.24	7.10	5.78	6.43	7.45	8.51		
9	50.51	16.14	52.96	33.54	240.59	87.57	17.93	7.10	5.78	6.43	7.10	8.87		
10	26.37	15.27	48.41	32.71	65.65	91.88	13.99	6.76	5.46	6.43	9.61	9.24		
11	17.03	16.58	43.86	36.88	49.33	180.34	12.75	12.75	5.46	6.10	11.15	8.87		
12	14.41	19.30	35.20	36.88	49.33	482.58	22.15	63.03	5.46	6.10	11.15	8.87		
13	13.99	20.71	31.90	31.90	56.67	187.28	100.69	17.93	6.10	6.10	10.76	9.24		
14	13.57	20.24	19.30	31.09	64.37	27.14	54.23	7.10	6.43	6.10	11.54	9.99		
15	13.99	22.63	18.84	30.29	65.65	20.24	20.24	6.43	6.43	6.43	16.58	10.76		
16	17.47	29.49	18.84	30.29	63.03	19.77	13.99	6.10	6.43	6.76	11.94	11.15		
17	17.03	33.54	19.77	30.29	60.45	19.77	23.61	6.10	6.43	7.10	7.45	10.76		
18	15.70	34.36	19.77	29.49	60.45	19.77	120.66	6.10	6.43	7.45	6.76	10.76		
19	15.27	35.20	20.24	23.61	77.72	20.71	171.20	6.43	6.43	10.37	6.76	11.54		
20	15.27	36.04	31.90	23.61	171.20	25.61	99.23	6.10	6.76	15.27	7.10	14.41		
21	15.70	38.59	50.51	26.37	235.58	43.86	11.54	6.10	6.76	15.27	7.80	17.93		
22	16.58	41.20	63.03	43.86	180.34	54.23	8.51	6.10	6.76	10.76	9.24	20.24		
23	17.93	38.59	52.96	54.23	87.57	42.08	7.45	6.10	6.76	8.15	11.15	19.77		
24	22.63	42.97	45.66	63.03	37.73	31.90	6.76	6.10	7.10	7.45	11.15	16.58		
25	27.14	63.03	37.73	52.96	31.09	20.24	6.76	6.10	7.10	7.45	11.15	14.84		
26	26.37	45.66	34.36	45.66	21.19	17.93	7.10	6.10	7.10	7.80	9.61	13.57		
27	29.49	47.49	31.09	42.97	24.86	17.03	6.76	5.78	7.10	7.45	8.15	13.57		
28	34.36	51.76	30.29	41.20	34.36	24.86	51.76	5.78	7.45	7.45	7.80	13.57		
29	24.86	47.49	28.70	42.08	34.36	46.57	56.67	5.78	7.10	7.45		13.99		
30	17.47	31.09	28.70	42.97	31.09	61.77	34.36	6.10	7.10	7.45		14.41		
31		23.61		44.76	31.09		19.77		7.10	7.45		14.41		
Total	599.01	901.60	1330.58	1126.75	3261.04	1866.87	2912.31	290.56	199.20	250.92	252.50	374.97	13366.31	Tonday
Mean	19.97	29.08	44.35	36.35	105.19	62.23	93.95	9.69	6.43	8.09	9.02	12.10		Ton/day
Max	50.51	63.03	128.63	63.03	416.81	482.58	595.86	63.03	7.45	15.27	16.58	20.24	595.86	Ton/day
Min	10.37	15.27	18.84	23.61	21.19	17.03	6.76	5.78	5.46	6.10	6.76	8.15	5.46	Ton/day

WATER YEAR : 2008

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

Drainge 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	2007-2008
Number of observation	22
R-Square	0.9093
Remarks	Continued Sediment Station

$$QS = 10.7060\ QW^{1.08280}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.69	27.13	8.86	2.28	17.09	0.79	1.47	7.50	1.37	0.69	0.33	0.07		
2	0.69	20.72	14.22	1.77	13.51	0.79	1.27	7.05	1.08	0.69	0.24	0.24		
3	0.60	26.13	12.10	1.77	12.10	0.79	1.27	6.60	0.98	0.60	0.24	0.24		
4	0.60	37.98	11.40	1.67	10.71	0.69	1.18	6.60	0.98	0.51	0.24	0.24		
5	0.60	49.33	10.71	1.67	11.40	0.79	1.18	5.71	1.08	0.51	0.24	0.24		
6	0.60	25.14	10.24	1.57	12.10	0.79	1.08	3.54	1.27	0.42	0.24	0.15		
7	0.60	19.99	19.26	2.28	10.71	0.79	1.08	3.12	1.27	0.42	0.24	0.15		
8	0.79	14.22	10.24	3.54	10.24	1.27	1.08	3.54	1.08	0.33	0.15	0.15		
9	0.88	11.40	9.32	6.16	7.05	1.18	0.98	10.24	1.08	0.33	0.15	0.15		
10	0.79	10.24	5.71	7.05	4.84	1.08	1.18	47.90	0.98	0.33	0.15	0.15		
11	0.79	10.24	4.84	6.60	3.97	1.37	2.28	40.80	1.08	0.33	0.15	0.15		
12	0.79	21.45	4.40	5.71	3.97	1.67	1.77	27.13	1.08	0.33	0.15	0.15		
13	0.79	17.09	4.40	4.40	3.97	1.87	1.67	21.45	0.98	0.33	0.15	0.07		
14	0.79	13.51	7.05	3.54	2.70	3.12	1.67	17.09	0.98	0.33	0.15	0.07		
15	0.69	12.81	14.22	2.70	2.70	3.54	1.57	12.10	0.88	0.33	0.15	0.07		
16	0.60	14.22	10.24	1.67	2.28	5.27	1.47	10.24	0.88	0.33	0.15	0.07		
17	0.42	22.92	7.95	1.08	2.28	13.51	1.57	10.24	0.88	0.33	0.15	0.07		
18	0.42	19.26	6.60	1.08	1.47	24.40	1.87	8.41	0.88	0.33	0.15	0.07		
19	0.42	17.09	6.60	0.98	1.18	21.45	2.28	6.60	0.88	0.33	0.15	0.07		
20	0.42	14.94	6.16	0.98	1.18	18.53	1.87	4.84	0.88	0.33	0.15	0.07		
21	0.33	13.51	7.05	1.27	1.08	17.09	1.57	4.40	0.88	0.33	0.15	0.07		
22	0.33	13.51	6.60	1.27	1.18	14.94	1.57	3.97	0.88	0.33	0.15	0.07		
23	0.33	12.81	6.16	1.47	1.18	10.71	1.47	3.54	0.88	0.33	0.15	0.07		
24	0.79	10.24	5.71	1.67	1.18	5.71	1.77	3.54	0.88	0.33	0.07	0.07		
25	19.26	9.78	6.60	3.97	1.18	5.71	10.24	3.54	0.79	0.33	0.07	0.07		
26	17.81	10.71	7.05	10.71	1.08	4.84	32.14	3.54	0.79	0.33	0.15	0.07		
27	14.94	8.41	10.71	52.47	1.08	3.54	15.65	3.12	0.79	0.33	0.15	0.07		
28	12.81	7.05	9.78	34.16	1.08	2.70	10.24	2.70	0.79	0.33	0.15	0.07		
29	21.45	6.60	7.95	29.12	1.18	1.77	10.24	2.70	0.79	0.33		0.07		
30	46.47	7.50	3.54	22.19	0.98	1.67	10.71	2.28	0.69	0.33		0.07		
31		7.50		14.94	0.79		8.86		0.69	0.33		0.07		
Total	147.49	513.43	255.67	231.74	147.44	172.37	134.25	294.03	29.42	11.76	4.76	3.41	1945.77	Tonday
Mean	4.92	16.56	8.52	7.48	4.76	5.75	4.33	9.80	0.95	0.38	0.17	0.11		Ton/day
Max	46.47	49.33	19.26	52.47	17.09	24.40	32.14	47.90	1.37	0.69	0.33	0.24	52.47	Ton/day
Min	0.33	6.60	3.54	0.98	0.79	0.69	0.98	2.28	0.69	0.33	0.07	0.07	0.07	Ton/day

WATER YEAR : 2008

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

Drainge 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	1998-2008
Number of observation	233
R-Square	0.8746
Remarks	Continued Sediment Station

$$QS = 4.1403\ QW^{1.50930}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.46	22.28	4.46	8.26	20.65	2.16	2.68	11.52	0.89	0.00	0.00	0.00		
2	4.46	22.28	3.83	11.52	19.06	2.16	2.16	12.69	0.89	0.00	0.00	0.00		
3	4.46	22.28	2.68	10.39	17.72	2.68	47.13	11.52	0.89	0.00	0.00	0.00		
4	4.46	49.85	3.24	9.30	17.72	3.83	39.28	10.39	0.57	0.00	0.00	0.00		
5	5.11	25.67	3.83	7.25	16.41	11.52	36.77	7.25	0.57	0.00	0.00	0.00		
6	5.80	22.28	5.80	6.51	19.06	7.25	32.92	5.11	0.57	0.00	0.00	0.00		
7	5.80	22.28	7.25	7.25	19.06	4.46	31.05	5.11	0.57	0.00	0.00	0.00		
8	5.11	22.28	5.80	8.26	17.72	3.24	27.43	7.25	0.57	0.00	0.00	0.00		
9	5.11	22.28	6.51	8.26	16.41	3.24	13.89	11.52	0.31	0.00	0.00	0.00		
10	5.11	16.41	6.51	6.51	13.89	3.83	23.96	23.96	0.31	0.00	0.00	0.00		
11	4.46	39.28	5.80	5.80	9.30	5.11	13.89	29.22	0.31	0.00	0.00	0.00		
12	4.46	79.26	5.11	5.11	9.30	5.80	9.30	23.96	0.31	0.00	0.00	0.00		
13	4.46	52.63	5.80	4.46	8.26	7.25	5.11	19.06	0.31	0.00	0.00	0.00		
14	5.11	22.28	5.11	3.83	7.25	11.52	4.46	16.41	0.31	0.00	0.00	0.00		
15	4.46	22.28	5.11	2.16	7.25	10.39	3.24	13.89	0.11	0.00	0.00	0.00		
16	4.46	52.63	3.83	1.68	6.51	142.95	2.16	12.69	0.11	0.00	0.00	0.00		
17	4.46	32.92	3.83	1.68	5.11	64.22	1.24	11.52	0.11	0.00	0.00	0.00		
18	4.46	32.92	3.83	1.68	2.68	49.85	3.24	7.25	0.11	0.00	0.00	0.00		
19	4.46	29.22	5.11	1.24	2.16	44.46	7.25	2.16	0.11	0.00	0.00	0.00		
20	4.46	64.22	6.51	2.68	1.68	36.77	9.30	1.68	0.11	0.00	0.00	0.00		
21	5.11	25.67	8.26	3.24	1.68	31.05	4.46	1.68	0.00	0.00	0.00	0.00		
22	5.11	20.65	7.25	3.24	1.24	25.67	2.68	2.16	0.00	0.00	0.00	0.00		
23	8.26	16.41	6.51	3.24	1.24	23.96	1.68	2.16	0.00	0.00	0.00	0.00		
24	75.40	13.89	5.80	3.24	0.89	20.65	2.68	1.68	0.00	0.00	0.00	0.00		
25	44.46	11.52	5.80	3.83	0.57	19.06	15.13	1.68	0.00	0.00	0.00	0.00		
26	39.28	6.51	17.72	71.61	0.57	16.41	15.13	1.24	0.00	0.00	0.00	0.00		
27	41.84	5.80	34.83	114.48	0.89	15.13	10.39	1.24	0.00	0.00	0.00	0.00		
28	19.06	4.46	27.43	91.22	0.89	12.69	9.30	1.24	0.00	0.00	0.00	0.00		
29	23.96	6.51	20.65	64.22	0.89	10.39	8.26	0.89	0.00	0.00		0.00		
30	10.39	7.25	10.39	49.85	0.89	5.80	8.26	0.89	0.00	0.00		0.00		
31		5.80		52.63	0.89		7.25		0.00	0.00		0.00		
Total	368.00	800.00	244.59	574.63	247.84	603.50	401.68	259.02	8.04	0.00	0.00	0.00	3507.30	Tonday
Mean	12.27	25.81	8.15	18.54	7.99	20.12	12.96	8.63	0.26	0.00	0.00	0.00		Ton/day
Max	75.40	79.26	34.83	114.48	20.65	142.95	47.13	29.22	0.89	0.00	0.00	0.00	142.95	Ton/day
Min	4.46	4.46	2.68	1.24	0.57	2.16	1.24	0.89	0.00	0.00	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	1998-2008
Number of observation	226
R-Square	0.9016
Remarks	Continued Sediment Station

$$QS = 4.0747\ QW^{1.55500}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.44	1.14	6.13	2.94	2.94	1.84	3.76	3.34	2.94	0.56	0.24	0.08		
2	0.44	0.44	5.13	2.55	2.55	4.20	3.76	2.55	2.94	0.56	0.24	0.08		
3	0.44	2.19	4.66	2.19	2.55	3.76	3.34	2.19	2.55	0.56	0.24	0.15		
4	0.44	7.65	4.20	1.84	2.55	3.34	3.34	1.84	2.55	0.44	0.24	0.15		
5	0.44	17.15	3.76	2.19	2.55	8.46	2.55	1.84	2.19	0.44	0.24	0.15		
6	0.44	10.16	5.62	2.19	2.19	4.66	2.19	1.65	1.84	0.44	0.15	0.15		
7	0.44	7.65	5.62	2.19	2.19	3.76	2.19	1.65	1.84	0.44	0.15	0.15		
8	0.44	5.62	5.13	2.94	2.55	3.34	1.84	2.55	1.84	0.33	0.15	0.15		
9	0.44	3.34	5.62	2.94	2.94	2.94	1.65	8.46	1.84	0.33	0.15	0.15		
10	0.44	6.13	5.13	2.55	2.19	3.34	1.65	589.93	1.65	0.33	0.15	0.08		
11	0.44	3.34	4.66	2.55	1.47	4.20	23.31	142.63	1.65	0.33	0.15	0.08		
12	0.44	2.19	4.20	2.19	1.47	4.20	14.88	42.54	1.47	0.44	0.15	0.08		
13	0.44	2.19	5.62	1.84	1.30	7.65	11.97	17.15	1.47	0.44	0.08	0.08		
14	0.33	2.94	8.46	2.19	1.30	13.89	11.05	7.65	1.47	0.44	0.08	0.08		
15	0.33	2.55	6.88	1.65	1.30	17.15	9.30	6.13	1.30	0.44	0.08	0.08		
16	0.33	2.19	6.13	1.65	1.14	17.15	8.46	5.13	1.14	0.44	0.08	0.03		
17	0.33	3.34	5.62	1.65	0.98	13.89	8.46	4.66	1.14	0.33	0.03	0.03		
18	0.33	3.76	5.13	1.65	0.98	8.46	6.88	5.13	1.14	0.33	0.03	0.03		
19	0.33	8.46	8.46	1.47	0.98	11.05	5.13	5.62	1.14	0.33	0.03	0.03		
20	0.33	27.32	12.92	1.30	0.83	12.92	4.66	5.13	0.98	0.33	0.03	0.03		
21	0.33	14.88	17.15	1.14	0.83	11.05	4.20	4.66	0.98	0.33	0.03	0.03		
22	0.44	11.97	17.15	1.14	0.69	10.16	5.13	4.20	0.98	0.33	0.03	0.03		
23	1.14	8.46	16.00	0.98	0.69	8.46	6.13	4.20	0.83	0.24	0.03	0.00		
24	11.97	6.88	14.88	0.98	0.56	7.65	8.46	3.76	0.83	0.24	0.08	0.00		
25	11.97	8.46	12.92	1.47	0.56	7.65	18.33	5.13	0.83	0.24	0.08	0.00		
26	11.05	8.46	6.88	3.34	0.56	7.65	11.97	6.88	0.69	0.24	0.08	0.03		
27	25.96	6.88	5.13	6.88	0.44	6.13	7.65	6.88	0.69	0.24	0.08	0.03		
28	17.15	5.13	4.20	5.13	0.44	5.62	6.13	6.88	0.69	0.33	0.08	0.03		
29	6.13	4.66	3.76	4.66	0.33	5.13	6.13	6.13	0.69	0.33		0.00		
30	2.55	4.20	4.20	3.76	0.33	4.20	6.88	6.13	0.56	0.24		0.00		
31		7.65		3.34	0.33		6.13		0.56	0.24		0.00		
Total	96.72	207.38	221.35	75.48	42.71	223.90	217.51	912.62	43.41	11.28	3.18	1.99	2057.53	Tonday
Mean	3.22	6.69	7.38	2.43	1.38	7.46	7.02	30.42	1.40	0.36	0.11	0.06		Ton/day
Max	25.96	27.32	17.15	6.88	2.94	17.15	23.31	589.93	2.94	0.56	0.24	0.15	589.93	Ton/day
Min	0.33	0.44	3.76	0.98	0.33	1.84	1.65	1.65	0.56	0.24	0.03	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge Area	25 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	2002-2008
Number of observation	54
R-Square	0.7687
Remarks	Continued Sediment Station

$$QS = 10.0450\ QW^{1.35900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.17	0.50	0.76	0.50	0.63	0.05	0.05	0.63	0.09	0.05	0.00	0.00		
2	0.17	0.44	0.76	0.50	0.69	0.05	0.05	0.63	0.09	0.05	0.00	0.00		
3	0.17	0.38	0.76	0.44	0.50	0.05	0.05	0.63	0.09	0.05	0.00	0.00		
4	0.17	0.56	0.56	0.44	0.38	0.05	0.05	0.56	0.09	0.05	0.00	0.00		
5	0.17	0.50	0.50	0.38	0.38	0.05	0.05	0.50	0.09	0.05	0.00	0.00		
6	0.27	0.44	0.56	0.38	0.32	0.05	0.05	0.38	0.09	0.05	0.00	0.00		
7	0.38	0.44	0.63	0.38	0.32	0.05	0.05	0.32	0.09	0.05	0.00	0.00		
8	0.38	0.38	0.69	0.38	0.32	0.09	0.05	0.50	0.09	0.05	0.00	0.00		
9	0.38	0.38	0.83	0.38	0.32	0.09	0.05	0.63	0.09	0.05	0.00	0.00		
10	0.38	0.32	0.90	0.38	0.27	0.09	0.05	0.83	0.09	0.05	0.00	0.00		
11	0.32	0.38	0.98	0.38	0.27	0.09	0.05	1.05	0.09	0.05	0.00	0.00		
12	0.32	0.32	1.05	0.38	0.27	0.13	0.05	0.69	0.09	0.05	0.00	0.00		
13	0.32	0.44	1.13	0.32	0.22	0.17	0.05	0.69	0.09	0.05	0.00	0.00		
14	0.32	0.83	1.05	0.83	0.22	0.17	0.05	0.69	0.09	0.05	0.00	0.00		
15	0.32	0.76	0.90	0.44	0.17	0.22	0.05	0.63	0.09	0.05	0.00	0.00		
16	0.32	0.83	0.76	0.38	0.17	0.22	0.05	0.63	0.09	0.05	0.00	0.00		
17	0.32	0.83	0.83	0.38	0.17	0.32	0.05	0.63	0.09	0.05	0.00	0.00		
18	0.27	0.98	0.98	0.38	0.17	0.38	0.02	0.56	0.09	0.02	0.00	0.00		
19	0.27	1.05	0.83	0.38	0.17	0.38	0.02	0.38	0.09	0.02	0.00	0.00		
20	0.27	1.13	0.63	0.38	0.17	0.32	0.02	0.56	0.09	0.02	0.00	0.00		
21	0.27	1.13	0.63	0.38	0.13	0.32	0.02	0.50	0.09	0.02	0.00	0.00		
22	0.22	1.05	0.69	0.38	0.09	0.32	0.02	0.50	0.09	0.02	0.00	0.00		
23	0.22	1.13	0.69	0.32	0.09	0.32	0.05	0.50	0.09	0.02	0.00	0.00		
24	0.22	1.36	0.69	0.38	0.05	0.22	0.05	0.50	0.05	0.02	0.00	0.00		
25	0.38	1.13	0.76	0.38	0.05	0.17	0.22	0.38	0.05	0.02	0.00	0.00		
26	1.05	1.13	0.63	0.56	0.05	0.17	0.22	0.32	0.05	0.02	0.00	0.00		
27	0.50	1.13	0.63	0.56	0.05	0.13	0.17	0.32	0.05	0.02	0.00	0.00		
28	0.38	0.98	0.63	0.56	0.05	0.13	0.17	0.32	0.05	0.02	0.00	0.00		
29	0.56	0.90	0.56	0.56	0.13	0.09	0.27	0.27	0.05	0.02		0.00		
30	0.76	0.98	0.56	0.56	0.05	0.05	0.69	0.22	0.05	0.02		0.00		
31		0.83		0.56	0.05		0.90		0.05	0.02		0.00		
Total	10.25	23.64	22.56	13.61	6.92	4.94	3.69	15.95	2.47	1.13	0.00	0.00	105.16	Tonday
Mean	0.34	0.76	0.75	0.44	0.22	0.16	0.12	0.53	0.08	0.04	0.00	0.00		Ton/day
Max	1.05	1.36	1.13	0.83	0.69	0.38	0.90	1.05	0.09	0.05	0.00	0.00	1.36	Ton/day
Min	0.17	0.32	0.50	0.32	0.05	0.05	0.02	0.22	0.05	0.02	0.00	0.00	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	25
R-Square	0.7132
Remarks	Continued Sediment Station

$$QS = 25.1270\ QW^{1.13210}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	70.90	216.44	238.51	453.60	255.22	377.84	511.43	227.44	329.05	80.61	47.35	19.52		
2	70.90	173.10	173.10	377.84	227.44	716.16	384.09	216.44	272.06	80.61	47.35	19.52		
3	70.90	221.94	221.94	396.63	249.64	396.63	329.05	200.06	227.44	80.61	47.35	19.52		
4	70.90	1032.73	189.22	317.55	289.03	266.44	272.06	173.10	210.96	80.61	47.35	19.52		
5	70.90	3513.67	173.10	272.06	238.51	173.10	227.44	173.10	194.63	80.61	47.35	19.52		
6	70.90	1815.58	178.46	371.60	306.11	173.10	200.06	146.63	183.83	80.61	42.78	16.78		
7	95.42	504.96	200.06	294.71	1096.15	141.40	200.06	146.63	173.10	70.90	42.78	16.78		
8	125.84	311.82	167.77	865.88	770.22	120.71	173.10	200.06	173.10	70.90	42.78	16.78		
9	115.60	205.50	151.88	852.14	466.38	205.50	173.10	616.10	162.45	70.90	42.78	16.78		
10	75.74	1032.73	194.63	550.41	352.96	352.96	200.06	872.76	146.63	70.90	42.78	16.78		
11	70.90	4910.55	200.06	384.09	294.71	352.96	359.16	4570.83	146.63	70.90	38.27	16.78		
12	70.90	5836.09	359.16	323.30	272.06	831.57	879.65	5180.94	146.63	70.90	38.27	16.78		
13	70.90	5220.16	402.92	283.36	255.22	1412.09	1412.09	1753.83	136.19	70.90	38.27	16.78		
14	70.90	3535.45	1152.89	266.44	227.44	1800.12	466.38	1623.69	131.01	70.90	38.27	16.78		
15	70.90	3264.63	1623.69	173.10	210.96	635.97	346.77	616.10	120.71	61.35	38.27	16.78		
16	70.90	3902.37	763.44	200.06	194.63	498.51	249.64	524.38	120.71	70.90	33.82	16.78		
17	70.90	2436.45	530.88	227.44	173.10	384.09	216.44	428.17	120.71	70.90	33.82	16.78		
18	70.90	1441.71	371.60	227.44	167.77	260.82	194.63	334.82	120.71	66.10	33.82	16.78		
19	70.90	1152.89	210.96	173.10	151.88	1433.96	205.50	283.36	120.71	56.63	33.82	16.78		
20	56.63	749.89	530.88	173.10	146.63	1053.82	306.11	283.36	120.71	56.63	33.82	16.78		
21	47.35	1138.67	384.09	173.10	173.10	576.58	277.70	260.82	115.60	47.35	33.82	25.13		
22	42.78	886.55	323.30	162.45	157.16	447.23	232.97	244.07	115.60	47.35	29.43	25.13		
23	70.90	675.93	300.40	173.10	146.63	384.09	232.97	232.97	110.51	47.35	29.43	25.13		
24	131.01	702.72	589.72	200.06	136.19	283.36	227.44	255.22	110.51	47.35	29.43	662.57		
25	317.55	669.25	689.31	238.51	125.84	300.40	359.16	2373.97	105.45	47.35	29.43	777.01		
26	763.44	447.23	1585.34	272.06	120.71	272.06	662.57	2772.78	105.45	47.35	29.43	669.25		
27	289.03	346.77	1593.19	609.49	115.60	390.36	570.03	928.05	105.45	47.35	25.13	249.64		
28	556.94	255.22	1600.57	1074.96	125.84	1339.48	340.60	602.89	100.42	47.35	25.13	131.01		
29	838.42	289.03	689.31	563.48	120.71	2457.32	272.06	428.17	100.42	47.35		70.90		
30	675.93	556.94	570.03	334.82	115.60	702.72	227.44	365.38	95.42	47.35		47.35		
31		563.48		317.55	136.19		244.07		95.42	47.35		42.78		
Total	5266.08	48010.45	16360.41	11303.43	7819.63	18741.35	10953.83	27036.12	4518.22	1954.22	1042.33	3075.20	156081.27	Tonday
Mean	175.54	1548.72	545.35	364.63	252.25	624.71	353.35	901.20	145.75	63.04	37.23	99.20		Ton/day
Max	838.42	5836.09	1623.69	1074.96	1096.15	2457.32	1412.09	5180.94	329.05	80.61	47.35	777.01	5836.09	Ton/day
Min	42.78	173.10	151.88	162.45	115.60	120.71	173.10	146.63	95.42	47.35	25.13	16.78	16.78	Ton/day

WATER YEAR : 2008

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

Drainge Area	946 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	1996-2008
Number of observation	319
R-Square	0.7644
Remarks	Continued Sediment Station

$$QS = 2.4427\ QW^{1.38010}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	15.70	63.52	77.55	60.23	88.68	336.78	68.53	71.93	44.57	11.64	5.29	1.21		
2	15.70	52.24	71.93	55.40	68.53	282.43	58.61	57.00	40.13	11.64	5.29	1.21		
3	15.70	63.52	53.81	58.61	88.68	134.44	52.24	46.08	35.83	11.64	5.29	2.44		
4	14.86	386.84	43.07	55.40	88.68	90.96	114.54	44.57	34.42	10.87	5.29	2.44		
5	14.86	2098.55	68.53	57.00	66.85	163.18	71.93	41.60	31.66	10.87	5.29	2.44		
6	14.86	488.79	245.71	53.81	60.23	90.96	53.81	37.25	28.96	10.12	4.67	2.44		
7	14.86	147.31	144.71	50.68	79.75	70.23	43.07	34.42	27.64	10.12	4.67	5.29		
8	14.86	84.18	149.93	58.61	79.75	47.60	41.60	33.03	25.04	10.12	5.29	5.92		
9	14.04	58.61	79.75	61.87	68.53	40.13	47.60	124.38	22.52	9.38	5.29	3.51		
10	14.04	77.55	60.23	55.40	55.40	37.25	41.60	518.04	21.28	9.38	5.29	2.96		
11	14.04	196.20	49.13	50.68	44.57	46.08	65.18	2725.02	21.28	8.65	4.08	2.11		
12	14.04	307.68	50.68	46.08	37.25	112.12	52.24	1871.32	20.07	7.94	4.08	1.80		
13	14.04	400.50	47.60	35.83	34.42	182.24	46.08	532.84	18.88	7.25	3.51	1.21		
14	13.22	460.01	93.25	28.96	33.03	270.03	57.00	276.21	16.55	7.25	2.44	0.94		
15	13.22	492.42	163.18	38.68	28.96	314.08	41.60	179.48	16.55	7.25	2.44	2.44		
16	12.43	248.71	1104.62	26.33	26.33	179.48	35.83	134.44	15.70	7.25	2.44	3.51		
17	12.43	242.71	366.58	23.77	22.52	142.13	34.42	124.38	14.86	6.58	2.11	4.67		
18	11.64	160.50	174.00	22.52	16.55	185.01	50.68	116.98	14.86	5.92	2.11	2.96		
19	17.70	102.56	104.93	25.04	16.55	474.34	55.40	88.68	14.86	5.92	1.80	2.11		
20	14.04	298.14	73.65	27.64	16.55	363.24	63.52	73.65	14.86	5.29	1.80	2.11		
21	8.65	625.53	273.12	25.04	17.70	248.71	70.23	66.85	14.04	5.29	1.80	1.49		
22	7.25	307.68	134.44	23.77	16.55	174.00	52.24	61.87	14.04	5.29	1.80	2.44		
23	5.92	182.24	95.55	22.52	16.55	114.54	41.60	57.00	14.04	5.29	1.80	4.08		
24	7.94	193.39	81.96	26.33	16.55	88.68	207.57	52.24	13.22	5.29	1.80	8.65		
25	55.40	304.49	88.68	50.68	17.70	102.56	77.55	213.32	13.22	5.29	1.80	28.96		
26	279.32	171.28	157.84	53.81	71.93	84.18	327.00	204.71	13.22	5.29	1.49	33.03		
27	104.93	142.13	126.88	248.71	40.13	79.75	199.03	86.43	13.22	5.29	1.49	14.86		
28	52.24	90.96	95.55	294.98	50.68	107.31	109.71	65.18	13.22	6.58	1.21	13.22		
29	68.53	70.23	90.96	163.18	57.00	112.12	182.24	55.40	13.22	5.29		12.43		
30	230.83	55.40	71.93	107.31	46.08	84.18	86.43	49.13	12.43	5.29		12.43		
31		70.23		147.31	93.25		68.53		12.43	5.29		12.43		
Total	1107.29	8644.10	4439.75	2056.18	1465.93	4758.74	2517.61	8043.43	626.82	234.56	91.66	197.74	34183.81	Tonday
Mean	36.91	278.84	147.99	66.33	47.29	158.62	81.21	268.11	20.22	7.57	3.27	6.38		Ton/day
Max	279.32	2098.55	1104.62	294.98	93.25	474.34	327.00	2725.02	44.57	11.64	5.29	33.03	2725.02	Ton/day
Min	5.92	52.24	43.07	22.52	16.55	37.25	34.42	33.03	12.43	5.29	1.21	0.94	0.94	Ton/day

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Nai Khieo at Ban Thon Hong, Nakhon Si Thammarat (X.165)

Lat 08 - 33 - 47 N Long 99 - 48 - 59 E

Location : on right bank at Ban Thon Hong.

Ban Thon Hong **Amphoe** Phrom Khiri **Changwat** Nakhon Si Thammarat

Drainge Area	25 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.DH - 59
Period of Available Records	1998 - Cont' d
Actual Measurement	1998 - Cont' d
Using Rating Curve Water Year	2008
Number of observation	24
R-Square	0.7275
Remarks	Continued Sediment Station

$$QS = 9.3648\ QW^{1.87720}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	13.81	18.57	13.81	5.32	2.95	30.02	3.59	12.37	1959.99	2944.09	37.37	15.32		
2	6.31	16.91	40.44	4.42	9.72	25.92	6.31	11.01	1089.22	2076.88	34.40	18.57		
3	5.32	22.10	12.37	4.42	5.32	16.91	3.59	11.01	564.75	1575.90	34.40	16.91		
4	4.42	16.91	86.08	4.42	3.59	13.81	122.85	11.01	397.01	658.88	32.18	15.32		
5	11.01	6.31	217.39	4.42	2.95	13.81	20.30	12.37	298.27	436.36	30.02	16.91		
6	22.10	8.51	46.94	3.59	2.36	16.91	12.37	16.91	285.98	186.40	30.02	16.91		
7	16.91	22.10	34.40	3.59	2.36	15.32	6.31	30.02	2791.05	176.57	27.94	16.91		
8	12.37	6.31	122.85	3.59	2.36	12.37	4.42	20.30	1089.22	131.17	27.94	15.32		
9	2.95	8.51	57.52	5.32	1.84	12.37	3.59	34.40	564.75	122.85	25.92	15.32		
10	2.95	11.01	32.18	5.32	1.84	11.01	148.57	456.68	397.01	109.73	23.98	15.32		
11	2.95	9.72	30.02	4.42	1.84	9.72	53.88	157.66	359.40	104.79	23.98	13.81		
12	2.36	13.81	53.88	4.42	1.84	9.72	53.88	2076.88	323.55	99.95	22.10	13.81		
13	2.36	77.38	18.57	3.59	1.84	5.32	65.13	1161.71	298.27	90.60	22.10	13.81		
14	2.36	32.18	16.91	5.32	1.38	4.42	20.30	148.57	131.17	81.67	22.10	13.81		
15	1.84	8.51	15.32	3.59	1.84	4.42	15.32	148.57	109.73	77.38	20.30	13.81		
16	1.84	13.81	13.81	2.95	1.38	4.42	12.37	114.78	99.95	77.38	20.30	16.91		
17	2.36	12.37	12.37	3.59	1.38	4.42	90.60	86.08	95.22	73.19	20.30	18.57		
18	8.51	11.01	12.37	3.59	4.42	12.37	20.30	69.11	186.40	65.13	18.57	16.91		
19	13.81	9.72	8.51	3.59	3.59	12.37	50.35	131.17	157.66	61.27	18.57	16.91		
20	2.36	8.51	8.51	2.95	3.59	12.37	22.10	3426.04	148.57	57.52	18.57	16.91		
21	1.84	13.81	7.37	2.95	9.72	11.01	16.91	3679.77	139.74	50.35	16.91	15.32		
22	1.84	11.01	9.72	8.51	11.01	11.01	15.32	1313.22	99.95	43.63	16.91	15.32		
23	7.37	13.81	12.37	4.42	6.31	2.95	15.32	1313.22	95.22	43.63	16.91	40.44		
24	217.39	18.57	12.37	3.59	13.81	2.36	13.81	1352.45	95.22	40.44	16.91	46.94		
25	43.63	18.57	15.32	2.95	12.37	4.42	12.37	8270.41	166.99	40.44	15.32	65.13		
26	23.98	13.81	8.51	2.95	12.37	1.84	20.30	11567.27	109.73	37.37	15.32	40.44		
27	8.51	11.01	8.51	2.95	12.37	1.84	18.57	1846.26	397.01	34.40	15.32	20.30		
28	40.44	12.37	6.31	4.42	12.37	1.38	23.98	397.01	217.39	40.44	15.32	40.44		
29	81.67	12.37	6.31	3.59	11.01	2.36	16.91	359.40	99.95	37.37		16.91		
30	18.57	11.01	6.31	2.95	23.98	1.84	13.81	2320.13	90.60	37.37		18.57		
31		9.72		2.95	23.98		12.37		77.38	37.37		20.30		
Total	584.14	480.32	947.35	124.65	207.69	289.01	915.80	40555.79	12936.35	9650.52	639.98	658.18	67989.78	Tonday
Mean	19.47	15.49	31.58	4.02	6.70	9.63	29.54	1351.86	417.30	311.31	22.86	21.23		Ton/day
Max	217.39	77.38	217.39	8.51	23.98	30.02	148.57	11567.27	2791.05	2944.09	37.37	65.13	11567.27	Ton/day
Min	1.84	6.31	6.31	2.95	1.38	1.38	3.59	11.01	77.38	34.40	15.32	13.81	1.38	Ton/day

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Khlong Sao Thong at Ban Sao Thong , Nakhon Si Thammarat (X.167)

Lat 08 - 16 - 44 N Long 99 - 54 - 30 E

Location : on right bank at the bridge.

Ban Sao Thong **Amphoe** Ron Phibun **Changwat** Nakhon Si Thammarat

Drainge Area	252 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1998 - 2009 , 2012 - Cont'd
Actual Measurement	1998 - 2009 , 2012 - Cont'd
Using Rating Curve Water Year	2008
Number of observation	23
R-Square	0.8323
Remarks	Continued Sediment Station

$$QS = 2.1768\ QW^{1.72310}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	56.23	80.03	27.42	16.41	6.88	7.82	3.65	10.92	5469.58	144.20	32.48	6.88		
2	53.04	53.04	37.91	16.41	4.38	10.92	3.65	9.84	4535.82	1158.44	29.96	8.80		
3	46.76	37.91	32.48	14.45	3.65	8.80	3.65	8.80	1449.10	2108.70	27.42	12.05		
4	53.04	37.91	27.42	14.45	4.38	8.80	3.65	5.99	724.86	630.19	25.07	10.92		
5	40.81	35.21	43.68	9.84	4.38	119.05	4.38	5.99	582.42	488.74	20.55	9.84		
6	35.21	40.81	37.91	10.92	8.80	10.92	3.65	6.88	536.23	468.90	20.55	13.23		
7	29.96	43.68	37.91	9.84	8.80	9.84	3.65	12.05	5469.58	388.08	18.39	12.05		
8	29.96	37.91	37.91	8.80	9.84	8.80	7.82	13.23	5943.94	239.42	16.41	12.05		
9	27.42	37.91	53.04	14.45	8.80	6.88	6.88	85.20	2549.62	137.73	27.42	12.05		
10	25.07	43.68	53.04	16.41	8.80	7.82	5.99	1158.44	682.47	125.15	29.96	12.05		
11	22.71	43.68	37.91	14.45	6.88	6.88	5.99	1043.38	567.62	95.96	29.96	9.84		
12	22.71	137.73	35.21	13.23	4.38	5.99	6.88	538.88	510.77	90.51	29.96	6.88		
13	22.71	276.97	35.21	12.05	3.65	5.16	12.05	2043.28	642.39	85.20	29.96	6.88		
14	22.71	178.43	29.96	13.23	4.38	5.16	10.92	585.16	468.90	80.03	29.96	5.99		
15	20.55	178.43	29.96	13.23	2.37	5.16	5.99	433.73	469.98	80.03	14.45	5.99		
16	22.71	150.80	27.42	14.45	2.98	5.16	66.58	137.73	657.56	74.99	14.45	8.80		
17	22.71	95.96	27.42	13.23	2.98	3.65	22.71	90.51	564.91	40.81	25.07	12.05		
18	27.42	63.00	27.42	13.23	2.98	3.65	10.92	85.20	524.93	43.68	20.55	10.92		
19	29.96	49.79	25.07	13.23	2.98	3.65	10.92	46.76	471.77	43.68	22.71	25.07		
20	25.07	46.76	22.71	12.05	2.98	4.38	10.92	2286.41	433.73	43.68	12.05	13.23		
21	22.71	46.76	20.55	12.05	3.65	6.88	9.84	7784.04	303.27	40.81	9.84	25.07		
22	35.21	46.76	20.55	9.84	3.65	4.38	9.84	3966.20	192.97	37.91	8.80	14.45		
23	35.21	40.81	25.07	10.92	3.65	3.65	10.92	2414.37	178.43	40.81	8.80	56.23		
24	113.08	46.76	29.96	12.05	3.65	3.65	37.91	1492.42	137.73	27.42	10.92	157.53		
25	582.42	49.79	25.07	12.05	2.98	2.98	80.03	5943.94	131.37	32.48	10.92	192.97		
26	101.53	37.91	27.42	13.23	2.98	2.98	29.96	7924.04	204.19	74.99	9.84	40.81		
27	80.03	35.21	70.09	13.23	2.98	3.65	18.39	6186.78	330.56	37.91	9.84	37.91		
28	80.03	35.21	53.04	13.23	12.05	3.65	18.39	3619.86	171.34	32.48	6.88	35.21		
29	475.36	35.21	53.04	13.23	9.84	3.65	16.41	1492.42	131.37	32.48		85.20		
30	144.20	32.48	49.79	10.92	8.80	3.65	10.92	1065.99	125.15	32.48		37.91		
31		29.96		8.80	7.82		10.92		119.05	32.48		27.42		
Total	2306.54	2106.50	1061.59	393.91	167.32	287.61	464.38	50498.44	35281.61	6990.37	553.17	926.28	101037.72	Tonday
Mean	76.88	67.95	35.39	12.71	5.40	9.59	14.98	1683.28	1138.12	225.50	19.76	29.88		Ton/day
Max	582.42	276.97	70.09	16.41	12.05	119.05	80.03	7924.04	5943.94	2108.70	32.48	192.97	7924.04	Ton/day
Min	20.55	29.96	20.55	8.80	2.37	2.98	3.65	5.99	119.05	27.42	6.88	5.99	2.37	Ton/day

WATER YEAR : 2008

SOUTHERN PENINSULA EAST COAST

Upper Khlong Lang Suan at Ban Phato , Chumphon (X.213)

Lat 09 - 46 - 55 N Long 98 - 46 - 55 E

Location : on left bank at the bridge.

Ban Phato **Amphoe** Phato **Changwat** Chumphon

Drainge Area	714 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	2005-2008
Number of observation	115
R-Square	0.7086
Remarks	Continued Sediment Station

$$QS = 2.5273\ QW^{1.37880}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	44.45	46.37	245.12	509.18	419.47	316.23	578.52	369.25	822.36	225.75	97.10	64.67		
2	50.29	46.37	235.38	445.23	344.81	369.25	499.47	326.78	713.47	216.23	94.26	73.31		
3	38.81	99.96	225.75	470.67	1303.73	285.15	470.67	305.77	639.83	192.93	91.45	73.31		
4	35.52	6575.25	216.23	406.75	629.50	240.24	568.46	290.27	578.52	174.82	88.66	66.80		
5	32.68	2094.28	211.51	394.14	461.18	295.41	432.30	264.93	518.93	165.96	88.66	64.67		
6	42.54	588.62	254.97	350.87	499.47	245.12	375.43	259.94	461.18	152.90	88.66	68.95		
7	73.31	356.97	216.23	461.18	1092.69	225.75	344.81	280.05	432.30	157.22	85.89	64.67		
8	52.28	259.94	202.16	811.28	660.65	518.93	332.76	259.94	413.10	148.62	85.89	62.55		
9	56.33	400.43	192.93	470.67	509.18	778.29	321.49	259.94	387.87	148.62	83.15	62.55		
10	48.32	1632.89	206.82	375.43	432.30	800.24	381.64	1502.43	369.25	140.15	83.15	62.55		
11	44.45	2566.88	338.77	381.64	406.75	2548.22	350.87	6675.21	344.81	135.96	80.43	60.46		
12	36.97	8380.72	1146.59	356.97	387.87	1851.11	316.23	3841.73	332.76	132.85	80.43	56.33		
13	34.09	8536.22	1391.74	310.99	356.97	4416.18	356.97	1616.42	321.49	129.76	77.74	56.33		
14	32.68	5575.82	978.10	295.41	321.49	1800.09	363.09	1092.69	310.99	129.76	77.74	54.30		
15	31.28	3632.09	629.50	285.15	300.58	1260.33	305.77	844.64	300.58	129.76	75.51	56.33		
16	29.89	2947.72	445.23	305.77	290.27	903.68	300.58	702.81	290.27	129.76	75.51	64.67		
17	34.09	1989.06	381.64	274.99	269.94	953.11	305.77	608.96	285.15	126.68	73.31	58.38		
18	31.28	1347.54	332.76	259.94	259.94	928.31	280.05	528.74	274.99	123.63	71.12	58.38		
19	36.97	953.11	305.77	254.97	245.12	1203.09	264.93	461.18	259.94	120.59	71.12	129.76		
20	38.81	978.10	290.27	254.97	230.55	1015.90	245.12	660.65	245.12	120.59	71.12	73.31		
21	46.37	767.38	344.81	240.24	274.99	724.16	254.97	713.47	240.24	120.59	71.12	129.76		
22	32.68	608.96	822.36	216.23	254.97	724.16	250.03	1079.78	230.55	114.59	71.12	144.37		
23	29.89	489.82	811.28	206.82	264.93	548.50	363.09	1203.09	225.75	111.62	71.12	170.38		
24	66.80	438.75	1289.22	518.93	230.55	499.47	240.24	978.10	220.97	111.62	68.95	85.89		
25	94.26	419.47	1217.33	681.64	206.82	499.47	558.46	3266.28	211.51	144.37	68.95	75.51		
26	94.26	369.25	1028.59	2147.45	202.16	445.23	1971.67	2928.34	225.75	114.59	66.80	77.74		
27	75.51	326.78	953.11	1174.74	188.36	915.97	578.52	2236.87	211.51	108.67	66.80	105.74		
28	114.59	305.77	1028.59	800.24	197.53	1422.42	400.43	1332.90	206.82	105.74	66.80	68.95		
29	108.67	290.27	745.69	548.50	254.97	940.69	903.68	1146.59	192.93	105.74		62.55		
30	64.67	274.99	608.96	445.23	548.50	681.64	671.12	953.11	188.36	102.84		58.38		
31		264.93		480.22	274.99		445.23		183.81	99.96		56.33		
Total	1552.74	53564.71	17297.41	15136.44	12321.23	28356.34	14032.37	36990.86	10641.11	4242.87	2192.56	2367.88	198696.52	Tonday
Mean	51.76	1727.89	576.58	488.27	397.46	945.21	452.66	1233.03	343.26	136.87	78.31	76.38		Ton/day
Max	114.59	8536.22	1391.74	2147.45	1303.73	4416.18	1971.67	6675.21	822.36	225.75	97.10	170.38	8536.22	Ton/day
Min	29.89	46.37	192.93	206.82	188.36	225.75	240.24	259.94	183.81	99.96	66.80	54.30	29.89	Ton/day

WATER YEAR : 2008

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

Drainge Area	5,383 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US.D - 49
Period of Available Records	1990-Cont'd
Actual Measurement	1990-Cont'd
Using Rating Curve Water Year	2008
Number of observation	26
R-Square	0.7348
Remarks	Continued Sediment Station

$$QS = 1.5592\ QW^{1.55900}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	703.06	764.89	651.56	4843.28	747.03	1691.17	764.89	4162.19	15098.34	951.58	277.30	138.17		
2	424.22	564.88	644.17	4277.97	677.14	1811.83	782.90	4047.55	14718.01	1000.51	265.70	138.17		
3	411.58	443.42	903.55	3573.31	660.05	1966.80	694.38	3357.56	14273.90	1444.84	258.07	135.14		
4	489.40	344.60	1100.96	2802.05	738.16	2094.03	607.67	2685.12	13689.38	2382.16	258.07	132.15		
5	324.60	281.20	1090.76	2094.03	951.58	2363.65	543.92	2094.03	12900.09	2290.17	250.52	141.21		
6	273.41	392.89	1416.78	1617.28	932.26	3259.03	489.40	1388.92	11992.16	1751.12	243.05	156.79		
7	261.88	600.46	1691.17	1279.48	875.16	3821.74	462.93	1131.76	10822.90	1361.26	232.00	179.57		
8	250.52	523.23	1904.26	1142.09	847.09	3600.62	424.22	1142.09	9736.32	1142.09	217.55	189.67		
9	269.55	502.84	2532.01	1430.78	837.81	3213.91	523.23	1131.76	9129.45	941.91	206.94	224.73		
10	295.42	703.06	2437.97	1515.84	828.57	3013.69	828.57	1010.40	8590.00	801.05	199.97	182.92		
11	339.56	1162.87	2094.03	1266.03	747.03	2589.05	884.58	1617.28	7751.69	703.06	193.08	172.95		
12	339.56	1736.06	2045.98	1183.77	685.74	2217.52	694.38	4047.55	6645.50	622.18	189.67	189.67		
13	309.89	3411.04	2704.49	1080.59	607.67	2271.93	1183.77	6084.96	5565.17	579.02	193.08	172.95		
14	254.29	5275.69	3905.87	1070.46	530.09	2030.06	2345.21	7546.98	4336.28	543.92	189.67	163.19		
15	210.45	6471.14	4047.55	1100.96	496.10	1676.29	2235.60	8219.45	3411.04	502.84	186.28	150.49		
16	186.28	6954.60	3491.84	1152.46	462.93	1361.26	2290.17	7700.33	2802.05	469.50	186.28	144.28		
17	179.57	6341.47	2762.88	1306.54	430.58	1100.96	3079.92	5832.27	2419.31	430.58	182.92	141.21		
18	169.68	4662.05	1873.27	1239.28	399.09	951.58	4162.19	3738.27	2127.90	417.88	179.57	138.17		
19	163.19	2969.83	1347.50	1080.59	386.73	913.08	4692.08	2782.44	1951.10	399.09	166.42	153.63		
20	156.79	1966.80	1121.46	1080.59	399.09	1292.98	5711.98	2094.03	1588.06	375.38	159.98	273.41		
21	189.67	1430.78	903.55	1121.46	424.22	1361.26	6865.77	3546.08	1388.92	370.19	159.98	660.05		
22	277.30	1430.78	828.57	1030.28	489.40	1142.09	7597.97	6255.55	1239.28	354.75	156.79	2235.60		
23	239.35	1515.84	884.58	922.66	571.94	951.58	8219.45	7700.33	1121.46	334.55	150.49	3191.44		
24	228.36	1530.19	1030.28	894.05	660.05	810.19	8430.47	8804.36	1010.40	319.67	150.49	2802.05		
25	228.36	1347.50	1292.98	884.58	711.78	677.14	7854.79	9848.16	856.41	314.77	150.49	1919.83		
26	250.52	1204.81	1646.69	1050.30	571.94	600.46	8010.34	10950.69	828.57	305.04	147.37	1458.94		
27	324.60	1252.63	3102.11	1040.27	644.17	629.48	8430.47	12197.25	856.41	290.65	147.37	990.65		
28	399.09	1162.87	4782.59	1010.40	922.66	579.02	8377.54	13042.34	1000.51	285.91	144.28	951.58		
29	424.22	961.30	5383.60	1040.27	961.30	530.09	7404.84	14053.68	1070.46	324.60		764.89		
30	496.10	810.19	5239.90	980.83	1162.87	607.67	5239.90	14792.50	1090.76	309.89		593.28		
31		711.78		847.09	1573.52		4019.07		903.55	285.91		424.22		
Total	9070.47	59431.69	64862.91	46959.57	21933.75	51130.16	113852.60	173005.88	170915.38	22606.07	5443.38	19311.00	758522.86	Tonday
Mean	302.35	1917.15	2162.10	1514.82	707.54	1704.34	3672.66	5766.86	5513.40	729.23	194.41	622.94		Ton/day
Max	703.06	6954.60	5383.60	4843.28	1573.52	3821.74	8430.47	14792.50	15098.34	2382.16	277.30	3191.44	15098.34	Ton/day
Min	156.79	281.20	644.17	847.09	386.73	530.09	424.22	1010.40	828.57	285.91	144.28	132.15	132.15	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	26
R-Square	0.7177
Remarks	Continued Sediment Station

$$QS = 8.1584\ QW^{1.51140}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	270.88	1122.52	690.42	1683.77	264.85	486.36	464.40	4746.95	6606.34	757.92	113.25	66.31		
2	464.40	1122.52	665.66	1450.11	264.85	493.75	617.07	4149.29	5233.32	902.18	104.36	66.31		
3	340.13	1122.52	633.13	1010.32	264.85	493.75	748.22	2637.06	4431.73	977.75	92.90	66.31		
4	264.85	1122.52	617.07	902.18	546.56	934.49	798.26	1702.52	3579.45	1032.44	90.11	66.31		
5	237.34	1255.57	641.21	870.85	546.56	1111.45	902.18	1111.45	3200.17	1077.16	90.11	66.31		
6	229.67	1255.57	1393.56	818.70	346.69	1337.78	1122.52	1379.54	3061.68	977.75	87.34	66.31		
7	225.86	1255.57	1043.88	757.92	359.93	2172.94	1464.36	1639.06	2831.06	902.18	87.34	66.31		
8	222.08	2925.28	1874.37	698.74	327.15	3153.77	1683.77	870.85	2528.93	902.18	84.61	66.31		
9	218.32	2925.28	1683.77	881.05	327.15	2791.00	1972.23	625.08	2350.75	818.70	84.61	66.31		
10	214.58	2925.28	913.11	966.57	307.99	2528.93	2275.74	748.22	2234.43	649.32	81.90	66.31		
11	210.87	3270.18	977.75	798.26	249.01	2091.87	2702.67	1421.74	2103.96	531.29	79.23	79.23		
12	207.17	4641.06	1310.18	708.77	225.86	1580.09	3388.01	2334.01	1960.40	493.75	79.23	79.23		
13	203.50	5566.38	3972.86	665.66	207.17	1435.90	3061.68	4174.70	3873.21	479.00	76.58	79.23		
14	199.85	7830.52	3627.86	625.08	178.42	944.94	2702.67	6323.15	3579.45	464.40	76.58	79.23		
15	189.03	8728.43	2615.31	585.37	196.22	1010.32	1702.52	6893.69	3317.14	421.54	73.97	79.23		
16	185.47	8728.43	1874.37	531.29	252.94	1043.88	1435.90	3735.15	2857.87	400.64	73.97	66.31		
17	181.94	7830.52	1175.14	479.00	252.94	902.18	3246.79	2791.00	2275.74	386.90	71.38	66.31		
18	178.42	7830.52	956.04	435.67	249.01	538.90	5200.40	2439.29	1759.18	340.13	71.38	79.23		
19	181.94	5906.32	788.40	393.75	249.01	353.29	5532.76	1952.52	1088.77	301.70	68.83	174.93		
20	189.03	5906.32	748.22	393.75	245.10	249.01	6753.09	1757.66	798.26	289.24	68.83	1175.14		
21	189.03	2486.10	682.13	393.75	245.10	241.21	8275.35	1826.45	633.13	252.94	68.83	4641.06		
22	189.03	2486.10	561.98	386.90	245.10	333.62	9848.63	2160.71	546.56	229.67	68.83	4641.06		
23	189.03	1683.77	554.25	373.33	237.34	471.68	10865.68	2619.66	457.16	214.58	66.31	6183.14		
24	225.86	1683.77	665.66	353.29	237.34	501.19	10816.49	2831.06	393.75	192.61	66.31	7026.77		
25	199.85	1683.77	956.04	340.13	225.86	353.29	9611.50	2993.22	373.33	178.42	66.31	5735.49		
26	171.46	1393.56	1536.34	327.15	245.10	225.86	9848.63	4053.19	366.61	168.02	66.31	1365.57		
27	154.48	1393.56	3340.71	314.34	366.61	199.85	10183.88	4961.13	393.75	154.48	66.31	923.48		
28	154.48	1255.57	4588.43	301.70	577.54	164.60	9189.62	6229.69	486.36	141.34	66.31	738.01		
29	203.50	1255.57	4800.20	289.24	633.13	178.42	7026.77	6701.66	546.56	125.47		464.40		
30	340.13	1255.57	4588.43	276.95	1521.86	218.32	6113.53	8096.42	625.08	116.27		260.86		
31		1255.57		264.85	1421.74		5837.78		682.13	116.27		225.86		
Total	6632.18	101104.22	50476.48	19278.44	11818.98	28542.64	145393.10	95906.12	65176.26	14996.24	2192.03	34826.87	576343.56	Tonday
Mean	221.07	3261.43	1682.55	621.89	381.26	951.42	4690.10	3196.87	2102.46	483.75	78.29	1123.45		Ton/day
Max	464.40	8728.43	4800.20	1683.77	1521.86	3153.77	10865.68	8096.42	6606.34	1077.16	113.25	7026.77	10865.68	Ton/day
Min	154.48	1122.52	554.25	264.85	178.42	164.60	464.40	625.08	366.61	116.27	66.31	66.31	66.31	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	25
R-Square	0.7600
Remarks	Continued Sediment Station

$$QS = 24.6720\ QW^{1.31470}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	178.23	379.75	178.23	215.54	78.00	101.39	71.65	136.81	24033.87	476.01	178.23	104.59		
2	170.46	404.91	170.46	178.23	78.00	259.59	71.65	132.92	10482.41	654.25	178.23	101.39		
3	162.78	274.50	162.78	170.46	71.65	326.41	68.73	132.92	3047.73	1478.83	174.59	300.19		
4	159.22	264.73	159.22	170.46	78.00	140.24	65.44	122.34	1756.84	1631.87	170.46	274.50		
5	155.18	249.38	170.46	166.86	87.97	147.66	62.58	125.68	1756.84	1600.97	166.86	187.66		
6	151.66	225.41	178.23	159.22	78.00	159.22	59.36	249.38	3784.29	829.96	162.78	162.78		
7	147.66	201.49	201.49	147.66	91.06	178.23	59.36	178.23	6317.77	682.83	159.22	140.24		
8	159.22	178.23	239.83	140.24	162.78	259.59	62.58	159.22	6538.87	577.20	147.66	122.34		
9	170.46	225.41	269.32	170.46	140.24	178.23	65.44	140.24	4175.21	515.92	140.24	115.25		
10	162.78	249.38	249.38	132.92	132.92	170.46	71.65	155.18	2718.29	443.35	136.81	111.52		
11	155.18	249.38	225.41	129.53	87.97	122.34	87.97	206.33	2045.82	411.26	136.81	104.59		
12	147.66	886.85	201.49	140.24	81.43	115.25	97.77	563.44	1275.02	379.75	132.92	101.39		
13	118.55	690.02	178.23	147.66	71.65	122.34	104.59	469.44	1042.82	369.18	125.68	101.39		
14	118.55	369.18	159.22	159.22	71.65	140.24	97.77	379.75	954.73	352.53	122.34	91.06		
15	111.52	326.41	151.66	170.46	65.44	132.92	91.06	326.41	792.54	342.15	129.53	87.97		
16	111.52	315.62	122.34	178.23	78.00	91.06	71.65	284.94	733.54	326.41	132.92	84.47		
17	178.23	300.19	104.59	159.22	81.43	87.97	87.97	220.46	682.83	315.62	136.81	140.24		
18	159.22	225.41	104.59	147.66	84.47	78.00	115.25	264.73	661.37	305.51	132.92	178.23		
19	140.24	215.54	94.62	140.24	71.65	75.02	151.66	690.02	611.93	294.89	129.53	215.54		
20	132.92	201.49	91.06	140.24	71.65	71.65	159.22	2287.22	591.03	284.94	125.68	140.24		
21	125.68	206.33	91.06	140.24	65.44	71.65	122.34	1030.92	542.95	274.50	122.34	159.22		
22	122.34	315.62	101.39	136.81	71.65	68.73	363.61	1570.22	509.22	249.38	118.55	151.66		
23	122.34	225.41	104.59	122.34	78.00	68.73	509.22	2158.62	476.01	234.82	115.25	147.66		
24	122.34	220.46	182.93	115.25	81.43	71.65	482.61	2594.03	443.35	225.41	111.52	140.24		
25	125.68	215.54	259.59	108.27	87.97	71.65	802.23	2768.39	430.44	225.41	104.59	132.92		
26	191.89	225.41	417.63	111.52	78.00	75.02	577.20	1756.84	417.63	220.46	104.59	125.68		
27	347.63	225.41	954.73	104.59	125.68	71.65	347.63	3270.52	411.26	215.54	101.39	122.34		
28	379.75	215.54	886.85	104.59	111.52	65.44	234.82	7902.31	404.91	201.49	97.77	140.24		
29	417.63	210.65	777.68	101.39	111.52	56.58	162.78	5077.38	398.58	187.66		254.47		
30	398.58	201.49	449.84	97.77	104.59	71.65	140.24	2945.41	379.75	178.23		326.41		
31		196.67		94.62	104.59		136.81		411.26	178.23		215.54		
Total	5345.10	8891.81	7638.90	4402.14	2784.35	3650.56	5602.84	38300.30	78829.11	14664.56	3796.22	4781.96	178687.85	Tonday
Mean	178.17	286.83	254.63	142.00	89.82	121.69	180.74	1276.68	2542.87	473.05	135.58	154.26	489.56	Ton/day
Max	417.63	886.85	954.73	215.54	162.78	326.41	802.23	7902.31	24033.87	1631.87	178.23	326.41	24033.87	Ton/day
Min	111.52	178.23	91.06	94.62	65.44	56.58	59.36	122.34	379.75	178.23	97.77	84.47	56.58	Ton/day

WATER YEAR : 2008

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

Drainge Area	1,547 sq.km.
Method of sampling	Depth Integrating
Instrument Used	US D- 49
Period of Available Records	1982 - Cont' d
Actual Measurement	1982 - Cont' d
Using Rating Curve Water Year	2008
Number of observation	27
R-Square	0.7834
Remarks	Continued Sediment Station

$$QS = 10.0210\ QW^{1.34160}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	756.33	2334.70	457.29	237.94	256.18	439.59	25.74	358.90	19010.89	1349.68	379.10	50.53		
2	1063.06	1188.30	404.75	185.37	332.40	287.32	23.88	829.98	20046.94	1774.74	312.88	95.08		
3	1034.50	969.37	345.59	163.12	466.20	237.94	25.74	484.16	17294.92	2738.93	413.39	829.98		
4	708.22	805.24	293.66	332.40	511.41	225.97	70.92	332.40	12803.03	3138.63	502.28	1284.50		
5	475.16	672.67	281.02	511.41	439.59	237.94	74.26	300.03	7530.39	2630.09	557.66	332.40		
6	312.88	1815.04	475.16	660.93	332.40	268.53	124.73	358.90	4864.26	1615.88	557.66	95.08		
7	214.16	152.27	969.37	372.34	202.52	293.66	87.99	780.69	5716.40	780.69	580.22	64.36		
8	287.32	325.86	502.28	293.66	306.44	132.46	64.36	649.24	12695.14	404.75	580.22	179.74		
9	1236.16	548.33	768.49	220.04	557.66	25.74	157.67	325.86	17735.82	422.08	568.92	372.34		
10	696.32	1078.52	529.79	352.23	672.67	20.58	196.76	274.76	18179.53	708.22	539.04	626.01		
11	1008.32	1300.72	345.59	475.16	720.17	57.34	214.16	1220.15	14650.34	637.60	511.41	829.98		
12	1220.15	1460.90	250.06	603.01	502.28	67.62	174.15	1268.33	9168.79	413.39	475.16	805.24		
13	732.18	829.98	732.18	660.93	319.35	70.92	124.73	660.93	5420.70	511.41	475.16	744.23		
14	511.41	502.28	880.03	591.59	214.16	168.61	684.47	880.03	3793.55	603.01	603.01	649.24		
15	358.90	387.60	756.33	352.23	338.98	179.74	867.44	708.22	3521.82	529.79	568.92	548.33		
16	626.01	220.04	365.60	220.04	413.39	12.37	568.92	345.59	3373.12	387.60	684.47	466.20		
17	557.66	484.16	312.88	174.15	520.58	12.37	756.33	231.93	2286.35	422.08	756.33	396.15		
18	281.02	918.05	325.86	293.66	422.08	13.66	756.33	225.97	1596.29	404.75	829.98	338.98		
19	780.69	466.20	345.59	396.15	365.60	14.99	1063.06	220.04	1284.50	568.92	817.58	293.66		
20	1316.99	358.90	439.59	529.79	281.02	2.54	1034.50	1156.66	918.05	557.66	557.66	1557.30		
21	1268.33	208.32	502.28	396.15	152.27	0.00	780.69	1284.50	732.18	529.79	358.90	1204.20		
22	306.44	128.58	520.58	237.94	84.50	0.00	817.58	1156.66	502.28	396.15	300.03	1422.79		
23	87.99	128.58	475.16	220.04	48.31	14.99	1499.27	1268.33	529.79	332.40	306.44	732.18		
24	179.74	146.92	404.75	466.20	25.74	27.64	2040.73	1284.50	792.94	466.20	319.35	672.67		
25	365.60	179.74	396.15	880.03	8.70	14.99	2040.73	2481.28	829.98	557.66	237.94	982.31		
26	141.61	208.32	387.60	614.48	2.54	5.39	1734.67	3196.85	720.17	672.67	141.61	660.93		
27	345.59	274.76	413.39	300.03	84.50	39.69	1635.53	3763.10	768.49	696.32	81.05	529.79		
28	1422.79	345.59	732.18	548.33	1034.50	91.52	969.37	4734.84	867.44	672.67	41.81	591.59		
29	1349.68	457.29	413.39	768.49	1384.93	191.04	708.22	6167.34	1384.93	626.01		805.24		
30	1403.83	591.59	352.23	780.69	756.33	120.92	332.40	6898.70	2580.24	614.48		1896.33		
31		539.04		372.34	603.01		250.06		1835.28	502.28		1815.04		
Total	21049.04	20027.86	14378.82	13210.87	12360.41	3276.07	19905.39	43848.87	193434.55	26666.53	13058.18	21872.40	403088.99	Tonday
Mean	701.63	646.06	479.29	426.16	398.72	109.20	642.11	1461.63	6239.82	860.21	466.36	705.56		Ton/day
Max	1422.79	2334.70	969.37	880.03	1384.93	439.59	2040.73	6898.70	20046.94	3138.63	829.98	1896.33	20046.94	Ton/day
Min	87.99	128.58	250.06	163.12	2.54	0.00	23.88	220.04	502.28	332.40	41.81	50.53	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2005-2008
Number of observation	93
R-Square	0.7128
Remarks	Continued Sediment Station

$$QS = 3.9748\ QW^{1.26730}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	36.48	44.70	32.51	34.48	21.22	30.56	28.63	30.56	1875.91	53.95	30.56	17.70		
2	34.48	44.70	36.48	32.51	21.22	26.74	21.22	28.63	1075.71	449.96	28.63	30.56		
3	32.51	36.48	32.51	32.51	21.22	24.87	40.54	26.74	712.47	2039.79	26.74	71.51		
4	30.56	36.48	32.51	32.51	21.22	24.87	32.51	24.87	370.30	721.96	26.74	30.56		
5	30.56	38.50	34.48	28.63	21.22	23.03	23.03	23.03	268.75	323.76	26.74	28.63		
6	30.56	32.51	30.56	28.63	21.22	24.87	21.22	28.63	211.36	216.03	28.63	21.22		
7	48.94	42.61	28.63	26.74	28.63	28.63	26.74	34.48	392.46	164.81	28.63	21.22		
8	46.81	36.48	34.48	24.87	26.74	26.74	21.22	28.63	469.58	130.81	28.63	21.22		
9	32.51	42.61	40.54	32.51	24.87	56.76	21.22	42.61	430.65	109.42	26.74	19.45		
10	28.63	42.61	38.50	26.74	21.22	28.63	21.22	48.94	244.49	96.41	26.74	17.70		
11	28.63	102.87	46.81	26.74	19.45	42.61	21.22	46.81	188.35	86.84	24.87	17.70		
12	26.74	62.55	40.54	24.87	19.45	28.63	21.22	610.28	157.11	74.49	28.63	17.70		
13	26.74	127.13	42.61	24.87	19.45	24.87	48.94	234.92	130.81	71.51	24.87	17.70		
14	26.74	123.48	38.50	24.87	17.70	24.87	26.74	123.48	112.67	80.62	24.87	17.70		
15	26.74	149.49	34.48	36.48	17.70	23.03	21.22	77.59	102.87	74.49	24.87	17.70		
16	26.74	83.76	30.56	30.56	17.70	23.03	21.22	59.69	109.42	62.55	23.03	21.22		
17	24.87	65.54	30.56	24.87	17.70	23.03	32.51	46.81	106.08	56.76	23.03	19.45		
18	26.74	51.08	30.56	28.63	34.48	21.22	44.70	46.81	86.84	56.76	21.22	17.70		
19	26.74	46.81	26.74	24.87	17.70	21.22	116.25	48.94	74.49	53.95	21.22	23.03		
20	24.87	44.70	26.74	24.87	134.50	21.22	56.76	149.49	71.51	51.08	21.22	21.22		
21	23.03	46.81	26.74	24.87	130.81	24.87	68.47	192.91	65.54	44.70	21.22	26.74		
22	23.03	44.70	24.87	23.03	46.81	24.87	44.70	666.89	59.69	42.61	21.22	19.45		
23	24.87	42.61	34.48	23.03	153.29	19.45	38.50	1321.63	56.76	40.54	21.22	17.70		
24	127.13	48.94	127.13	26.74	46.81	17.70	36.48	495.92	53.95	40.54	19.45	21.22		
25	288.50	71.51	56.76	34.48	38.50	17.70	65.54	482.71	56.76	71.51	19.45	24.87		
26	90.04	44.70	90.04	23.03	32.51	24.87	48.94	1004.81	59.69	44.70	19.45	19.45		
27	96.41	44.70	86.84	30.56	32.51	21.22	38.50	642.50	96.41	40.54	17.70	17.70		
28	62.55	40.54	48.94	59.69	26.74	19.45	36.48	1168.11	74.49	38.50	17.70	17.70		
29	59.69	40.54	42.61	30.56	44.70	23.03	30.56	1595.45	62.55	36.48		24.87		
30	46.81	38.50	34.48	26.74	30.56	32.51	32.51	1774.98	53.95	36.48		46.81		
31		34.48		24.87	28.63		40.54		48.94	34.48		21.22		
Total	1459.65	1753.12	1262.19	899.36	1156.48	775.10	1149.55	11107.85	7880.56	5447.03	674.02	728.62	34293.53	Tonday
Mean	48.66	56.55	42.07	29.01	37.31	25.84	37.08	370.26	254.21	175.71	24.07	23.50		Ton/day
Max	288.50	149.49	127.13	59.69	153.29	56.76	116.25	1774.98	1875.91	2039.79	30.56	71.51	2039.79	Ton/day
Min	23.03	32.51	24.87	23.03	17.70	17.70	21.22	23.03	48.94	34.48	17.70	17.70	17.70	Ton/day

WATER YEAR : 2008

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

Drainge Area	116 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	2008
Number of observation	26
R-Square	0.7207
Remarks	Continued Sediment Station

$$QS = 22.2630\ QW^{1.19210}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	44.86	9.74	12.11	36.10	24.94	31.84	14.55	20.94	16090.96	388.18	75.97	50.87		
2	38.99	9.74	12.11	36.10	23.60	27.67	14.55	20.94	4096.00	419.93	75.97	50.87		
3	36.10	9.74	12.11	64.79	20.94	26.30	14.55	19.64	2303.92	839.08	75.97	50.87		
4	29.05	9.74	12.11	64.79	50.87	26.30	15.80	19.64	772.83	782.24	74.36	52.39		
5	29.05	9.74	15.80	44.86	49.36	26.30	15.80	19.64	772.83	544.01	74.36	53.91		
6	9.74	9.74	15.80	38.99	38.99	22.26	17.06	19.64	652.23	413.55	72.75	55.45		
7	9.74	9.74	15.80	36.10	36.10	22.26	15.80	19.64	735.37	310.86	71.14	58.54		
8	9.74	9.74	15.80	33.25	36.10	22.26	15.80	19.64	820.06	275.48	69.55	60.09		
9	9.74	9.74	15.80	29.05	36.10	20.94	15.80	19.64	520.99	241.21	67.95	63.22		
10	9.74	14.55	15.80	26.30	34.67	20.94	15.80	19.64	459.85	226.48	66.37	64.79		
11	9.74	14.55	19.64	24.94	33.25	20.94	14.55	53.91	426.33	207.33	64.79	64.79		
12	9.74	9.74	19.64	23.60	29.05	20.94	15.80	123.19	363.07	188.46	63.22	66.37		
13	9.74	9.74	19.64	22.26	24.94	20.94	15.80	99.12	325.93	169.89	61.65	66.37		
14	9.74	9.74	19.64	22.26	41.91	20.94	22.26	80.85	300.74	166.22	58.54	66.37		
15	9.74	9.74	19.64	24.94	38.99	20.94	22.26	69.55	325.93	162.55	58.54	66.37		
16	9.74	9.74	19.64	24.94	31.84	19.64	22.26	55.45	285.46	158.90	58.54	66.37		
17	9.74	9.74	19.64	24.94	30.44	18.34	20.94	49.36	265.56	151.64	56.99	66.37		
18	9.74	9.74	19.64	24.94	27.67	18.34	20.94	43.38	236.15	133.75	55.45	66.37		
19	9.74	9.74	19.64	24.94	56.99	19.64	22.26	116.22	207.33	116.22	55.45	66.37		
20	9.74	9.74	22.26	24.94	37.54	19.64	22.26	432.74	180.99	82.48	55.45	109.33		
21	9.74	9.74	22.26	24.94	29.05	20.94	20.94	265.56	180.99	66.37	55.45	137.30		
22	9.74	9.74	36.10	24.94	29.05	20.94	20.94	528.50	155.27	95.75	55.45	116.22		
23	9.74	9.74	50.87	26.30	29.05	19.64	20.94	407.18	148.04	95.75	53.91	116.22		
24	9.74	9.74	58.54	37.54	24.94	19.64	34.67	583.32	148.04	92.41	53.91	116.22		
25	9.74	12.11	63.22	38.99	29.05	19.64	37.54	886.92	158.90	92.41	52.39	116.22		
26	9.74	12.11	63.22	34.67	27.67	18.34	29.05	599.08	188.46	89.08	52.39	116.22		
27	9.74	12.11	52.39	27.67	33.25	18.34	24.94	520.99	188.46	89.08	50.87	116.22		
28	14.55	12.11	47.85	23.60	33.25	17.06	24.94	1207.55	211.14	82.48	50.87	89.08		
29	15.80	12.11	43.38	23.60	33.25	15.80	23.60	1092.30	305.59	79.22		89.08		
30	17.06	12.11	43.38	23.60	34.67	14.55	23.60	1738.98	300.74	74.36		89.08		
31		12.11		23.60	36.10		22.26		332.08	74.36		89.08		
Total	439.74	328.15	823.47	962.48	1043.62	632.26	638.26	9153.15	32460.24	6909.73	1738.25	2457.02	57586.37	Tonday
Mean	14.66	10.59	27.45	31.05	33.67	21.08	20.59	305.10	1047.10	222.89	62.08	79.26		Ton/day
Max	44.86	14.55	63.22	64.79	56.99	31.84	37.54	1738.98	16090.96	839.08	75.97	137.30	16090.96	Ton/day
Min	9.74	9.74	12.11	22.26	20.94	14.55	14.55	19.64	148.04	66.37	50.87	50.87	9.74	Ton/day

WATER YEAR : 2008

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

Drainge Area	127 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	2004-2008
Number of observation	113
R-Square	0.7111
Remarks	Continued Sediment Station

$$QS = 7.7992\ QW^{1.35670}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	5.28	29.26	1.88	9.43	1.52	18.63	0.34	4.35	8976.07	141.78	11.72	5.28		
2	5.28	11.13	4.81	7.80	1.19	16.66	0.13	3.05	7809.11	102.57	11.72	10.56		
3	4.81	6.76	5.76	26.30	1.19	6.26	0.00	2.25	1793.64	982.69	11.13	40.70		
4	4.81	5.28	3.47	44.34	19.30	4.81	12.31	3.47	752.83	1918.52	10.56	25.58		
5	4.35	4.81	4.81	14.76	4.81	16.66	5.76	1.88	481.42	1282.85	10.56	13.52		
6	4.35	4.35	35.88	8.88	3.05	17.31	2.64	3.47	4482.34	232.23	9.99	11.13		
7	3.90	3.90	6.76	8.33	11.72	9.43	1.19	1.88	4945.03	133.23	9.43	7.80		
8	3.90	5.76	6.26	7.80	11.72	6.76	0.88	2.64	8922.10	90.28	8.88	6.76		
9	3.90	4.81	4.81	6.76	6.26	9.43	0.13	1.88	1918.52	72.64	8.33	7.27		
10	3.47	7.80	38.27	5.28	3.47	6.26	0.00	2.64	784.66	56.07	8.33	5.28		
11	3.47	27.04	12.91	12.91	2.64	5.28	0.00	26.30	519.98	48.23	8.33	4.81		
12	3.05	93.31	8.33	7.80	1.88	4.35	1.19	18.63	386.22	39.40	8.33	4.35		
13	3.05	99.46	12.91	5.28	1.52	3.47	22.03	12.91	321.35	35.88	7.80	4.35		
14	2.64	25.58	8.33	4.81	2.64	8.33	12.91	12.31	296.30	45.68	7.80	3.90		
15	2.64	15.39	5.76	4.81	3.47	3.90	3.90	9.43	293.55	33.07	7.27	3.47		
16	2.64	10.56	4.35	3.90	4.81	3.05	8.88	6.26	263.75	30.01	6.76	3.47		
17	2.25	8.88	3.47	3.05	15.39	2.25	3.47	5.28	242.62	28.51	6.76	3.05		
18	2.25	7.27	3.47	2.64	4.81	2.25	7.27	9.43	216.87	26.30	6.26	5.28		
19	1.88	6.26	2.64	2.64	3.05	1.88	3.47	60.02	216.87	24.14	6.26	5.76		
20	1.88	5.28	2.64	2.64	3.47	0.88	5.28	237.41	206.79	22.03	5.76	6.26		
21	1.88	4.35	1.88	2.64	3.05	0.88	3.47	82.71	196.83	20.65	5.28	16.66		
22	1.88	4.35	1.88	1.88	5.28	0.59	34.62	125.04	189.45	19.30	5.28	6.26		
23	1.52	5.28	2.64	1.88	5.76	0.13	24.14	120.02	182.15	17.97	4.81	5.28		
24	1.52	5.76	9.99	3.05	2.64	0.13	167.76	349.79	179.73	17.31	4.81	634.76		
25	1.52	5.28	21.34	22.03	1.88	0.13	44.34	1135.44	189.45	17.31	4.35	49.43		
26	1.52	4.81	13.52	6.76	1.19	0.34	15.39	768.70	201.79	17.97	4.35	18.63		
27	1.19	3.90	50.81	5.76	1.19	0.13	12.31	623.01	229.65	16.66	4.35	12.91		
28	1.19	3.05	27.77	3.90	17.97	0.00	7.80	2379.46	196.83	15.39	4.35	9.99		
29	5.76	2.64	49.43	2.64	10.56	0.13	4.35	1178.77	332.65	14.76		11.72		
30	5.28	3.47	11.72	1.88	29.26	1.19	4.81	5996.43	266.42	13.52		17.97		
31		2.64		1.88	7.27		7.27		219.41	13.52		12.31		
Total	93.06	428.42	368.50	244.46	193.96	151.50	418.04	13184.86	46214.38	5530.47	209.56	974.50	68011.71	Tonday
Mean	3.10	13.82	12.28	7.89	6.26	5.05	13.49	439.50	1490.79	178.40	7.48	31.44		Ton/day
Max	5.76	99.46	50.81	44.34	29.26	18.63	167.76	5996.43	8976.07	1918.52	11.72	634.76	8976.07	Ton/day
Min	1.19	2.64	1.88	1.88	1.19	0.00	0.00	1.88	179.73	13.52	4.35	3.05	0.00	Ton/day

WATER YEAR : 2008

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

Drainge Area	295 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	2008
Number of observation	25
R-Square	0.8235
Remarks	Continued Sediment Station

$$QS = 25.8860\ QW^{1.20400}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	121.02	206.01	38.82	38.82	14.84	20.68	5.11	42.52	5620.91	605.95	105.02	44.90		
2	89.42	179.73	38.82	38.82	20.68	20.68	5.11	30.95	4783.67	1479.70	101.87	141.53		
3	59.64	108.19	38.82	38.82	16.85	20.68	5.11	7.06	2597.59	5568.21	95.61	404.11		
4	49.04	83.31	29.03	38.82	10.43	22.80	9.11	21.59	1188.06	3224.49	92.51	302.27		
5	38.82	74.27	36.82	38.82	15.98	26.82	7.06	23.72	827.91	2050.27	89.42	289.09		
6	38.82	68.35	38.82	30.95	8.59	27.77	5.11	25.89	1176.15	1046.52	80.28	218.47		
7	49.04	95.61	38.82	29.03	8.33	25.89	6.32	28.72	2578.55	640.15	71.30	129.16		
8	38.82	105.02	19.79	18.60	23.72	22.80	6.57	25.89	2635.74	546.90	59.64	108.19		
9	49.04	111.37	42.86	20.68	20.68	20.68	9.11	32.89	1915.07	510.53	51.13	101.87		
10	38.82	95.61	77.27	17.72	20.68	20.68	7.06	105.02	1069.90	404.11	46.96	80.28		
11	38.82	308.90	55.35	13.16	20.68	20.68	5.11	125.08	737.95	369.62	42.86	68.35		
12	38.82	188.42	53.23	11.24	20.68	20.68	5.11	517.77	546.90	335.66	42.86	59.64		
13	29.03	154.09	65.43	11.24	20.68	20.68	3.28	747.86	474.60	328.93	40.83	53.23		
14	19.79	129.16	62.52	11.24	20.68	20.68	3.28	488.92	390.25	474.60	38.82	49.04		
15	19.79	105.02	38.82	11.24	20.68	16.85	23.72	231.06	561.57	390.25	38.82	59.64		
16	19.79	86.35	38.82	24.64	20.68	10.43	25.89	121.02	1454.99	322.23	38.82	68.35		
17	19.79	74.27	34.85	11.24	20.68	7.57	25.89	89.42	1105.13	269.50	36.82	62.52		
18	19.79	59.64	29.03	11.24	24.64	7.06	11.24	418.05	605.95	243.76	34.85	59.64		
19	29.03	55.35	29.03	11.24	21.59	5.83	8.33	432.07	568.93	224.75	32.89	114.57		
20	19.79	49.04	29.03	6.32	20.68	5.11	13.16	1467.34	718.20	206.01	32.89	114.57		
21	19.79	46.96	29.03	6.57	20.68	5.11	24.64	1948.72	510.53	184.07	29.03	237.39		
22	19.79	42.86	29.03	11.24	22.80	5.83	117.79	2101.37	376.47	179.73	30.95	154.09		
23	19.79	74.27	32.89	20.68	23.72	4.41	350.14	2867.99	335.66	175.41	38.82	154.09		
24	59.64	243.76	65.43	22.80	21.59	1.43	208.22	2101.37	335.66	162.56	38.82	728.07		
25	276.01	117.79	83.31	25.89	22.80	1.82	248.78	1915.07	425.05	162.56	40.83	698.55		
26	117.79	59.64	68.35	25.89	21.59	3.73	146.12	1235.90	981.54	162.56	40.83	256.58		
27	188.42	59.64	105.02	21.59	20.68	3.28	75.02	1442.66	1140.55	121.02	40.83	162.56		
28	98.73	49.04	59.64	20.68	25.89	3.28	54.65	2635.74	1211.94	121.02	40.83	137.39		
29	114.57	38.82	55.35	20.68	23.72	4.64	54.65	3161.07	817.83	121.02		224.75		
30	74.27	38.82	38.82	14.84	23.72	5.11	49.73	3881.60	546.90	121.02		121.02		
31		38.82		11.24	21.59		47.31		474.60	121.02		129.16		
Total	1815.72	3148.13	1402.85	635.98	621.23	403.69	1567.73	28274.33	38714.75	20874.13	1475.14	5533.07	104466.75	Tonday
Mean	60.52	101.55	46.76	20.52	20.04	13.46	50.57	942.48	1248.86	673.36	52.68	178.49		Ton/day
Max	276.01	308.90	105.02	38.82	25.89	27.77	350.14	3881.60	5620.91	5568.21	105.02	728.07	5620.91	Ton/day
Min	19.79	38.82	19.79	6.32	8.33	1.43	3.28	7.06	335.66	121.02	29.03	44.90	1.43	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	23
R-Square	0.7339
Remarks	Continued Sediment Station

$$QS = 2.7978\ QW^{1.53990}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	43.04	385.47	96.99	1350.33	89.62	304.02	176.46	2603.54	13497.29	379.43	47.03	18.42		
2	72.12	209.71	86.02	843.82	75.51	697.22	158.38	2070.84	13320.70	385.47	44.17	18.42		
3	93.28	145.27	89.62	581.56	104.56	1814.63	104.56	1206.50	13028.20	875.92	43.04	18.42		
4	41.92	96.99	124.33	546.95	140.99	1453.18	315.24	765.44	12225.48	1350.33	41.92	20.11		
5	37.55	68.78	128.42	434.98	185.75	660.29	320.90	567.63	9925.69	966.33	40.81	20.98		
6	35.43	128.42	200.01	338.10	120.28	820.03	116.28	588.57	6563.18	652.99	39.71	20.98		
7	31.32	96.99	171.87	276.61	96.99	892.13	181.08	682.36	4338.18	493.14	36.49	21.86		
8	28.36	86.02	780.90	224.57	136.76	908.44	434.98	660.29	4822.77	409.97	35.43	21.86		
9	26.44	93.28	1654.56	282.02	149.59	1339.06	379.43	674.97	5373.82	355.61	34.39	19.26		
10	25.50	460.52	624.07	292.95	124.33	1752.45	473.47	674.97	4543.66	304.02	34.39	18.42		
11	25.50	466.98	397.65	219.58	96.99	1395.71	540.12	2297.79	3116.88	260.60	34.39	17.59		
12	23.66	820.03	1570.53	167.33	65.50	1174.13	540.12	2532.88	2150.00	234.67	33.35	16.78		
13	20.98	1715.51	3850.13	158.38	56.00	884.01	1195.68	1852.31	1594.38	209.71	31.32	15.19		
14	20.11	1877.57	5203.90	153.96	44.17	546.95	1058.08	2203.34	1250.15	185.75	30.32	14.42		
15	18.42	2044.69	3785.17	298.46	40.81	409.97	1499.74	1384.32	1027.18	176.46	30.32	13.66		
16	17.59	1752.45	1954.08	224.57	38.63	298.46	1666.69	796.47	941.37	162.83	32.33	12.19		
17	16.78	908.44	867.86	162.83	36.49	229.60	2216.75	624.07	1037.44	145.27	30.32	12.91		
18	20.98	519.80	553.81	162.83	34.39	195.21	3981.21	533.32	949.66	132.57	27.39	14.42		
19	38.63	338.10	416.17	181.08	36.49	171.87	3850.13	480.00	796.47	128.42	26.44	14.42		
20	44.17	250.11	338.10	260.60	540.12	276.61	3424.48	780.90	674.97	120.28	24.57	41.92		
21	40.81	219.58	332.33	265.90	875.92	332.33	3223.38	2674.88	581.56	104.56	23.66	338.10		
22	29.34	271.23	260.60	260.60	338.10	265.90	2270.66	4091.60	519.80	93.28	23.66	320.90		
23	24.57	343.90	304.02	229.60	214.62	190.46	1727.79	5012.07	447.69	86.02	23.66	112.32		
24	24.57	287.46	343.90	229.60	209.71	140.99	1327.83	4682.49	403.79	82.46	20.98	39.71		
25	38.63	271.23	441.32	204.84	181.08	124.33	1654.56	4917.10	385.47	82.46	20.11	36.49		
26	276.61	309.61	519.80	219.58	403.79	120.28	2937.24	7205.41	466.98	96.99	20.11	140.99		
27	162.83	244.93	1250.15	361.51	397.65	116.28	2311.39	9160.75	796.47	89.62	22.75	108.41		
28	132.57	171.87	2448.99	343.90	373.43	100.75	1488.05	10740.67	859.82	72.12	19.26	68.78		
29	271.23	136.76	2674.88	224.57	875.92	153.96	1016.94	12172.61	609.78	62.28		250.11		
30	567.63	112.32	2097.11	162.83	652.99	185.75	949.66	12974.13	480.00	68.78		367.45		
31		112.32		116.28	416.17		1740.11		441.32	52.95		224.57		
Total	2250.57	14946.34	33567.29	9780.72	7153.35	17955.00	43281.39	97612.22	107170.15	8821.29	872.32	2380.06	345790.70	Tonday
Mean	75.02	482.14	1118.91	315.51	230.75	598.50	1396.17	3253.74	3457.10	284.56	31.15	76.78		Ton/day
Max	567.63	2044.69	5203.90	1350.33	875.92	1814.63	3981.21	12974.13	13497.29	1350.33	47.03	367.45	13497.29	Ton/day
Min	16.78	68.78	86.02	116.28	34.39	100.75	104.56	480.00	385.47	52.95	19.26	12.19	12.19	Ton/day

WATER YEAR : 2008

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

Drainge Area	75 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	2008
Number of observation	23
R-Square	0.8060
Remarks	Continued Sediment Station

$$QS = 7.4493\ QW^{1.78530}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.10	0.12	0.22	1.09	0.38	3.55	102.80	25.22	433.50	43.88	2.01	1.52		
2	0.10	0.12	0.17	0.72	0.31	2.16	26.14	19.21	192.98	72.60	2.01	1.65		
3	0.10	0.10	0.17	0.67	0.97	38.24	34.24	15.36	175.00	222.88	2.01	1.65		
4	0.06	0.10	0.12	0.58	0.97	6.29	12.39	14.82	98.21	61.09	1.86	1.52		
5	0.06	0.17	0.10	0.50	0.67	2.01	3.17	12.39	78.50	32.95	1.86	1.52		
6	0.06	0.10	0.06	0.50	0.31	39.62	3.17	9.56	49.85	21.70	1.86	1.65		
7	0.04	0.12	0.06	0.58	0.72	828.51	26.14	8.13	137.52	16.86	2.73	1.52		
8	0.04	0.12	1.20	4.78	2.90	314.67	28.01	6.67	152.24	15.36	2.16	1.52		
9	0.10	0.58	12.39	2.32	1.09	211.16	18.41	5.46	168.13	14.11	2.01	1.39		
10	0.06	2.73	29.95	1.52	0.72	56.15	26.14	13.58	91.29	12.90	2.01	1.09		
11	0.06	5.46	15.36	1.09	0.58	43.88	20.02	57.78	54.54	11.25	1.86	0.67		
12	0.06	9.12	6.29	0.92	0.42	27.07	22.56	343.52	45.34	10.62	1.86	0.67		
13	0.06	16.86	4.78	0.67	0.42	20.85	61.09	100.29	36.89	9.56	1.86	0.67		
14	0.04	38.24	10.62	0.50	0.31	15.36	36.89	82.67	28.01	8.13	1.86	0.67		
15	0.04	25.22	4.25	0.42	0.31	11.74	19.21	64.83	22.56	7.58	1.86	0.67		
16	0.04	5.00	2.90	0.38	0.25	9.12	27.07	31.94	20.85	7.19	1.86	0.67		
17	0.04	1.86	0.82	0.42	0.25	7.58	49.85	15.36	18.41	6.67	1.86	0.58		
18	0.04	1.52	0.58	0.42	0.25	6.29	57.78	10.16	16.10	6.67	2.01	0.58		
19	0.04	0.97	0.38	1.65	0.25	5.00	152.24	7.58	14.11	5.81	2.01	0.67		
20	0.17	0.82	0.25	20.85	2.56	4.25	43.88	29.95	13.58	5.00	1.86	42.44		
21	0.10	0.67	0.22	3.84	129.01	28.01	48.32	42.44	12.39	4.78	1.86	0.67		
22	0.10	0.67	0.22	2.90	18.41	9.12	35.56	271.22	11.74	4.46	1.86	0.72		
23	0.10	0.67	0.38	1.20	1287.36	5.81	54.54	400.69	11.74	4.46	1.65	0.67		
24	0.22	0.92	3.55	0.82	31.94	6.29	24.32	353.63	9.12	4.04	1.65	0.42		
25	0.67	1.86	3.55	0.72	13.58	5.46	68.67	189.10	8.55	6.29	1.65	0.38		
26	0.31	0.97	161.38	0.67	6.29	10.62	61.09	490.68	14.82	5.00	1.65	0.58		
27	0.17	0.31	42.44	0.67	9.12	5.46	41.02	211.16	16.10	2.32	1.52	0.42		
28	0.17	0.25	9.12	2.16	80.76	4.04	28.97	467.44	11.25	2.16	1.52	0.38		
29	0.31	0.22	3.84	0.97	30.94	4.78	23.43	461.70	9.56	2.16		0.31		
30	0.22	0.17	2.16	0.72	46.82	62.78	30.94	502.49	9.12	2.16		0.82		
31		0.17		0.58	10.16		36.89		8.13	2.16		0.67		
Total	3.68	116.21	317.53	55.83	1679.03	1795.87	1224.95	4265.03	1970.13	632.80	52.78	69.36	12183.20	Tonday
Mean	0.12	3.75	10.58	1.80	54.16	59.86	39.51	142.17	63.55	20.41	1.88	2.24		Ton/day
Max	0.67	38.24	161.38	20.85	1287.36	828.51	152.24	502.49	433.50	222.88	2.73	42.44	1287.36	Ton/day
Min	0.04	0.10	0.06	0.38	0.25	2.01	3.17	5.46	8.13	2.16	1.52	0.31	0.04	Ton/day

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Ta Kuaw Pa at Ban Hin Dan , Phangnga (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** Phangnga

Drainge 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	2008
Number of observation	22
R-Square	0.7451
Remarks	Continued Sediment Station

$$QS = 8.4328\ QW^{1.19860}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	248.10	411.04	758.93	1263.94	618.52	778.14	1119.32	1586.60	248.10	126.86	72.22	41.77		
2	258.76	280.29	1119.32	1075.17	701.78	875.37	954.47	1288.32	227.01	133.22	66.49	41.77		
3	357.76	357.76	1034.67	1561.36	855.77	797.44	816.81	994.44	206.25	133.22	78.03	41.77		
4	380.45	395.70	855.77	1288.32	1054.89	668.27	797.44	836.25	227.01	126.86	72.22	44.42		
5	357.76	668.27	855.77	974.42	855.77	836.25	651.62	701.78	216.59	133.22	66.49	72.22		
6	346.51	836.25	855.77	855.77	816.81	684.99	618.52	668.27	206.25	126.86	66.49	114.30		
7	357.76	569.43	720.75	758.93	974.42	701.78	585.72	569.43	195.99	126.86	60.84	89.86		
8	701.78	426.49	758.93	797.44	914.78	2079.41	651.62	537.09	206.25	120.55	66.49	78.03		
9	457.65	994.44	701.78	778.14	934.59	2110.92	585.72	635.03	206.25	114.30	66.49	72.22		
10	258.76	3042.51	651.62	895.04	797.44	2047.98	537.09	585.72	206.25	108.10	60.84	55.27		
11	175.74	3204.09	855.77	778.14	684.99	2744.70	489.17	553.22	195.99	108.10	55.27	108.10		
12	206.25	5391.42	3312.57	739.80	585.72	5391.42	618.52	836.25	185.82	101.96	49.80	83.91		
13	248.10	26156.51	2829.27	684.99	505.06	2174.17	1034.67	585.72	185.82	101.96	44.42	78.03		
14	216.59	12185.01	2016.63	618.52	473.37	1616.74	778.14	521.03	165.76	95.88	44.42	83.91		
15	206.25	4144.23	1461.07	684.99	426.49	1191.27	618.52	411.04	159.16	89.86	44.42	146.09		
16	206.25	2786.93	1143.22	954.47	380.45	1167.20	585.72	395.70	165.76	89.86	41.77	248.10		
17	206.25	2618.66	954.47	1034.67	380.45	1239.63	684.99	442.02	159.16	95.88	41.77	313.11		
18	185.82	2047.98	797.44	855.77	369.07	1337.31	618.52	380.45	159.16	89.86	41.77	269.49		
19	357.76	1536.18	720.75	1014.52	335.31	5391.42	758.93	357.76	152.60	89.86	39.15	269.49		
20	816.81	1436.17	635.03	1034.67	313.11	1830.25	1263.94	346.51	152.60	83.91	39.15	346.51		
21	457.65	1707.71	602.09	974.42	302.10	1436.17	1054.89	457.65	146.09	83.91	39.15	258.76		
22	335.31	1337.31	684.99	875.37	269.49	1095.51	895.04	335.31	139.63	72.22	39.15	216.59		
23	302.10	1119.32	2871.71	758.93	302.10	974.42	684.99	313.11	139.63	78.03	36.56	206.25		
24	291.16	994.44	7652.87	816.81	280.29	934.59	585.72	313.11	139.63	89.86	39.15	237.52		
25	280.29	994.44	5179.86	895.04	324.18	836.25	585.72	324.18	139.63	95.88	41.77	258.76		
26	489.17	994.44	8765.29	1386.59	346.51	739.80	684.99	324.18	139.63	126.86	39.15	248.10		
27	457.65	974.42	5109.65	1263.94	346.51	635.03	778.14	313.11	146.09	114.30	41.77	269.49		
28	473.37	895.04	3042.51	1014.52	618.52	778.14	974.42	313.11	139.63	101.96	44.42	227.01		
29	505.06	778.14	2110.92	914.78	778.14	3863.61	1616.74	313.11	139.63	95.88		165.76		
30	426.49	739.80	1616.74	797.44	855.77	1511.08	3807.88	269.49	133.22	83.91		206.25		
31		778.14		684.99	797.44		2702.58		133.22	78.03		175.74		
Total	10569.36	80802.56	60676.16	29031.90	18199.84	48469.26	29140.56	16508.99	5363.81	3218.02	1439.66	5068.60	308488.72	Tonday
Mean	352.31	2606.53	2022.54	936.51	587.09	1615.64	940.02	550.30	173.03	103.81	51.42	163.50		Ton/day
Max	816.81	26156.51	8765.29	1561.36	1054.89	5391.42	3807.88	1586.60	248.10	133.22	78.03	346.51	26156.51	Ton/day
Min	175.74	280.29	602.09	618.52	269.49	635.03	489.17	269.49	133.22	72.22	36.56	41.77	36.56	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	24
R-Square	0.8513
Remarks	Continued Sediment Station

$$QS = 40.9900\ QW^{1.18760}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.31	2.66	6.42	10.99	41.97	75.37	113.64	123.43	59.57	2.04	2.66	2.04		
2	3.97	2.35	26.38	10.59	41.97	49.39	117.08	101.18	16.72	3.97	2.35	2.04		
3	4.31	2.35	44.42	49.39	129.83	46.40	104.55	58.03	30.52	3.30	2.35	2.98		
4	4.31	2.35	7.16	19.72	63.20	34.27	101.18	64.77	8.66	3.30	2.35	2.04		
5	3.97	3.63	37.61	10.59	9.81	229.81	92.26	15.88	34.27	31.45	2.35	7.53		
6	2.98	3.97	18.00	11.78	10.99	687.98	86.20	18.00	70.04	28.21	2.35	3.30		
7	3.63	5.00	15.46	9.42	49.39	196.97	9.81	47.89	73.23	11.78	2.35	2.66		
8	3.97	5.35	15.46	9.04	7.90	132.76	38.57	52.92	34.27	2.98	2.35	2.66		
9	3.63	16.72	7.90	19.29	9.42	86.20	36.65	86.20	22.35	2.35	2.35	3.30		
10	2.66	183.94	298.38	11.78	82.93	76.98	73.23	126.33	23.23	2.04	3.30	3.63		
11	2.66	190.13	164.36	9.42	113.64	117.08	47.89	70.04	31.45	2.04	4.31	3.30		
12	2.66	9.81	119.96	9.04	23.23	61.13	55.98	58.03	14.22	3.30	4.65	3.30		
13	2.66	8.28	58.03	9.04	6.79	44.42	12.18	104.55	17.14	2.66	2.98	2.66		
14	2.35	24.13	41.97	9.04	6.06	25.48	63.20	119.96	24.13	2.66	2.35	2.66		
15	2.35	88.95	35.69	26.38	6.06	21.03	52.92	117.08	18.42	2.66	2.35	3.30		
16	7.53	51.40	22.35	203.22	6.06	19.72	41.97	110.79	8.66	2.66	2.35	2.66		
17	66.34	9.42	26.38	340.80	5.70	15.88	36.65	132.76	6.79	2.66	2.35	2.35		
18	98.37	7.53	17.14	190.13	5.70	14.63	64.77	126.33	9.04	2.35	2.35	2.35		
19	110.79	7.53	14.63	158.32	5.70	15.46	129.83	113.64	9.81	2.35	2.35	2.35		
20	110.79	7.16	19.72	145.75	5.35	15.88	13.40	129.83	6.79	2.04	2.04	2.98		
21	107.38	5.70	61.13	113.64	4.31	17.14	12.99	71.63	7.53	2.04	2.04	5.00		
22	107.38	5.70	15.46	75.37	23.23	12.18	250.41	129.83	6.79	2.04	2.04	4.65		
23	113.64	6.79	44.42	61.13	49.39	13.40	80.21	126.33	6.42	2.04	2.04	3.63		
24	113.64	41.97	190.13	71.63	7.16	25.48	107.38	76.98	6.06	2.04	2.04	5.00		
25	113.64	264.07	183.94	110.79	6.42	75.37	264.07	15.46	4.31	2.04	2.04	9.04		
26	113.64	117.08	145.75	24.13	7.16	21.03	107.38	12.99	2.35	2.04	2.04	6.79		
27	113.64	12.99	92.26	75.37	9.81	76.98	51.40	10.59	2.04	2.04	2.04	8.66		
28	110.79	16.72	123.43	44.42	29.13	126.33	29.13	11.78	2.04	2.98	2.04	8.28		
29	75.37	6.42	12.18	32.38	86.20	132.76	132.76	41.97	2.04	2.98		6.42		
30	31.45	5.70	58.03	55.98	229.81	63.20	662.98	61.13	1.74	2.98		5.35		
31		5.70		44.42	117.08		216.45		1.74	2.98		7.90		
Total	1444.81	1121.50	1924.15	1972.99	1201.40	2530.71	3207.12	2336.33	562.37	143.00	69.16	130.81	16644.35	Tonday
Mean	48.16	36.18	64.14	63.64	38.75	84.36	103.46	77.88	18.14	4.61	2.47	4.22		Ton/day
Max	113.64	264.07	298.38	340.80	229.81	687.98	662.98	132.76	73.23	31.45	4.65	9.04	687.98	Ton/day
Min	2.35	2.35	6.42	9.04	4.31	12.18	9.81	10.59	1.74	2.04	2.04	2.04	1.74	Ton/day

WATER YEAR : 2008

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

Drainge Area	54 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	2008
Number of observation	24
R-Square	0.7613
Remarks	Continued Sediment Station

$$QS = 23.3100\ QW^{1.25480}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	27.48	42.70	17.89	22.73	15.44	22.73	37.48	137.76	16.79	10.76	15.44	10.76		
2	16.79	7.61	25.08	16.79	20.42	16.79	32.40	91.75	13.05	10.76	17.89	9.77		
3	10.76	25.08	19.29	50.78	95.24	48.06	25.08	61.98	15.44	13.05	13.05	9.77		
4	9.77	34.92	64.85	20.42	16.79	20.42	37.48	29.92	14.37	10.76	5.58	12.02		
5	7.61	6.47	87.90	17.89	16.79	168.61	20.42	27.48	15.44	19.29	5.58	13.05		
6	22.73	17.89	32.40	17.89	13.05	919.28	20.42	22.73	16.79	12.02	5.58	5.58		
7	20.42	19.29	25.08	16.79	13.05	337.77	22.73	27.48	19.29	12.02	5.58	4.51		
8	22.73	34.92	22.73	16.79	14.37	163.82	17.89	32.40	15.44	12.02	6.47	6.47		
9	13.05	45.36	27.48	15.44	34.92	117.93	20.42	53.54	15.44	8.56	6.47	15.44		
10	8.56	114.28	370.81	16.79	25.08	122.01	25.08	59.14	14.37	7.61	6.47	6.47		
11	8.56	233.32	183.16	14.37	16.79	145.78	14.37	32.40	15.44	5.58	6.47	6.47		
12	7.61	27.48	117.93	13.05	15.44	91.75	48.06	45.36	13.05	4.51	5.58	4.51		
13	6.47	16.79	53.54	13.05	10.76	80.69	19.29	56.32	15.44	4.51	6.47	3.69		
14	6.47	50.78	34.92	13.05	17.89	56.32	13.05	56.32	14.37	32.40	6.47	3.69		
15	7.61	40.07	25.08	42.70	14.37	53.54	14.37	45.36	13.05	3.69	5.58	5.58		
16	6.47	17.89	22.73	129.83	32.40	42.70	14.37	40.07	13.05	6.47	4.51	2.71		
17	13.05	14.37	19.29	654.81	15.44	37.48	27.48	56.32	12.02	7.61	5.58	4.51		
18	48.06	13.05	19.29	178.28	13.05	34.92	15.44	37.48	9.77	6.47	5.58	4.51		
19	27.48	9.77	19.29	99.15	13.05	32.40	19.29	42.70	8.56	7.61	5.58	3.69		
20	15.44	9.77	16.79	114.28	12.02	50.78	15.44	45.36	8.56	7.61	6.47	6.47		
21	15.44	10.76	17.89	70.66	10.76	45.36	16.79	25.08	8.56	6.47	6.47	5.58		
22	14.37	10.76	19.29	32.40	25.08	29.92	102.69	40.07	7.61	7.61	8.56	7.61		
23	27.48	137.76	27.48	17.89	19.29	34.92	17.89	29.92	8.56	7.61	9.77	37.48		
24	17.89	32.40	318.26	223.09	13.05	20.42	19.29	29.92	9.77	6.47	7.61	25.08		
25	15.44	453.59	168.61	67.74	12.02	16.79	430.73	22.73	8.56	6.47	5.58	13.05		
26	12.02	80.69	129.83	34.92	14.37	16.79	117.93	37.48	10.76	7.61	8.56	13.05		
27	12.02	50.78	91.75	32.40	13.05	15.44	70.66	37.48	8.56	7.61	7.61	15.44		
28	12.02	22.73	50.78	22.73	84.47	32.40	34.92	16.79	9.77	15.44	6.47	15.44		
29	14.37	16.79	45.36	16.79	133.57	61.98	84.47	16.79	10.76	22.73		20.42		
30	12.02	16.79	29.92	15.44	149.61	32.40	1229.08	14.37	10.76	19.29		8.56		
31		17.89		13.05	45.36		318.26		9.77	7.61		9.77		
Total	460.19	1632.75	2104.70	2031.99	946.99	2870.20	2903.27	1272.50	383.17	318.23	207.03	311.15	15442.17	Tonday
Mean	15.34	52.67	70.16	65.55	30.55	95.67	93.65	42.42	12.36	10.27	7.39	10.04		Ton/day
Max	48.06	453.59	370.81	654.81	149.61	919.28	1229.08	137.76	19.29	32.40	17.89	37.48	1229.08	Ton/day
Min	6.47	6.47	16.79	13.05	10.76	15.44	13.05	14.37	7.61	3.69	4.51	2.71	2.71	Ton/day

WATER YEAR : 2008

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

Drainge Area	139 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	2008
Number of observation	24
R-Square	0.7016
Remarks	Continued Sediment Station

$$QS = 9.2377\ QW^{1.48340}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	162.15	172.72	373.97	978.53	568.81	551.58	639.43	1043.07	194.49	80.95	28.95	15.87		
2	217.09	217.09	568.81	833.26	568.81	568.81	603.79	936.25	172.72	80.95	28.95	15.87		
3	277.01	252.47	500.94	1426.08	873.98	484.42	534.53	753.73	172.72	80.95	28.95	15.87		
4	344.16	420.16	468.08	753.73	676.85	435.94	500.94	639.43	172.72	80.95	28.95	15.87		
5	420.16	978.53	435.94	639.43	603.79	435.94	468.08	568.81	162.15	67.98	24.31	19.94		
6	435.94	676.85	435.94	586.21	586.21	435.94	586.21	568.81	162.15	67.98	24.31	24.31		
7	534.53	568.81	435.94	568.81	999.89	517.64	568.81	534.53	151.80	67.98	24.31	24.31		
8	658.05	568.81	404.57	534.53	957.31	1326.71	534.53	534.53	151.80	67.98	24.31	33.85		
9	676.85	813.13	373.97	639.43	915.34	1401.37	500.94	534.53	151.80	67.98	19.94	33.85		
10	500.94	1088.79	344.16	639.43	734.26	1827.67	468.08	468.08	151.80	55.76	15.87	44.36		
11	373.97	2396.62	639.43	568.81	534.53	2177.00	435.94	468.08	141.68	55.76	12.11	61.77		
12	302.27	2590.25	2525.16	500.94	435.94	2115.53	404.57	468.08	141.68	55.76	15.87	55.76		
13	217.09	4639.06	1634.65	451.92	435.94	1426.08	373.97	435.94	141.68	49.96	19.94	67.98		
14	151.80	3527.38	1302.58	404.57	404.57	1229.71	373.97	435.94	141.68	49.96	15.87	80.95		
15	112.72	2364.82	1229.71	658.05	404.57	1088.79	373.97	404.57	131.79	49.96	15.87	80.95		
16	172.72	1940.85	1043.07	873.98	389.17	773.37	373.97	404.57	131.79	44.36	15.87	74.37		
17	289.55	1799.34	957.31	734.26	358.96	833.26	500.94	404.57	131.79	44.36	15.87	74.37		
18	603.79	1634.65	813.13	1401.37	358.96	2333.17	484.42	373.97	131.79	38.99	15.87	80.95		
19	568.81	1326.71	714.95	915.34	358.96	957.31	500.94	344.16	131.79	38.99	15.87	87.71		
20	404.57	1043.07	621.53	833.26	404.57	714.95	999.89	315.17	131.79	38.99	12.11	131.79		
21	315.17	1182.12	468.08	714.95	435.94	676.85	773.37	315.17	122.13	38.99	12.11	131.79		
22	289.55	915.34	853.54	603.79	435.94	639.43	658.05	289.55	112.72	38.99	12.11	131.79		
23	289.55	873.98	1608.07	568.81	451.92	639.43	568.81	289.55	94.65	38.99	15.87	112.72		
24	329.56	833.26	3883.93	1254.07	404.57	639.43	534.53	289.55	87.71	33.85	15.87	131.79		
25	141.68	833.26	2590.25	1088.79	404.57	568.81	468.08	264.65	74.37	33.85	15.87	172.72		
26	94.65	833.26	2085.01	1206.17	373.97	568.81	734.26	264.65	80.95	33.85	15.87	217.09		
27	94.65	793.17	1998.27	1021.41	344.16	568.81	676.85	240.48	80.95	33.85	15.87	252.47		
28	94.65	714.95	1688.97	957.31	315.17	2590.25	853.54	240.48	80.95	33.85	15.87	194.49		
29	122.13	568.81	1426.08	957.31	315.17	1229.71	1206.17	240.48	80.95	19.94		122.13		
30	141.68	500.94	1043.07	753.73	568.81	873.98	1743.87	240.48	80.95	19.94		131.79		
31		468.08		551.58	468.08		1206.17		80.95	19.94		94.65		
Total	9337.44	37537.28	33469.11	24619.86	16089.72	30630.70	19651.62	13311.86	3978.89	1532.59	523.54	2734.13	193416.74	Tonday
Mean	311.25	1210.88	1115.64	794.19	519.02	1021.02	633.92	443.73	128.35	49.44	18.70	88.20		Ton/day
Max	676.85	4639.06	3883.93	1426.08	999.89	2590.25	1743.87	1043.07	194.49	80.95	28.95	252.47	4639.06	Ton/day
Min	94.65	172.72	344.16	404.57	315.17	435.94	373.97	240.48	74.37	19.94	12.11	15.87	12.11	Ton/day

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Had Sompan at Ban Hat Sompan, Ranong (X.204)

Lat 09 - 56 - 57 N Long 98 - 41 - 46 E

Location : on left bank at Ban Hat Sompan.

Ban Had Sompan **Amphoe** Mueang **Changwat** Ranong

Drainge Area	23 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	2008
Number of observation	27
R-Square	0.7895
Remarks	Continued Sediment Station

$$QS = 48.2000\ QW^{1.31610}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	0.00	0.00	149.22	235.69	160.98	4.32	487.30	434.93	216.39	149.22	104.47	54.64		
2	0.00	3.62	160.98	235.69	115.30	13.49	460.94	434.93	216.39	149.22	104.47	54.64		
3	0.00	731.84	149.22	160.98	487.30	17.84	460.94	434.93	216.39	149.22	104.47	54.64		
4	0.00	4476.80	149.22	104.47	275.46	93.91	487.30	316.65	216.39	149.22	104.47	54.64		
5	0.00	460.94	149.22	255.39	255.39	27.34	434.93	295.88	197.49	149.22	104.47	54.64		
6	0.00	235.69	149.22	235.69	541.06	63.97	384.04	275.46	126.37	149.22	104.47	54.64		
7	0.00	460.94	104.47	255.39	295.88	384.04	384.04	255.39	104.47	149.22	104.47	54.64		
8	0.00	93.91	37.72	409.29	255.39	568.43	384.04	255.39	104.47	149.22	104.47	73.64		
9	0.00	487.30	17.84	275.46	160.98	1227.12	337.75	255.39	104.47	149.22	104.47	63.97		
10	0.00	695.48	5.80	216.39	93.91	998.04	255.39	384.04	104.47	149.22	104.47	54.64		
11	0.00	1180.40	54.64	179.01	93.91	998.04	275.46	434.93	104.47	149.22	104.47	54.64		
12	0.00	3038.25	2867.81	149.22	93.91	1134.13	255.39	359.17	104.47	149.22	104.47	54.64		
13	0.00	1134.13	1883.17	126.37	63.97	3386.05	255.39	255.39	104.47	149.22	63.97	37.72		
14	0.00	1321.83	2491.58	104.47	37.72	1180.40	197.49	255.39	104.47	149.22	43.19	27.34		
15	0.00	2491.58	1642.30	104.47	27.34	487.30	179.01	255.39	104.47	149.22	37.72	27.34		
16	0.00	2563.83	731.84	104.47	27.34	998.04	409.29	235.69	104.47	149.22	37.72	27.34		
17	0.00	1042.94	487.30	83.63	22.47	1042.94	434.93	235.69	104.47	149.22	37.72	27.34		
18	0.00	514.01	434.93	83.63	17.84	881.54	460.94	216.39	104.47	149.22	37.72	27.34		
19	0.00	487.30	384.04	83.63	17.84	460.94	434.93	216.39	115.30	149.22	48.84	27.34		
20	0.00	1583.34	160.98	73.64	13.49	487.30	316.65	216.39	115.30	149.22	54.64	27.34		
21	0.00	805.85	104.47	73.64	27.34	487.30	409.29	216.39	115.30	149.22	54.64	27.34		
22	0.00	487.30	805.85	37.72	32.43	624.14	255.39	216.39	149.22	149.22	54.64	22.47		
23	0.00	487.30	731.84	27.34	22.47	514.01	255.39	216.39	149.22	149.22	54.64	22.47		
24	2.33	514.01	1042.94	843.49	13.49	596.13	216.39	255.39	149.22	149.22	54.64	22.47		
25	0.28	487.30	624.14	695.48	13.49	514.01	359.17	409.29	149.22	149.22	54.64	22.47		
26	0.28	160.98	624.14	624.14	27.34	460.94	514.01	541.06	149.22	149.22	54.64	22.47		
27	0.28	149.22	487.30	460.94	5.80	1042.94	487.30	275.46	149.22	149.22	54.64	22.47		
28	27.34	149.22	434.93	409.29	5.80	805.85	384.04	235.69	149.22	149.22	54.64	22.47		
29	0.00	149.22	295.88	275.46	5.80	596.13	768.63	216.39	149.22	149.22		22.47		
30	0.00	149.22	255.39	179.01	5.80	514.01	541.06	216.39	149.22	149.22		22.47		
31		149.22		197.49	5.05		460.94		149.22	149.22		22.47		
Total	30.51	26692.97	17618.38	7300.98	3222.29	20610.64	11947.76	8822.65	4281.16	4625.82	2052.28	1165.15	108370.59	Tonday
Mean	1.02	861.06	587.28	235.52	103.94	687.02	385.41	294.09	138.10	149.22	73.30	37.59		Ton/day
Max	27.34	4476.80	2867.81	843.49	541.06	3386.05	768.63	541.06	216.39	149.22	104.47	73.64	4476.80	Ton/day
Min	0.00	0.00	5.80	27.34	5.05	4.32	179.01	216.39	104.47	149.22	37.72	22.47	0.00	Ton/day

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong La - Un at Ban La - Un Tai, Ranong (X.205)

Lat 10 - 06 - 33 N Long 98 - 45 - 46 E

Location : on left bank at Ban La - Un.

Ban La - Un Tai **Amphoe** La - Un **Changwat** Ranong

Drainge Area	229 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	2008
Number of observation	27
R-Square	0.7111
Remarks	Continued Sediment Station

$$QS = 27.0080\ QW^{1.21170}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	426.45	376.64	442.40	361.13	765.43	499.01	649.66	387.03	355.99	330.48	222.53	305.31		
2	381.83	434.41	345.75	450.42	531.88	730.35	661.08	638.27	350.86	458.45	295.34	315.34		
3	1219.14	1092.98	315.34	410.60	944.91	896.41	442.40	340.65	361.13	256.06	361.13	280.50		
4	944.91	4007.83	144.88	402.72	593.06	531.88	300.32	345.75	361.13	275.58	199.10	251.22		
5	540.15	1257.45	376.64	765.43	684.04	515.40	158.15	310.32	305.31	275.58	285.43	96.08		
6	410.60	672.54	661.08	800.79	593.06	376.64	158.15	285.43	335.56	106.38	325.42	149.28		
7	300.32	836.43	649.66	788.97	661.08	394.86	144.88	285.43	355.99	106.38	426.45	96.08		
8	270.67	355.99	615.59	387.03	466.52	305.31	153.70	305.31	241.59	106.38	361.13	96.08		
9	315.34	559.54	232.02	366.29	507.19	285.43	158.15	371.46	246.40	106.38	275.58	350.86		
10	376.64	1257.45	75.27	402.72	523.63	788.97	180.70	5117.85	355.99	208.42	340.65	361.13		
11	482.72	1068.05	75.27	458.45	387.03	285.43	185.27	35914.12	265.79	275.58	330.48	381.83		
12	376.64	3816.58	75.27	387.03	402.72	1270.27	548.45	3061.31	355.99	153.70	290.38	490.85		
13	340.65	1985.68	325.42	180.70	402.72	15147.06	482.72	1657.92	310.32	275.58	241.59	394.86		
14	189.86	2971.80	6934.73	246.40	581.85	1448.71	515.40	932.74	340.65	290.38	149.28	371.46		
15	171.62	5521.42	5637.70	330.48	824.52	1181.04	320.37	896.41	335.56	340.65	217.81	434.41		
16	144.88	6047.95	896.41	626.91	531.88	1206.42	305.31	548.45	394.86	345.75	144.88	305.31		
17	99.36	1738.88	490.85	932.74	957.10	1143.16	604.31	376.64	265.79	270.67	96.08	131.82		
18	450.42	1155.76	1118.02	394.86	908.49	2227.35	507.19	450.42	232.02	213.10	96.08	96.08		
19	320.37	695.57	1657.92	896.41	387.03	824.52	371.46	458.45	236.80	222.53	96.08	149.28		
20	387.03	581.85	490.85	684.04	765.43	638.27	394.86	330.48	227.27	236.80	96.08	213.10		
21	167.11	410.60	1143.16	310.32	872.33	315.34	236.80	265.79	144.88	246.40	222.53	434.41		
22	371.46	531.88	1193.72	305.31	548.45	315.34	208.42	265.79	144.88	290.38	227.27	290.38		
23	280.50	507.19	523.63	376.64	330.48	315.34	213.10	310.32	140.50	265.79	232.02	236.80		
24	241.59	350.86	3956.93	350.86	330.48	315.34	106.38	376.64	144.88	275.58	251.22	320.37		
25	227.27	330.48	981.57	167.11	410.60	265.79	482.72	908.49	149.28	285.43	315.34	246.40		
26	171.62	361.13	1547.72	474.60	345.75	993.85	896.41	2177.93	149.28	285.43	474.60	246.40		
27	227.27	270.67	1498.07	1415.96	305.31	848.36	499.01	1465.13	256.06	290.38	371.46	189.86		
28	81.18	199.10	860.33	626.91	350.86	2477.31	672.54	707.13	260.92	376.64	381.83	185.27		
29	241.59	199.10	410.60	402.72	860.33	1244.66	661.08	458.45	256.06	203.75		189.86		
30	290.38	140.50	345.75	320.37	872.33	458.45	730.35	418.51	167.11	171.62		189.86		
31		140.50		300.32	499.01		474.60		222.53	167.11		208.42		
Total	10449.57	39876.81	34022.55	15325.24	18145.50	38246.27	12423.94	60368.62	8271.38	7713.34	7327.77	8008.91	260179.90	Tonday
Mean	348.32	1286.35	1134.09	494.36	585.34	1274.88	400.77	2012.29	266.82	248.82	261.71	258.35		Ton/day
Max	1219.14	6047.95	6934.73	1415.96	957.10	15147.06	896.41	35914.12	394.86	458.45	474.60	490.85	35914.12	Ton/day
Min	81.18	140.50	75.27	167.11	305.31	265.79	106.38	265.79	140.50	106.38	96.08	96.08	75.27	Ton/day

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

Khlong Bang Rin at Ban Bang Rin, Ranong (X.206)

Lat 09 - 54 - 54 N Long 98 - 37 - 59 E

Location : on right bank at the bridge.

Ban Bang Rin **Amphoe** Mueang **Changwat** Ranong

Drainge Area	95 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	2008
Number of observation	26
R-Square	0.7834
Remarks	Continued Sediment Station

$$QS = 32.7740\ QW^{1.18180}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	63.50	42.66	299.39	527.68	457.18	411.07	480.50	987.91	365.75	173.67	115.34	32.77		
2	14.45	411.07	365.75	480.50	434.03	411.07	434.03	919.60	343.40	173.67	115.34	32.77		
3	0.00	1056.94	365.75	818.93	818.93	388.31	411.07	785.35	343.40	173.67	115.34	32.77		
4	0.00	7112.01	321.28	785.35	852.07	388.31	388.31	719.50	343.40	173.67	115.34	32.77		
5	0.00	1092.06	299.39	752.63	654.56	434.03	365.75	622.75	343.40	173.67	115.34	32.77		
6	74.35	953.98	343.40	590.59	1162.14	953.98	365.75	559.30	343.40	173.67	115.34	32.77		
7	74.35	411.07	277.74	480.50	1092.06	1436.30	411.07	559.30	343.40	173.67	115.34	32.77		
8	42.66	457.18	214.39	687.22	785.35	1197.09	388.31	504.01	321.28	173.67	115.34	32.77		
9	173.67	527.68	173.67	622.75	527.68	1484.93	365.75	480.50	321.28	173.67	115.34	32.77		
10	96.79	457.18	321.28	654.56	480.50	2412.78	365.75	752.63	299.39	173.67	96.79	32.77		
11	74.35	2034.94	299.39	480.50	457.18	3160.39	321.28	1056.94	299.39	173.67	96.79	32.77		
12	52.92	7405.35	2189.32	480.50	434.03	1339.82	299.39	752.63	299.39	153.83	52.92	32.77		
13	42.66	1582.90	1983.87	480.50	434.03	8875.18	299.39	719.50	299.39	153.83	42.66	32.77		
14	42.66	1533.79	2753.97	457.18	411.07	1162.14	299.39	654.56	299.39	153.83	32.77	32.77		
15	42.66	6100.25	1244.39	457.18	411.07	1126.68	277.74	590.59	299.39	153.83	32.77	32.77		
16	42.66	1244.39	852.07	559.30	388.31	1056.94	277.74	365.75	299.39	153.83	32.77	32.77		
17	42.66	1162.14	687.22	504.01	388.31	953.98	256.34	321.28	299.39	173.67	32.77	32.77		
18	42.66	1162.14	504.01	480.50	388.31	654.56	235.22	256.34	299.39	321.28	32.77	32.77		
19	42.66	654.56	504.01	504.01	365.75	590.59	235.22	235.22	299.39	343.40	32.77	32.77		
20	52.92	987.91	480.50	480.50	365.75	559.30	214.39	214.39	299.39	343.40	32.77	32.77		
21	74.35	987.91	434.03	411.07	343.40	504.01	434.03	193.86	299.39	343.40	32.77	32.77		
22	74.35	590.59	1126.68	388.31	504.01	480.50	852.07	173.67	299.39	343.40	32.77	32.77		
23	52.92	480.50	919.60	365.75	818.93	434.03	299.39	153.83	214.39	343.40	32.77	32.77		
24	256.34	411.07	1056.94	434.03	527.68	434.03	235.22	134.37	173.67	343.40	32.77	32.77		
25	411.07	752.63	1056.94	687.22	411.07	457.18	457.18	321.28	173.67	343.40	32.77	32.77		
26	299.39	457.18	1022.66	1436.30	388.31	411.07	1022.66	457.18	173.67	134.37	32.77	32.77		
27	277.74	434.03	1022.66	919.60	343.40	818.93	752.63	434.03	173.67	134.37	32.77	32.77		
28	1056.94	388.31	818.93	559.30	343.40	1781.65	590.59	411.07	173.67	134.37	32.77	32.77		
29	134.37	343.40	719.50	504.01	388.31	953.98	1022.66	388.31	173.67	115.34		32.77		
30	74.35	321.28	590.59	480.50	434.03	622.75	1126.68	388.31	173.67	115.34		32.77		
31		299.39		504.01	434.03		1056.94		173.67	115.34		32.77		
Total	3730.40	41856.49	23249.32	17974.99	16244.88	35895.58	14542.44	15113.96	8564.53	6327.40	1818.77	1015.87	186334.63	Tonday
Mean	124.35	1350.21	774.98	579.84	524.03	1196.52	469.11	503.80	276.28	204.11	64.96	32.77		Ton/day
Max	1056.94	7405.35	2753.97	1436.30	1162.14	8875.18	1126.68	1056.94	365.75	343.40	115.34	32.77	8875.18	Ton/day
Min	0.00	42.66	173.67	365.75	343.40	388.31	214.39	134.37	173.67	115.34	32.77	32.77	0.00	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	21
R-Square	0.7265
Remarks	Continued Sediment Station

$$QS = 4.8528\ QW^{2.06480}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	4.37	10.45	8.34	16.33	1.41	18.26	20.30	23.57	1062.98	20.30	13.65	3.47		
2	2.68	7.07	7.69	11.21	0.93	19.27	16.33	19.27	393.05	84.94	12.81	5.37		
3	0.93	3.06	14.52	12.81	1.69	23.57	23.57	17.28	277.76	337.28	12.81	9.02		
4	1.16	3.06	11.99	13.65	8.34	15.41	13.65	16.33	209.95	103.42	10.45	3.06		
5	0.40	11.99	11.21	11.21	3.47	16.33	13.65	15.41	113.36	50.18	6.48	1.41		
6	0.73	11.21	11.21	11.21	1.69	19.27	12.81	13.65	84.94	37.73	5.91	1.41		
7	0.56	11.21	11.99	12.81	8.34	402.77	16.33	12.81	176.49	21.36	5.37	1.16		
8	0.28	11.21	23.57	13.65	11.21	113.36	12.81	11.99	189.52	25.89	4.85	1.16		
9	0.10	15.41	23.57	14.52	3.47	238.88	15.41	16.33	170.16	23.57	3.90	0.93		
10	0.10	17.28	30.87	1.69	1.16	64.47	15.41	18.26	98.62	23.57	3.90	0.56		
11	0.10	22.45	21.36	1.41	0.73	45.30	13.65	23.57	72.31	23.57	3.90	0.73		
12	0.04	19.27	25.89	1.69	0.40	30.87	14.52	311.04	50.18	22.45	7.69	1.99		
13	0.01	24.72	25.89	2.68	0.40	24.72	33.53	43.73	39.19	22.45	9.02	2.68		
14	0.04	34.90	20.30	2.68	0.17	21.36	18.26	25.89	36.30	23.57	9.02	3.47		
15	0.01	33.53	14.52	1.99	0.40	15.41	14.52	20.30	34.90	21.36	8.34	4.37		
16	0.00	18.26	10.45	1.41	0.40	16.33	21.36	15.41	34.90	20.30	7.07	9.02		
17	0.00	2.32	1.99	0.93	0.28	15.41	33.53	13.65	33.53	14.52	7.07	7.69		
18	0.00	1.16	1.16	1.16	0.28	14.52	33.53	12.81	30.87	19.27	7.07	4.37		
19	5.37	0.56	1.16	1.41	0.17	11.21	50.18	19.27	25.89	15.41	4.85	9.02		
20	0.00	0.40	3.06	27.09	8.34	17.28	28.33	43.73	22.45	17.28	3.47	25.89		
21	0.00	0.56	11.21	18.26	45.30	13.65	27.09	42.18	22.45	15.41	2.68	14.52		
22	1.16	0.73	1.69	11.99	28.33	13.65	28.33	641.60	23.57	15.41	2.32	9.72		
23	5.37	0.73	2.68	9.72	551.80	9.02	23.57	346.27	21.36	14.52	1.99	7.69		
24	7.07	1.69	68.34	6.48	33.53	13.65	30.87	254.07	23.57	15.41	1.69	7.69		
25	18.26	453.22	28.33	4.85	22.45	13.65	89.39	238.88	27.09	21.36	2.68	9.02		
26	6.48	3.90	98.62	2.68	16.33	15.41	57.10	1030.95	29.58	17.28	1.99	1.99		
27	7.07	1.16	64.47	4.85	17.28	11.99	28.33	311.04	30.87	16.33	1.69	1.99		
28	11.21	1.69	32.19	14.52	269.74	10.45	27.09	3259.49	25.89	16.33	4.85	0.93		
29	9.72	8.34	21.36	12.81	45.30	10.45	23.57	660.40	20.30	15.41		2.68		
30	9.02	6.48	20.30	6.48	29.58	19.27	33.53	2357.00	18.26	14.52		11.99		
31		11.99		2.32	21.36		30.87		17.28	13.65		0.73		
Total	92.24	750.01	629.93	256.50	1134.28	1275.19	821.42	9836.18	3417.57	1104.05	167.52	165.73	19650.62	Tonday
Mean	3.07	24.19	21.00	8.27	36.59	42.51	26.50	327.87	110.24	35.61	5.98	5.35		Ton/day
Max	18.26	453.22	98.62	27.09	551.80	402.77	89.39	3259.49	1062.98	337.28	13.65	25.89	3259.49	Ton/day
Min	0.00	0.40	1.16	0.93	0.17	9.02	12.81	11.99	17.28	13.65	1.69	0.56	0.00	Ton/day

WATER YEAR : 2008

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

Drainge Area	89 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	2005-2008
Number of observation	85
R-Square	0.7033
Remarks	Continued Sediment Station

$$QS = 3.9808\ QW^{1.54070}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	8.21	29.88	22.75	16.33	14.85	90.58	17.87	19.45	349.30	28.04	12.03	5.96		
2	8.21	24.47	24.47	17.87	14.85	35.66	13.41	21.08	163.95	44.62	12.03	5.96		
3	8.21	22.75	24.47	120.16	26.23	19.45	12.03	19.45	100.11	49.44	13.41	9.43		
4	8.21	22.75	19.45	33.69	21.08	16.33	12.03	17.87	73.06	75.97	14.85	26.23		
5	8.21	22.75	14.85	21.08	14.85	51.83	16.33	29.88	54.42	29.88	13.41	14.85		
6	78.75	22.75	16.33	17.87	17.87	54.42	12.03	28.04	137.83	16.33	10.70	9.43		
7	87.66	22.75	19.45	17.87	28.04	96.90	13.41	21.08	354.62	12.03	12.03	8.21		
8	31.77	24.47	14.85	14.85	17.87	37.67	13.41	17.87	260.87	9.43	12.03	8.21		
9	37.67	51.83	19.45	14.85	21.08	31.77	12.03	22.75	113.34	8.21	12.03	8.21		
10	24.47	167.81	19.45	17.87	14.85	28.04	12.03	100.11	81.74	16.33	10.70	9.43		
11	31.77	120.16	17.87	14.85	13.41	26.23	13.41	49.44	62.13	26.23	10.70	10.70		
12	22.75	220.77	26.23	14.85	13.41	22.75	22.75	24.47	49.44	26.23	10.70	7.06		
13	19.45	113.34	17.87	16.33	12.03	28.04	19.45	17.87	49.44	26.23	10.70	7.06		
14	16.33	62.13	13.41	16.33	12.03	21.08	14.85	13.41	49.44	37.67	12.03	8.21		
15	13.41	44.62	12.03	16.33	10.70	16.33	39.99	13.41	51.83	62.13	13.41	9.43		
16	29.88	35.66	10.70	13.41	17.87	17.87	33.69	16.33	42.21	46.94	14.85	9.43		
17	19.45	31.77	9.43	13.41	13.41	19.45	19.45	22.75	37.67	19.45	16.33	9.43		
18	16.33	29.88	9.43	12.03	13.41	19.45	19.45	17.87	33.69	21.08	16.33	8.21		
19	19.45	26.23	9.43	10.70	13.41	13.41	16.33	49.44	31.77	22.75	8.21	7.06		
20	17.87	22.75	10.70	12.03	13.41	14.85	17.87	28.04	28.04	22.75	8.21	24.47		
21	17.87	21.08	10.70	10.70	13.41	12.03	19.45	22.75	26.23	21.08	8.21	28.04		
22	13.41	16.33	9.43	9.43	39.99	10.70	289.34	33.69	31.77	16.33	7.06	35.66		
23	12.03	17.87	14.85	10.70	19.45	10.70	73.06	26.23	31.77	17.87	7.06	37.67		
24	10.70	17.87	51.83	46.94	17.87	10.70	24.47	67.51	31.77	16.33	8.21	70.35		
25	12.03	46.94	21.08	19.45	16.33	12.03	21.08	59.57	31.77	17.87	8.21	29.88		
26	10.70	26.23	156.32	37.67	10.70	10.70	22.75	67.51	33.69	19.45	9.43	28.04		
27	9.43	22.75	70.35	24.47	14.85	10.70	22.75	75.97	31.77	21.08	3.44	9.43		
28	19.45	21.08	31.77	19.45	13.41	24.47	22.75	127.13	31.77	21.08	3.44	7.06		
29	39.99	21.08	24.47	17.87	12.03	28.04	19.45	78.75	31.77	19.45		5.96		
30	64.88	22.75	21.08	13.41	12.03	24.47	39.99	247.16	26.23	17.87		7.06		
31		17.87		13.41	10.70		24.47		26.23	12.03		8.21		
Total	718.55	1371.37	744.50	656.21	505.43	816.65	931.38	1356.88	2459.67	802.18	299.75	474.34	11136.91	Tonday
Mean	23.95	44.24	24.82	21.17	16.30	27.22	30.04	45.23	79.34	25.88	10.71	15.30		Ton/day
Max	87.66	220.77	156.32	120.16	39.99	96.90	289.34	247.16	354.62	75.97	16.33	70.35	354.62	Ton/day
Min	8.21	16.33	9.43	9.43	10.70	10.70	12.03	13.41	26.23	8.21	3.44	5.96	3.44	Ton/day

WATER YEAR : 2008

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

Drainge 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	2008
Number of observation	25
R-Square	0.7840
Remarks	Continued Sediment Station

$$QS = 12.6440\ QW^{1.42560}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	207.99	207.99	583.46	1125.09	533.21	273.06	324.94	361.15	52.10	44.05	13.55	2.27		
2	256.08	192.37	853.81	911.42	508.59	162.64	307.51	307.51	46.15	40.18	13.55	6.10		
3	289.90	361.15	583.46	2744.27	714.81	134.44	343.15	256.08	40.18	36.41	13.55	6.10		
4	436.88	635.04	460.42	1286.68	583.46	121.14	324.94	162.64	40.18	36.41	13.55	13.55		
5	398.48	558.17	460.42	911.42	533.21	134.44	289.90	121.14	34.69	32.76	13.55	40.18		
6	398.48	484.33	583.46	742.01	533.21	162.64	256.08	207.99	34.69	29.23	10.88	22.54		
7	484.33	379.93	533.21	609.09	1205.08	289.90	256.08	134.44	34.69	29.23	10.88	22.54		
8	343.15	343.15	436.88	609.09	769.52	1673.25	223.55	192.37	163.80	25.82	10.88	22.54		
9	324.94	583.46	460.42	609.09	533.21	1046.77	289.90	107.92	132.62	22.54	8.39	22.54		
10	289.90	5409.29	460.42	940.65	417.81	1912.09	256.08	92.87	122.92	22.54	8.39	22.54		
11	307.51	9819.16	970.15	609.09	324.94	3464.07	256.08	239.87	113.09	22.54	8.39	22.54		
12	239.87	14353.79	12662.75	508.59	289.90	2686.06	289.90	379.93	103.84	22.54	8.39	22.54		
13	177.52	11751.12	9310.57	484.33	256.08	1008.58	307.51	148.53	94.51	22.54	6.10	16.40		
14	134.44	11036.65	2744.27	436.88	223.55	714.81	307.51	107.92	76.96	22.54	6.10	10.88		
15	121.14	7480.65	1808.11	661.32	177.52	484.33	307.51	107.92	68.76	22.54	4.05	10.88		
16	148.53	4455.28	1008.58	970.15	134.44	361.15	343.15	100.48	68.76	22.54	4.05	13.55		
17	223.55	2861.79	853.81	661.32	134.44	289.90	343.15	92.87	60.54	22.54	4.05	113.09		
18	134.44	1912.09	661.32	1328.44	134.44	769.52	436.88	92.87	60.54	22.54	2.27	85.76		
19	162.64	1412.40	508.59	1086.06	121.14	5017.64	797.32	92.87	56.27	22.54	2.27	68.76		
20	324.94	2179.46	436.88	1246.04	121.14	1584.84	533.21	92.87	56.27	22.54	2.27	132.62		
21	324.94	3867.52	436.88	853.81	121.14	687.91	398.48	78.51	52.10	22.54	2.27	514.03		
22	343.15	1964.72	661.32	714.81	148.53	460.42	361.15	78.51	52.10	22.54	2.27	267.22		
23	343.15	1369.86	1584.84	484.33	148.53	361.15	307.51	78.51	48.02	16.40	2.27	219.31		
24	417.81	1205.08	8976.04	3384.41	134.44	307.51	273.06	71.76	48.02	16.40	2.27	292.20		
25	484.33	1125.09	3464.07	2125.16	134.44	289.90	361.15	78.51	44.05	16.40	2.27	122.92		
26	379.93	940.65	4921.11	2125.16	121.14	324.94	324.94	78.51	44.05	16.40	2.27	68.76		
27	307.51	882.47	3867.52	2017.78	134.44	256.08	256.08	78.51	32.76	16.40	2.27	52.10		
28	273.06	769.52	2861.79	1086.06	239.87	769.52	343.15	78.51	22.54	16.40	2.27	36.41		
29	256.08	661.32	2071.26	797.32	162.64	797.32	379.93	78.51	19.39	16.40		60.54		
30	273.06	714.81	1497.88	635.04	289.90	558.17	1008.58	78.51	13.55	16.40		68.76		
31		583.46		583.46	398.48		558.17		10.88	16.40		60.54		
Total	8807.73	90501.77	66723.70	33288.37	10283.25	27104.19	11366.55	4178.59	1849.02	737.25	183.27	2440.71	257464.40	Tonday
Mean	293.59	2919.41	2224.12	1073.82	331.72	903.47	366.66	139.29	59.65	23.78	6.55	78.73		Ton/day
Max	484.33	14353.79	12662.75	3384.41	1205.08	5017.64	1008.58	379.93	163.80	44.05	13.55	514.03	14353.79	Ton/day
Min	121.14	192.37	436.88	436.88	121.14	121.14	223.55	71.76	10.88	16.40	2.27	2.27	2.27	Ton/day

WATER YEAR : 2008

SOUTHERN PENINSULA WEST COAST

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

Drainge Area	99 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	2008
Number of observation	25
R-Square	0.7949
Remarks	Continued Sediment Station

$$QS = 15.4690\ QW^{1.50050}$$

Suspended Sediment , in Tons per Day. Water Year 1 April 2008 to 31 March 2009

Date	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Annual	
1	9.45	19.83	30.15	30.15	24.00	2571.65	94.06	111.06	619.83	40.21	21.10	15.70		
2	9.45	13.21	27.01	27.01	21.10	377.00	68.66	103.97	347.11	42.14	21.10	22.67		
3	9.45	11.28	27.01	97.04	30.15	189.97	50.84	97.04	194.28	58.26	21.10	28.71		
4	9.45	9.45	24.00	63.39	168.95	148.76	40.21	91.11	148.76	58.26	21.10	21.10		
5	9.45	9.45	27.01	30.15	53.28	133.24	58.26	85.30	118.31	53.28	19.83	19.83		
6	15.70	11.28	40.21	25.63	42.14	118.31	40.21	97.04	156.74	30.15	19.83	18.34		
7	185.70	11.28	27.01	24.00	173.09	4210.87	63.39	91.11	383.76	27.01	19.83	18.34		
8	40.21	11.28	25.63	24.00	140.93	364.94	46.09	79.62	526.93	27.01	18.34	17.12		
9	22.67	11.28	24.00	21.10	111.06	234.41	43.77	79.62	253.04	27.01	18.34	21.10		
10	25.63	148.76	35.21	22.67	58.26	168.95	40.21	94.06	148.76	31.90	17.12	18.34		
11	17.12	519.42	35.21	25.63	43.77	156.74	48.44	152.73	125.70	27.01	17.12	18.34		
12	18.34	704.32	27.01	21.10	36.75	111.06	713.46	111.06	118.31	27.01	18.34	17.12		
13	25.63	234.41	24.00	18.34	33.39	94.06	278.81	82.44	103.97	27.01	18.34	15.70		
14	17.12	85.30	27.01	15.70	30.15	118.31	604.00	68.66	103.97	30.15	18.34	13.21		
15	13.21	58.26	21.10	48.44	27.01	91.11	118.31	63.39	94.06	30.15	18.34	13.21		
16	11.28	43.77	18.34	27.01	111.06	66.01	1275.93	63.39	82.44	28.71	18.34	13.21		
17	13.21	36.75	15.70	27.01	103.97	58.26	216.26	58.26	74.07	28.71	18.34	15.70		
18	22.67	30.15	15.70	33.39	46.09	53.28	160.77	60.81	79.62	27.01	17.12	19.83		
19	17.12	27.01	15.70	22.67	33.39	53.28	125.70	66.01	74.07	27.01	15.70	30.15		
20	13.21	24.00	18.34	129.45	30.15	48.44	107.50	94.06	63.39	27.01	15.70	21.10		
21	13.21	22.67	18.34	35.21	27.01	58.26	133.24	79.62	53.28	27.01	15.70	24.00		
22	11.28	22.67	15.70	25.63	572.76	50.84	1704.51	74.07	48.44	27.01	14.55	18.34		
23	10.45	79.62	25.63	24.00	243.67	43.77	704.32	60.81	43.77	24.00	14.55	15.70		
24	10.45	85.30	295.42	156.74	85.30	40.21	491.21	216.26	40.21	24.00	14.55	21.10		
25	8.67	211.80	111.06	144.83	68.66	36.75	470.03	144.83	43.77	24.00	14.55	22.67		
26	15.70	429.33	66.01	118.31	53.28	31.90	284.31	103.97	43.77	24.00	14.55	21.10		
27	22.67	91.11	229.83	71.35	60.81	30.15	160.77	118.31	40.21	24.00	14.55	18.34		
28	15.70	60.81	68.66	50.84	46.09	36.75	129.45	329.57	40.21	24.00	14.55	15.70		
29	17.12	50.84	43.77	33.39	60.81	58.26	114.66	152.73	42.14	22.67		17.12		
30	15.70	40.21	35.21	27.01	66.01	177.26	225.28	243.67	43.77	21.10		19.83		
31		33.39		25.63	46.09		148.76		40.21	22.67		15.70		
Total	647.02	3148.24	1414.98	1446.82	2649.18	9932.80	8761.42	3274.58	4296.90	939.47	490.92	588.42	37590.75	Tonday
Mean	21.57	101.56	47.17	46.67	85.46	331.09	282.63	109.15	138.61	30.31	17.53	18.98		Ton/day
Max	185.70	704.32	295.42	156.74	572.76	4210.87	1704.51	329.57	619.83	58.26	21.10	30.15	4210.87	Ton/day
Min	8.67	9.45	15.70	15.70	21.10	30.15	40.21	58.26	40.21	21.10	14.55	13.21	8.67	Ton/day